September 16-20 Copenhagen, Denmark CIRSE 2017

featuring



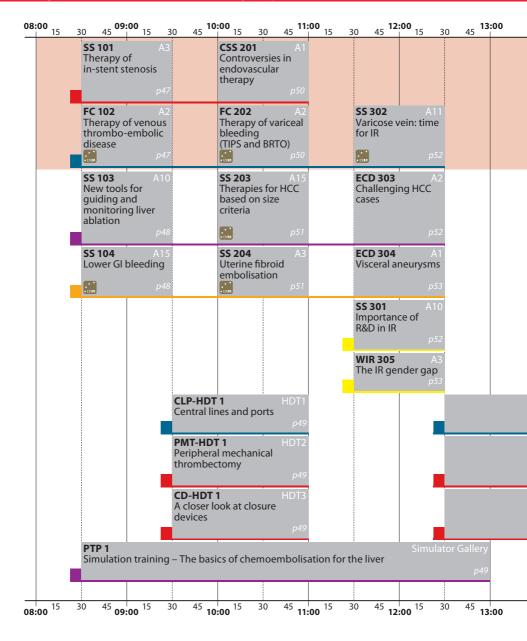
POCKET GUIDE

ANNUAL MEETING
AND POSTGRADUATE
COURSE

OF THE

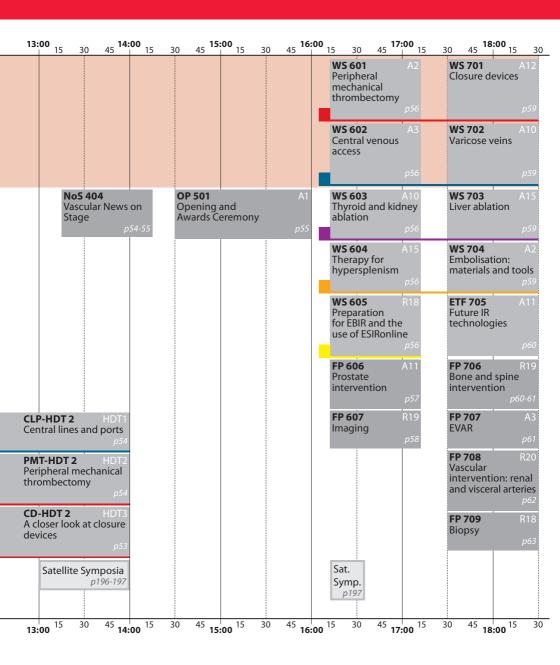
CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGICAL SOCIETY OF EUROPE

Programme at a Glance – Saturday, September 16









ECD: Expert Case Discussion **ERT:** Expert Round Table **ETF:** European Trainee Forum **HTS:** Hot Topic Symposium FC: Fundamental Course

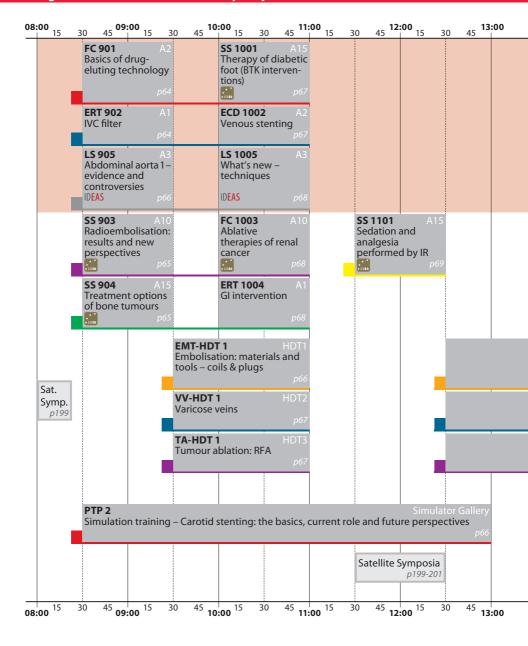
FP: Free Paper Session **HDT:** Hands-on Device Training LS: Lecture Session

NoS: News on Stage SS: Special Session

A: Auditorium R: Room

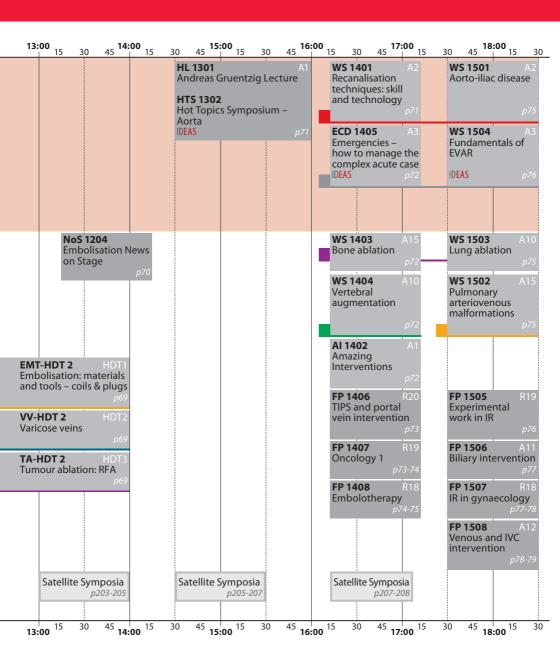
STRAT: Successful strategies for IR practice WS: Workshop

Programme at a Glance – Sunday, September 17









ECD: Expert Case Discussion ERT: Expert Round Table ETF: European Trainee Forum FC: Fundamental Course

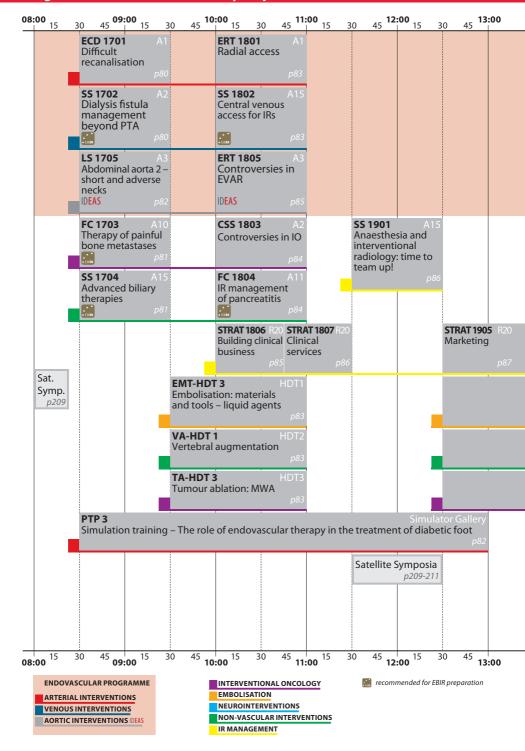
FP: Free Paper Session
HDT: Hands-on Device Training
HTS: Hot Topic Symposium
LS: Lecture Session

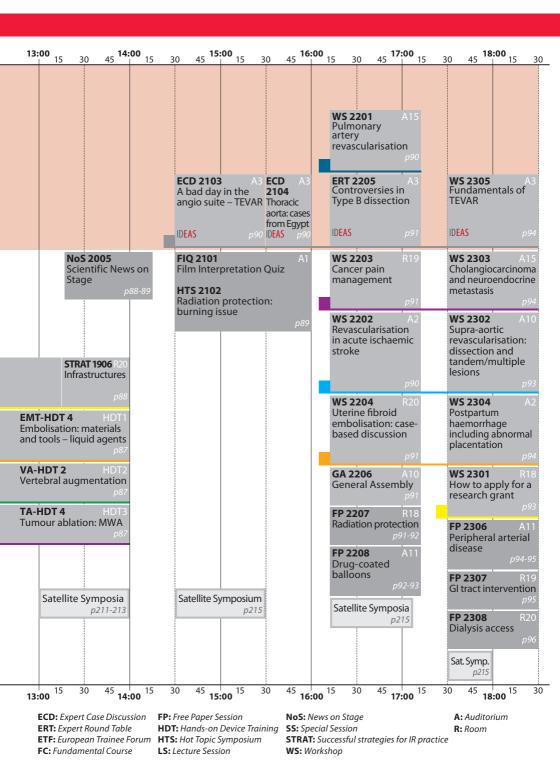
NoS: News on Stage SS: Special Session STRAT: Successful strategies for IR practice

A: Auditorium **R:** Room

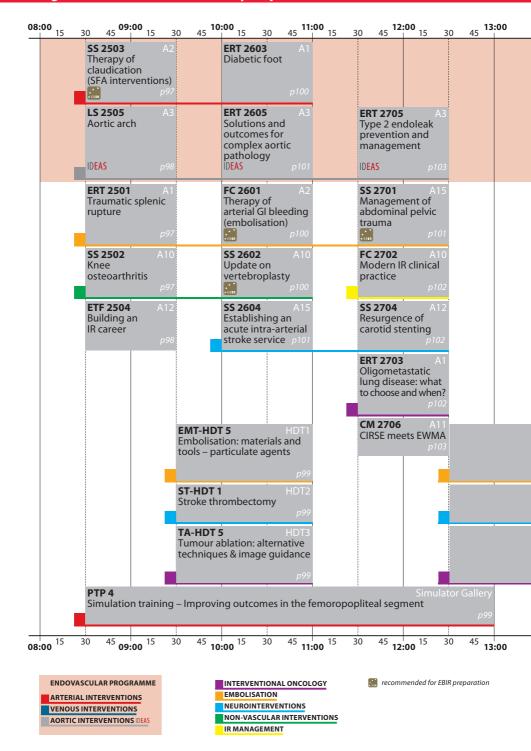
WS: Workshop

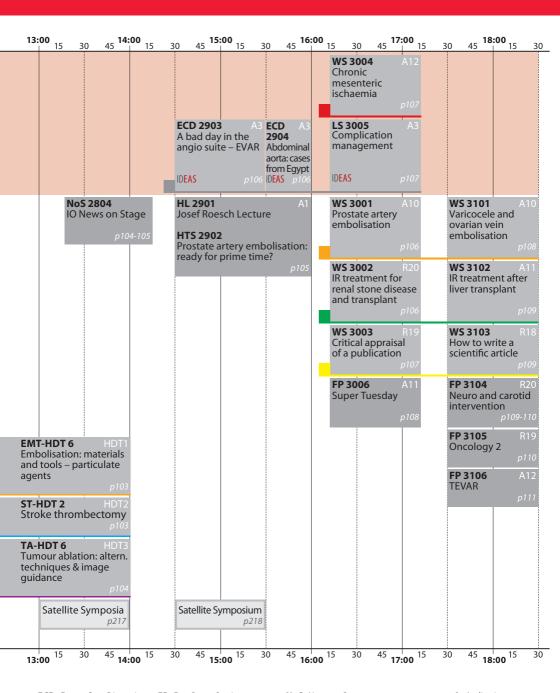
Programme at a Glance – Monday, September 18





Programme at a Glance – Tuesday, September 19





ECD: Expert Case Discussion **ERT:** Expert Round Table **ETF:** European Trainee Forum **HTS:** Hot Topic Symposium FC: Fundamental Course

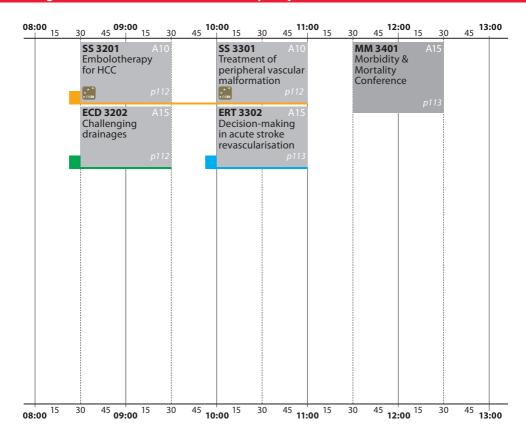
FP: Free Paper Session **HDT:** Hands-on Device Training LS: Lecture Session

NoS: News on Stage SS: Special Session

A: Auditorium R: Room

STRAT: Successful strategies for IR practice WS: Workshop

Programme at a Glance – Wednesday, September 20





ECD: Expert Case Discussion **ERT:** Expert Round Table

FC: Fundamental Course

FP: Free Paper Session **HDT:** Hands-on Device Training **ETF:** European Trainee Forum **HTS:** Hot Topic Symposium LS: Lecture Session

NoS: News on Stage SS: Special Session

A: Auditorium R: Room

STRAT: Successful strategies for IR practice WS: Workshop

The CIRSE 2017 event in the CIRSE society app

Your toolkit for the 2017 Annual Meeting in Copenhagen:

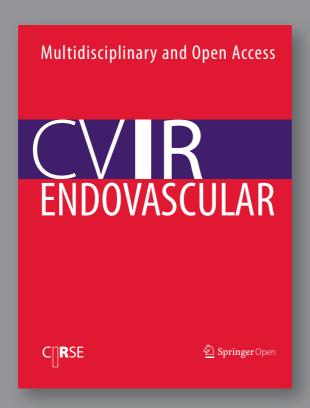
- · browse the programme
- build your personal schedule
- · complete the session evaluation
- · participate in e-voting polls
- send questions to the moderators
- find your way around using the interactive floor plans
- · browse the list of exhibitors
- · watch sessions live and on demand
- · and much more...







Communication through open access publication





New multidisciplinary journal of CIRSE

- Open access
- Open peer-reviewed
- Constant article publishing online
- Fast review and publication process
- Editor-in-Chief: Jim. A Reekers (Amsterdam, NL)

Find out more on www.cvirendovascular.org

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64	Sunday – Scientific Programme	SUN
80	Monday – Scientific Programme	MON
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^{*} advertisement-free section in accordance with the document UEMS 2012/30 – the Accreditation of Live Educational Events of the EACCME® (article 33/34)

General Information from A to Z

App

Let the CIRSE app take care of your congress planning. Newcomers, please download the CIRSE society app which is available for iPhone, iPad and Android (www.cirse.org/app) and install the CIRSE 2017 event. If the CIRSE society app is already on your smartphone, please just install the CIRSE 2017 event and have the best toolkit to plan your personal congress programme, evaluate sessions, browse the exhibition, take part in votings and submit questions to the moderator in selected sessions.

- browse the programme
- complete the paperless session evaluation
- search for exhibitors by product category
- and much more...



Badges

Your personalised badge is your admission card to the congress. For organisational and security reasons, badges must be worn at the congress venue at all times. A lanyard will be given to you with the congress bag. Identity checks in the congress centre may occur at any time. In case of loss, a replacement badge will be provided at an administrative charge of $\in 80$.

Certificate of Attendance

To obtain your certificate of attendance, you can choose one of the following options:

Print your certificate onsite at the congress

From 14:00 on Monday, September 18, you can use one of the dedicated workstations in the registration area to print your certificate. All you need is your congress badge.

Print your certificate at home

After the congress, you will be able to print your certificate of attendance at www.cirse.org. All you need is your last name and badge number. Alternatively, you could log into your personal CIRSE account at www.cirse.org with your personal log-in details.

CME Credit Allowance

CIRSE 2017, Copenhagen, Denmark, September 16-20, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 26 European CME credits (ECMEC®s).

IDEAS 2017, Copenhagen, Denmark, September 17-19, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 15 European CME credits (ECMEC®s).



Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of *AMA PRA Category 1 Credits*TM. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

Coffee, Snacks & Meals

Refreshments can be purchased at the restaurant as well as the cash bars. The restaurant opens at 08:00 and the cash bars at 09:00.

Disclaimer

CIRSE cannot accept any liability for the acts of the suppliers to this meeting or the attendees' safety while travelling to or from the congress. All participants are strongly advised to carry adequate travel and health insurance, as CIRSE cannot accept liability for accidents or injuries that may occur.

Disclosures

For financial disclosures and conflict of interest statements, please refer to www.cirse.org.

ESIRonline - www.esir.org

ESIRonline is the largest online presentation database for interventional radiology, featuring slides and webcasts from past CIRSE meetings. With monthly compiled topic packages, ESIRonline is the ideal tool for your research and educational needs. Presentations recorded at CIRSE 2017 will be integrated after the meeting. Access to all content is free for CIRSE members and a one-year subscription can be bought for $\in 90$. Just log in using your myCIRSE registration data.

European Trainee Forum Pavilion

The ETF Pavilion is a part of the exhibition area dedicated solely to IR trainees and young IRs. It will host short talks on grants and European mobility, IR training opportunities in the USA and practical advice on the EBIR exam. IR trainees and CIRSE Junior Members are also welcome to hang out, chat with the ETF team about your experience in becoming an IR and tell us what CIRSE can do to help make IR training around Europe better.

Evaluation

To complete the session evaluation and obtain credits for your attendance at CIRSE and IDEAS 2017 sessions, please use the online evaluation system, accessible through the CIRSE mobile app (please see page 14) and at eval.ctimeeting.com/cirse2017.



Hotels | Social Events | City Information

For information regarding hotels, transfers, restaurants and excursions, please ask our official travel partner, Kuoni, whose information desk is located in the entrance hall of the congress centre. Kuoni will be pleased to help you with all matters relating to your stay in Copenhagen.

Opening Hours

Friday, September 15	16:00-18:00
Saturday, September 16	07:00-18:00
Sunday, September 17	07:30-18:00
Monday, September 18	07:30-18:00
Tuesday, September 19	08:00-18:00
Wednesday, September 20	08:00-11:00

Internet/Wifi

A free wireless service is available to all delegates throughout the congress centre.

Network: CIRSE 2017 Password: Copenhagen17

Live and On Demand - live.cirse.org

All sessions are being livestreamed and are available directly on demand. This means your colleagues who could not attend can watch the lectures at the same time! If you miss a session, just visit the on demand area.

Members' Lounge

All members are invited to relax and enjoy a snack in the Members' Lounge which is located in the exhibition hall.

Mobile Phones

Please do not forget to turn your mobile phone to silent mode during the sessions.



Photographs and Video Recording

Please note that any form of recording, filming or photographing of presentation material during the session is strictly forbidden. Subject to the authors' consent, all presentation material will be made available online on CIRSE's educational platform ESIRonline (www.esir.org).

Poster Areas

All accepted scientific and educational posters as well as case reports will be presented electronically through CIRSE's Electronic Poster Online System. For a detailed list of all posters, please refer to pages 114-192.

The two Poster Areas are located in the exhibition hall of the congress centre (please see the floorplan on page 309). 32 computers will be available to view the CIRSE 2017 posters.

Opening Hours

Saturday, September 16	07:30-18:30
Sunday, September 17	07:30-18:30
Monday, September 18	07:30-18:30
Tuesday, September 19	07:30-18:30

Onsite staff will be glad to assist you during these hours.

Publication in CVIR

Meeting abstracts are published by Springer in an electronic supplementary issue of the official CIRSE journal CVIR and are therefore citable publications (Online Publication Number: 10.1007/s00270-017-1725-y).

We strongly encourage submission of the complete manuscript of any oral or poster presentation for publication in the journal, preferably in an electronic version through the CVIR submission website www.editorialmanager.com/cvir. Please note that submissions have to comply with the "Guidelines for Authors" specified on the CVIR submission website.

Radiation Protection Pavilion

The Radiation Protection Pavilion (RPP) is CIRSE's interactive awareness campaign for radiation protection and dose management and is located in the exhibition hall. The RPP offers several short talks on radiation safety and take-home information material. Make sure to visit the Pavilion and learn more about how to best protect yourself, your patients and your team. Please find a detailed description of the initiative and its sponsors on pages 290-297. For more information visit www.cirse.org/rpp.

Registration Desk - Opening Hours

Friday, September 15	16:00-18:00
Saturday, September 16	07:00-18:00
Sunday, September 17	07:30-18:00
Monday, September 18	07:30-18:00
Tuesday, September 19	08:00-18:00
Wednesday, September 20	08:00-11:00

Smoking

The CIRSE Annual Meeting is a non-smoking congress. Smoking is permitted outside the congress centre only.

Speaker Centre

The Speaker Centre is located on the entrance level of the congress centre. All material must be in English and provided on a CD-ROM, DVD-ROM or USB flash drive (which is preferred) to be placed on the central server onsite. All presentation files must be uploaded at least 3 hours prior to the beginning of the corresponding session.

Computers connected to the central server allowing access to the speakers' presentations are available in every lecture room. These computers are equipped with Microsoft Windows 7 Professional and Microsoft Office 2013 Professional. Please note that speakers are not allowed to use their own laptops for their presentations.

Opening Hours

16:00-18:30
07:30-18:30
07:30-18:30
07:30-18:30
07:30-18:30
07:30-12:00

Students' Lounge

Located above the entrance hall of the congress centre, the Students' Lounge is open for all participants of the CIRSE 2017 Student Programme. Students can meet, have lunch and find out more about interventional radiology and CIRSE in a relaxed and comfortable environment. The Students' Lounge will also be the location of the Mentoring Breakfast and the Students' Quiz.



Technical Exhibition

The CIRSE Technical Exhibition is located on the entrance level. Please find a floor plan of the exhibition on pages 308-309 and a detailed list of all exhibitors on pages 248-289.

Opening Hours

Saturday, September 16	09:00-18:00
Sunday, September 17	09:00-18:00
Monday, September 18	09:00-18:00
Tuesday, September 19	09:00-18:00

Transportation in Copenhagen

Public transportation

Reliable and punctual, Copenhagen's driverless public transportation system is one of the best in the world. With a City Pass, all trains, metro and buses (including waterbuses) can be accessed with the same ticket, including travel from the airport.

CIRSE is also offering delegates a 70% discount on public transportation through the Copenhagen Travel Pass! A Travel Pass will provide unlimited use of the public transport during your stay in the city. You can find more information about this offer and purchase tickets by visiting www.cirse.org/travelpass.

You can also find directions and plan your trip around the city at www.journeyplanner.dk.

Copenhagen is also one of the most bicycle-friendly cities in the world, boasting 400 kilometres of cycle lanes not shared with cars or pedestrians, so if you are up for a spin, rent a City Bike, Bycyklen, to get around the city! Learn more at www.bycyklen.dk.

Taxis

Taxis are available outside of the congress centre and will take approximately 15-20 minutes to reach the city centre of Copenhagen for $\leq 30-\leq 35$.

CIRSE 2017

LIVE AND ON DEMAND



live.cirse.org

Can't make it to the congress?

You can watch all sessions in HD quality via our livestream!

Can't decide which session to go to?

Pick one and watch the other presentations in our On Demand area!

Can't get enough interventional updates?

Visit ESIRonline, our congress presentation platform at **www.esir.org** to view presentations from past congresses!

Session Types 21

CIRSE Session Types

Amazing Interventions

During this session, acclaimed experts in interventional radiology will talk about their most unusual and challenging procedures. The emphasis will be to highlight innovative ways in which interventional radiologists can solve difficult problems and overcome tough situations. The session aims to be both educational and entertaining.

CIRSE meets...

The "CIRSE meets..." programme has proved to be an important platform for establishing and strengthening the relations between CIRSE and other societies in the field of interventional and vascular therapy. At CIRSE 2017, CIRSE's guest will be the European Wound Management Association (EWMA).

IR Trainee Sessions

The IR Trainee Sessions at CIRSE are aimed specifically at trainees, residents and young IRs, and cover basic IR topics as well as practical issues relating to the beginning of a career in interventional radiology. These sessions will also address future IR technologies and challenges the next generation of IR may face. Organised by the CIRSE European Trainee Forum (ETF), the IR Trainee Sessions are also an opportunity to meet peers and establish relationships with other young IRs across Europe.

Expert Case Discussions

The Expert Case Discussions are divided into several topics. This format is designed to provide a platform for experts with different skills and views, who can each present their unique approach. Interesting cases, where different treatment options seem possible, will be presented, followed by a lively discussion involving the speakers and the audience. These interactive sessions provide an excellent learning experience on how to approach and work through difficult cases.

Expert Round Tables

The Expert Round Table sessions address important aspects of interventional radiology in an informal setting. Key opinion leaders will outline their views and preferred therapy options regarding select "hot topics", and then engage in lively discussions with both their fellow speakers and the audience.

Film Interpretation Quiz

The Film Interpretation Quiz is one of CIRSE's most popular sessions, run as a "last man standing" quiz. The Quiz Masters will present the audience with three possible answers to each case – those choosing incorrectly will be eliminated and must sit down, while those who get the answer right will continue to the next case. The last few contestants left standing will be invited onstage for a head-to-head finale. Those eliminated at the very beginning will get a second chance to put their skills to the test.

Free Paper Sessions

Researchers will present original papers on new and innovative aspects of cardiovascular and interventional radiology. Selected papers will be gathered into sessions, each dealing with the same topic. There will be time for discussion between researchers and attendees after each presentation.

Featured Papers

In order to achieve a more interactive format in the Free Paper Sessions, one paper per session will be highlighted. More time will be dedicated to this featured paper by means of further questions prepared prior to the meeting by the moderator. This will ensure a more structured and thorough discussion of the topic.

Super Tuesday

This exclusive Free Paper slot will showcase high-class research and up-to-the-minute trial results which all interventional radiologists should be aware of.

Fundamental Courses

Fundamental Courses cover a specific area of interventional radiology, focusing on basic principles and illustrating the procedure in a step-by-step fashion. They are designed for radiologists-in-training and new consultants, as well as for experienced consultants who require a refresher course on the subject. There will be plenty of time for questions and discussion. Each session will last one hour.

Hands-on Device Training

The Hands-on Device Training (HDT) sessions provide an overview of the different devices and techniques available for specific topics. Following a kick-off presentation by the HDT coordinators, participants will have the opportunity to learn about the specifics, as well as the safe and effective use of the available technology in a hands-on setting. Each HDT will feature a round-table discussion with the coordinators at the end of each session, allowing participants time to ask questions and give feedback.

Hot Topic Symposia

The Hot Topic Symposia address controversial IR topics in the setting of a plenary session. Invited speakers will give brief lectures on important aspects of the subject under discussion. A major feature of these sessions will be a round-table discussion involving the speakers and the audience.

Lecture Sessions

Lecture Sessions feature targeted presentations addressing diverse issues in minimally invasive aortic aneurysm repair. Each session concludes with a lively debate of the particular topic's most controversial aspects.



Session Types 23

Morbidity & Mortality Conference

The Morbidity and Mortality Conference will analyse interventional radiology cases which led to complications and/or deaths that could have been avoided. This session provides a valuable learning experience for everyone involved in interventional radiology. The session will be dedicated to vascular and non-vascular cases.

News on Stage

The aim of this session format is to allow physicians to showcase their research in an informal and open atmosphere. Selected posters and their presenting authors will take centre stage in these sessions. The presentations will be displayed in a dedicated open area next to the exhibition, giving delegates the opportunity to engage in active, lively discussions.

Satellite Symposia

Satellite Symposia are organised by companies and take place at lunchtime as well as in the morning and in the evening. During these sessions, cutting-edge information on interventional equipment and techniques is provided.

Simulation Training

This popular series of training sessions comprises a one-hour round-table discussion with experts in the field delivering key knowledge and practical tips, followed by one hour of hands-on experience using high-fidelity simulators.

Special Sessions

Special Sessions are designed to impart the latest knowledge on topics of interest to interventional specialists. These sessions are the backbone of the CIRSE meeting and are specifically chosen by the programme planning committee because of their importance in daily practice.

Workshops

Workshops provide you with the chance to learn from your colleagues' expertise in an informal, interactive manner. Each designated workshop will entail individual cases and discussion points with regard to the particular interventional topic. Attendees can contribute their opinions and ask questions in small groups.

Film Interpretation Quiz

Monday, September 18 14:30-15:15 Auditorium 1

Coordinators: X. Buy (Bordeaux/FR), I.J. McCafferty (Birmingham/UK)

The Film Interpretation Quiz is one of CIRSE's most popular sessions and will be run as a "last man standing" quiz.

The Quiz Master will present the audience with three possible answers to each case – those choosing incorrectly will be eliminated and must sit down, while those who get the answer right will continue to the next case. The last few contestants left standing will be invited onstage for a head-to-head finale. Those eliminated at the very beginning will get a second chance to put their skills to the test.

Be part of this year's most interactive session and win free registration to CIRSE 2018 in Lisbon!







CIRSE Opening and Awards Ceremony

Saturday, September 16 14:30-16:00 Auditorium 1

Welcome Addresses

CVIR Editor's Medal Award: Francisco C. Carnevale (São Paulo/BR)

The Award of Excellence and Innovation in IR (R.W. Günther Foundation Award):

- Hans Henkes (Stuttgart/DE)
- The MR CLEAN Trialists, represented by Willem H. van Zwam (Maastricht/NL)

Keynote lecture: Cure, care and coordination

S. Beloucif (Paris/FR)

Distinguished Fellow: Y. Arai (Tokyo/JP)

Laudation: T. de Baère (Villejuif/FR)

Distinguished Fellow: M. Bezzi (Rome/IT)

Laudation: F. Fanelli (Florence/IT)

Distinguished Fellow: E.-P.K. Strecker (Pforzheim/DE)

Laudation: P. Reimer (Karlsruhe/DE)

Gold Medal: D. Vorwerk (Ingolstadt/DE)

Laudation: J. Lammer (Vienna/AT)

Join us for this year's Opening Ceremony!
All delegates including exhibitors are cordially invited.

News on Stage

News on Stage will feature displays on the latest results from multi-centric trials, ground-breaking techniques and many more IR hot topics, shown in a dedicated open area next to the exhibition. Large-screen presentations given by the authors during dedicated slots around lunch time will give delegates the opportunity to hear from the experts personally and engage with them and other key opinion leaders in active, lively discussions.

Saturday, September 16, 13:15-14:15, News on Stage Area

NoS 404 Vascular News on Stage

- 404.1 Accelerated thrombolysis for post-thrombotic syndrome using the acoustic pulse thrombolysis EkoSonic® Endovascular system (ACCESS PTS) study: initial results of a multi-centeric study M.J. Garcia¹, M.R. Jaff², S. Kahn³, K.M. Sterling⁴, A. Comerota⁵, K. Ouriel⁶; ¹Wilmington, DE/US, ²Boston, MA/US, ³Montreal, QC/CA, ⁴Alexandria, VA/US, ⁵Toledo, OH/US, ⁶New York, NY/US
- 404.3 Randomized clinical trial to compare ultrasound-enhanced delivery of paclitaxel and DEB in patients with critical limb ischemia and femoralpopliteal disease: outcome of the PACUS trial after 18 months R. Gandini¹, C. Del Giudice²; ¹Rome/IT, ²Paris/FR
- 404.4 Multicenter feasibility study of microwave radiometry thermometry for noninvasive differential diagnosis of critical limb ischemia in diabetic patients S. Spiliopoulos¹, C. Lalenis¹, L. Reppas¹, K. Palialexis¹, C. Konstantos¹,
 - K.N. Katsanos², P.M. Kitrou², V. Theodosiadou², P. Davlouros², E. Siores³, D. Karnabatidis², E. Brountzos¹; ¹Athens/GR, ²Patras/GR, ³Bolton/UK
- 404.5 Supervised exercise therapy versus percutaneous angioplasty versus combined angioplasty and exercise for intermittent claudication: systematic review and Bayesian network meta-analysis of randomized controlled trials
 - M. Pantelidou[†], K.N. Katsanos², R. Brar[†], S. Patel[†], A. Diamantopoulos[†], H. Zayed[†]; [†]London/UK, ²Patras/GR
- 404.6 Peripheral endovascular interventions using human Thiel-embalmed cadavers with extracorporeal flow for medical device testing, development, and training <u>H.M. McLeod;</u> Dundee/UK



News on Stage 27

Sunday, September 17, 13:15-14:15, News on Stage Area

NoS 1204 Embolisation News on Stage

- 1204.1 Sublingual glyeryl trinitrate improves prostate artery visibility on CTA performed preoperatively for prostate artery embolization

 <u>A. Macdonald</u>, M.W. Little, P. Boardman, C.R. Tapping; Oxford/UK
- 1204.2 Are formal urodynamic studies an essential investigation prior to prostate artery embolisation (PAE)?
 <u>D. Maclean</u>, B. Maher, T. Drake, J. Dyer, M.R. Harris, S. Modi, T.J. Bryant, N. Hacking; Southampton/UK
- 1204.3 A common woodchuck (Marmota monax) as a model for hepatic embolization
 - D.L. Woods, <u>W. Pritchard</u>, S.A. Leonard, J. Esparza, I. Bakhutashvili, A. Mikhail, E. Levy, V. Krishnasamy, J. Karanian, B.J. Wood; Bethesda, MD/US
- 1204.4 Embolization of the geniculate arteries is a safe and effective treatment for recurrent hemarthrosis following TKA

 <u>L.J. van Baardewijk</u>, Y. Hoogeveen, I. van der Geest, L.J. Schultze Kool;
 Nijmegen/NL
- 1204.5 CT liver perfusion for hepatocellular carcinoma nodule detection and follow-up after trans-arterial chemoembolization and comparison with hepato-specific contrast MRI: work in progress

 A. Hatzidakis, K. Perisinakis, E. Chryssou, G. Kalarakis, E. Savva,
 A. Karantanas: Iraklion/GR
- 1204.6 When the prostatic artery does not originate from hypogastric branches, what to do for attaining good results in prostatic artery embolization? A.G. Rampoldi[†], F. Barbosa[†], C. Migliorisi[†], M. Solcia[†], R. Vercelli[†], P. Brambillasca[†], S. Secco[†], A. Galfano[†], V.C.D.P. Rodrigues[‡], A. Assis[‡], A.M. Moreira[‡], A. Bocciardi[†], F.C. Carnevale[‡]; [†]Milan/IT, [‡]São Paulo/BR

Monday, September 18, 13:15-14:15, News on Stage Area

NoS 2005 Scientific News on Stage

- 2005.1 Does chronic outward force of nitinol stents in SFA trigger restenosis? Interim report of the BIOFLEX-COF study

 M.A. Funovics; Vienna/AT
- 2005.2 Two-year results from the IN.PACT global studies and outcomes in patients with diabetes
 <u>M. Brodmann¹, G. Ansel², T. Zeller³, A. Micari⁴, P. Peeters⁵, G. Tepe⁵; ¹Graz/AT, ²Columbus, OH/US, ³Bad Krozingen/DE, ⁴Cotignola/IT, ⁵Bonheiden/BE, ⁵Rosenheim/DE</u>
- 2005.3 Outcomes following subintimal recanalization of chronic total occlusions: a subset analysis of the IN.PACT global CTO imaging cohort <u>G. Tepe</u>¹, T. Zeller², M. Brodmann³, A. Micari⁴, P. Peeters⁵, G. Ansel⁶;
 ¹Rosenheim/DE, ²Bad Krozingen/DE, ³Graz/AT, ⁴Cotignola/IT, ⁵Bonheiden/BE, 6Columbus, OH/US
- 2005.4 Stellarex drug coated balloon: science insights and evidence updates *P. Krishnan*; *New York, NY/US*
- 2005.5 Radioembolization practices in Europe in 2017 a survey among CIRSE members
 <u>M.L. Smits</u>, E. Mees, M.T.M. Reinders, R.C.G. Bruijnen, M.G.E.H. Lam;
 Utrecht/NI
- 2005.6 The Lutonix AV trial: Interim 18 month results of a randomized trial of drug coated balloons in hemodialysis arteriovenous fistulae S.O. Trerotola, for the investigators of the Lutonix AV clinical trial; Philadelphia, PA/US



News on Stage 29

Tuesday, September 19, 13:15-14:15, News on Stage Area NoS 2804 Interventional Oncology News on Stage

- 2804.1 Proof of concept of a gene-directed enzyme prodrug therapy with intraarterial delivery of mesenchymal stem cells in a rabbit VX2 hepatic tumor model
 - O. Pellerin, I. Amara, P. Beaune, I. de Waziers, C. Déan, M.R. Sapoval; Paris/FR
- 2804.2 Idarubicin-loaded DC Bead® for chemoembolization of HCC: interim analysis of IDASPHERE II (FFCD 1307) multicenter single-arm phase II trial B. Guiu¹, P. Chevallier², P. Merle³, M.-A. Pierredon Foulongne¹, A. Rode³, A. Bouvier⁴, O. Guillaud³, P.-J. Valette⁵, J. Dumortier³, J.-P. Joly⁶, E. Nguyen Khac⁶, T. Yzet⁶, M. Lartournerie², J.-C. Barbare⁶, M. Boulinˀ, S. Manfrediˀ; ¹Montpellier/FR, ²Nice/FR, ³Lyon/FR, ⁴Angers/FR, ⁵Pierre Benite/FR, ⁶Amiens/FR, ¹Dijon/FR
- 2804.3 Prospective clinical and pharmacological evaluation of the Delcath System's second generation (GEN2) hemofiltration system in patients undergoing percutaneous hepatic perfusion with melphalan I.S. Meijer, E.M. De Leede, M.C. Burgmans, C.H. Martini, F.G.J. Tyl, J. Vuyk, A.R. van Erkel, C.J.H. van der Velde, E. Kapiteiin, A.L. Vahrmeijer; Leiden/NL
- 2804.4 Chemoembolization adopting polyethylene glycol drug-eluting embolics loaded with doxorubicin for the treatment of hepatocellular carcinoma
 - C. Aliberti¹, R. Carandina¹, D. Sarti², E. Pizzirani¹, G. Ramondo¹, L. Mulazzani², G. Fiorentini²; ¹Padova/IT, ²Pesaro/IT
- 2804.5 Pharmacokinetic profile of irinotecan in patients with liver metastases from colorectal cancer treated with unilobar or bilobar drug-eluting microsphere chemoembolization

 <u>G. Maleux</u>¹, H. Prenen¹, T.K. Helmberger², U. Martens³, P.L. Pereira³;

 ¹Leuven/BE, ²Munich/DE, ³Heilbronn/DE
- 2804.6 Transarterial chemoembolization of hepatocellular carcinoma with 100±25-μm and 200±25-μm Lifepearl microspheres: short-term follow-up and safety profile

 <u>R. Argirò'</u>, C. Cirelli', M. Corona', P. Lucatelli², F. Fanelli', C. Catalano',
 M. Bezzi'; 'Rome/IT, 'Siena/IT

Come and meet authors of top-rated posters in an informal and open setting, join in lively debates and ask questions.

Super Tuesday

Free Paper sessions feature the presentation of original papers on new and impactful aspects of cardiovascular and interventional radiology.

Again this year, an exclusive Free Paper slot called **Super Tuesday** will take place, showcasing high-class research and up-to-the-minute trial results which all interventional radiologists should be aware of. The goal of this session is to make real science more popular and increase the importance of the scientific work in IR.

Tuesday, September 19, 16:15-17:15, Auditorium 11 FP 3006 Super Tuesday

Moderators: C.A. Binkert (Winterthur/CH), F. Fanelli (Florence/IT)

- 3006.1 Bariatric embolization of arteries for treatment of obesity (BEAT obesity): mid-to-long-term safety and efficacy data <u>C.R. Weiss</u>¹, J. Vairavamurthy¹, O. Akinwande², L. Cheskin¹, B. Holly¹, K. Hong¹, A. Fischman³, R. Patel³, F. Nwoke¹, E.J. Shin¹, H. Ziessman¹, T. Moran¹, D.L. Kraitchman¹, A. Arepally⁴; ¹Baltimore, MD/US, ²St. Louis, MO/US, ³New York, NY/US, ⁴Atlanta, GA/US
- 3006.2 Efficacy and safety of PAE: results from the UK-ROPE registry N. Hacking¹, A.F. Ray²; 'Southampton/UK, 'Cardiff/UK



- 3006.3 Four-year results of the IN. PACT SFA trial comparing a drugcoated balloon catheter with an uncoated balloon catheter in femoropopliteal lesions
 - P. Krishnan; New York, NY/US
- 3006.4 BATTLE trial: 6-month outcomes in a multi-center randomized trial comparing MISAGO with ZILVER PTX for the treatment of intermediate length femoropopliteal lesions

 Y. Gouëffic; Nantes/FR
- 3006.5 Safety and performance of the Shockwave Medical Lithoplasty® System in treating calcified, stenotic, infrapopliteal arteries

 T.J. Brinton¹, A. Holden², U. Illindala³, T. Zeller⁴, M. Brodmann⁵; ¹Stanford, CA/

 US, ²Auckland/NZ, ³Fremont, CA/US, ⁴Bad Krozingen/DE, ⁵Graz/AT
- 3006.6 Randomized, prospective comparison of radial versus femoral access in transarterial liver embolization: BEST liver access trial

 M. Guimaraes. J.C. Camacho. R. Yamada: Charleston. SC/US

This session is geared towards everyone, IRs young and old, and is not to be missed!



Women in IR 31

Women in IR

The number of women in medicine is increasing and in the UK, women are expected to be the majority of practising physicians in 2017. Although approximately 32% of radiologists are women, only 10% of IRs are women.

Several surgical specialties have managed to increase the proportion of women in their training programmes, e.g. in 2014 in the US, vascular surgery had >30% female residents whilst IR and interventional cardiology had <10%.

A concerted effort must be made to identify the barriers to women entering IR and to identify changes to attract women and ensure the continued growth of our specialty.

CIRSE 2017 will offer a session discussing the 'IR gender gap' with the following aims:

- 1. Promoting women in IR
- 2. Understanding reasons for lack of women in IR
- 3. Identifying solutions to help women in IR

Saturday, September 16, 11:30-12:30, Auditorium 3

Women in IR

WIR 305 The IR gender gap

Moderator: A.-M. Belli (London/UK)

- 305.1 Facts and figures F:M ratios
 - A.-M. Belli (London/UK)
- 305.2 Perceptions and misconceptions of IR: the IR trainee perspective *C. Gonzalez-Junyent (Barcelona/ES)*
- 305.3 Perceptions and misconceptions of IR: the IR consultant perspective *T.M. Wah (Leeds/UK)*
- 305.4 Radiation facts and fiction
 W. Jaschke (Innsbruck/AT), Co-author: A. Trianni (Udine/IT)
- 305.5 Barriers for women in IR

 M. Szczerbo-Trojanowska (Lublin/PL)

Round table

Panellists: C. Gonzalez-Junyent (Barcelona/ES), W. Jaschke (Innsbruck/AT), M.P. Kohi (San Francisco, CA/US), M. Szczerbo-Trojanowska (Lublin/PL), O.M. van Delden (Amsterdam/NL), T.M. Wah (Leeds/UK)

Summing up and action points A.-M. Belli (London/UK)

Successful Strategies for Interventional Radiology Practice

The importance of clinical knowledge and entrepreneurial thinking for the future of IR is increasingly being recognised. In order to account for this, a workshop called **Successful Strategies for Interventional Radiology Practice** is being offered at CIRSE 2017 which will provide practical insights and solutions from a variety of case studies.

The sessions are geared towards current and future radiology department heads and IR unit leaders and will be split into four learning modules, where a diverse faculty will cover topics such as building clinical business, clinical services, marketing and infrastructure in IR departments.

Pre-registration is advised as there is a limit on the number of participants. If you have not yet registered for workshops on www.cirse.org, you can sign up at the registration counters in the entry hall. On the day of the corresponding session, interested parties can enquire about last-minute vacancies at the front desk of the session room half an hour before it starts.

All sessions are free of charge and will take place in Room 20 on Monday, September 18.

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STRAT 1806 Building clinical business

Moderator: C.A. Binkert (Winterthur/CH)

1806.1 Core business planning

M. Noesberger (Solothurn/CH)

1806.2 Business model of IR at Miami Cardiac & Vascular Institute B.T. Katzen (Miami. FL/US)

1806.3 Business model at Istituto Europeo di Oncologia in Milano F. Orsi (Milan/IT)

1806.4 Panel discussion

10:45-11:30

STRAT 1807 Clinical services

Moderator: C.A. Binkert (Winterthur/CH)

1807.1 Standard requirements for clinical services

O.M. van Delden (Amsterdam/NL)

1807.2 Stand-alone

R.A. Baum (Boston, MA/US)

1807.3 Multidisciplinary

F. Orsi (Milan/IT)

1807.4 Combined

C.A. Binkert (Winterthur/CH)

1807.5 Panel discussion

12:30-13:15 STRAT 1905 Marketing

Moderator: C.A. Binkert (Winterthur/CH)

1905.1 Effective communication and the use of (social) media

L. Zenk (Vienna/AT)

1905.2 To the patient

R.A. Baum (Boston, MA/US)

1905.3 To the referrers

A. Gangi (Strasbourg/FR)

1905.4 Panel discussion

13:15-14:00

STRAT 1906 Infrastructures

Moderator: C.A. Binkert (Winterthur/CH)

1906.1 Architecture and its impact to the patient pathway

I. Degen (Zurich/CH)

1906.2 Example from Strasbourg

A. Gangi (Strasbourg/FR)

1906.3 Example from Miami

B.T. Katzen (Miami, FL/US)

1906.4 Example from Winterthur

C.A. Binkert (Winterthur/CH)

1906.5 Panel discussion

For further information on the sessions, please visit www.cirse.org or scan the QR Code below.



Hands-on Device Training

The Hands-on Device Training (HDT) sessions aim to provide an overview of the different devices and techniques available for specific topics as well as to allow hands-on experience for the participants.

After a short kick-off presentation by the HDT coordinators, participants will have the opportunity to learn about the specifics as well as safe and effective use of the available technology in an interactive setting.

Each HDT will feature a round-table discussion with the coordinators at the end of each session, allowing participants to ask questions and provide feedback.

Pre-registration is required for all Hands-on Device Training sessions (at no extra cost). Should you not have registered yet but are interested in participating, you can enquire about last-minute vacancies at the front desk of the respective HDT room half an hour before it starts.

All Hands-on Device Training sessions will be linked to a workshop in the regular lecture programme, allowing delegates to familiarise themselves with the theoretical information and scientific aspects of a specific topic. Corresponding sessions are mentioned on the following pages below each HDT.

A closer look at closure devices

Closure devices are increasingly becoming a key element in all our vascular procedures. Positive results combined with a high rate of safety have contributed to their success. However, knowledge of the different systems available on the market is necessary to achieve even better results.

This Hands-on Device Training aims to provide an overview of the vascular closure devices currently available.

Saturday, September 16

CD-HDT 1 09:30-11:00 **CD-HDT 2** 12:30-14:00

Coordinators: S. Anthony (Oxford/UK), J.P. Schaefer (Kiel/DE)

Location

HDT Room 3

Corresponding workshop:

Saturday, September 16 WS 701: Closure devices

Central lines and ports

Central lines and ports are continually more and more important in the daily activities of interventional radiologists. Thanks to imaging and interventional capabilities, IRs are able to position these catheters in complex situations that other specialists cannot resolve.

This Hands-on Device Training will provide an overview of available devices.

Saturday, September 16

CLP-HDT 1 09:30-11:00 CLP-HDT 2 12:30-14:00

Coordinators: T.F. Jakobs (Munich/DE), R. Kasthuri (Glasgow/UK)

Location

HDT Room 1

Corresponding workshop:

Saturday, September 16

WS 602: Central venous access

Embolisation: materials and tools

Embolisation is an important part of an IR's work – however, it is essential to thoroughly understand how to perform this technique in order to avoid complications. Having substantial knowledge of available material is absolutely necessary when selecting the most suitable device for any occasion.

This Hands-on Device Training aims to provide an overview of the various embolic materials available and different delivery techniques. Separate sessions will look at "coils and plugs", "liquid agents" and "particulate agents" to ensure participants are familiar with common embolic agents.

Sunday, September 17

EMT-HDT 1: Coils & plugs	09:30-11:00
EMT-HDT 2: Coils & plugs	12:30-14:00

Coordinators: J.V. Patel (Leeds/UK), V. Pedicini (Milan/IT)

Monday, September 18

EMT-HDT 3: Liquid agents	09:30-11:00
EMT-HDT 4: Liquid agents	12:30-14:00

Coordinators: I.J. McCafferty (Birmingham/UK), J. Urbano (Madrid/ES)

Tuesday, September 19

EMT-HDT 5: Particulate agents	09:30-11:00
EMT-HDT 6: Particulate agents	12:30-14:00

Coordinators: T.J. Kroencke (Augsburg/DE), A.G. Rampoldi (Milan/IT)

Location

HDT Room 1

Corresponding workshop:

Saturday, September 16

WS 704: Embolisation: materials and tools 17:30-18:30, Auditorium 2

Peripheral mechanical thrombectomy

Treatments of patients with acute occlusions of the arterial or venous bed are becoming a more and more frequent occurrence. As technology has steadily developed, several systems have become available to help restore the vessel patency in a quick, safe and efficient way.

This Hands-on Device Training aims to provide an overview of the different devices which are currently being used for the treatment of peripheral occlusive disease, including acute and chronic limb ischaemia.

Saturday, September 16

PMT-HDT 1 09:30-11:00 **PMT-HDT 2** 12:30-14:00

Coordinators: T. Jahnke (Neumünster/DE), D.K. Tsetis (Iraklion/GR)

Location

HDT Room 2

Corresponding workshop:

Saturday, September 16

WS 601: Peripheral mechanical thrombectomy

16:15-17:15, Auditorium 2

Stroke thrombectomy

Stroke thrombectomy represents a new frontier for interventional radiologists. The number of patients suffering from this pathological condition is increasing, and, as a consequence, it is necessary for interventional radiologists to participate in these procedures. For this, it is essential to have abundant experience as well as excellent knowledge of anatomy and the techniques and materials to be used.

Participants of this Hands-on Device Training will have the chance to familiarise themselves with the most common thrombectomy devices.

Tuesday, September 19

ST-HDT 1 09:30-11:00 **ST-HDT 2** 12:30-14:00

Coordinators: K.A. Hausegger (Klagenfurt/AT), H. van Overhagen (The Hague/NL)

Location

HDT Room 2

Corresponding workshop:

Monday, September 18

WS 2202: Revascularistation in acute ischaemic stroke

16:15-17:15, Auditorium 2

Tumour ablation

Ablation plays a fundamental role in the minimally invasive treatment of cancer, and ablation technologies and equipment for live image guidance continue to develop quickly.

In order to stay up to date on these developments, this Hands-on Device Training will offer separate sessions to look at radiofrequency ablation, microwave ablation and alternative techniques, including cryoablation and image-guided technologies.

Sunday, September 17

TA-HDT 1: RFA 09:30-11:00 **TA-HDT 2: RFA** 12:30-14:00

Coordinators: M. Bezzi (Rome/IT), L. Hechelhammer (St. Gallen/CH)

Monday, September 18

TA-HDT 3: MWA 09:30-11:00 **TA-HDT 4: MWA** 12:30-14:00

Coordinators: L. Crocetti (Pisa/IT), J.L. del Cura Rodriguez (Bilbao/ES)

Tuesday, September 19

TA-HDT 5: Alternative techniques and image guidance 09:30-11:00 TA-HDT 6: Alternative techniques and image guidance 12:30-14:00

Coordinators: G. Tsoumakidou (Strasbourg/FR), P. Wiggermann (Regensburg/DE)

Location

HDT Room 3

Corresponding workshop:

Saturday, September 16

WS 603: Thyroid and kidney ablation 16:15-17:15, Auditorium 10 **WS 703: Liver ablation** 17:30-18:30, Auditorium 15

Sunday, September 17

 WS 1403: Bone ablation
 16:15-17:15, Auditorium 15

 WS 1503: Lung ablation
 17:30-18:30, Auditorium 10

Varicose veins

Initially considered a concern of cosmetic medicine, varicose veins have recently been catalogued as a real pathology which affects both women and men. Considering the increasing need for treatment, it is essential to understand the importance of such interventions and gain a thorough understanding of the methodology.

This Hands-on Device Training allows participants to compare the available devices for endovenous therapy.

Sunday, September 17

VV-HDT 1 09:30-11:00 **VV-HDT 2** 12:30-14:00

Coordinators: D. Greenstein (Harrow/UK), C. Lebard (Paris/FR)

Location

HDT Room 2

Corresponding workshop:

Saturday, September 16 WS 702: Varicose veins

17:30-18:30, Auditorium 10

Vertebral augmentation

Every day interventional radiologists are approached by patients to resolve their vertebral pathologies. In recent years, considerable technological progress has been made as a consequence of the extraordinary outcomes of minimally invasive techniques, which have helped countless patients to achieve pain relief and avoid many of the complications associated with open surgery.

In this Hands-on Device Training, vertebroplasty, kyphoplasty and balloon kyphoplasty will be discussed, and devices for each of these procedures will be presented and available for participants to practice with.

Monday, September 18

VA-HDT 1 09:30-11:00 **VA-HDT 2** 12:30-14:00

Coordinators: G.C. Anselmetti (Turin/IT), A.D. Kelekis (Athens/GR)

Location

HDT Room 2

Corresponding workshop:

Sunday, September 17

WS 1404: Vertebral augmentation

16:15-17:15, Auditorium 10

Simulation Training

Participants of the Simulation Training can follow live demonstrations of interventional techniques and practice certain procedures under the guidance of a technician and/or instructor.

Pre-registration is required for all Simulation Training sessions at an extra cost of € 75 per session. Should you not have registered yet but are interested in participating, you can still sign up at the registration counters in the entry hall. On the day of the corresponding session, interested parties can enquire about last-minute vacancies at the front desk of the Simulator Gallery half an hour before it starts.

Principles to practice: education and simulation skills training

This popular series of training sessions comprises a one-hour round-table discussion with experts in the field delivering key knowledge and practical tips, followed by one hour of hands-on experience using high-fidelity simulators.

Each session is aimed at delegates with a specific level of experience (core, intermediate or advanced), and the delivery of each session is adaptable to respond to the delegates' interests, with emphasis placed on small group teaching, allowing for close interaction with the expert faculty.

The round-table discussions are themed around learning objectives which relate to a specific clinical or procedural topic. Equipment and devices related to the specific topic will be available to demonstrate deployment techniques.

Coordinators: M. Midulla (Valenciennes/FR), J.C. van den Berg (Lugano/CH)

Saturday, September 16

08:30-13:00

PTP 1: The basics of chemoembolisation for the liver

Session Organiser: H. Kobeiter (Créteil/FR) Instructors: A. Denys (Lausanne/CH), A. Fohlen (Caen/FR), G. Maleux (Leuven/BE), L. Tselikas (Villejuif/FR)

 PTP 1.1 (group 1):
 08:30-09:30 discussion / 09:40-10:40 simulation

 PTP 1.2 (group 2):
 09:40-10:40 discussion / 10:50-11:50 simulation

 PTP 1.3 (group 3):
 10:50-11:50 discussion / 12:00-13:00 simulation

Learning objectives

- To understand the management of patients with primary and secondary tumours of the liver
- To understand the materials used for chemoembolisation of the liver and precautions to be taken with chemotherapeutic agents
- To understand the indications for chemoembolisation of the liver
- To understand how to improve outcomes and reduce complications in chemoembolisation of the liver
- To understand how, when and which type of new image guidance technology can be used during liver chemoembolisation

Sunday, September 17

08:30-13:00

PTP 2: Carotid stenting: the basics, current role and future perspectives

Session Organiser: J.A. Vos (Nieuwegein/NL)

Instructors: N. Kakani (Manchester/UK), T.H. Lo (Utrecht/NL), M. Taudorf (Copenhagen/DK), M. van Leersum (Nieuwegein/NL)

 PTP 2.1 (group 1):
 08:30-09:30 discussion / 09:40-10:40 simulation

 PTP 2.2 (group 2):
 09:40-10:40 discussion / 10:50-11:50 simulation

 PTP 2.3 (group 3):
 10:50-11:50 discussion / 12:00-13:00 simulation

Learning objectives

- To understand the management, assessment and imaging of patients with carotid artery stenosis
- To understand the results of randomised trials (comparing carotid artery stenting and carotid endarterectomy)
- To understand the indications for carotid artery stenting and its current role
- To understand how to improve outcomes in carotid artery stenting
- To perform a carotid artery stenting procedure on a simulator

Monday, September 18

08:30-13:00

PTP 3: The role of endovascular therapy in the treatment of diabetic foot

Session Organiser: S.D. Qanadli (Lausanne/CH)

Instructors: A. Choutier (Neuchâtel/CH), J. Kettenbach (St. Pölten/AT), L. Oguzkurt (Istanbul/TR), G. Puippe (Zurich/CH)

 PTP 3.1 (group 1):
 08:30-09:30 discussion / 09:40-10:40 simulation

 PTP 3.2 (group 2):
 09:40-10:40 discussion / 10:50-11:50 simulation

 PTP 3.3 (group 3):
 10:50-11:50 discussion / 12:00-13:00 simulation

Learning objectives

- To understand the principles behind the management of an ulcerated, ischaemic diabetic foot
- To understand relevant indications and strategies, and when to use unconventional access for endovascular treatment
- To become familiar with the equipment and pharmacotherapy currently used in BTK interventions
- To understand how to manage complications resulting from interventions

Tuesday, September 19

08:30-13:00

PTP 4: Improving outcomes in the femoropopliteal segment

Session Organiser: S. Müller-Hülsbeck (Flensburg/DE) Instructors: T. Jahnke (Neumünster/DE), L. Mailli (London/UK), L. Marques (Flensburg/DE), D. Tsetis (Iraklion/GR)

 PTP 4.1 (group 1):
 08:30-09:30 discussion / 09:40-10:40 simulation

 PTP 4.2 (group 2):
 09:40-10:40 discussion / 10:50-11:50 simulation

 PTP 4.3 (group 3):
 10:50-11:50 discussion / 12:00-13:00 simulation

Learning objectives

- To understand the management, assessment and imaging of patients with stenoocclusive disease of the femoropopliteal segment
- To understand the currently available management options (exercise, best medical therapy, plain balloon angioplasty, drug-coated balloon angioplasty, (drug-eluting) stenting, stent grafting, surgery)
- To learn about optimal patient selection for endovascular procedures, and choice of treatment modality
- To learn how to perform femoropopliteal balloon angioplasty and stenting on a simulator

Location

Simulator Gallery



Trainees, residents and young IRs at CIRSE 2017

Training to become an IR or at the start of your IR career? CIRSE 2017 will offer IR trainees, residents and young IRs a number of special events and sessions organised by CIRSE's European Trainee Forum. These exciting events are great opportunities to boost your career by expanding your network and gaining valuable insights into the interventional radiology profession:

IR Trainee Session: Future IR technologies Saturday, September 16, 17:30-18:30, Auditorium 11

Including talks on: Future technologies, interventional oncology and endovascular interventions as well as big data, Al and machine learning

IR Trainee Session: Building an IR career Tuesday, September 19, 8:30-9:30, Auditorium 12

Including talks on: Developing your academic career, publishing, the EBIR Exam as well as establishing private clinics and clinical entrepreneurship

ETF Pavilion & short talks

The ETF Pavilion will be a dedicated area where trainees, residents and young IRs can mingle, listen to short talks, establish contacts with leading IR professionals and build their professional network. Including talks on: Grants and European mobility, IR training and work opportunities in the USA and practical advice on the EBIR Exam.

This year will also feature an exciting new event: The ETF Quiz – your opportunity to win prizes with your knowledge of IR!

Make sure not to miss the ETF programme for trainees, residents and young IRs at CIRSE 2017!

Saturday, September 16

08:30-09:30, Auditorium 3

Special Session

SS 101 Therapy of in-stent stenosis

Moderators: P. Krishnan (New York, NY/US), T. Rand (Vienna/AT)

101.1 Relining of stents

M. Schoder (Vienna/AT)

101.2 Atherectomy

R. Uberoi (Oxford/UK)

101.3 Drug-coated balloon

G. Tepe (Rosenheim/DE)

101.4 Alternative treatments

J.C. van den Berg (Lugano/CH)

08:30-09:30, Auditorium 2

Fundamental Course

FC 102 Therapy of venous thrombo-embolic disease



Moderators: A. Buecker (Homburg/DE), M.J. Garcia (Wilmington, DE/US)

- 102.1 Acute pelvic thrombosis
 - A.H. Mahnken (Marburg/DE)
- 102.2 Chronic pelvic thrombosis
 - R. de Graaf (Maastricht/NL)
- 102.3 IR treatment in acute pulmonary embolism
 - P.M. Paprottka (Munich/DE)
- 102.4 IVC filters: current evidence
 - S.D. Qanadli (Lausanne/CH)

08:30-09:30, Auditorium 10

Special Session

SS 103 New tools for guiding and monitoring liver ablation

Moderators: H. Fujiwara (Tokyo/JP), L. Solbiati (Rozzano/IT)

103.1 Radiopaque beads: useful tool or gadget

E. Kim (New York, NY/US)

103.2 Elastography: entering reality?

L. Crocetti (Pisa/IT)

103.3 3D navigation: do we need it?

R. Bale (Innsbruck/AT)

103.4 Cone-beam CT: a revolution?

G. Carrafiello (Milan/IT)

08:30-09:30, Auditorium 15

Special Session

SS 104 Lower GI bleeding

Moderators: A. Martínez de la Cuesta (Pamplona/ES), S. Stojanovic (Novi Sad/RS)

104.1 Work-up and patient selection

A.R. van Erkel (Leiden/NL)

104.2 Technique and embolic agents

T. Rodt (Hannover/DE)

104.3 Outcomes of embolisation

L.B. Lönn (Copenhagen/DK)

104.4 Haemorrhoid embolisation

V. Vidal (Marseille/FR)



08:30-13:00, Simulator Gallery

Simulation Training

PTP 1 Principles to practice: education and simulation skills training – The basics of chemoembolisation for the liver

Coordinators: M. Midulla (Valenciennes/FR), J.C. van den Berg (Lugano/CH)

Session organiser: H. Kobeiter (Créteil/FR) Instructors: A. Denys (Lausanne/CH), A. Fohlen (Caen/FR), G. Maleux (Leuven/BE), L. Tselikas (Villejuif/FR)

PTP 1.1 (group 1):

08:30-09:30 discussion/ 09:40-10:40 simulation

PTP 1.2 (group 2):

09:40-10:40 discussion / 10:50-11:50 simulation

PTP 1.3 (group 3):

10:50-11:50 discussion / 12:00-13:00 simulation

09:30-11:00, HDT Room 3

Hands-on Device Training

CD-HDT 1 A closer look at closure devices

Coordinators: S. Anthony (Oxford/UK), J.P. Schaefer (Kiel/DE)

09:30-11:00, HDT Room 1

Hands-on Device Training

CLP-HDT 1 Central lines and ports

Coordinators: T.F. Jakobs (Munich/DE), R. Kasthuri (Glasgow/UK)

09:30-11:00, HDT Room 2

Hands-on Device Training

PMT-HDT 1 Peripheral mechanical thrombectomy

Coordinators: T. Jahnke (Neumünster/DE), D.K. Tsetis (Iraklion/GR)

10:00-11:00, Auditorium 1

Controversy Special Session

CSS 201 Controversies in endovascular therapy



Moderators: J. Lammer (Vienna/AT), D. Vorwerk (Ingolstadt/DE)

- 201.1 Drug-coated balloons (DCB) as an all-comers therapy: PRO G. Tepe (Rosenheim/DE)
- 201.2 Drug-coated balloons (DCB) as an all-comers therapy: CON J.A. Reekers (Amsterdam/NL)
- 201.3 Stent graft is the technique of choice for treatment of popliteal aneurysms: PRO
 T. Pfammatter (Zurich/CH)
- 201.4 Stent graft is the technique of choice for treatment of popliteal aneurysms: CON

 K. Deloose (Dendermonde/BE)
- 201.5 Catheter-directed thrombolysis or pharmaco-mechanical thrombectomy always for ilio-femoral DVT: PRO G.J. O'Sullivan (Galway/IE)
- 201.6 Catheter-directed thrombolysis or pharmaco-mechanical thrombectomy always for ilio-femoral DVT: CON

 R. de Graaf (Maastricht/NL)

10:00-11:00, Auditorium 2

Fundamental Course

FC 202 Therapy of variceal bleeding (TIPS and BRTO)



Moderators: J.I. Bilbao (Pamplona/ES), A. Krajina (Hradec Králové/CZ)

- 202.1 Indications for TIPS in variceal bleeding *M. Rössle (Freiburg/DE)*
- 202.2 Adjunctive embolotherapy of variceal bleeding in TIPS I.K. Tesdal (Friedrichshafen/DE)
- 202.3 Balloon-occluded retrograde transvenous obliteration for the management of gastric varices J. Koizumi (Kanagawa/JP)
- 202.4 TIPS versus BRTO for the management of gastric varices S. Sabri (Charlottesville, VA/US)



10:00-11:00, Auditorium 15

Special Session

SS 203 Therapies for HCC based on size criteria



Moderators: F. Orsi (Milan/IT), S.J. Park (Incheon/KR)

203.1 Surgical options and realistic need V. Mazzaferro (Milan/IT)

203.2 IO in small tumours

P.L. Pereira (Heilbronn/DE)

203.3 IO in intermediate sized tumours

R. Cioni (Pisa/IT)

203.4 IO in "early-advanced" tumours J.-F.H. Geschwind (New Haven, CT/US)

10:00-11:00, Auditorium 3

Special Session

SS 204 Uterine fibroid embolisation



Moderators: G.S. Goh (Melbourne, VIC/AU), J.-P. Pelage (Caen/FR)

204.1 Minimally invasive surgical alternatives

T.H. Hess (Winterthur/CH)

204.2 Comparison to HIFU M. Matzko (Dachau/DE)

204.3 Fertility

A.-M. Belli (London/UK)

204.4 Adenomyosis

T. Bilhim (Lisbon/PT)

11:30-12:30, Auditorium 10

Special Session

SS 301 Importance of R&D in IR

Moderators: K. Kandarpa (Bethesda, MD/US), P.L. Pereira (Heilbronn/DE)

301.1 From an idea to a product *T.W.I. Clark (Philadelphia, PA/US)*

- 301.2 Research data mandatory for guidelines *J.I. Bilbao (Pamplona/ES)*
- 301.3 New concepts beyond simple IR

 J.-F.H. Geschwind (New Haven, CT/US)
- 301.4 What NIBIB can offer to IR research K. Kandarpa (Bethesda, MD/US)

11:30-12:30, Auditorium 11

Special Session

SS 302 Varicose vein: time for IR

Moderators: F.G. Irani (Singpaore/SG), M.H. Öztürk (Trabzon/TR)

302.1 Setting up a varicose vein service *J.A. Brookes (London/UK)*

302.2 Clinical evaluation including Doppler ultrasound *M.L. Åkesson (Malmö/SE)*

- 302.3 Different techniques for truncal ablation *L. Oguzkurt (Istanbul/TR)*
- 302.4 Therapy for venous ulcers A. Jawien (Bydgoszcz/PL)

11:30-12:30, Auditorium 2

Expert Case Discussion

ECD 303 Challenging HCC cases

Coordinator: R. Lencioni (Miami, FL/US)

Panellists: R. Bale (Innsbruck/AT), B. Gonçalves (Porto/PT), K. Malagari (Athens/GR)





11:30-12:30, Auditorium 1

Expert Case Discussion

ECD 304 Visceral aneurysms

Coordinator: M.S. Hamady (London/UK)

Panellists: P.E. Andersen (Odense /DK), P. Donato (Coimbra/PT), M.A. Ruffino (Turin/IT)

11:30-12:30, Auditorium 3

Women in IR

WIR 305 The IR gender gap

Moderator: A.-M. Belli (London/UK)

- 305.1 Facts and figures F:M ratios A.-M. Belli (London/UK)
- 305.2 Perceptions and misconceptions of IR: the IR trainee perspective *C. Gonzalez-Junyent (Barcelona/ES)*
- 305.3 Perceptions and misconceptions of IR: the IR consultant perspective *T.M. Wah (Leeds/UK)*
- 305.4 Radiation facts and fiction W. Jaschke (Innsbruck/AT), Co-author: A. Trianni (Udine/IT)
- 305.5 Barriers for women in IR

 M. Szczerbo-Trojanowska (Lublin/PL)

Round table

Panellists: C. Gonzalez-Junyent (Barcelona/ES), W. Jaschke (Innsbruck/AT), M.P. Kohi (San Francisco, CA/US), M. Szczerbo-Trojanowska (Lublin/PL), O.M. van Delden (Amsterdam/NL), T.M. Wah (Leeds/UK)

Summing up and action points *A.-M. Belli (London/UK)*

12:30-14:00, HDT Room 3

Hands-on Device Training

CD-HDT 2 A closer look at closure devices

Coordinators: S. Anthony (Oxford/UK), J.P. Schaefer (Kiel/DE)

12:30-14:00. HDT Room 1

Hands-on Device Training

CLP-HDT 2 Central lines and ports

Coordinators: T.F. Jakobs (Munich/DE), R. Kasthuri (Glasgow/UK)

12:30-14:00, HDT Room 2

Hands-on Device Training

PMT-HDT 2 Peripheral mechanical thrombectomy

Coordinators: T. Jahnke (Neumünster/DE), D.K. Tsetis (Iraklion/GR)

13:00-14:00

Satellite Symposia

For the detailed programmes, please refer to pages 196-197.

13:15-14:15, News on Stage Area

News on Stage

NoS 404 Vascular News on Stage

- 404.1 Accelerated thrombolysis for post-thrombotic syndrome using the acoustic pulse thrombolysis EkoSonic® Endovascular system (ACCESS PTS) study: initial results of a multi-centeric study M.J. Garcia¹, M.R. Jaff², S. Kahn³, K.M. Sterling⁴, A. Comerota⁵, K. Ouriel⁶; ¹Wilmington, DE/US, ²Boston, MA/US, ³Montreal, QC/CA, ⁴Alexandria, VA/US, 5Toledo, OH/US, 6New York, NY/US
- 404.3 Randomized clinical trial to compare ultrasound-enhanced delivery of paclitaxel and DEB in patients with critical limb ischemia and femoralpopliteal disease: outcome of the PACUS trial after 18 months R. Gandini¹, C. Del Giudice²; ¹Rome/IT, ²Paris/FR
- 404.4 Multicenter feasibility study of microwave radiometry thermometry for noninvasive differential diagnosis of critical limb ischemia in diabetic patients
 - S. Spiliopoulos¹, C. Lalenis¹, L. Reppas¹, K. Palialexis¹, C. Konstantos¹, K.N. Katsanos², P.M. Kitrou², V. Theodosiadou², P. Davlouros², E. Siores³, D. Karnabatidis², E. Brountzos¹; ¹Athens/GR, ²Patras/GR, ³Bolton/UK



404.5 Supervised exercise therapy versus percutaneous angioplasty versus combined angioplasty and exercise for intermittent claudication: systematic review and Bayesian network meta-analysis of randomized controlled trials

M. Pantelidou¹, K.N. Katsanos², R. Brar¹, S. Patel¹, A. Diamantopoulos¹, H. Zayed¹; ¹London/UK, ²Patras/GR,

404.6 Peripheral endovascular interventions using human Thiel-embalmed cadavers with extracorporeal flow for medical device testing, development, and training

H.M. McLeod: Dundee/UK

14:30-16:00, Auditorium 1

OP 501 Opening and Awards Ceremony

Welcome Addresses

CVIR Editor's Medal Award: Francisco C. Carnevale (São Paulo/BR)

The Award of Excellence and Innovation in IR

(R.W. Günther Foundation Award):
Hans Henkes (Stuttgart/DE)

The MRCLEAN Trialists, represented by Willem H. van Zwam (Maastricht/NL)

Keynote lecture: Cure, care and coordination

S. Beloucif (Paris/FR)

Distinguished Fellow: Y. Arai (Tokyo/JP)

Laudation: T. de Baère (Villejuif/FR)

Distinguished Fellow: M. Bezzi (Rome/IT)

Laudation: F. Fanelli (Florence/IT)

Distinguished Fellow: E.-P.K. Strecker (Pforzheim/DE)

Laudation: P. Reimer (Karlsruhe/DE)

Gold Medal: D. Vorwerk (Ingolstadt/DE)

Laudation: J. Lammer (Vienna/AT)

16:15-17:15, Auditorium 2

Workshop

WS 601 Peripheral mechanical thrombectomy

601.1 M. Katoh (Krefeld/DE)

601.2 P. Lucatelli (Siena/IT)

16:15-17:15, Auditorium 3

Workshop

WS 602 Central venous access

602.1 S. Spiliopoulos (Patras/GR)

602.2 B. Gebauer (Berlin/DE)

16:15-17:15, Auditorium 10

Workshop

WS 603 Thyroid and kidney ablation

603.1 J.H. Baek (Seoul/KR)

603.2 G. Tsoumakidou (Strasbourg/FR)

16:15-17:15, Auditorium 15

Workshop

WS 604 Therapy for hypersplenism

604.1 V. Bérczi (Budapest/HU)

604.2 T. Tanaka (Kashihara/JP)

16:15-17:15, Room 18

Workshop

WS 605 Preparation for EBIR and the use of ESIRonline

605.1 O.M. van Delden (Amsterdam/NL)

605.2 S. Müller-Hülsbeck (Flensburg/DE)



16:15-17:15, Auditorium 11

Free Paper Session

FP 606 Prostate intervention

Moderators: F.C. Carnevale (São Paulo/BR), N. Hacking (Southampton/UK)



- 606.1 Prostatic artery embolization versus transurethral resection of the prostate in the treatment of benign prostatic hyperplasia: 6-month results of a clinical trial
 - <u>A. Sáez de Ocáriz García</u>, I. Insausti Gorbea, S. Solchaga Alvarez, R. Monreal Beortegui, P.J. Giral Villalta, S. Napal Lecumberri, F. Urtasun Grijalba; Pamplona/ES
- 606.2 Prostatic artery embolisation (PAE) for haematuria/haematospermia in the abscence of an upper urinary tract pathology

 <u>C.R. Tapping</u>, M.W. Little, A. Macdonald, P. Boardman; Oxford/UK
- 606.3 A simple and efficient classification of intra-prostatic arterial vascularization and its application in prostatic artery embolization (PAE) <u>G. Amouyal</u>, O. Pellerin, N. Thiounn, C. Del Giudice, M. Nouri Neuville, C. Déan, M.R. Sapoval; Paris/FR
- 606.4 Does prostate artery embolization (PAE) improve voiding symptoms, storage symptoms, or both?

 <u>D. Maclean</u>, B. Maher, T. Drake, J. Dyer, M.R. Harris, S. Modi, T.J. Bryant, N. Hacking; Southampton/UK
- 606.5 Adenomatous-dominant benign prostatic hyperplasia (AdBPH) as a predictor of clinical success following prostate artery embolization <u>M.W. Little</u>, A. Macdonald, P. Boardman, C.R. Tapping; Oxford/UK
- 606.6 The 6-month 7.5-year outcome of prostatic artery embolization in 1100 patients with benign hyperplasia

 J.M. Pisco¹, T. Bilhim¹, L.C. Pinheiro¹, L. Fernandes¹, N.V. Costa¹, A.G. Oliveira²;

 ¹Lisbon/PT, ²Caicó/BR

16:15-17:15. Room 19

Free Paper Session

FP 607 Imaging

Moderators: J.-M. Bartoli (Marseille/FR), R. Noronha Cavalcante (São Paulo/BR)



607.1 Comparison of imaging quality and adverse effects of hepatic arterial angiography: lopamidol 250 versus loversol 320 M.J. Gu, Y.H. Kim; Taequ/KR

- 607.2 Proof of concept: semi-automated alignment of EVAR surveillance radiographs, increasing sensitivity to device migration and distortion *I.N. Roy, Y. Zheng, G. Czanner, R. Williams, S.R. Vallabhaneni; Liverpool/UK*
- 607.3 Evaluation of PTA outcomes in patients with critical limb ischemia using the volumetric CT perfusion technique: preliminary results

 N. Galanakis, T.G. Maris, N. Kontopodis, E. Kehagias, C.V. Ioannou,

 A. Hatzidakis, K. Perisinakis, A. Karantanas, D.K. Tsetis; Iraklion/GR
- 607.4 HCC screening behavior and IR interventions at a tertiary transplant center

 J. Wildenberg, T. Cook, T. Gade, S. Hunt, M.C. Soulen, G.J. Nadolski;

 Philadelphia, PA/US
- 607.5 Kinetic imaging as a novel analysis of X-ray angiography <u>M. Gyánó</u>, V. Óriás, I. Góg, P. Sótonyi, B. Nemes, Z. Ruzsa, K. Szigeti, S. Osváth; Budapest/HU
- 607.6 Quantification of perfusion reduction following transarterial chemoembolization with drug-eluting microspheres (DEB-TACE) using 2D-perfusion angiography (2D-PA)

 S.K. Maschke¹, J. Renne¹, T. Werncke¹, R. Kloeckner², F.K. Wacker¹, B.C. Meyer¹, J.B. Hinrichs¹; ¹Hannover/DE, ²Mainz/DE

16:15-16:35

Satellite Symposia

For the detailed programmes, please refer to pages 197.



17:30-18:30, Auditorium 12

Workshop

WS 701 Closure devices

701.1 P. Minko (Homburg/DE)

701.2 G. Puippe (Zurich/CH)

17:30-18:30, Auditorium 10

Workshop

WS 702 Varicose veins

702.1 D.J. West (Stoke-on-Trent/UK)

702.2 M.L. Åkesson (Malmö/SE)

17:30-18:30, Auditorium 15

Workshop

WS 703 Liver ablation

703.1 J. Kettenbach (St. Pölten/AT)

703.2 F. Orsi (Milan/IT)

17:30-18:30, Auditorium 2

Workshop

WS 704 Embolisation: materials and tools

704.1 M. Grosso (Cuneo/IT)

704.2 L. Kara (Zurich/CH)

17:30-18:30, Auditorium 11

European Trainee Forum

ETF 705 Future IR technologies

- 705.1 The state of the art and future of interventional oncology *P.L. Pereira (Heilbronn/DE)*
- 705.2 Reliability in percutaneous tumour ablation fusion, stereotaxy and robotics

R. Bale (Innsbruck/AT)

- 705.3 Future technologies in endovascular interventions M.S. Hamady (London/UK)
- 705.4 Simulator training: potentials and limitations *M. Stroem (Copenhagen/DK)*
- 705.5 Big data, Al and machine learning *P. Kecskemethy (London/UK)*

17:30-18:30, Room 19

Free Paper Session

FP 706 Bone and spine intervention

Moderators: D.K. Filippiadis (Athens/GR), S. Marcia (Cagliari/IT)



706.1 Prospective randomized trial comparing intradiscal ozone injection with surgery for the treatment of disc herniation

<u>A.D. Kelekis</u>¹, G. Bonaldi², A. Cianfoni³, J. Buric⁴, D. Hooper⁵; ¹Haidari/GR, ²Bergamo/IT, ³Lugano/CH, ⁴Bologna/IT, ⁵Austin, TX/US

- 706.2 Clinical experience of an innovative implant for the prophylactic treatment of impeding pathological hip fracture in 20 patients F. Deschamps¹, F. Cornelis², B. Lapuyade², J.T. Perez², F. Petitpierre², J.-D. Laredo³, N. Amoretti⁴, O. Andreani⁴, R. Bonaccorsi³; ¹Villejuif/FR, ²Bordeaux/FR, ³Paris/FR, ⁴Nice/FR
- 706.3 Palliation of pathological pelvic bone fractures using percutaneous screw plasty in 100 consecutive patients with cancer <u>C. Roux</u>, L. Tselikas, R. Sandes Solas, B. Ba, M. Berraf, G. Gravel, T. de Baère, F. Deschamps; Villejuif/FR
- 706.4 Intra-articular application of pulsed radiofrequency improves symptoms of knee osteoarthritis: a prospective study on efficacy and safety D.K. Filippiadis, G. Velonakis, C. Konstantos, L. Reppas, K. Palialexis, E. Brountzos, A.D. Kelekis: Athens/GR
- 706.5 Comparison between ultrasound-guided percutaneous doubleneedle lavage in the treatment of calcific tendinopathy of the rotator cuff performed with or without an ultrasound-guided block of the suprascapular nerve D. Maiettini, C. Pazzi, S. Mosca, M. Duranti, A. Rebonato; Perugia/IT



706.6 EVOLVE: a prospective and multicenter evaluation of the outcomes pertaining to quality of life, pain, and activities of daily living after balloon kyphoplasty for the treatment of Medicare-eligible subjects with vertebral compression fractures

D.P. Beall¹, M.R. Chambers², S.M. Thomas³, R. Easton⁴, S. Galati⁵, B. Goodman², D. Datta⁶, J.R. Webb⁷, D. Linville⁸; 'Edmond, OK/US, ²Birmingham, AL/US, ³Meadville, PA/US, ⁴Troy, MI/US, ⁵Saginaw, MI/US, ⁶Melbourne, FL/US, ⁷Tulsa, OK/US, ⁸Memphis, TN/US

17:30-18:30, Auditorium 3

Free Paper Session

FP 707 EVAR

Moderators: M. Cariati (Milan/IT), A. Chavan (Oldenburg/DE)

707.1 Anatomical applicability of endovascular aneurysm sealing techniques in a continuous cohort of fenestrated endovascular aneurysm repairs l.N. Roy¹, M. Gharib¹, S. Zerwes², R. Jakob², F. Torella¹, R. Fisher¹; ¹Liverpool/UK, ²Augsburg/DE



- 707.2 Use of endoanchors in the treatment of intraoperative type IA endoleaks after EVAR with short necks: mid-term results

 E. Beropoulis, K. Stavroulakis, G.F. Torsello, K.P. Donas, A. Stachmann, C. Herricks, G. Torsello, T. Bisdas; Münster/DE
- 707.3 Multi-centric evaluation of 111 open chimneys for endovascular repair of juxtarenal abdominal aortic aneurysms with discrepant renal arteries C. Caradu, N. Ottaviani, X. Bérard, D. Midy, E. Ducasse; Bordeaux/FR
- 707.4 A 20-year experience in the endovascular treatment of abdominal aortic aneurysms (AAA): lessons learned

 <u>R. Rosati, F. Fanelli, P.G. Nardis, F. Basilico, L. Ginanni Corradini, C. Catalano; Rome/IT</u>
- 707.5 Mid-term evaluation of morphological changes in pararenal aortic aneurysms treated with the chimney endovascular technique using computed tomography angiography

 <u>S. Hahtapornsawan</u>¹, F.J. Criado², G.F. Torsello³, T. Bisdas³, M. Austermann³, K.P. Donas³, K. Lazaridis⁴; ¹Bangkok/TH, ²Baltimore, MD/US, ³Muenster/DE, ⁴Athens/GR
- 707.6 Low radiation and contrast dose CTA in EVAR assessment <u>C. Zini</u>¹, P. Petruzzi¹, D. Peruzzi¹, F. Maioli¹, G. Ventoruzzo¹, M. Grechi²; ¹Arezzo/IT, ²Grosseto/IT

17:30-18:30, Room 20

Free Paper Session

FP 708 Vascular intervention: renal and visceral arteries

Moderators: T.J. Cleveland (Sheffield/UK), D.D. Liermann (Herne/DE)



708.1 Establishment and maintenance of hypertension intervened by RDN: an experiment on hypertensive canine

L. Ling; Nanjing/CN

- 708.2 Cryoablation for renal angiomyolipoma: is it a feasible and safe treatment?
 <u>A. Makki¹</u>, E.Ø. Østraat¹, S. Høyer¹, T.K. Nielsen¹, O. Graumann²; ¹Aarhus/DK, ²Odense/DK
- 708.3 Initial experience with the E-ventus® stentgraft for endovascular treatment of visceral artery aneurysms

 <u>S. Anton</u>, E. Stahlberg, M. Planert, M. Wiedner, M. Kleemann, J. Barkhausen, J.P. Goltz: Lübeck/DE
- 708.4 Endovascular treatment of splenic artery aneurysms: a multicenter retrospective review E. Nzekwu, H. Grosjean, J. Wong, D. Bakshi; Calgary, AB/CA
- 708.5 Percutaneous mesenteric artery stenting as the first-choice treatment in occlusive mesenteric artery disease in patients with mesenteric ischemia *J.-M. van Wagenberg, T. Bulut; Enschede/NL*
- 708.6 Status update on EmboCoH visceral artery aneurysm international multicentral registry
 - R. Talaie¹, M.R. Sapoval², J. Golzarian¹; ¹Minneapolis, MN/US, ²Paris/FR



17:30-18:30, Room 18
Free Paper Session
FP 709 Biopsy

Moderators: R. Marcello (Rome/IT), A.G. Ryan (Waterford City/IE)



- 709.1 Performance of a new blunt-tip coaxial needle for percutaneous biopsies or drainages of "hard-to-reach" targets
 - <u>R.L. Cazzato</u>, J. Garnon, J. Caudrelier, G. Tsoumakidou, G. Koch, A. Gangi; Strasbourg/FR
- 709.2 A prospective, intra-patient, blinded study comparing 14-fragment random prostatic biopsy with mpMRI–TRUS fusion biopsy G.C. Mariotti, P.M. Falsarella, R.G. Garcia, M.R.G. Queiroz, G.C. Lemos, R.H. Baroni; São Paulo/BR
- 709.3 Systemic air embolism after CT-guided lung biopsy: a not-so-rare complication
 <u>V. Monnin-Bares</u>, S. Bommart, H. Zarqane, J. Vanoverschelde, H. Vernhet-Kovacsik; Montpellier/FR
- 709.4 Comparison of complications rates between multiparametric magnetic resonance imaging–transrectal ultrasound (mpMRI–TRUS) fusion and conventional sextant-extended prostatic biopsies

 <u>G.C. Mariotti</u>, P.M. Falsarella, R.G. Garcia, M.R.G. Queiroz, G.C. Lemos, R.H. Baroni; São Paulo/BR
- 709.5 CT-guided transjugular liver biopsy: phantom experiments *A.H. Mahnken, J. Scholz; Marburg/DE*
- 709.6 Comparison of diagnostic efficacy with 18-gauge and 20-gauge ultrasound-guided core needle biopsies for thyroid nodules *H.S. Ahn, M. Seo, S.H. Park, S.M. Ha, E.S. Lee; Seoul/KR*

Sunday, September 17

08:00-08:20, Room 20 **Satellite Symposium**

For the detailed programme, please refer to page 199.

08:30-09:30, Auditorium 2

Fundamental Course

FC 901 Basics of drug-eluting technology

Moderators: F. Fanelli (Florence/IT), P. Krishnan (New York, NY/US)

901.1 Mechanism of action

S. Spiliopoulos (Patras/GR)

901.2 Differences between drugs (beyond paclitaxel) R. Virmani (Gaithersburg, MD/US)

901.3 Differences in drug carriers for DCB

G. Tepe (Rosenheim/DE)

901.4 What happens when the drug is gone?

J.A. Reekers (Amsterdam/NL)

08:30-09:30, Auditorium 1

Expert Round Table

ERT 902 IVC filter

Coordinator: J.A. Kaufman (Portland, OR/US)

Panellists: T. Jahnke (Neumünster/DE), A.C. Roberts (La Jolla, CA/US), S.O. Trerotola (Philadelphia, PA/US), R. Uberoi (Oxford/UK)





08:30-09:30, Auditorium 10

Special Session

SS 903 Radioembolisation: results and new perspectives



Moderators: T.F. Jakobs (Munich/DE), V. Vilgrain (Clichy/FR)

- 903.1 Sirflox and Foxfire: latest global results *T.K. Helmberger (Munich/DE)*
- 903.2 Radioembolisation: implications in management of hepatic metastases *R.J. Lewandowski (Chicago, IL/US)*
- 903.3 Radioembolisation: implications in management of advanced HCC D. Sze (Stanford, CA/US)
- 903.4 New radioembolisation agents: Holmium-166 *M. van den Bosch (Utrecht/NL)*

08:30-09:30, Auditorium 15

Special Session

SS 904 Treatment options of bone tumours



Moderators: A.D. Kelekis (Athens/GR), S. Marcia (Cagliari/IT)

- 904.1 Mechanical stabilisation
 - G. Koch (Strasbourg/FR)
- 904.2 Combined therapy: when and how
- L. Tselikas (Villejuif/FR)
 904.3 HIFU: when and how
 - M. Düx (Frankfurt/DE)
- 904.4 Medical management of benign bone tumours K.S. Rankin (Newcastle-upon-Tyne/UK)

08:30-09:30, Auditorium 3

Lecture Session

LS 905 Abdominal aorta 1 – evidence and controversies



Moderators: J.F. Benenati (Miami, FL/US), N.V. Dias (Lund/SE)

- 905.1 Are the new generation devices really delivering their promises? R.G. McWilliams (Liverpool/UK)
- 905.2 EVAR 2: 15 years outcome of very unfit patients R.M. Greenhalgh (London/UK)
- 905.3 Who to recommend for EVAR based on the long-term results of the DREAM trial
 - J.D. Blankensteijn (Amsterdam/NL)
- 905.4 How and when to intervene on the growing aneurysm after EVAR C.A. Binkert (Winterthur/CH)
- 905.5 AAA plus iliac occlusive disease still suitable for EVAR?

 A. Holden (Auckland/NZ)

08:30-13:00, Simulator Gallery

Simulation Training

PTP 2 Principles to practice: education and simulation skills training – Carotid stenting: the basics, current role and future perspectives

Coordinators: M. Midulla (Valenciennes/FR), J.C. van den Berg (Lugano/CH)

Session organiser: J.A. Vos (Nieuwegein/NL)

Instructors: N. Kakani (Manchester/UK), T.H. Lo (Utrecht/NL), M. Taudorf (Copenhagen/DK), M. van Leersum (Nieuwegein/NL)

PTP 2.1 (group 1):

08:30-09:30 discussion / 09:30-10:40 simulation

PTP 2.2 (group 2):

09:40-10:40 discussion / 10:50-11:50 simulation

PTP 2.3 (group 3):

10:50-11:50 discussion / 12:00-13:00 simulation

09:30-11:00, HDT Room 1

Hands-on Device Training

EMT-HDT 1 Embolisation: materials and tools – Coils & plugs

Coordinators: J.V. Patel (Leeds/UK), V. Pedicini (Milan/IT)

09:30-11:00, HDT Room 3

Hands-on Device Training

TA-HDT 1 Tumour ablation - RFA

Coordinators: M. Bezzi (Rome/IT), L. Hechelhammer (St. Gallen/CH)

09:30-11:00, HDT Room 2

Hands-on Device Training

VV-HDT 1 Varicose veins

Coordinators: D. Greenstein (Harrow/UK), C. Lebard (Paris/FR)

10:00-11:00, Auditorium 15

Special Session

SS 1001 Therapy of diabetic foot (BTK interventions)

Moderators: F. Fanelli (Florence/IT), J.A. Reekers (Amsterdam/NL)

1001.1 Pedal access and co.: how to make them easier

M. Palena (Abano Terme/IT)

1001.2 Treat as much as you can at the initial sitting P.E. Huppert (Darmstadt/DE)

1001.3 "Go around" technique

M.G. Manzi (Abano Terme/IT)

1001.4 Drug-eluting stents to improve limb salvage?

H. van Overhagen (The Hague/NL)

10:00-11:00, Auditorium 2

Expert Case Discussion

ECD 1002 Venous stenting

Coordinator: J. Tacke (Passau/DE)

Panellists: B. Gonçalves (Porto/PT), T. Heller (Rostock/DE), G.J. O'Sullivan (Galway/IE)



10:00-11:00, Auditorium 10

Fundamental Course

FC 1003 Ablative therapies of renal cancer



Moderators: T. Hiraki (Okayama/JP), P.L. Pereira (Heilbronn/DE)

- 1003.1 Partial nephrectomy: news from the urologist
 - A. Volpe (Novara/IT)
- 1003.2 Thermal ablative therapies are as efficient as surgery
 - A. Gangi (Strasbourg/FR)
- 1003.3 When to use cryoablation
 - D.J. Breen (Southampton/UK)
- 1003.4 Update on clinical guidelines
 A. Veltri (Orbassano/IT)

10:00-11:00, Auditorium 1

Expert Round Table

ERT 1004 Glintervention



Coordinator: O.M. van Delden (Amsterdam/NL)

Panellists: H.-U. Laasch (Manchester/UK), L.P. Lawler (Dublin/IE), T. Sabharwal (London/UK)

10:00-11:00, Auditorium 3

Lecture Session

LS 1005 What's new - techniques



Moderators: M. Malina (Harrow/UK), R.A. Morgan (London/UK)

- 1005.1 New development in the treatment of TBAD
 - C. Nienaber (London/UK)
- 1005.2 New development in the treatment of AAA
 - J.F. Benenati (Miami, FL/US)
- 1005.3 Inner branches
 - E. Verhoeven (Nuremberg/DE)
- 1005.4 The impact of new technologies in TAAA
 - A. Stella (Bologna /IT)
- 1005.5 Iliac side branch devices: which is best?
 - M.A. Funovics (Vienna/AT)



11:30-12:30, Auditorium 15

Special Session

SS 1101 Sedation and analgesia performed by IR



Moderators: A. Gangi (Strasbourg/FR), M.J. Lee (Dublin/IE)

1101.1 Basics of different drugs and sedation levels

A. Vari (Roma/IT)

1101.2 Pre-assessment and monitoring

J.T.A. Knape (Utrecht/NL)

1101.3 Special precaution for the elderly patient

C. Batistaki (Athens/GR)

1101.4 Advantages/role of propofol sedation

C.A. Binkert (Winterthur/CH)

11:30-12:30

Satellite Symposia

For the detailed programmes, please refer to pages 199-201.

12:30-14:00, HDT Room 1

Hands-on Device Training

EMT-HDT 2 Embolisation: materials and tools – Coils & plugs

Coordinators: J.V. Patel (Leeds/UK), V. Pedicini (Milan/IT)

12:30-14:00, HDT Room 3

Hands-on Device Training

TA-HDT 2 Tumour ablation – RFA

Coordinators: M. Bezzi (Rome/IT), L. Hechelhammer (St. Gallen/CH)

12:30-14:00, HDT Room 2

Hands-on Device Training

VV-HDT 2 Varicose veins

Coordinators: D. Greenstein (Harrow/UK), C. Lebard (Paris/FR)

13:00-14:00

Satellite Symposia

For the detailed programmes, please refer to pages 203-205.

13:15-14:15, News on Stage Area

News on Stage

NoS 1204 Embolisation News on Stage

- 1204.1 Sublingual glyeryl trinitrate improves prostate artery visibility on CTA performed preoperatively for prostate artery embolization <u>A. Macdonald</u>, M.W. Little, P. Boardman, C.R. Tapping; Oxford/UK
- 1204.2 Are formal urodynamic studies an essential investigation prior to prostate artery embolisation (PAE)?
 <u>D. Maclean</u>, B. Maher, T. Drake, J. Dyer, M.R. Harris, S. Modi, T.J. Bryant, N. Hacking; Southampton/UK
- 1204.3 A common woodchuck (Marmota monax) as a model for hepatic embolization D.L. Woods, <u>W. Pritchard</u>, S.A. Leonard, J. Esparza, I. Bakhutashvili, A. Mikhail, E. Levy, V. Krishnasamy, J. Karanian, B.J. Wood; Bethesda, MD, US
- 1204.4 Embolization of the geniculate arteries is a safe and effective treatment for recurrent hemarthrosis following TKA

 <u>L.J. van Baardewijk</u>, Y. Hoogeveen, I. van der Geest, L.J. Schultze Kool;
 Nijmegen/NL
- 1204.5 CT liver perfusion for hepatocellular carcinoma nodule detection and follow-up after trans-arterial chemoembolization and comparison with hepato-specific contrast MRI: work in progress

 A. Hatzidakis, K. Perisinakis, E. Chryssou, G. Kalarakis, E. Savva,
 A. Karantanas; Iraklion/GR
- 1204.6 When the prostatic artery does not originate from hypogastric branches, what to do for attaining good results in prostatic artery embolization? A.G. Rampoldi¹, F. Barbosa¹, C. Migliorisi¹, M. Solcia¹, R. Vercelli¹, P. Brambillasca¹, S. Secco¹, A. Galfano¹, V.C.D.P. Rodrigues², A. Assis², A.M. Moreira², A. Bocciardi¹, F.C. Carnevale²; ¹Milan/IT, ²São Paulo/BR



14:30-15:00, Auditorium 1

Honorary Lecture

HL 1301 Andreas Gruentzig Lecture

Moderator and Laudation: E. Brountzos (Athens/GR)

1301.1 Percutaneous treatment of cystic echinococcosis (hydatid cysts): current concepts O. Akhan (Ankara/TR)

15:00-16:00, Auditorium 1

Hot Topic Symposium

HTS 1302 Hot Topics Symposium – Aorta



Moderators: C.A. Binkert (Winterthur/CH), F. Fanelli (Florence/IT)

- 1302.1 Do the long-term outcomes of EVAR justify its generalised use? *F. Fanelli (Florence/IT)*
- 1302.2 Is standard EVAR justified outside IFU? to be announced
- 1302.3 Should individualised follow-up after EVAR be the standard of care?

 J.C. van den Berg (Lugano/CH)
- 1302.4 Is it justified to treat old and frail patients with TAAA endovascularly? E. Verhoeven (Nuremberg/DE)

14:30-15:30

Satellite Symposia

For the detailed programmes, please refer to pages 205-207.

16:15-17:15, Auditorium 2

Workshop

- WS 1401 Recanalisation techniques: skill and technology
 - 1401.1 A. Spinelli (Cagliari/IT)
 - 1401.2 A. Diamantopoulos (London/UK)

16:15-17:15, Auditorium 1

Al 1402 Amazing Interventions

Coordinator: P. Haage (Wuppertal/DE)

Case presenters: P.A.M.S. Almeida (Viseu/PT), M.W. de Haan (Maastricht/NL), G.S. Goh (Melbourne, VIC/AU), M. Katoh (Krefeld/DE), K. Malagari (Athens/GR), S. Punamiya (Singapore/SG), C.T. Sofocleous (New York, NY/US), C.P. Stracke (Essen/DE), F. Wolf (Vienna/AT)

16:15-17:15, Auditorium 15

Workshop

WS 1403 Bone ablation

1403.1 R.F. Grasso (Rome/IT)

1403.2 T. Pereira (Vila Nova de Gaia/PT)

16:15-17:15, Auditorium 10

Workshop

WS 1404 Vertebral augmentation

1404.1 S. Marcia (Cagliari/IT)

1404.2 X. Buy (Bordeaux/FR)

16:15-17:15, Auditorium 3

Expert Case Discussion

ECD 1405 Emergencies – how to manage the complex acute case



Coordinators: M.D. Dake (Stanford, CA/US), F.E. Vermassen (Ghent/BE)

1405.1 Ruptured aneurysm

M. Malina (Harrow/UK)

1405.2 Traumatic aortic rupture

N.J. Mosquera (Ourense/ES)

1405.3 Type B dissection with rupture

H. Rousseau (Toulouse/FR)

1405.4 Type B dissection with malperfusion

G.M. Richter (Stuttgart/DE)



16:15-17:15. Room 20

Free Paper Session

FP 1406 TIPS and portal vein intervention

Moderators: M. Cejna (Feldkirch/AT), P. Vilares Morgado (Porto/PT)

- 1406.1 Transjugular intrahepatic portosystemic shunt through the left branch vs. the right branch of the portal vein in patients with refractory portal hypertension and cirrhosis
 - M.S. Alwarraky; Menofia/EG
- 1406.2 Plug-assisted retrograde transvenous obliteration (PARTO) for gastric varices and hepatic encephalopathy: the role of cone-beam computed tomography during PARTO
 - D.I. Gwon, S.M. Lee, Y.J. Jo, J.J. Shim, K.W. Yoon, G.-Y. Ko; Seoul/KR
- 1406.3 Percutaneous transhepatic intrahepatic portosystemic shunt for variceal bleeding with chronic portal vein occlusion after splenectomy <u>J. Luo</u>, M. Li, H. Wang, M. Huang, Z. Jiang; Guangzhou/CN



1406.4 Outcomes of percutaneous portal vein intervention in a single UK paediatric liver transplantation programme

- J.V. Patel¹, <u>J. Mahaveer</u>¹, R. Patel², N. Tahir¹, S. Rajwal¹, P. McClean¹; ¹Leeds/UK, ²Cambridge/UK
- 1406.5 Portal vein malignant thrombus recanalisation by endoportal RFA with metal stent placement (VesOpen procedure): rationale, technique, and application
 - M. Mizandari¹, T. Azrumelashvili¹, N. Habib²; ¹Tbilisi/GE, ²London/UK
- 1406.6 Portal vein embolization with an ethylene–vinyl alcohol copolymer: a histopathological analysis
 - <u>J. Urbano</u>, V. Castellano Megias, M.E. Arias-Laverde, M. Cabrera Gonzalez, A. Alonso Burgos, A. Celdran Uriarte; Madrid/ES

16:15-17:15, Room 19

Free Paper Session

FP 1407 Oncology 1

Moderators: I. Bargellini (Pisa/IT), E.P. Eyheremendy (Buenos Aires/AR)



1407.1 Systemic T cell reactivity with respect to immune status and survival following ablative treatment of locally advanced pancreatic cancer by irreversible electroporation

<u>H.J. Scheffer</u>, A.G. Stam, L.G. Vroomen, T.D. de Gruijl, M.R. Meijerink; Amsterdam/NI

- 1407.2 Prospective randomized controlled trial comparing efficacy of microwave ablation and radiofrequency ablation for the treatment of hepatocellular carcinoma in patients with a chronic liver disease N. Vietti-Violi¹, R. Duran¹, B. Guiu², C. Aubé³, P.E. Bize⁴, I. Pache¹, P. Deltenre¹, J.-F. Knebel¹, A. Denys¹; ¹Lausanne/CH, ²Montpellier/FR, ³Angers/FR, ⁴Genolier/CH
- 1407.3 Toward transpulmonary chemoembolization with degradable starch microscpheres: systematic analysis of local and systemic effects in a porcine model <u>A. Barabasch</u>, S. von Stillfried, A. Sander, M.F. Schulze-Hagen, F. Pedersoli, M. Zimmermann, P. Bruners, C.K. Kuhl, P. Isfort; Aachen/DE
- 1407.4 Extended liver venous deprivation: the most powerful interventional radiology technique for liver preparation before major hepatectomy B. Guiu, L. Piron, L. Escal, J. Delicque, F. Quenet, E. Deshayes; Montpellier/FR
- 1407.5 Preliminary characterization of a novel coaxial electrochemical ablation device
 - G.J. Nadolski, J. Wildenberg, S. Hunt, T. Gade; Philadelphia, PA/US
- 1407.6 Single-injection dual-phase cone-beam computed tomography (CBCT) demonstrates occult HCCs and influences patient's intraprocedural management in the course of TACE

 P. Lucatelli¹, M. Bezzi², S. Zilahi de Gyurgyokai², F. Fanelli², D. Boutboul³, C. Ricci³, R. Argirò²; ¹Siena/IT, ²Rome/IT, ³Paris/FR

16:15-17:15, Room 18

Free Paper Session

FP 1408 Embolotherapy

Moderators: O. Pellerin (Paris/FR), J.M. Pisco (Lisbon/PT)

1408.1 Use of Amplatzer vascular plugs in patients with congenital heart disease (CHD)

P. Jagia, S. Sharma; Delhi/IN



1408.2 Safety and efficacy in the use of superselective radiofrequency embolization wires in small animal arteries

M. Guimaraes; Charleston, SC/US

- 1408.3 Selective occlusion of splenic artery aneurysms with the coil packing technique: the impact of packing density on recanalization correlated between contrast-enhanced MR angiography and digital subtraction angiography
 - <u>M. Wojtaszek</u>¹, K. Lamparski², E. Wnuk², T. Ostrowski², R. Maciag², K. Korzeniowski², O. Rowinski²; ¹Canterbury/UK, ²Warsaw/PL
- 1408.4 Ten years' experience with an Onyx embolic agent in the percutaneous treatment of type II endoleaks
 - <u>P.G. Nardis</u>, F. Fanelli, M. Bezzi, M. Corona, F. Basilico, L. Ginanni Corradini, C. Catalano; Rome/IT



1408.5 Efficacy and safety of balloon-assisted scleroembolotherapy (BAST) for subcutaneous high-flow arteriovenous malformation in the head and neck

M. Aoshima, S. Imai, T. Nakasato, H. Fujimaki, R. Yamakuni; Koriyama/JP
 1408.6 Amplatzer vascular plug anchoring technique (AVP-AT) for additional microcoil embolization of a short internal iliac artery under unstable support of a delivery system

<u>M. Inoue</u>, S. Nakatsuka, H. Yashiro, M. Tamura, K. Maeshima, H. Torikai, S. Oguro, M. Jinzaki; Tokyo/JP

16:15-17:05

Satellite Symposia

For the detailed programmes, please refer to pages 207-208.

17:30-18:30, Auditorium 2

Workshop

WS 1501 Aorto-iliac disease

1501.1 J. Tacke (Passau/DE)

1501.2 M. Tsitskari (Athens/GR)

17:30-18:30, Auditorium 15

Workshop

WS 1502 Pulmonary arteriovenous malformations

1502.1 G.J. Robinson (Hull/UK)

1502.2 J. Pollak (New Haven, CT/US)

17:30-18:30, Auditorium 10

Workshop

WS 1503 Lung ablation

1503.1 A. Gillams (London/UK)

1503.2 C.T. Sofocleous (New York, NY/US)

Workshop

WS 1504 Fundamentals of EVAR



1504.1 R. Uberoi (Oxford/UK) 1504.2 K.P. Donas (Münster/DE)

17:30-18:30, Room 19

Free Paper Session

FP 1505 Experimental work in IR

Moderators: D. Giansante Abud (Ribeirão Preto/BR), R. Lopez-Benitez (Luzern/CH)



1505.1 CT visibility of different types of embolic materials with particular deep penetration into the liver: 40-µm visible bead versus iodized oil

D. Vollherbst¹, T.L. Gockner², T.D. Do¹, K. Holzer¹, C. Mogler³, P. Flechsig¹, A. Harms¹, C.L. Schlett¹, P.L. Pereira⁴, H.U. Kauczor¹, G.M. Richter⁵, C.M. Sommer¹; ¹Heidelberg/DE, ²Mainz/DE, ³Munich/DE, ⁴Heilbronn/DE, ⁵Stuttgart/DE

- 1505.2 Conductivity rise during irreversible electroporation: true permeabilization or heat?
 - A.H. Ruarus, L.G. Vroomen, H.J. Scheffer, M.R. Meijerink; Amsterdam/NL
- 1505.3 Respiratory level tracking with visual biofeedback to facilitate consistent level of breath-hold after image-guided interventions <u>W.J. Heerink</u>, M.D. Dorrius, H.J.M. Groen, R. Vliegenthart, M. Oudkerk; Groningen/NL
- 1505.4 Chronic outward force (COF) of self-expanding arterial stents correlates with neointimal proliferation in swine

 M.A. Funovics¹, P. Zumstein²; ¹Vienna/AT, ²Bülach/CH
- 1505.5 Feasibility of hepatic interstitial electrochemotherapy in a porcine model: in vivo evaluation of a newly developed expandable applicator <u>F. Pedersoli</u>, P. Isfort, A. Ritter, M. Liebl, M. Zimmermann, M.F. Schulze-Hagen, E. Dethlefsen, J. Pfeffer, M. Baumann, C.K. Kuhl, P. Bruners; Aachen/DE
- 1505.6 What happens to the drug on an effective drug-coated balloon: insights into results using a new coating composition

 <u>U. Speck</u>¹, A. Häckel¹, S. Kamann¹, M. Löchel¹, D. Peters¹, S. Bettink²,

 B. Scheller²; 'Berlin/DE, ²Homburg/DE



Free Paper Session

FP 1506 Biliary intervention

Moderators: A. Hatzidakis (Iraklion/GR), T. Sabharwal (London/UK)

- 1506.1 Percutaneous placement of irradiation stents versus conventional metal stents for unresectable malignant biliary obstruction: a prospective, randomized, controlled phase 3 trial
 - <u>H.-D. Zhu</u>, J. Lu, G.-J. Teng, J.-H. Guo, G.-Y. Zhu, L. Chen; Nanjing/CN
- 1506.2 A novel irradiation stent for the treatment of malignant hilar biliary obstruction
 - J. Lu, J.-H. Guo, H.-D. Zhu, G.-J. Teng; Nanjing/CN
- 1506.3 Medium- and long-term follow-up of benign biliary strictures treated with a biodegradable biliary stent: analysis of 32 patients at a single center
 - J.A. Guirola, S.M. Wong Kant, M. Sanchez-Ballestin, C. Lahuerta, J. Bosch-Melguizo, M.A. de Gregorio; Zaragoza/ES



- 1506.4 The when and how of biodegradable biliary stents in a paediatric group: is it better than what is used currently
 - <u>S. Dyer Hartnett</u>, I. Díez Miranda, C. Gonzalez-Junyent, G. Sempere Campello, C. Parra-Fariñas, M. Pérez Lafuente, A. Segarra Medrano; Barcelona/ES
- 1506.5 Endoluminal irreversible electroporation in the perihilar region <u>T. Andrašina</u>, J. Panek, D. Cervinka, I. Svobodova, T. Rohan, J. Husty, V. Válek; Brno/CZ
- 1506.6 Endoluminal radiofrequency ablation using the monopolar approach for the treatment of an occluded metal biliary stent in malignancy <u>T. Rohan</u>, T. Andrašina, J. Pánek, J. Husty, V. Bernard, V. Válek; Brno/CZ

17:30-18:30, Room 18

Free Paper Session

FP 1507 IR in gynaecology

Moderators: T.J. Kroencke (Augsburg/DE), J.M. Pisco (Lisbon/PT)



- 1507.1 Chemoembolization of uterine arteries for treatment of non-tubal ectopic pregnancy with positive fetal cardiac activity
 - M. Saksonov, A. Belenky, H. Krissi, S. Litvin, M. Knizhnik, G. Chudakov; Petah Tikva/IL
- 1507.2 Predelivery uterine artery embolization in patients affected by placental implant anomalies: feasibility, safety, and clinical-radiological outcomes *F. Giurazza*¹, *F. Di Pietto*², *R. De Ritis*², *F. Maglione*², *R. Niola*²; ¹*Rome/IT*, ²*Naples/IT*

- 1507.3 Magnetic resonance-guided focused ultrasound surgery (MRgFUS) treatment for submucosal uterine fibroids

 <u>S. lafrate</u>, I. Capretti, M. Di Luzio, F. Arrigoni, S. Mascaretti, G. Mascaretti, C. Masciocchi; L'Aquila/IT
- 1507.4 Robot-assisted uterine fibroid embolization using the Magellan system: a single-center experience comparing different steerable robotic catheter <u>C. Del Giudice</u>, O. Pellerin, M. Nouri Neuville, G. Amouyal, I. Fitton, M.R. Sapoval; Paris/FR
- 1507.5 Clinical outcome and complications using prophylactic occlusion balloons in patients with morbidly adherent placenta L. Mailli, M. Jarzabek, S.A. Angileri, L. Ratnam, A.-M. Belli; London/UK
- 1507.6 UAE vs MRgFUS: comparative efficacy for the treatment of symptomatic uterine fibroids at the 1-year follow-up

 <u>P. Palumbo</u>, A.V. Giordano, S. Carducci, M. Varrassi, S. Iafrate, M. Di Luzio,
 C. Masciocchi: L'Aauila/IT

Free Paper Session

FP 1508 Venous and IVC intervention

Moderators: M.A. de Gregorio (Zaragoza/ES), M.J. Garcia (Wilmington, DE/US)



- 1508.1 Optimum duration and dose of r-tPA with the acoustic pulse thrombolysis procedure for intermediate-risk (submassive) pulmonary embolism (OPTALYSE PE)
 - <u>K.M. Sterling</u>¹, N. Jones², G. Piazza³, S. Goldhaber³, V. Tapson⁴; ¹Alexandria, VA/US, ²Columbus, OH/US, ³Boston, MA/US, ⁴Los Angeles, CA/US
- 1508.2 Cancer and venous access (CAVA): a randomised controlled trial with associated qualitative research of venous access devices for delivering long-term chemotherapy
 - J.G. Moss, J. Paul, O. Wu, E. Mccartney, J. Dixon; Glasgow/UK
- 1508.3 Percutaneous mechanical thrombectomy for acute symptomatic iliofemoral deep vein thrombosis using the Aspirex®S catheter O. Chevallier, N. Falvo, C. Galland, S. Gehin, B. Bonnotte, S. Favelier, M. Midulla, R. Loffroy; Dijon/FR



- 1508.4 Endovascular stent placement for chronic post-thrombotic symptomatic ilio-femoral venous obstructive lesions: a single-center study on safety, efficacy, and quality of life improvement
 - O. Chevallier, M.-T. Falcoz, N. Falvo, C. Galland, B. Bonnotte, S. Gehin, M. Midulla, R. Loffroy; Dijon/FR
- 1508.5 A comparative study of ALN, Cook Celect and Cook Celect platinum vena cava filters
 - C.-T. Cheng, B. Lenffer, J. Tang, E. Paul, N. Tang, <u>G.S. Goh</u>; Melbourne, VIC/AU
- 1508.6 Comparison of the results of blood sampling from the left central adrenal vein and the common trunk of the left adrenal vein in adrenal venous sampling
 - <u>K. Azama</u>, A. Yogi, T. Koga, M. Toguchi, Y. Iraha, J. Heianna, H. Nakamura, H. Masuzaki, S. Murayama; Okinawa/JP

Monday, September 18

08:00-08:20, Room 20 **Satellite Symposium**

For the detailed programme, please refer to page 209.

08:30-09:30, Auditorium 1

Expert Case Discussion

ECD 1701 Difficult recanalisation

Coordinator: M. Schoder (Vienna/AT)

Panellists: H. Lindgren (Helsingborg/SE), A. Massmann (Homburg/DE), F. Wolf (Vienna/AT)

08:30-09:30, Auditorium 2

Special Session

SS 1702 Dialysis fistula management beyond PTA

Moderators: M. Das (Duisburg/DE), M. Guimaraes (Charleston, SC/US)

1702.1 Surveillance: clinical or ultrasound *M.W. de Haan (Maastricht/NL)*

1702.2 DCB to improve patency *K.N. Katsanos (London/UK)*

1702.3 The role of stent grafts *T.W.I. Clark (Philadelphia, PA/US)*

1702.4 Percutaneous creation of an AV fistula *R.-T. Hoffmann (Dresden/DE)*





Fundamental Course

FC 1703 Therapy of painful bone metastases

Moderators: X. Buy (Bordeaux/FR), J. Palussière (Bordeaux/FR)

1703.1 Combination of radiotherapy and IR V.E. Kouloulias (Athens/GR)

1703.2 Bone augmentation

F. Deschamps (Villejuif/FR)

1703.3 Ablation for therapeutic and palliative treatment A. Basile (Catania/IT)

1703.4 Transarterial embolisation of skeletal and spinal metastases A.G. Ryan (Waterford City/IE)

08:30-09:30, Auditorium 15

Special Session

SS 1704 Advanced biliary therapies

Moderators: M. Rossi (Rome/IT), T. Sabharwal (London/UK)

1704.1 Gallstone retrievals

A. Hatzidakis (Iraklion/GR)

1704.2 Biliary lithotripsy

A. Cannavale (Glasgow/UK)

1704.3 Brachytherapy

T. Andrašina (Brno/CZ)

1704.4 Biliary RFA

M. Mizandari (Tbilisi/GE)





Lecture Session

LS 1705 Abdominal aorta 2 – short and adverse necks



Moderators: E. Brountzos (Athens/GR), R.M. Greenhalgh (London/UK)

1705.1 When to choose open surgery

L. Di Marzo (Rome/IT)

1705.2 Fenestrated as a first line treatment

M.S. Hamady (London/UK)

1705.3 Are the new endograft concepts useful?

R.A. Morgan (London/UK)

1705.4 What is the role for adjuncts in combination with conventional endografts?

J.P.P.M. de Vries (Nieuwegein/NL)

1705.5 Chimneys – do or don't

M.P. Jenkins (London/UK)

08:30-13:00, Simulator Gallery

Simulation Training

PTP 3 Principles to practice: education and simulation skills training – The role of endovascular therapy in the treatment of diabetic foot

Coordinators: M. Midulla (Valenciennes/FR), J.C. van den Berg (Lugano/CH)

Session organiser: S.D. Qanadli (Lausanne/CH) Instructors: A.A. Chouiter (Neuchâtel/CH), J. Kettenbach (St. Pölten/AT), L. Oguzkurt (Istanbul/TR), G. Puippe (Zurich/CH)

PTP 3.1 (group 1):

08:30-09:30 discussion / 09:40-10:40 simulation

PTP 3.2 (group 2):

09:40-10:40 discussion / 10:50-11:50 simulation

PTP 3.3 (group 3):

10:50-11:50 discussion / 12:00-13:00 simulation



09:30-11:00, HDT Room 1

Hands-on Device Training

EMT-HDT 3 Embolisation: materials and tools – Liquid agents

Coordinators: I.J. McCafferty (Birmingham/UK), J. Urbano (Madrid/ES)

09:30-11:00, HDT Room 3

Hands-on Device Training

TA-HDT 3 Tumour ablation – MWA

Coordinators: L. Crocetti (Pisa/IT), J.L. del Cura Rodriguez (Bilbao/ES)

09:30-11:00, HDT Room 2

Hands-on Device Training

VA-HDT 1 Vertebral augmentation

Coordinators: G.C. Anselmetti (Turin/IT), A.D. Kelekis (Athens/GR)

10:00-11:00, Auditorium 1

Expert Round Table

ERT 1801 Radial access

Coordinator: A. Buecker (Homburg/DE)

Panellists: A. Buecker (Homburg/DE), A. Fischman (New York, NY/US), P. Lopes (Porto/PT), S. Müller-Hülsbeck (Flensburg/DE)

10:00-11:00, Auditorium 15

Special Session

SS 1802 Central venous access for IRs

Moderators: M. Cejna (Feldkirch/AT), M.J. Garcia (Wilmington, DE/US)

1802.1 PICC

B. Gebauer (Berlin/DE)

1802.2 Tunnelled catheters

A. Lunardi (Pisa/IT)

1802.3 Ports

R. Kasthuri (Glasgow/UK)

1802.4 Revision and salvage of central venous access

M.E. Krokidis (Cambridge/UK)





10:00-11:00, Auditorium 2

Controversy Special Session

CSS 1803 Controversies in interventional oncology



* FRID

Moderators: G. Maleux (Leuven/BE), O. Pellerin (Paris/FR)

- 1803.1 Ablation is superior to SBRT for oligometastatic lung disease: PRO *T. de Baère (Villejuif/FR)*
- 1803.2 Ablation is superior to SBRT for oligometastatic lung disease: CON *P. lyengar (Dallas, TX/US)*
- 1803.3 IRE is the technique of choice to treat central liver lesions: PRO *M.R. Meijerink (Amsterdam/NL)*
- 1803.4 IRE is the technique of choice to treat central liver lesions: CON *T.K. Helmberger (Munich/DE)*
- 1803.5 Presurgical TARE is better than PVE: PRO R. Salem (Chicago, IL/US)
- 1803.6 Presurgical TARE is better than PVE: CON *A. Denys (Lausanne/CH)*

10:00-11:00, Auditorium 11

Fundamental Course

FC 1804 IR management of pancreatitis



- 1804.1 The clinical problem and imaging *T.L. Bollen (Nieuwegein/NL)*
- 1804.2 IR management of pancreatitis: update on trials and recent developments
 - K.P. van Lienden (Amsterdam/NL)
- 1804.3 IR management of pancreatitis: optimal drainage strategies *P.G. Nardis (Terni/IT)*
- 1804.4 Vascular complications of pancreatitis *F. Veloso Gomes (Lisbon/PT)*



10:00-11:00, Auditorium 3

Expert Round Table

ERT 1805 Controversies in EVAR



Coordinators: L. Di Marzo (Rome/IT), G.M. Richter (Stuttgart/DE)

1805.1 When is it appropriate to treat small aneurysms? K. Deloose (Dendermonde/BE)

1805.2 Indications for open surgery for AAA in 2017 R.G.J. Gibbs (London/UK)

1805.3 EVAR for all patients? *N.V. Dias (Lund/SE)*

1805.4 Is percutaneous EVAR better for patients?

A. Chavan (Oldenburg/DE)

10:00-10:45, Room 20

Workshop

STRAT 1806 Building clinical business

Moderator: C.A. Binkert (Winterthur/CH)

1806.1 Core business planning *M. Noesberger (Solothurn/CH)*

1806.2 Business model of IR at Miami Cardiac & Vascular Institute B.T. Katzen (Miami, FL/US)

1806.3 Business model at Istituto Europeo di Oncologia in Milano F. Orsi (Milan/IT)

1806.4 Panel discussion

10:45-11:30, Room 20

Workshop

STRAT 1807 Clinical services

Moderator: C.A. Binkert (Winterthur/CH)

1807.1 Standard requirements for clinical services

O.M. van Delden (Amsterdam/NL)

1807.2 Stand-alone

R.A. Baum (Boston, MA/US)

1807.3 Multidisciplinary

F. Orsi (Milan/IT)

1807.4 Combined

C.A. Binkert (Winterthur/CH)

1807.5 Panel discussion

11:30-12:30, Auditorium 15

Special Session

SS 1901 Anaesthesia and interventional radiology: time to team up!

Moderators: A. Gangi (Strasbourg/FR), P. Reimer (Karlsruhe/DE)

1901.1 Patient selection: which type of anaesthesia for which procedure

A. Vari (Roma/IT)

1901.2 Advantages of high frequency jet ventilation

R. Duran (Lausanne/CH)

1901.3 Nerve and epidural blocks

C. Lobo (Porto/PT)

1901.4 Postprocedural analgesia

R. Bhavsar (Aarhus/DK)

11:30-12:30

Satellite Symposia

For the detailed programmes, please refer to pages 209-211.



12:30-13:15, Room 20

Workshop

STRAT 1905 Marketing

Moderator: C.A. Binkert (Winterthur/CH)

1905.1 Effective communication and the use of (social) media

L. Zenk (Vienna/AT)

1905.2 To the patient

R.A. Baum (Boston, MA/US)

1905.3 To the referrers

A. Gangi (Strasbourg/FR)

1905.4 Panel discussion

12:30-14:00, HDT Room 1

Hands-on Device Training

EMT-HDT 4 Embolisation: materials and tools – Liquid agents

Coordinators: I.J. McCafferty (Birmingham/UK), J. Urbano (Madrid/ES)

12:30-14:00, HDT Room 3

Hands-on Device Training

TA-HDT 4 Tumour ablation - MWA

Coordinators: L. Crocetti (Pisa/IT), J.L. del Cura Rodriguez (Bilbao/ES)

12:30-14:00, HDT Room 2

Hands-on Device Training

VA-HDT 2 Vertebral augmentation

Coordinators: G.C. Anselmetti (Turin/IT), A.D. Kelekis (Athens/GR)

13:15-14:00, Room 20

Workshop

STRAT 1906 Infrastructures

Moderator: C.A. Binkert (Winterthur/CH)

1906.1 Architecture and its impact to the patient pathway

I. Degen (Zurich/CH)

1906.2 Example from Strasbourg

A. Gangi (Strasbourg/FR)

1906.3 Example from Miami

B.T. Katzen (Miami, FL/US)

1906.4 Example from Winterthur

C.A. Binkert (Winterthur/CH)

1906.5 Panel discussion

13:00-14:00

Satellite Symposia

For the detailed programmes, please refer to pages 211-213.

13:15-14:15, News on Stage Area

News on Stage

NoS 2005 Scientific News on Stage

- 2005.1 Does chronic outward force of nitinol stents in SFA trigger restenosis? Interim report of the BIOFLEX-COF study M.A. Funovics; Vienna/AT
- 2005.2 Two-year results from the IN.PACT global studies and outcomes in patients with diabetes M. Brodmann¹, G. Ansel², T. Zeller³, A. Micari⁴, P. Peeters⁵, G. Tepe⁶; ¹Graz/AT, ²Columbus, OH/US, ³Bad Krozingen/DE, ⁴Cotignola/IT,

5Bonheiden/BE, 6Rosenheim/DE

2005.3 Outcomes following subintimal recanalization of chronic total occlusions: a subset analysis of the IN.PACT global CTO imaging cohort G. Tepe¹, T. Zeller², M. Brodmann³, A. Micari⁴, P. Peeters⁵, G. Ansel⁶; ¹Rosenheim/DE, ²Bad Krozingen/DE, ³Graz/AT, ⁴Cotignola/IT, ⁵Bonheiden/BE, ⁶Columbus, OH/US



2005.4 Stellarex drug coated balloon: science insights and evidence updates *P. Krishnan*; *New York, NY/US*

2005.5 Radioembolization practices in Europe in 2017 – a survey among CIRSE members

<u>M.L. Smits</u>, E. Mees, M.T.M. Reinders, R.C.G. Bruijnen, M.G.E.H. Lam; Utrecht/NL

2005.6 The Lutonix AV trial: Interim 18 month results of a randomized trial of drug coated balloons in hemodialysis arteriovenous fistulae S.O. Trerotola, for the investigators of the Lutonix AV clinical trial; Philadelphia, PA/US

13:30-14:00, Auditorium 3

Satellite Symposium

For the detailed programme, please refer to page 213.

14:30-15:15, Auditorium 1

FIQ 2101 Film Interpretation Quiz

Coordinators: X. Buy (Bordeaux/FR), I.J. McCafferty (Birmingham/UK)

15:15-16:00, Auditorium 1

Hot Topic Symposium

HTS 2102 Radiation protection: burning issue

Moderators: E. Brountzos (Athens/GR), W. Jaschke (Innsbruck/AT)

- 2102.1 Radiation protection: are you prepared for the new legislation in 2018? E. Vano (Madrid/ES)
- 2102.2 Is there a real radiation hazard for young female doctors entering interventional radiology?C. Cousins (Cambridge/UK)
- 2102.3 Paediatric intervention: how to keep radiation exposure low? *G. Bartal (Kfar-Saba/IL)*
- 2102.4 How to select the most appropriate personal protection?

 A.M.H. Sailer Karmann (Maastricht/NL)

Expert Case Discussion

ECD 2103 A bad day in the angio suite – TEVAR



Coordinators: F. Fanelli (Florence/IT), T.A. Resch (Malmö/SE)

Panellists: M.D. Dake (Stanford, CA/US), T. Kölbel (Hamburg/DE), V. Riambau (Barcelona/ES), H. Rousseau (Toulouse/FR)

15:30-16:00, Auditorium 3

Expert Case Discussion

ECD 2104 Thoracic aorta: cases from Egypt



Coordinators: M. Dessoki (Cairo/EG), F. Fanelli (Florence/IT)

2104.1 Hybrid debranching TEVAR S. Essam (Cairo/EG)

2104.2 IVUS giuded TEVAR K. Shawky (Cairo/EG)

14:30-15:30, Auditorium 15

Satellite Symposium

For the detailed programme, please refer to page 215.

16:15-17:15, Auditorium 15

Workshop

WS 2201 Pulmonary artery revascularisation

2201.1 B.C. Meyer (Hannover/DE)

2201.2 J.A. Vos (Nieuwegein/NL)

16:15-17:15, Auditorium 2

Workshop

WS 2202 Revascularisation in acute ischaemic stroke

2202.1 Z. Kulcsar (Geneva/CH)

2202.2 T. Struffert (Erlangen/DE)



16:15-17:15, Room 19

Workshop

WS 2203 Cancer pain management

2203.1 N. Ptohis (Athens/GR)

2203.2 A. Napoli (Rome/IT)

16:15-17:15, Room 20

Workshop

WS 2204 Uterine fibroid embolisation: case-based discussion

2204.1 J.-P. Pelage (Caen/FR)

2204.2 J. Maskova (Aberdeen/UK)

16:15-17:15, Auditorium 3

Expert Round Table

ERT 2205 Controversies in Type B dissection

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Coordinators: C. Nienaber (London/UK), V. Riambau (Barcelona/ES)

2205.1 Which patients should still be treated medically in TBAD?

M.D. Dake (Stanford, CA/US)

2205.2 How far to extend endograft coverage

M.S. Hamady (London/UK)

2205.3 Is endoluminal closure of the false lumen indicated

T. Kölbel (Hamburg/DE)

2205.4 The role of fenestrating the flap in dissection

E. Ducasse (Bordeaux/FR)

16:15-17:15, Auditorium 10

GA 2206 General Assembly

16:15-17:15, Room 18

Free Paper Session

FP 2207 Radiation protection

Moderators: G. Bartal (Kfar-Saba/IL), W. Jaschke (Innsbruck/AT)



2207.1 Occupational radiation exposure to the lens of the eye in interventional radiology

G.S. Goh, S.S. Wang, W. Clements; Melbourne, VIC/AU





- 2207.2 Real-time radiation dosimetry during vertebral augmentation: initial experience, education, and radiation reduction *P. Drescher*¹, *T. Marshall*², *A. Janocik*²; ¹*Hartland*, *WI/US*, ²*Milwaukee*, *WI/US*
- 2207.3 Scatter radiation reduction with a dedicated patient shield in interventional radiology examinations
 A.M. König¹, J. Maas¹, R. Etzel², B. Keil², M. Fiebich², A.H. Mahnken¹;
 ¹Marburg/DE, ²Giessen/DE
- 2207.4 Effective implementation of fluoroscopic and angiographic dose reduction in image guided procedures

 R.E. Love, J.T. Shields, A.D. Bhave, C.S. Morris, J.B. Allison; Burlington, VT/US
- 2207.5 Effectivity of brain protection by lead X-ray attenuating head caps in phantom experiments and clinical practice

 E. Bouchoms, A.M.H. Sailer Karmann, C. van der Leij, W. van Zwam,

 J.E. Wildberger, M.W. de Haan, C.R. Jeukens; Maastricht/NL
- 2207.6 Evaluation of reduction in time and radiation exposure using a robotic tracking system for CT-guided percutaneous lung and renal biopsy S. Quarchioni, F. Bruno, F. Smaldone, F. Arrigoni, A.V. Giordano, S. Carducci, M. Varrassi, C. Masciocchi; L'Aquila/IT

16:15-17:15, Auditorium 11

Free Paper Session

FP 2208 Drug-coated balloons

Moderators: P. Krishnan (New York, NY/US), J. Tacke (Passau/DE)

- 2208.1 Low-dose drug-coated balloon outcome for peripheral arterial disease treatment in females and patients with diabetes mellitus: 12-month subgroup analyses from the ILLUMENATE European randomized clinical trial *H. Schroeder; Berlin/DE*
- 2208.2 Twelve-month results of the RANGER SFA randomized study of the Ranger paclitaxel-coated balloon catheter: diabetic subgroup <u>C. Del Giudice</u>¹, A. Willfort-Ehringer², H. Sievert³, V. Geist⁴, M. Lichtenberg⁵, A. Sauguet⁶, D. Scheinert⁷; ¹Paris/FR, ²Vienna/AT, ³Frankfurt/DE, ⁴Bad Seqeberg/DE, ⁵Arnsberg/DE, ⁶Toulouse/FR, ⁷Leipzig/DE
- 2208.3 Impact of calcium on drug-coated balloon: analysis of the long lesion (>15 cm) and CTO imaging cohorts of the IN.PACT Global study

 F. Fanelli', M. Brodmann², G. Ansel³, T. Zeller⁴, A. Micari⁵, P. Peeters⁶, G. Tepe⁻;

 Rome/IT, ²Graz/AT, ³Columbus, OH/US, ⁴Bad Krozingen/DE, ⁵Cotignola/IT,

 Bonheiden/BE. ¬Rosenheim/DE





2208.4 Twelve-month clinical outcomes after treatment of femoropopliteal lesions with a novel paclitaxel-matrix coated balloon catheter

<u>G. Tepe</u>¹, Ö. Gögebakan², U. Redlich³, J. Tautenhahn³, J. Ricke³, Z. Halloul³, D.-R. Meyer², M. Waliszewski², B. Schnorr², T. Zeller⁴, S. Müller-Hülsbeck⁵, T. Albrecht²; ¹Rosenheim/DE, ²Berlin/DE, ³Magdeburg/DE, ⁴Bad Krozingen/DE, ⁵Flensburg/DE

2208.5 EffPac Trial: Effectiveness of paclitaxel-coated Luminor® balloon catheter versus uncoated balloon catheter in the femoropopliteal artery to prevent vessel restenosis or reocclusion: Primary endpoint and 6 months follow-up

<u>U. Teichgräber</u>¹, M. Thieme², S. Sixt³, T. Zeller⁴, D. Scheinert⁵, E. Blessing⁶, P. von Flotow⁷, K. Brechtel⁸, M. Treitl⁹, M. Lichtenberg¹⁰, R. Aschenbach¹;
¹Jena/DE, ²Sonneberg/DE, ³Hamburg/DE, ⁴Bad Krozingen/DE, ⁵Leipzig/DE,
⁶Karlsbad/DE, ⁷Kusel/DE, ⁸Berlin/DE, ⁹München/DE, ¹⁰Arnsberg/DE

2208.6 Twelve-month outcomes of standard vs. extended usage of DCB: analysis of the IN.PACT Global study

<u>K. Deloose</u>¹, T. Zeller², M. Brodmann³, A. Micari⁴, P. Peeters⁵; ¹Dendermonde/BE, ²Bad Krozingen/DE, ³Graz/AT, ⁴Cotignola/IT, ⁵Bonheiden/BE

16:15-17:05

Satellite Symposia

For the detailed programmes, please refer to page 215.

17:30-18:30, Room 18

Workshop

WS 2301 How to apply for a research grant

2301.1 K.N. Katsanos (London/UK)

2301.2 P.L. Pereira (Heilbronn/DE)

17:30-18:30, Auditorium 10

Workshop

WS 2302 Supra-aortic revascularisation: dissection and tandem/multiple lesions

2302.1 K. Zeleňák (Martin/SK)

2302.2 I. Saatci (Ankara/TR)

Workshop

WS 2303 Cholangiocarcinoma and neuroendocrine metastasis

2303.1 I. Dedes (Thessaloniki/GR)

2303.2 W.S. Rilling (Milwaukee, WI/US)

17:30-18:30, Auditorium 2

Workshop

WS 2304 Postpartum haemorrhage including abnormal placentation

2304.1 L. Ratnam (London/UK)

2304.2 L. Mailli (London/UK)

17:30-18:30, Auditorium 3

Workshop

WS 2305 Fundamentals of TEVAR

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2305.1 T.A. Resch (Malmö/SE)

2305.2 F. Fanelli (Florence/IT)

17:30-18:30, Auditorium 11

Free Paper Session

FP 2306 Peripheral arterial disease

Moderators: A. Buecker (Homburg/DE), A. Holden (Auckland/NZ)

- 2306.1 Thirty-six-month results from the MAJESTIC trial of the Eluvia drug-eluting vascular stent system

 <u>S. Müller-Hülsbeck</u>¹, K.F. Keirse², T. Zeller³, H. Schroe⁴, J. Diaz-Cartelle⁵;

 ¹Flensburg/DE, ²Tienen/BE, ³Bad Krozingen/DE, ⁴Genk/BE,

 ⁵Marlborough, MA/US
- 2306.2 The randomized Freeway Stent Study completed the 12-month followup and favored the use of drug-eluting balloons over plain balloons for the postdilatation of nitinol stents in the SFA and PI segments to lower restenosis rate
 - <u>J. Tacke</u>¹, K.A. Hausegger², S. Müller-Hülsbeck³, H. Schroeder⁴; ¹Passau/DE, ²Klagenfurt/AT, ³Flensburg/DE, ⁴Berlin/DE
- 2306.3 Treatment of calcified iliac stenosis using the shockwave medical Lithoplasty® system to facilitate percutaneous aortic intervention T.J. Brinton¹, U. Illindala², F. Fanelli³; ¹Stanford, CA/US, ²Fremont, CA/US, ³Rome/IT



2306.4 Full cohort 12-month outcomes of the BIOLUX 4EVER trial: treatment options backed by evidence

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<u>K. Deloose</u>¹, P. Peeters², L. Maene³, K.F. Keirse⁴, J.M. Hendriks⁵, M. Bosiers¹; ¹Dendermonde/BE, ²Bonheiden/BE, ³Aalst/BE, ⁴Tienen/BE, ⁵Edegem/BE



2306.5 Primary stenting of the superficial femoral artery in intermittent claudication improves health-related quality of life, ABI, and walking distance: 12-month results of a randomized controlled multicenter trial

H. Lindgren; Helsingborg/SE

2306.6 BioMimics 3D helical stent imparts curvature in calcified vessels and creates swirling flow

P.A. Gaines; Sheffield/UK

17:30-18:30, Room 19

Free Paper Session

FP 2307 GI tract intervention

Moderators: M.K. Glynos (Athens/GR), S. Stojanovic (Novi Sad/RS)



2307.1 Spectrum of fluoroscopy-guided percutaneous diagnostic and treatment procedures via the pancreatic duct percutaneous drainage tract: feasibility and technique

M. Mizandari¹, T. Azrumelashvili¹, N. Habib²; ¹Tbilisi/GE, ²London/UK

2307.2 Percutaneous image-guided main pancreatic duct drainage: indications, technique, and results

M. Mizandari¹, T. Azrumelashvili¹, N. Habib²; ¹Tbilisi/GE, ²London/UK

2307.3 Introduction of a new low-profile gastrostomy tube for percutaneous radiological gastrostomies: experiences in 115 procedures over a 3-year period

<u>T.-O. Petersen</u>, J. Fuchs, B. Maiwald, S. Strocka, T. Kahn, M. Moche; Leipzig/DE

2307.4 Y-90 radioembolization with Occlusafe catheter infusion system in patients with unresectable hepatic metastasis

A. Saltarelli, G. Pelle, D. Bellini, E. Notarianni, V. Pasqualini, R. Cianni;

Latina/IT

2307.5 A novel technique using transhepatic retrograde duodenal stent placement in treating duodenal obstruction

A.A. AlGharras, N. Martínez, N. Molla, D.A. Valenti, K. Muchantef, C. Torres, L.-M.N.J. Boucher, T. Cabrera; Montreal, QC/CA

2307.6 Fluoroscopy-guided dilation of oesophageal strictures in patients with dystrophic epidermolysis bullosa: long-term results

Z. Hussain, S. Kudrnova, S. Ilyas, J.J. Harvey, I. Paraskevopoulos,
A. Diamantopoulos; London/UK

17:30-18:30, Room 20

Free Paper Session

FP 2308 Dialysis access

Moderators: D. Karnabatidis (Patras/GR), D. Savio (Turin/IT)



2308.1 Near-infrared fluorescence imaging of MMP-2 activity as a biomarker of stenosis in AV fistulae

G.J. Nadolski, S. Hunt, T. Gade: Philadelphia, PA/US

- 2308.2 Percutaneous creation of an endovascular arteriovenous fistula (endoAVF): 12-month follow-up and outcome data C.G. Radosa: Dresden/DE
- 2308.3 Patient perspectives on central venous access devices (CVADs) in chemotherapy: a qualitative investigation in the context of a large-scale RCT C. Ryan, H. Hesselgreaves; Glasgow/UK
- 2308.4 Vascular access rescue with endovascular angioplasty using paclitaxel drug-eluting balloons E. Macchi¹, F. Piacentino¹, M. Tozzi¹, M. Franchin¹, E. Duka¹, F. Fontana¹, A.M. Ierardi², C. Fugazzola¹; ¹Varese/IT, ²Milan/IT
- 2308.5 Poor man's thrombectomy is a novel technique for the treatment of thrombosed arteriovenous grafts: 5-year results of 241 cases P.M. Kitrou¹, P. Papadimatos¹, K.N. Katsanos¹, S. Spiliopoulos², N. Christeas¹, D. Karnabatidis¹; ¹Patras/GR, ²Athens/GR
- 2308.6 Prospective single-center observational study investigating angioplasty with paclitaxel-coated balloons for the treatment of failing native arteriovenous fistulae and prosthetic arteriovenous grafts T.M. Steinke: Duesseldorf/DE

17:30-18:00, Auditorium 12

Satellite Symposium

For the detailed programme, please refer to page 215.



Tuesday, September 19

08:30-09:30, Auditorium 1

Expert Round Table

ERT 2501 Traumatic splenic rupture

Coordinator: A. Krajina (Hradec Králové/CZ)

Panellists: S. Breitenstein (Winterthur/CH), H. Hoppe (Bern/CH), C. Nice (Newcastle-upon-Tyne/UK)

08:30-09:30, Auditorium 10

Special Session

SS 2502 Knee osteoarthritis

Moderators: M.R. Sapoval (Paris/FR), C.J. Zech (Basel/CH)

2502.1 Demographics and surgical options

S.M. Tutton (Milwaukee, WI/US)

2502.2 Intra-articular injections

S. Masala (Rome/IT)

2502.3 Neurolysis and intra-articular RF application

D.K. Filippiadis (Athens/GR)

2502.4 Transarterial embolisation

Y. Okuno (Tokyo/JP)

08:30-09:30, Auditorium 2

Special Session

SS 2503 Therapy of claudication (SFA interventions)

Moderators: P. Drescher (Hartland, WI/US), J. Egge (Haugesund/NO)

2503.1 How to overcome SFA lesions: toolbox proposal

T. Rand (Vienna/AT)

2503.2 $\,$ DCB – when, how and why to use

J.P. Schaefer (Kiel/DE)
2503.3 DES or BMS: what is the current evidence

2503.3 DES or BMS: what is the current evidence S. Duda (Berlin/DE)

2503.4 Anything left for SFA treatment – new drugs, new tools?

A. Holden (Auckland/NZ)



European Trainee Forum

ETF 2504 Building an IR career

2504.1 Welcome and introduction to ETF

G.C. Makris (Oxford/UK)

2504.2 Developing your academic career as an IR

M. Szczerbo-Trojanowska (Lublin/PL)

2504.3 Publishing and CVIR

K.A. Hausegger (Klagenfurt/AT)

2504.4 The EBIR exam

O.M. van Delden (Amsterdam/NL)

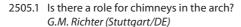
2504.5 Establishing private clinics and clinical entrepreneurship *C.A. Binkert (Winterthur/CH)*

08:30-09:30, Auditorium 3

Lecture Session

LS 2505 Aortic arch

Moderators: C. Ferro (Genoa/IT), T. Kölbel (Hamburg/DE)



2505.2 Open surgery with the frozen elephant trunk M. Shrestha (Hannover/DE)

2505.3 Arch debranching: indications and techniques A. Katsarqyris (Nuremberg/DE)

2505.4 Fenestrated or branched in the arch C. Nienaber (London/UK)

2505.5 How to handle the lusorian artery *B.T. Katzen (Miami, FL/US)*





08:30-13:00, Simulator Gallery

Simulation Training

PTP 4 Principles to practice: education and simulation skills training – Improving outcomes in the femoropopliteal segment

Coordinators: M. Midulla (Valenciennes/FR), J.C. van den Berg (Lugano/CH)

Session organiser: S. Müller-Hülsbeck (Flensburg/DE) Instructors: T. Jahnke (Neumünster/DE), L. Mailli (London/UK), L. Marques (Flensburq/DE), D.K. Tsetis (Iraklion/GR)

PTP 4.1 (group 1):

08:30-09:30 discussion / 09:40-10:40 simulation

PTP 4.2 (group 2):

09:40-10:40 discussion / 10:50-11:50 simulation

PTP 4.3 (group 3):

10:50-11:50 discussion / 12:00-13:00 simulation

09:30-11:00, HDT Room 1

Hands-on Device Training

EMT-HDT 5 Embolisation: materials and tools – Particulate agents

Coordinators: T.J. Kroencke (Augsburg/DE), A.G. Rampoldi (Milan/IT)

09:30-11:00, HDT Room 2

Hands-on Device Training

ST-HDT 1 Stroke thrombectomy

Coordinators: K.A. Hausegger (Klagenfurt/AT), H. van Overhagen (The Haque/NL)

09:30-11:00, HDT Room 3

Hands-on Device Training

TA-HDT 5 Tumour ablation – Alternative techniques and image guidance

Coordinators: G. Tsoumakidou (Strasbourg/FR), P. Wiggermann (Regensburg/DE)

10:00-11:00, Auditorium 2

Fundamental Course

FC 2601 Therapy of arterial GI bleeding (embolisation)



Moderators: M. Das (Duisburg/DE), J.G. Moss (Glasgow/UK)

2601.1 Patient selection

M. Zins (Paris/FR)

2601.2 Optimising angiographic techniques

M. Das (Duisburg/DE)

2601.3 Embolisation techniques and materials

A.M. Ierardi (Varese/IT)

2601.4 Predictors of success and failure O.M. van Delden (Amsterdam/NL)

10:00-11:00, Auditorium 10

Special Session

SS 2602 Update on vertebroplasty



Moderators: G.C. Anselmetti (Turin/IT), P.N.M. Lohle (Tilburg/NL)

2602.1 Update on current literature

W.A. Clark (Ramsgate, NSW/AU)

2602.2 The role of cement (beyond PMMA)

X. Buy (Bordeaux/FR)

2602.3 Augmentation techniques

J. Garnon (Strasbourg/FR)

2602.4 Sacroplasty

K.F. Layton (Dallas, TX/US)

10:00-11:00, Auditorium 1

Expert Round Table

ERT 2603 Diabetic foot

Coordinator: J.A. Reekers (Amsterdam/NL)

Panellists: G. Clerici (Milan/IT), H.I. Manninen (Kuopio/FI), M.G. Manzi (Abano Terme/IT), M. Nieuwdorp (Amsterdam/NL), A. Piaggesi (Pisa/IT)



10:00-11:00, Auditorium 15

Special Session

SS 2604 Establishing an acute intra-arterial stroke service

Moderators: F. Florio (San Giovanni Rotondo/IT), I. Saatci (Ankara/TR)

2604.1 Optimal logistics for a stroke service

M. Ribo (Barcelona/ES)

2604.2 Imaging based decision-making

W.H. van Zwam (Maastricht/NL)

2604.3 From admission to access: how could we speed up? S. Hopf-Jensen (Flensburg/DE)

2604.4 Optimal techniques for revascularisation with the current tools *C.P. Stracke (Essen/DE)*

10:00-11:00, Auditorium 3

Expert Round Table

ERT 2605 Solutions and outcomes for complex aortic pathology



Coordinators: K.P. Donas (Münster/DE), B.T. Katzen (Miami, FL/US)

- 2605.1 When to choose fenestrations and when to choose branches *M. Gargiulo (Bologna/IT)*
- 2605.2 Long-term durability of FEVAR and BEVAR M.P. Jenkins (London/UK)
- 2605.3 When to choose parallel grafts *M.A. Funovics (Vienna/AT)*
- 2605.4 Long-term durability of parallel grafts
 T. Pfammatter (Zurich/CH)

11:30-12:30, Auditorium 15

Special Session

SS 2701 Management of abdominal pelvic trauma



Moderators: M.A. de Gregorio (Zaragoza/ES), M.H.K. Hoffmann (Basel/CH)

- 2701.1 Patient selection and imaging work-up
 - S. Chakraverty (Dundee/UK)
- 2701.2 Solid organ embolisation

A. Bharadwaz (Aarhus/DK)

- 2701.3 Pelvic trauma embolisation
 - P.E. Andersen (Odense /DK)
- 2701.4 Treatment of major arterial injuries

J.P. Schaefer (Kiel/DE)



Fundamental Course

FC 2702 Modern IR clinical practice

Moderators: J.A. Kaufman (Portland, OR/US), F. Orsi (Milan/IT)

2702.1 Education and training in IR

M.J. Lee (Dublin/IE)

2702.2 Pre-assessment and consent

D.K. Filippiadis (Athens/GR)

2702.3 Clinical care in IR

R. Patel (Oxford/UK)

2702.4 Working within an interdisciplinary team

T. de Baère (Villejuif/FR)

11:30-12:30, Auditorium 1

Expert Round Table

ERT 2703 Oligometastatic lung disease: what to choose and when?



Coordinator: A. Adam (London/UK)

Panellists: S. Breitenstein (Winterthur/CH),

M. Fonck-Frayssinet (Bordeaux/FR), L.M. Kenny (Brisbane, QLD/AU),

J. Palussière (Bordeaux/FR), J. Ricke (Magdeburg/DE),

C.T. Sofocleous (New York, NY/US)

11:30-12:30, Auditorium 12

Special Session

SS 2704 Resurgence of carotid stenting

Moderators: K. Mathias (Hamburg/DE), M. Maynar (Santa Cruz de Tenerife/ES)

2704.1 Current evidence

T.J. Cleveland (Sheffield/UK)

2704.2 Patient selection

O. Kizilkilic (Istanbul/TR)

2704.3 Limitation of medical management

G.K. Tsivgoulis (Athens/GR)

2704.4 Technical innovations for carotid stenting

F. Castriota (Cotignola/IT)



Expert Round Table

ERT 2705 Type 2 endoleak prevention and management



Coordinators: K. Deloose (Dendermonde/BE), R. Uberoi (Oxford/UK)

2705.1 Prophylactic embolisation of side branches

M.B. Pitton (Mainz/DE)

2705.2 Procedural sac occlusion

M.W. de Haan (Maastricht/NL)

2705.3 Enlarging sac without visible endoleak

M. Gargiulo (Bologna/IT)

2705.4 Approaches and embolics J.F. Benenati (Miami, FL/US)

11:30-12:30, Auditorium 11

CIRSE Meets

CM 2706 CIRSE meets the European Wound Management Association (EWMA): Standards of wound care – the essentials

Moderators: E. Brountzos (Athens/GR), A. Piaggesi (Pisa/IT)

2706.1 Clinical and imaging assessment of wounds of the lower extremity

M. Collier (Boston/UK)

2706.2 Basics of wound care for IR

M. Collier (Boston/UK)

2706.3 Arterial perfusion to optimise arterial ulcer healing

M. Palena (Abano Terme/IT)

2706.4 Surgical coverage of non-healing ulcers

A. Jawien (Bydgoszcz/PL)

12:30-14:00, HDT Room 1

Hands-on Device Training

EMT-HDT 6 Embolisation: materials and tools – Particulate agents

Coordinators: T.J. Kroencke (Augsburg/DE), A.G. Rampoldi (Milan/IT)

12:30-14:00, HDT Room 2

Hands-on Device Training

ST-HDT 2 Stroke thrombectomy

Coordinators: K.A. Hausegger (Klagenfurt/AT), H. van Overhagen (The Haque/NL)

🔇 e-voting

* EBIR

recommended for EBIR preparation

12:30-14:00, HDT Room 3

Hands-on Device Training

TA-HDT 6 Tumour ablation – Alternative techniques and image guidance

Coordinators: G. Tsoumakidou (Strasbourg/FR), P. Wiggermann (Regensburg/DE)

13:00-14:00

Satellite Symposia

For the detailed programmes, please refer to page 217.

13:15-14:15, News on Stage Area

News on Stage

NoS 2804 Interventional Oncology News on Stage

- 2804.1 Proof of concept of a gene-directed enzyme prodrug therapy with intraarterial delivery of mesenchymal stem cells in a rabbit VX2 hepatic tumor model
 - O. Pellerin, I. Amara, P. Beaune, I. de Waziers, C. Déan, M.R. Sapoval; Paris/FR
- 2804.2 Idarubicin-loaded DC Bead® for chemoembolization of HCC: interim analysis of IDASPHERE II (FFCD 1307) multicenter single-arm phase II trial B. Guiu¹, P. Chevallier², P. Merle³, M.-A. Pierredon Foulongne¹, A. Rode³, A. Bouvier⁴, O. Guillaud³, P.-J. Valette⁵, J. Dumortier³, J.-P. Joly⁶, E. Nguyen Khac⁶, T. Yzet⁶, M. Lartournerie⁷, J.-C. Barbare⁶, M. Boulin⁷, S. Manfredi⁷; ¹Montpellier/FR, ²Nice/FR, ³Lyon/FR, ⁴Angers/FR, ⁵Pierre Benite/FR, ⁶Amiens/FR, ⁷Dijon/FR
- 2804.3 Prospective clinical and pharmacological evaluation of the Delcath System's second generation (GEN2) hemofiltration system in patients undergoing percutaneous hepatic perfusion with melphalan T.S. Meijer, E.M. De Leede, M.C. Burgmans, C.H. Martini, F.G.J. Tyl, J. Vuyk, A.R. van Erkel, C.J.H. van der Velde, E. Kapiteijn, A.L. Vahrmeijer; Leiden/NI
- 2804.4 Chemoembolization adopting polyethylene glycol drug-eluting embolics loaded with doxorubicin for the treatment of hepatocellular carcinoma
 - C. Aliberti¹, R. Carandina¹, D. Sarti², E. Pizzirani¹, G. Ramondo¹, L. Mulazzani², G. Fiorentini²: ¹Padova/IT. ²Pesaro/IT



2804.5 Pharmacokinetic profile of irinotecan in patients with liver metastases from colorectal cancer treated with unilobar or bilobar drug-eluting microsphere chemoembolization

<u>G. Maleux</u>¹, H. Prenen¹, T.K. Helmberger², U. Martens³, P.L. Pereira³; ¹Leuven/BE, ²Munich/DE, ³Heilbronn/DE

2804.6 Transarterial chemoembolization of hepatocellular carcinoma with $100\pm25-\mu m \ and \ 200\pm25-\mu m \ Lifepearl \ microspheres: short-term follow-up and safety profile$

<u>R. Argirò</u>¹, C. Cirelli¹, M. Corona¹, P. Lucatelli², F. Fanelli¹, C. Catalano¹, M. Bezzi¹: ¹Rome/IT. ²Siena/IT

14:30-15:00, Auditorium 1

Honorary Lecture

HL 2901 Josef Roesch Lecture

Moderator: E. Brountzos (Athens/GR) Laudation: G. Bartal (Kfar-Saba/IL)

2901.1 Taming the systemic effects of interventional oncology through mechanistic study

N. Goldberg (Jerusalem/IL)

15:00-16:00, Auditorium 1

Hot Topic Symposium

HTS 2902 Prostate artery embolisation: ready for prime time?

Moderators: E. Brountzos (Athens/GR), J.M. Pisco (Lisbon/PT)

2902.1 Current evidence

L. Hechelhammer (St. Gallen/CH)

2902.2 Technique

F.C. Carnevale (São Paulo/BR)

2902.3 Patient selection: which are the most suitable patients

J. Golzarian (Minneapolis, MN/US)

2902.4 Challenges and obstacles

N. Hacking (Southampton/UK)

14:30-15:30. Auditorium 15 **Satellite Symposium**

For the detailed programme, please refer to page 218.

14:30-15:30, Auditorium 3

Expert Case Discussion

ECD 2903 A bad day in the angio suite - EVAR



Coordinators: J. Lammer (Vienna/AT), E. Verhoeven (Nuremberg/DE)

Panellists: K. Donas (Münster/DE), A. Holden (Auckland/NZ), B.T. Katzen (Miami, FL/US), F.E. Vermassen (Ghent/BE)

15:30-16:00, Auditorium 3

Expert Case Discussion

ECD 2904 Abdominal aorta: cases from Egypt



Coordinators: S.O. Kerdawi (Cairo/EG), E. Verhoeven (Nuremberg/DE)

2904.1 Short neck

A. Gamal (Cairo/EG)

2904.2 TAVI EVAR

S.O. Kerdawi (Cairo/EG)

16:15-17:15, Auditorium 10

Workshop

WS 3001 Prostate artery embolisation

3001.1 A. Kovács (Bonn/DE)

3001.2 A. Massmann (Homburg/DE)

16:15-17:15, Room 20

Workshop

WS 3002 IR treatment for renal stone disease and transplant

3002.1 T.J. Bryant (Southampton/UK)

3002.2 J.H. Peregrin (Prague/CZ)



16:15-17:15, Room 19

Workshop

WS 3003 Critical appraisal of a publication

3003.1 J.A. Reekers (Amsterdam/NL)

3003.2 M.J. Lee (Dublin/IE)

16:15-17:15, Auditorium 12

Workshop

WS 3004 Chronic mesenteric ischaemia

3004.1 J. Raupach (Hradec Králové/CZ)

3004.2 M. Cariati (Milan/IT)

16:15-17:15, Auditorium 3

Lecture Session

LS 3005 Complication management

Moderators: J.D. Blankensteijn (Amsterdam/NL), R.G. McWilliams (Liverpool/UK)

- 3005.1 Acute complications of TEVAR for TBAD
 - A. Chavan (Oldenburg/DE)
- 3005.2 Risk reduction of paraplegia in TEVAR and branched EVAR J. Lammer (Vienna/AT)
- 3005.3 How to manage infected endografts A.M. Lazaris (Athens/GR)
- 3005.4 Aorto-enteric fistula: diagnosis and management
 - F.E. Vermassen (Ghent/BE)
- 3005.5 Embolisation for type 1 endoleak

R.A. Morgan (London/UK)

16:15-17:15. Auditorium 11

Free Paper Session

FP 3006 Super Tuesday

Moderators: C.A. Binkert (Winterthur/CH), F. Fanelli (Florence/IT)

3006.1 Bariatric embolization of arteries for treatment of obesity (BEAT obesity): mid-to-long-term safety and efficacy data C.R. Weiss¹, J. Vairavamurthy¹, O. Akinwande², L. Cheskin¹, B. Holly¹, K. Hong¹, A. Fischman³, R. Patel³, F. Nwoke¹, E.J. Shin¹, H. Ziessman¹, T. Moran¹, D.L. Kraitchman¹, A. Arepally⁴; ¹Baltimore, MD/US, ²St. Louis, MO/US, ³New York, NY/US, ⁴Atlanta, GA/US

3006.2 Efficacy and safety of PAE: results from the UK-ROPE registry N. Hacking¹, A.F. Ray²; ¹Southampton/UK, ²Cardiff/UK



3006.3 Four-year results of the IN. PACT SFA trial comparing a drugcoated balloon catheter with an uncoated balloon catheter in femoropopliteal lesions

P. Krishnan; New York, NY/US

3006.4 BATTLE trial: 6-month outcomes in a multi-center randomized trial comparing MISAGO with ZILVER PTX for the treatment of intermediate length femoropopliteal lesions Y. Gouëffic: Nantes/FR

3006.5 Safety and performance of the Shockwave Medical Lithoplasty® System in treating calcified, stenotic, infrapopliteal arteries T.J. Brinton¹, A. Holden², U. Illindala³, T. Zeller⁴, M. Brodmann⁵; ¹Stanford, CA/US, ²Auckland/NZ, ³Fremont, CA/US, ⁴Bad Krozingen/DE, 5Graz/AT

3006.6 Randomized, prospective comparison of radial versus femoral access in transarterial liver embolization: BEST liver access trial M. Guimaraes, J.C. Camacho, R. Yamada; Charleston, SC/US

17:30-18:30, Auditorium 10

Workshop

WS 3101 Varicocele and ovarian vein embolisation

3101.1 A. Basile (Catania/IT)

3101.2 F. Karnel (Vienna/AT)



17:30-18:30, Auditorium 11

Workshop

WS 3102 IR treatment after liver transplant

3102.1 A. Moelker (Rotterdam/NL)

3102.2 R. Argirò (Rome/IT)

17:30-18:30, Room 18

Workshop

WS 3103 How to write a scientific article

3103.1 K.A. Hausegger (Klagenfurt/AT)

3103.2 D. Vorwerk (Ingolstadt/DE)

17:30-18:30, Room 20

Free Paper Session

FP 3104 Neuro and carotid intervention

Moderators: R. Gandini (Rome/IT), I. Saatci (Ankara/TR)

3104.1 Achievable aspiration flow rates using a large balloon guide catheter during carotid artery stenting <u>T. Schubert</u>¹, L. Rivera-Rivera², C.M. Strother², A. Roldan², D. Consigny², L. Leitner¹, C.J. Zech¹, M. Takes¹, B. Aagaard-Kienitz²; ¹Basel/CH,

²Madison, WI/US



3104.2 Tandem therapy in bilateral intraocular retinoblastoma

<u>S.S. Kulkarni</u>, S.N. Panbude, N.S. Shetty, A.M. Polnaya, R.S. Chivate, S. Qureshi, G. Chinnaswamy, N. Shettye, M.H. Thakur; Mumbai/IN

3104.3 Investigation of plaque protrusion during carotid artery stenting on intravascular ultrasound

<u>K. Takayama</u>¹, K. Myochin¹, T. Wada², M. Kotsugi¹, Y. Yoshiyama³, S. Kurokawa¹, K. Kichikawa³; ¹Yao/JP, ²Nara/JP, ³Kashihara/JP

3104.4 PulseRider stent-assisted coiling of very wide-neck cerebral aneurysms: a preliminary single-center experience

P.P. Goffette, M. AbdalKader, P. Finet, G. Ribeiro Vaz, P. Montigny,

<u>P.P. Goffette</u>, M. AbdalKader, P. Finet, G. Ribeiro Vaz, P. Montigny, C. Raftopoulos; Brussels/BE

3104.5 Intraprocedural vessel damage during mechanical thrombectomy for acute ischemic stroke: technical details and clinical significance in a multi-center study

<u>C. Parra-Fariñas</u>, A. Tomasello Weitz, P. Cardona Portela, M.Á. de Miquel, M. Meritxell Gomis Cortina, C. Castaño Duque, J. Blasco Andaluz, X. Urra Nuin, M. Ribo Jacobi; Barcelona/ES

3104.6 Carotid artery stenting: results and analysis of a single-center experience after 20 years

R. Rosati, F. Fanelli, P.G. Nardis, R. Cao, F. Basilico, C. Catalano; Rome/IT

17:30-18:30, Room 19

Free Paper Session

FP 3105 Oncology 2

Moderators: Y. Arai (Tokyo/JP), C.G. Trumm (Munich/DE)



3105.1 No-touch multi-bipolar radiofrequency ablation of superficial subcapsular hepatocellular carcinoma within Milan criteria: effectiveness and tolerance

A. Petit¹, O. Seror¹, A. Hocquelet², E. Varin¹, O. Sutter¹; ¹Bondy/FR, ²Pessac/FR

- 3105.2 CT-guided high-dose rate brachytherapy in combination with previous transarterial chemoembolization in patients with unresectable hepatocellular carcinoma D. Schnapauff¹, B. Tegel¹, M. Powerski², F. Collettini¹, B. Hamm¹, B. Gebauer¹; ¹Berlin/DE, ²Magdeburg/DE
- 3105.3 Fusion imaging guidance to improve conspicuity of small hepatocellular carcinoma: proposal of a new feasibility score C. Gazzera, M. Calandri, G. Isolato, M. Gerboni, P. Fonio; Turin/IT
- 3105.4 Ablation of colorectal liver metastases by irreversible electroporation: final results of the COI DFIRF-2 trial L.G. Vroomen, A.H. Ruarus, H.J. Scheffer, M.R. Meijerink; Amsterdam/NL
- 3105.5 The effects of irreversible electroporation therapy (IRE) on embolisation materials using validated vegetal model: an experimental study
- 3105.6 Microwave ablation in the proximity of surgical clips: does it influence the ablation zone?

P. Chan, C. McLean, G.S. Goh; Melbourne, VIC/AU

M. Liebl, M.F. Schulze-Hagen, M. Zimmermann, F. Pedersoli, C.K. Kuhl, P. Bruners, P. Isfort; Aachen/DE



17:30-18:30, Auditorium 12 **Free Paper Session**

FP 3106 TEVAR

Moderators: A. Chavan (Oldenburg/DE), M. Schoder (Vienna/AT)



3106.1 Initial experience with the transapical access for TEVAR A.H. Mahnken, M. Irasusi, W. Hundt, R.G. Moosdorf; Marburg/DE

- 3106.2 Mid-term results of endovascular total arch repair using in-situ fenestration TEVAR for arch TAA and chronic type A aortic dissection *Y. Katada; Tokyo/JP*
- 3106.3 Quality of life in patients with Stanford type B aortic dissection after endovascular repair

 Y. Bi, X.-W. Han; Zhengzhou/CN
- 3106.4 Long-term surveillance and indications for secondary interventions after primary TEVAR in patients with complicated type B aortic dissection (TBAD)

 G. M. Richter, C. M. Sommer, M.-J. Winter, A. Hatonn, P. Kurz, T. Trabold
 - <u>G.M. Richter</u>, C.M. Sommer, M.-L. Winter, A. Hatopp, P. Kurz, T. Trabold, H. Meissner, T. Hupp; Stuttgart/DE
- 3106.5 The need for further endovascular repair after surgical arch replacement for type A aortic dissections G.M. Richter, <u>T. Hupp</u>, W. Hemmer, M. Liebrich, S. Erpenbach, H. Meissner, P. Kurz; Stuttgart/DE
- 3106.6 Long-term follow-up with custom-made endografts (b-EVAR/f-EVAR) for endovascular repair of thoraco-abdominal aneurysm and type B dissection: a single-centre experience

 P. Lucatelli, G. Tommasino, M. Cini, A. Benvenuti, G. Guaccio, E. Neri, C. Ricci;
 - Siena/IT

Wednesday, September 20

08:30-09:30, Auditorium 10

Special Session

SS 3201 Embolotherapy for HCC

Moderators: Y. Arai (Tokyo/JP), A.N. Chatziioannou (Athens/GR)

3201.1 Bland embolisation

K.T. Brown (New York, NY/US)

3201.2 Conventional TACE

P. Chevallier (Nice/FR)

3201.3 Drug-eluting beads TACE

I. Bargellini (Pisa/IT)

3201.4 Radioembolisation

J.I. Bilbao (Pamplona/ES)

08:30-09:30, Auditorium 15

Expert Case Discussion

ECD 3202 Challenging drainages

Coordinator: R. Uberoi (Oxford/UK)

Panellists: M.C. Burgmans (Leiden/NL), R.L. Cazzato (Strasbourg/FR), T. Sabharwal (London/UK)

10:00-11:00, Auditorium 10

Special Session

SS 3301 Treatment of peripheral vascular malformation

Moderators: T. Ishiguchi (Nagakute/JP), L. Machan (Vancouver, BC/CA)

3301.1 Current classification

W.A. Wohlgemuth (Halle/DE)

3301.2 Low-flow malformation

S.C. Frevert (Copenhagen/DK)

3301.3 High-flow malformation

M. Bratby (Oxford/UK)

3301.4 Complex malformations and associated syndromes

A.M. Barnacle (London/UK)





10:00-11:00, Auditorium 15

Expert Round Table

ERT 3302 Decision-making in acute stroke revascularisation

Coordinator: D. Vorwerk (Ingolstadt/DE)

Panellists: A. Berlis (Augsburg/DE), K.A. Hausegger (Klagenfurt/AT), M. Ribo (Barcelona/ES), W.H. van Zwam (Maastricht/NL), K. Zeleňák (Martin/SK)

11:30-12:30, Auditorium 15

MM 3401 Morbidity & Mortality Conference



Coordinators: D.K. Tsetis (Iraklion/GR), R. Uberoi (Oxford/UK)

- 3401.1 A case of migration of Ethylene-vinyl alcohol copolymer after embolization for renal PSA C. Floridi (Milan/IT)
- 3401.2 Fibroid expulsion: complication or benefit? V. Berczi (Budapest/HU)
- 3401.3 Vertebral augmentation: when cement is not enough A.D. Kelekis (Athens/GR)
- 3401.4 M&M Case 4 L.P. Lawler (Dublin/IE)
- 3401.5 Mechanical thrombectomy in stroke: worst case scenario D. Vorwerk (Ingolstadt/DE)
- 3401.6 Just one more... J. Vrazas (Melbourne/AU)

Aortic Intervention

- P-1 Incomplete abdominal aorta block with a small balloon in patients with dangerous placenta previa

 Z.-Y. Wu; Zhengzhou/CN
- P-2 Posterior circulation evaluation before and after TEVAR using ultra-low-dose whole-brain computed tomography perfusion <u>J. Wu; Changsha/CN</u>
- P-3 Transcatheter closure of mitral paravalvular leak by the antegrade approach with an arteriovenous loop in patients with and without mechanical aortic valve prostheses

 <u>J. Pu</u>, W. Wu, L. Huang; Beijing/CN
 WITHDRAWN
- P-4 Treatment of type II endoleaks with a novel agent, precipitating hydrophilic injectable liquid (PHIL)

 <u>A.E. Helmy</u>, N. Shaida; Cambridge/UK

 WITHDRAWN
- P-5 Embolization of type I endoleaks after EVAS: technical considerations, success rates, and outcomes

 V. Pavlidis, S. Ameli-Renani, R.A. Morgan; London/UK
- P-6 Mid-term outcomes of type I endoleak embolizations V. Pavlidis, <u>S. Ameli-Renani</u>, R.A. Morgan; London/UK
- P-7 Treatment of cervical ectopic pregnancy using uterine artery embolization along with the administration of methotrexate

 <u>A. Dimitriade</u>, B. Dorobat, P.R. Nechifor, A. Carp, G. lana; Bucharest/RO
- P-8 Mitral paravalvular leak closure by the antegrade percutaneous approach with an arteriovenous wire loop through a mechanical aortic valve prosthesis W. Wu, J. Pu; Beijing/CN
- P-9 Percutaneous aortic fenestration: why, when, and how to do it <u>U.G. Rossi</u>¹, P. Torcia¹, A.M. lerardi¹, F. Petrocelli², P. Rigamonti¹, L.C. Pescatori¹, G. Carrafiello¹, M. Cariati¹; ¹Milan/IT, ²Genoa/IT
- P-10 Diagnosis and treatment of aortoesophageal fistula due to foreign body ingestion: a single-center experience

 J. Wu; Changsha/CN



P-11 Cutaneous fistolization of an ascending aortic pseudoaneurysm after Bentall surgery: endovascular repair using the Amplatzer muscular septal occluder device *M.A. Tipaldi, F. Laurino, L. Mascagni, M. Cappucci, G. Orgera, M. Rossi; Rome/IT*

- P-12 Visceral and lower extremity malperfusion treated by endovascular fenestration and stenting in a Marfan syndrome patient with type A dissection

 A.S. Bhakoo, M. Khaja, A.S. Jo, K. Cooper, D.M. Williams; Ann Arbor, MI/US
- P-13 Abdominal aortic thrombosis: an unusual cause of renal failure in a baby J.J. Harvey, N. Karunanithy; London/UK
- P-14 Celiac artery embolization originating from false lumen and aortic stent grafting in type A dissection after total arch replacement with elephant trunk M. Equchi, Y. Tamura, O. Ikeda, Y. Yamashita; Kumamoto/JP
- P-15 Interventional management of perforated aortic root replacement conduit A. Awwad¹, A. Shah¹, G. Pollock², G. Ramjas¹; ¹Nottingham/UK, ²Derby/UK

Biliary intervention

- P-16 Risk factors for biliary infection after percutaneous transhepatic biliary stenting in malignant biliary obstruction <u>H.-F. Zhou</u>, J. Lu, H.-D. Zhu, G.-J. Teng; Nanjing/CN
- P-17 Efficacy of double stenting of biliary tree in patients with Klatskin tumor using the stent-in-stent (SIS) technique: single vs. double access

 L.C. Pescatori, U.G. Rossi, P. Torcia, P. Rigamonti, R. Foà, A.M. Ierardi, G. Carrafiello, M. Cariati; Milan/IT
- P-18 Percutaneous intraductal radiofrequency ablation plus metal stent implantation in the management of malignant bilioenteric anastomosis stricture post-choledochojejunostomy

 W. Yu, F. Lian, C. Wei, L. Shen, Y.M. Liu, L. Jiaping; Guangzhou/CN
- P-19 Percutaneous metallic stent placement for palliative management of malignant biliary hilar obstruction

 <u>D.J. Shim</u>¹, D.I. Gwon², G.-Y. Ko², J.H. Shin², H.K. Ko², J.H. Kim², J.W. Kim¹, H.-K. Yoon², K.-B. Sunq²; 'Incheon/KR, 'Seoul/KR

- P-20 Percutaneous management of benign biliary enteric anastomotic strictures after iatrogenic bile duct injuries N. AlQamari¹, M.B.H. Chaudhry¹, R. Sayani¹, R.S. Hamid², M. Azeemuddin¹; ¹Karachi/PK, ²Muscat/OM
- P-21 Treatment variables associated with improved long-term outcomes in patients receiving percutaneous biliary drainage for benign anastomotic biliary strictures W.S. Lindquester, J.D. Prologo, E.A. Krupinski, G.L. Peters; Atlanta, GA/US
- P-22 Investigation of percutaneous interventional treatments for biliary complications after liver transplantation L.M. An, H. Wang, J. Luo, Z. Jiang; Guangzhou/CN
- P-23 Long-term results of percutaneous biliary balloon dilatation and sequential upsizing of silastic transanastomotic stents for benign hepaticojejunostomy strictures: a tertiary care centre experience K.N. Nagabhushan, J.R. Singh, M. Kumar, S. Kumar; Hyderabad/IN
- P-24 Biliary percutaneous transluminal forceps biopsy using the "cross push-hold" technique: results in 50 patients with suspected malignant biliary obstruction P.E. Huespe, M. Czerwonko, O. Mazza, J. Pekolj, S.H. Hyon; Buenos Aires/AR
- P-25 Percutaneous transcholecystic common bile duct stone removal via percutaneous cholecystostomy and cystic duct cannulation: technical outcomes and factors influencing the result in 112 patients G.-S. Jung, J.H. Yun, J.G. Park, B.-H. Park; Busan/KR
- P-26 Percutaneous cholecystostomy for acute acalculous cholecystitis: clinical outcomes of 271 patients D.I. Gwon, Y.J. Jo, J.J. Shim, K.W. Yoon, S.M. Lee, G.-Y. Ko; Seoul/KR
- P-27 Percutaneous extraluminal recanalization of bile duct anastomosis obstruction after liver transplantation H.G. Lee, E. Kim, J.S. Oh, H.J. Chun, B.G. Choi; Seoul/KR
- P-28 Diagnostic yield of percutaneous transhepatic biliary biopsy forceps in the diagnosis of obstructive jaundice T. Gordon, A. Walker, N. Masson; Edinburgh/UK
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 A. Star, G.J. Nadolski, S.O. Trerotola; Philadelphia, PA/US
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 V. Rachapalli¹, M. Palaniswamy¹, D. Thiruchunapalli², S. Inuganti², S. Chappiidi³,

 M. Uthappa¹; ¹Bangalore/IN, ²Chennai/IN, ³Hyderabad/IN
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 <u>A. Pellegrin¹</u>, G. Brondani², E. Fumolo², M. Sponza¹; ¹Udine/IT, ²Latisana/IT
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- Y. Watanabe, T. Fukuda, H. Matsuda, A. Kono, K. Kiso, Y. Morita; Suita, Osaka/JP
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 M. Storck¹, P. Reimer¹, T. Nolte², M. Tenholt³, L. Maene⁴, G. Maleux⁵, D. Scheinert⁶;

 ¹Karlsruhe/DE, ²Bad Bevensen/DE, ³Mannheim/DE, ⁴Aalst/BE, ⁵Leuven/BE, ⁶Leipziq/DE
- P-241 Large-diameter (≥29 mm) proximal aortic necks are associated with increased complication rates after EVAR for AAA

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- P-243 The role of intraoperative carbon dioxide automated angiography in the detection of type II endoleaks during EVAR

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 D. Hildebrand¹, J. Maskova¹, P.M. Bungay², C. MacLeod¹, P. Bachoo¹; ¹Aberdeen/UK,

 ²Derby/UK
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 A.S. Jo, K. Cooper, A.S. Bhakoo, M. Khaja, N. Dasika; Ann Arbor, MI/US
- P-263 Two cases of endovascular aortic repair for abdominal aortic branch avulsion caused by blunt trauma

 <u>K. Matsushiro</u>¹, K. Uotani¹, A. Hamanaka¹, Y. Yamasaki¹, E. Idaka¹, K. Obana¹,

 T. Kushima¹, T. Sugimoto¹, K. Sugimoto²; Sumoto/JP, ²Kobe/JP
- P-264 Abdominal aortic aneurysm involving bilateral iliac arteries ruptured to IVC causes acute right heart failure

 <u>Y. Ning</u>, X. Pu, X. Huang, L. Huang; Beijing/CN

- P-265 Hemoptysis: aortic diseases should not be ignored Y. Ning, X. Pu, X. Huang, L. Huang; Beijing/CN
- P-266 Endovascular repair of an ascending aorta-penetrating ulcer with a custom-made thoracic stentgraft: a case report T. Kratimenos, D. Tomais, N. Baikoussis, M. Argiriou; Athens/GR
- P-267 Hypogastric type-2 endoleak embolization via transgluteal artery approach using onyx embolic agent P.G. Nardis, F. Fanelli, M. Corona, R. Rosati, M. Bezzi, C. Catalano; Rome/IT
- P-268 Transradial coil and liquid embolization of complex type II endoleaks M. Hsu, A. Fischman; New York, NY/US
- P-269 Treatment of type II endoleak after TEVAR causing hemoptysis via direct transthoracic puncture S. Tsuchiya, A. Saiga, A. Nishiyama, Y. Kubota, T. Horikoshi, T. Uno; Chiba/JP

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- P-270 Monitoring non-invasive aneurysm sac pressure after endovascular aortic aneurysm repair C. Spink¹, W. Krautschneider¹, B. John¹, D. Schröder¹, R. Fischbach², M. Braunschweig², J.-H. Buhk¹, G. Adam¹, A. Koops¹; ¹Hamburg/DE, ²Dresden/DE
- P-271 Development of a perfusion system using indwelling catheter to reserve hepatic arterial flow after coil embolization of CHA for the treatment of postoperative hemorrhage after pancreaticoduodenectomy H. Kondo¹, Y. Tanahashi¹, M. Yamamoto¹, H. Kuwamura¹, T. Yamamoto¹, T. Yokoyama¹, T. Sugawara¹, S. Goshima², H. Oba¹, S. Furui¹; ¹Tokyo/JP, ²Gifu/JP
- P-272 Paclitaxel quantification and transmural distribution in three different types of arteries: carotid, iliac and coronary C. Lahuerta, S. Rodriguez, J.A. Guirola, C. Serrano, M.A. de Gregorio; Zaragoza/ES
- P-273 Toward a new animal model of critical limb ischemia C. Del Giudice, G. Ifergan, G. Goudot, V. Bellamy, E. Messas, O. Clement, P. Bruneval, P. Menasché, M.R. Sapoval; Paris/FR
- P-274 In vitro evaluation of radiopacity of contrast-loaded superabsorbent polymer microspheres (SAP-MSs) A. Narita, T. Yamamoto, S. Ikeda, A. Kitagawa, Y. Izumi, M. Takeda, M. Hagihara, K. Suzuki, T. Ota, T. Ishiquchi; Nagakute/JP



P-275 A 6.5-Fr guiding catheter to carry a multiple microdevice system using a single access route: an experimental study

J. Otaka, T. Saguchi, Y. Takara, T. Moriya, N. Shirta, D. Yunaiyama, K. Saito, T. Kouichi; Tokyo/JP

- P-276 A common woodchuck (Marmota monax) as a model for hepatic embolization D.L. Woods, W. Pritchard, S.A. Leonard, J. Esparza, I. Bakhutashvili, A. Mikhail, E. Levy, V. Krishnasamy, J. Karanian, B.J. Wood; Bethesda, MD/US
- P-277 Ozonated saline is effective in treating VX2 tumor in rabbits J. Yang, Q. Ma; Shanghai/CN
- P-278 Parameters for stable water-in-oil Lipiodol®-based emulsion for liver transarterial chemoembolization

 <u>F. Deschamps'</u>, T. Isoardo², L. Tselikas', E. Fattal², A. Paci', L.M. Mir¹, N. Huang²,
 T. de Baère¹, L. Moine²; 'Villejuif/FR, 'Chatenay Malabry/FR
- P-279 Development of a radiopaque thermoresponsive hydrogel for intratumoural drug delivery

 S.M. Rossi', T.É. Murray', M.J. Lee', G.P. Duffy', H.M. Kelly'; 'Dublin/IE, 'Galway/IE
- P-280 Radiofrequency ablation with cisplatin infusion through an internally cooled perfusion electrode: an in vitro experimental study in bovine liver J.W. Yi, H.P. Hong; Seoul/KR
- P-281 Irreversible electroporation of the liver tissue near the gallbladder wall: histopathologic changes and imaging findings in a pig model S. Schotten, F. Jungmann, R. Kloeckner, A. Schad, C. Düber, M.B. Pitton; Mainz/DE
- P-282 Intraoperative high-resolution ultrasound, including CEUS (I-HRUS-CEUS), before, during, and after microwave ablation (MWA) of the liver: value in treatment planning and control

 <u>T.D. Do</u>¹, T.L. Gockner², P. Flechsig¹, K. Holzer¹, A. Harms¹, D. Vollherbst¹, H.U. Kauczor¹, T. de Baère³, P.L. Pereira⁴, C.M. Sommer¹; ¹Heidelberg/DE, ²Mainz/DE, ³Villejuif/FR, ⁴Heilbronn/DE
- P-283 Evaluation of a novel needle placement system for CT-guided liver ablation using an anthropomorphic phantom

 <u>W.J. Heerink</u>¹, M. Arnolli², R. Vliegenthart¹, J.P. Pennings¹, M. Oudkerk¹, K.P. de Jong¹;

 ¹Groningen/NL, ²Enschede/NL
- P-284 Preoperative portal vein embolization and percutaneous intrahepatic split by ablation: feasibility and safety of radiological stage 1 ALPPS

 <u>A. Lunardi</u>, R. Cervelli, C. Lombardo, I. Bargellini, L. Crocetti, U. Boggi, D. Caramella, R. Cioni; Pisa/IT

- P-285 Microwave ablation combined with direct current application: influences on ablation temperature and volume in an ex-vivo study

 M.F. Schulze-Hagen, M. Zimmermann, M. Liebl, C.K. Kuhl, P. Bruners, P. Isfort;

 Aachen/DE
- P-286 Thermoablation of sarcomatous metastases in the liver: a case series <u>M. Zamir</u>, E. Spyropoulou, R. Jones, C. Benson, N. Khan, J. McCall, N.I. Fotiadis; London/UK
- P-287 The transradial versus transfemoral approach for hepatic chemoembolization: intrapatient prospective single-center pilot study

 <u>R. Iezzi</u>, G. Coppola, A. Posa, F. Carchesio, A. Gasbarrini, R. Manfredi, C. Colosimo;

 Rome/IT
- P-288 Imaging of woodchucks (Marmota monax) with hepatocellular carcinoma and normal woodchunks: foundation for image-based therapy development <u>W. Pritchard</u>, D.L. Woods, J. Esparza, S.A. Leonard, A. Partanen, N. Farr, I. Bakhutashvili, J. Karanian, B.J. Wood; Bethesda, MD/US
- P-289 Effective dose calculations for fluoroscopy-guided pediatric abdominal interventions using Rando-Alderson phantoms

 M. Wildgruber¹, R. Mueller-Wille², H. Goessmann², W. Uller², W.A. Wohlgemuth²;

 1/Münster/DE, 2Regensburg/DE
- P-290 Improvement of AAV-mediated liver transduction efficacy by regional administration in Macaca fascicularis

 M. Páramo, J.I. Bilbao, N. Zabaleta, D. Salas, J. Prieto, G. González Aseguinolaza;
 Pamplona/ES
- P-291 Fiber optic sensors for temperature monitoring during radiofrequency liver ablation: in vivo animal trials

 <u>F. Giurazza</u>, G. Frauenfelder¹, C. Massaroni¹, P. Saccomandi², E. Schena¹; ¹Rome/IT,

 ²Strasboura/FR
- P-292 Thermometry based on computed tomography images during microwave ablation: ex vivo trials on porcine liver

 <u>F. Giurazza¹</u>, G. Frauenfelder¹, C. Massaroni¹, P. Saccomandi², E. Schena¹; ¹Rome/IT,

 2Strasbourg/FR
- P-293 The effect of TIPS on platelet clearance in patients with liver cirrhosis <u>J.-B. Zhao</u>; Guangzhou/CN
- P-294 Effects of transjugular intrahepatic portosystemic shunts on platelet activation and change in platelet count J.-B. Zhao; Guangzhou/CN



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- P-296 Use of radial access in the Thiel cadaveric flow model for training in endovascular interventions

 M. Salsano, H.M. McLeod, R. Duncan, S.Z. Matthew, J.G. Houston; Dundee/UK
- P-297 Paediatric interventional management of a primary aortoenteric fistula (PAEF) A. Awwad, R. O'Neill, W. Tennant, <u>S. Travis</u>; Nottingham/UK
- P-298 Simulation of endovascular embolization for visceral artery aneurysms with 3D-printed hollow models

 E. Shibata, H. Takao, S. Amemiya, O. Abe, K. Ohtomo; Tokyo/JP
- P-299 Absolute ethanol ablation of a hepatocellular carcinoma tumor using intracardiac echo (IVUS/ICE) monitoring

 H. Aryafar, T.B. Kinney; San Diego, CA/US
- P-300 Covered endoprothesis to re-establish patency of a neo external auditory canal M. Guerrero Hernandez, R. García Buen-Abad, B.V. Granados; Mexico City/MX
- P-301 First endovascular retrieval of the CardioMEMS Heart Failure System J.J. Mahn, J.F.B. Chick; Ann Arbor, MI/US

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- P-302 Endovascular management of pancreatitis-related bleeding: a single-center experience

 S. Kumar, J. Singh, N. Reddy, G.V. Rao, M. Kumar, K.N. Nagabhushan; Hyderabad/IN
- P-303 Direct percutaneous puncture and embolization of visceral pseudoaneurysm: safety and clinical efficacy S. Kumar, J. Singh, N. Reddy, G.V. Rao, K.N. Nagabhushan, M. Kumar; Hyderabad/IN
- P-304 Arterial embolization before reconstructive gastroplasty

 <u>M. Vásquez Veloza</u>, D. Jiménez Restrepo, R. García Marcos, D. Pérez Enguix, M. Cifrian

 Perez, J.J. Martínez Rodrigo; Valencia/ES
- P-305 Complications following radiologically inserted gastrostomy in patients with head and neck cancer

 <u>D.S. Poon</u>, V.G. Helyar, P. Mather, E. Gilbert, N. Mir, R. Donnelly, A. Diamantopoulos,
 L. Monzon; London/UK

- P-306 Usefulness of the vascular closure device for closure of the gastrostomy opening <u>J.H. Hwang</u>¹, H.R. Kim², S.H. Paik³, S.-J. Cho⁴, E. Jung¹, S.B. Cho¹; ¹Seoul/KR, ²Donghae-si/KR, ³Bucheon/KR, ⁴Chuncheon-si, Gangwon-do/KR
- P-307 Percutaneous closure for gastrostomy opening using suture-mediated vascular closure device in a swine model

 S.B. Cho¹, E. Jung¹, S.-J. Cho², S.H. Paik³, H.R. Kim⁴, J.H. Hwang¹; ¹Seoul/KR,

 ²Chuncheon-si, Gangwon-do/KR, ³Bucheon/KR, ⁴Donghae-si/KR
- P-308 Disconnected pancreatic duct syndrome: occlusion with n-butyl-cyanoacrylate <u>M. Vásquez Veloza</u>, R. García Marcos, V. Saiz Pachés, M. Cifrian Perez, D. Pérez Enguix, J.J. Martínez Rodrigo; Valencia/ES
- P-309 Long-term outcome of retrieval stent filter for Budd–Chiari syndrome complicated with inferior vena cava thrombosis

 Y. Bi, X.-W. Han; Zhenazhou/CN
- P-310 Superselective endovascular embolization with "n-butyl 2-cyanacrylate" in acute gastrointestinal bleeding cases

 <u>U.G. Rossi</u>, A.M. Ierardi, P. Torcia, P. Rigamonti, L.C. Pescatori, R. Foà, G. Carrafiello,
 M. Cariati; Milan/IT
- P-311 Acute post-pancreaticoduodenectomy hemorrhage: clinical presentation and endovascular management

 <u>U.G. Rossi</u>¹, P. Torcia¹, P. Rigamonti¹, A.M. Ierardi¹, F. Petrocelli², L.C. Pescatori¹,

 G. Carrafiello¹, M. Cariati¹; ¹Milan/IT, ²Genoa/IT
- P-312 Technique of intra-arterial transcatheter embolization in acute gastrointestinal bleeding: indications and limitations based on experiences at our center <u>D. Tomais</u>, T. Kratimenos, P. Ioannidi, A. Kleanthous, C. Cambakis, I. Kalogeropoulos, D. Farsaris; Athens/GR
- P-313 Transcatheter arterial embolization with n-butyl cyanoacrylate–lipiodol for acute colonic diverticular hemorrhage

 <u>S. Takasugi</u>', T. Ihaya', Y. Ohuchi', S. Yata', A. Adachi', T. Kawai', M. Endo', S. Yamamoto', K. Matsumoto', M. Kodani', T. Kaminou', T. Ogawa'; 'Yonago/JP, 'Kawachi-Nagano/JP
- P-314 Gastrointestinal fistulas: clinical findings and interventional management S.H. Kwon, J.H. Oh; Seoul/KR
- P-315 Biodegradable stents in benign biliary strictures: safety, feasibility, and short-term results

 P. Rossi, E. Bozzi, L. Crocetti, I. Bargellini, R. Cioni, A. Lunardi; Pisa/IT



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- P-317 Oesophageal stenting: factors affecting the choice of stent and tips to achieve best patient outcome

 A.F. Syed Abbas Hasan, P.S. Najran, A. Pitt, D. Edwards, H.-U. Laasch; Manchester/UK
- P-318 Diagnosis and management of transanastomotic portosystemic varices *U. Raja, J.E. Jackson; London/UK*
- P-319 Superior mesenteric artery thrombectomy: two acute cases treated in "neuroendovascular fashion" with dedicated aspiration catheters and carotid stenting
 S. Comelli; Turin/IT
- P-320 Single-session coil embolization of multiple celiac axis, superior mesenteric artery, and gastroduodenal artery aneurysms

 V.G. Helyar, R. Fernando, J.J. Harvey, S. Kudrnova, Z. Hussain, A. Ricoeur, T. Sabharwal, P. Gkoutzios; London/UK
- P-321 Percutaneous accessory bilioenteric neoanastomosis creation aided by the use of cone-beam computed tomography

 <u>B.C. Odisio</u>¹, A.M. Pabon-Martinez¹, T. Aloia¹, A. Mahvash¹, G. Chintalapani²;

 ¹Houston, TX/US, ²Munich/DE
- P-322 Protein-losing enteropathy caused by chronic mesenteric venous thrombosis owing to antiphospholipid syndrome treated with angioplasty and stent placement M.S. Sousa, C.T. Sampaio, L.L. Barros, D.M. Baptista, B.F. Pilan, M.F.C.D. Azevedo, A.C.B.S. Cavalcante, A.Z.D.A. Leite, A.M. Sipahi, F.C. Carnevale; São Paulo/BR
- P-323 Percutaneous puncture embolisation of a bleeding ectopic jejunal varix K.N. Nagabhushan, J. Singh, M. Kumar, S. Kumar; Hyderabad/IN

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- P-324 A retrospective trial of uterine artery embolization prior to hysterectomy R. Shah, A. Burn, M. Antero, M. Hallisey, A. Johnson; Hartford, CT/US
- P-325 Efficacy of uterine artery embolization using gelatin sponge particles alone for the treatment of retained products of conception with massive bleeding Y. Kimura, K. Osuga, Y. Ono, T. Nakazawa, H. Higashihara, T. Tsuboyama, S. Matsuzaki, M. Endo, T. Kimura, N. Tomiyama; Suita, Osaka/JP

- P-326 Fifteen years of uterine artery embolization in the treatment of myomas: lessons learned and questions remaining C. Lanciego, M.L. Cañete, J.J. Ciampi Dopazo, M. Díaz-Díaz, M.P. Servent, M.D. Maldonado, N. Rodriguez-Martín, O. Rodríguez-Gómez, R. Cuena-Boy; Toledo/ES
- P-327 Pre-procedural MRI features to predict intramural uterine fibroid migration following uterine artery embolization E.Y. Auyoung, A.-M. Belli, L. Ratnam, R. Das, S. Ameli-Renani, L. Mailli; London/UK
- P-328 Predictors of clinical success in magnetic resonance-guided focused ultrasound surgery for treating uterine fibroids I. Capretti, S. Iafrate, F. Arrigoni, E. Cannizzaro, M. Di Luzio, S. Mascaretti, G. Mascaretti, C. Masciocchi; L'Aquila/IT
- P-329 Mid-term outcomes after percutaneous cryoablation of symptomatic abdominal wall endometriosis: comparison with surgery alone in a single institution J. Maillot¹, C. Marcelin¹, J.-L. Brun¹, M. Bazot², N. Grenier¹, F.H. Cornelis²; ¹Bordeaux/FR, ²Paris/FR
- P-330 A regional review of the role of IR in severe post-partum haemorrhage C. Horst, K. McFeely, R. Miles; Plymouth/UK
- P-331 Uterine artery embolisation in the treatment of postpartum haemorrhage related to retained products of conception E.M. Núñez Peynado, E. Casula, E. Lonjedo, J. Gomez Valdes, A. Ruiz Guanter; Valencia/ES
- P-332 Clinical follow-up following uterine fibroid embolization C.R. Ingraham, D. Khorsand, S. Jones; Seattle, WA/US
- P-333 Placental embolization of advanced abdominal pregnancy C. Marcelin, J. Goupil; Saint Pierre/FR
- P-334 Superselective embolization of bleeding placental polyps E. Shibata, H. Takao, G. Shirota, G. Kawai, O. Abe; Tokyo/JP
- P-335 Endovascular treatment of a complex pelvic varicocele in a female with inferior vena cava (IVC) duplication M. Nestola, R. Inchingolo, G. Di Costanzo, M. Nardella; Matera/IT
- P-336 Successful embolization of an uterine artery pseudoaneurysm using thrombin and n-butyl-2-cyanoacrylate injection: a report of 2 cases S. Sai, N. Hosaka, R. Abe, N. Mizobuchi, T. Gokan; Tokyo/JP



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P-337 Advanced monoenergetic reconstruction technique in dual-energy computed tomography for the evaluation of endoleaks after endovascular aneurysm repair <u>Y. Sawada</u>, M. Shimohira, M. Nakagawa, Y. Ozawa, K. Ohta, S. Kazushi, T. Hashizume, K. Nakayama, O. Kazuya, Y. Shibamoto; Nagoya/JP

- P-338 Value of combined volumetric and computational fluid dynamic analysis in predicting rapid growth of abdominal aortic aneurysms

 O. Meyrignac', C. Zadro', L. Bal², A. Sewonu', M. de Masi², A. Jacquier², J.-M. Bartoli², P. Piquet², H. Rousseau', R. Moreno'; 'Toulouse/FR, 2Marseille/FR
- P-339 Angiographic assessment of atherosclerotic load at the lower extremity in patients with diabetic foot and Charcot neuroarthropathy

 <u>B.M. Çildağ</u>, K.Ö.F. Köseoğlu; Aydin/TR
- P-340 Comparison of vessel diameter measurements using pre-interventional computed tomography angiography-post-processing software and extravascular calibrated devices during digital subtraction angiography

 <u>E. Stahlberg</u>, M. Planert, N. Panagiotopoulos, M. Horn, J. Barkhausen, J.P. Goltz;

 <u>Lübeck/DE</u>
- P-341 Injury to branches of the external iliac arteries in pelvic fractures M. Narita, K. Tanaka, S. Nakao, K. Idoguchi; Osaka/JP
- P-342 Mid-term outcome of conservative management for segmental arterial mediolysis M. Yamakawa, E. Suqihara, E. Kashiwagi, S. Kawamoto; Osaka/JP
- P-343 A single femoral artery puncture and double-sheath method for obtaining CT during arterial portography (CTAP) and hepatic arteriography (CTHA)

 A.S.-B.C. Chou; Hualien County/TW
- P-344 CT liver perfusion for hepatocellular carcinoma nodule detection and follow-up after trans-arterial chemoembolization and comparison with hepato-specific contrast MRI: work in progress

 <u>A. Hatzidakis</u>, K. Perisinakis, E. Chryssou, G. Kalarakis, E. Savva, A. Karantanas;

 Heraklion/GR
- P-345 Efficacy of automated bleeding site detection and navigation software using multidetector-row computed tomography images for emergent transcatheter arterial embolization

 <u>Y. Tanahashi</u>, H. Kondo¹, M. Yamamoto¹, M. Osawa¹, T. Yokoyama¹, T. Sugawara¹,

 H. Kuwamura¹, H. Kawada², S. Goshima², F. Sakuraqi¹, M. Matsuo², H. Oba¹, S. Furui¹;

¹Tokyo/JP, ²Gifu/JP

- P-346 The origin of the last normal branch from the feeding artery of pulmonary arteriovenous malformations M. Maruno, H. Kiyosue, S. Tanoue, N. Hongo, S. Matsumoto, H. Mori; Yufu/JP
- P-347 Arms down vs arms up cone-beam CT hepatic angiography performance assessment: vascular imaging quality and imaging artifacts A.J. Gonzalez Aquirre¹, E.N. Petre¹, M. Hsu¹, G. Avignon², S.B. Solomon¹, J.C. Durack¹; ¹New York, NY/US, ²Buc/FR
- P-348 Detection of local recurrence after transcatheter arterial chemoembolization of hepatocellular carcinoma: comparison of parenchymal blood volume (PBV) mapping using cone-beam CT and MDCT J.D. Kim¹, N.R. Kim², H.Y. Han²; ¹Gyeonggi/KR, ²Daejeon/KR
- P-349 Research on R2*map for tracking adipose tissue-derived mesenchymal stem cells labeled by super paramaganetic iron oxide in rat liver X. An: Shanahai/CN WITHDRAWN
- P-350 CT-guided ablation of adrenal metastases: treatment effectiveness and imaging follow-up G. Frauenfelder, E. Faiella, F. Giurazza, D. Santucci, B. Beomonte Zobel, R.F. Grasso: Rome/IT
- P-351 Prevalence and systemic distribution of early atherosclerosis in a low-intermediate risk adult population M. Salsano¹, J. Weir-McCall¹, M.A. Lambert¹, S.J. Gandy¹, D. Levin¹, I. Cavin¹, R. Littleford¹, J.A. MacFarlane¹, S.Z. Matthew¹, S.R. Nicholas¹, A.D. Struthers¹, F. Sullivan², S.A. Waugh¹, R.D. White³, J.J. Belch¹, J.G. Houston¹; ¹Dundee/UK, ²Toronto, ON/CA, ³Cardiff/UK
- P-352 Dual-energy CT of the brain immediately after mechanical thrombectomy for acute ischemic stroke: correlation with hemorrhagic complications M. Bonatti¹, F. Lombardo¹, R. Currò Dossi¹, I. Juergenson¹, G.A. Zamboni², G. Bonatti¹; ¹Bolzano/IT, ²Verona/IT
- P-353 Cone-beam CT-guided percutaneous procedures using electromagnetic tracking C.S. Pena¹, J.F. Benenati¹, A. Powell¹, R.T. Gandhi¹, B. Schiro¹, M.V. Alfen², B.T. Katzen¹; ¹Miami, FL/US, ²Cambridge, MA/US
- P-354 Additional use of C-arm CT in adrenal vein sampling: impact on success rate P. Auloge¹, T. Frouget¹, C. Dourmap¹, T. Denolle², J.-F. Heautot¹; ¹Rennes/FR, ²Dinard/FR



P-355 Advanced monoenergetic reconstruction technique in dual-energy computed tomography for the evaluation of vascular anatomy before adrenal vein sampling <u>K. Nakayama</u>, M. Shimohira, M. Nakagawa, Y. Ozawa, K. Ohta, Y. Sawada, T. Hashizume, O. Kazuya, Y. Shibamoto; Nagoya/JP

- P-356 Follow-up imaging after renal cryoablation: a pictorial review P. Coulson, J.E. Rogers; Knoxville, TN/US
- P-357 Findings based on MRI of liver tumors treated with selective internal radiotherapy (SIRT) using yttrium-90

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- P-358 The usefulness of virtual fluoroscopic preprocedural planning during interventional radiology procedures

 <u>M. Kinoshita</u>¹, K. Takechi², Y. Arai², S. Iwamoto¹, R. Shirono², M. Harada¹; ¹Tokushima/JP, ²Komatsushima/JP
- P-359 Anatomical variants of the superior and inferior vena cava F. Carchesio, R. Iezzi, A. Posa, G. Coppola, A. Gasbarrini, R. Manfredi, C. Colosimo; Rome/IT
- P-360 A unique case of a double abdominal aorta A. Georgiev, K. Velkova; Plovdiv/BG
- P-361 The role of indium-111 WBC SPECT/CT in the definitive diagnosis of a mycotic aortic aneurysm (MAA)

 <u>A.M. Bogart</u>, C.S. Virk, M. Chadha, Z. Yang; Shreveport, LA/US
- P-362 Persistent sciatic vessels with arteriovenous malformation in a hip disarticulation patient with Klippel–Trenaunay syndrome

 N.B. Mani, E.T. Hall, M.D. Darcy; St. Louis, MO/US
- P-363 Individual-type pulmonary vein atresia mimicking pulmonary arteriovenous malformation

 K. Shimizu, K. Michimoto, K. Enoki, T. Higuchi, S. Kisaki, S. Sadaoka; Chiba/JP
- P-364 Simultaneous early enhancement of IVC and aorta in an acute traumatic peroneal arteriovenous fistula (AVF)

 A. Awwad, R. O'Neill, S. MacSweeney; Nottingham/UK
- P-365 Chronic tuberculous lymphadenitis as a cause of bronchial pseudoaneurysm rupture in the oesophagus: CT findings and transcatheter artery embolisation using n-butyl cyanoacrylate

 <u>A. Pingitore</u>, L. Notarangelo; Catanzaro/IT

- P-366 Association of hepatoid adenocarcinoma of the lung with well-differentiated hepatocellular carcinoma of the liver
 - A. Chacko Achanaril, O. Almokdad, A. Omar, A. Almuzrakchi, A.R. Barah, A. Sayedin, A. AlSherbini; Doha/OA
- P-367 Right rete mirabile internal carotid artery and unfused posterior cerebellar artery I.I. Oz; Zonguldak/TR
- P-368 Unusual anatomical variants of the left adrenal vein via the renal capsular vein for adrenal vein sampling T. Araki; Yamanashi/JP
- P-369 latrogenic inferior vena cava perforation after endovascular procedure A.I.S. Ferreira, J. Leitão, M.L. Gomes, J.F. Santos; Lisbon/PT

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- P-372 Comparative study using a AngioJet® rheolytic mechanical thrombectomy device R. Rosati, F. Fanelli, M. Corona, R. Cao, F. Basilico, C. Catalano; Rome/IT
- P-373 Carotid artery stenting in an octogenarian: is age a contraindication for the technique V. Mayoral Campos, J.A. Guirola, C. Tejero-Juste, M.J. Gimeno-Peribáñez, I. De Blas-Giral, M.A. de Gregorio; Zaragoza/ES
- P-374 Impact of clot histology on response to mechanical thrombectomy for acute ischemic stroke due to large vessel occlusion A. Comai¹, E. Hanspeter¹, G. Avesani¹, G. Nano¹, T.A. Haglmüller², R. Melotti¹, G. Bonatti¹; ¹Bolzano/IT, ²Feldkirch/AT
- P-375 Vitamin D levels and internal carotid artery calcium scores in patients with carotid artery stenosis: relation with symptomatology and atherosclerotic risk factors B. Barutcuoglu¹, G. Basol¹, C. Cinar¹, H. Bozkaya¹, U. Parildar², H. Posacioglu¹; ¹Izmir/TR, ²Istanbul/TR



P-376 Initial clinical experience with the micromesh roadsaver carotid artery stent for the treatment of patients with symptomatic carotid artery disease without embolic protection device

*R. Gandini, S. Merolla, F. De Crescenzo, A. Bozzi, E. Pampana; Rome/IT

- P-377 Intracranial collateral assessment and functional outcome in patients with acute ischemic stroke in anterior circulation treated by endovascular therapy *J. Harsany, A. Klepanec, J. Haring, M. Rusina, M. Mako, G. Krastev; Trnava/SK*
- P-379 pCONus device for endovascular treatment of wide-neck intracranial bifurcation aneurysms

 A. Bozzi, R. Gandini, S. Merolla, E. Pampana, S. Abrignani; Rome/IT
- P-380 Endovascular stroke treatment of acute tandem occlusion: a single-center experience

 <u>A. Bozzi</u>, R. Gandini, E. Pampana, S. Merolla, S. Abrignani, F. De Crescenzo; Rome/IT
- P-381 Arteriovenous fistula of the vertebral artery in a healthy male teenager treated with the Amplatzer vascular plug

 <u>Y. Tanyildizi</u>, M.A. Brockmann, S. Boor; Mainz/DE
- P-382 Accidental cerebral embolization during emergency endovascular treatment of a massive bleeding facial arteriovenous malformation using cyanoacrylate glue N. Gennaro, M. Tramarin, V. Pedicini, D. Poretti, L. Straffi, M. Spinelli, S. Marcheselli, E. Lanza; Rozzano/IT
- P-383 Superselective embolization of the glomus jugulare tumor <u>I. Allahverdiyev</u>¹, H. Erdogan², R. Pisanov¹; ¹Baku/AZ, ²Konya/TR
- P-384 Endovascular treatment of high-flow cervical direct vertebro-vertebral arteriovenous fistula

 A. Tizro, C. Cinar, I. Oran; Izmir/TR
- P-385 Embolization of dural AV fistula (DAVF) of the cavernous sinus with onyx complicated by superior ophtalmic vein thrombosis

 <u>U.M. Rozzanigo</u>¹, P. Zampieri², S. Sarubbo¹, F. Chioffi¹; ¹Trento/IT, ²Verona/IT
- P-386 Blister-like aneurysm of the supraclinoid internal carotid artery treated with a flow-diverter stent

 R. Zannoni, E. Epifani, P. Piazza, R. Menozzi; Parma/IT
- P-387 Neck-bridging, endosaccular flow diversion, and coiling for the treatment of a recurrent aneurysm of the medial cerebral artery after clipping <u>S. Schob</u>, M. Aguilar-Perez, H. Henkes; Stuttgart/DE WITHDRAWN

- P-388 Transjugular coiling of the Cognard IV dural arteriovenous fistula using a new monopolar detachable coil system through a flow-directed microcatheter P. Voigt, R. Jantschke, U. Nestler, K.-T. Hoffmann, U. Quäschling; Leipzig/DE
- P-389 Issues pertaining to difficult bilateral retropharyngeal carotid stenting <u>S.B. Babu; Singapore/SG</u>

Oncologic intervention

- P-390 Risk factors for the development of postembolization syndrome after hepatic chemoembolization for hepatocellular carcinoma M. Lima¹, S. Dutra², T. Bilhim¹, F. Veloso Gomes¹, É. Coimbra¹; ¹Lisboa/PT, ²Ponta Delgada/PT
- P-391 Transradial access (TRA) for TACE and hepatic arterial infusion chemotherapy (HAIC) of primary and metastatic liver cancer

 <u>C. Aliberti</u>, R. Carandina, D. Sarti, E. Pizzirani, G. Ramondo, L. Mulazzani, G.M. Mattioli, A. Felicioli, G. Fiorentini; 1Padova/IT, 2Pesaro/IT
- P-392 Transarterial bland embolisation of HCC using the cyanoacrylate glue and 40–100-µm microspheres
 E. Lanza, V. Pedicini, D. Poretti, M. Tramarin, R. Ceriani, F. Procopio, M. Donadon, G. Torzilli; Rozzano/IT
- P-393 Preoperative embolisation of a replaced right hepatic artery before resection of pancreatic carcinoma

 <u>L. Spelt</u>, M. Bergenfeldt, C. Sturesson, W. Cwikiel, I. Keussen; Lund/SE
- P-394 Yttrium-90 radioembolization treatment for unresectable hepatocellular carcinoma: a single-centre prognostic factors analysis

 F. Pesapane, C. Floridi, F. Patella, E.M. Fumarola, F. Morelli, G. Franceschelli, A.M. Ierardi, G. Carrafiello; Milan/IT
- P-395 Radioembolization with yttrium-90 resin microspheres for liver metastases of pancreatic adenocarcinoma: a retrospective multicenter analysis

 A.Y. Kim¹, S. Frantz¹, J. Zhanq², N.M. Akhtar²; ¹Washinqton, DC/US, ²Baltimore, MD/US
- P-396 Preoperative portal vein embolization (PVE) with major liver resection vs associating liver partition and portal vein ligation for staged hepatectomy (ALPPS) in advanced malignant hepatobiliary disease: a single-center experience

 J.A. Flores Mendez¹, R. García Marcos¹, J.J. Martínez Rodrigo¹, M. Cifrian Perez²,

 D. Pérez Enguix¹; ¹Valencia/ES, ²Castellón/ES



- P-397 Usefulness of CT arterial portogram (CTAP) in patients undergoing radioembolization with Y-90

 <u>R.K. Muli Jogi</u>, S. Chandramohan, A. Gogna, T.A.J. Urlings, C.W. Too,
 N. Venkatanarasimha, S. Leong, K. Damodharan, F.G. Irani; Singapore/SG
- P-398 Retrospective analysis of a cohort of patients with unresectable HCC treated with SIRT and liver transplant

 A. Paladini, G. Pizzi, G.E. Vallati, V. Anelli: Rome/IT
- P-399 Percutaneous ablation of RAS mutant colorectal liver metastases is associated with high-rate local tumor progression

 <u>B.C. Odisio</u>, S. Yamashita, S. Huang, S. Harmoush, S. Kopetz, C. Conrad, T. Aloia, K. Ahrar, M.E. Hicks, Y.S. Chun, S. Gupta, J.-N. Vauthey; Houston, TX/US
- P-400 In vivo percutaneous renal microwave ablations: correlation of diameter with ablation work and ex vivo data

 <u>C. Marcelin</u>¹, F. Petitpierre¹, Y. Le Bras¹, N. Grenier¹, F. Cornelis²; ¹Bordeaux/FR, ²Paris/FR
- P-401 Breast tumors treated with percutaneous image-guided cryoablation: prospective single-center experience of 32 consecutive non-surgical patients

 A.I. Alexiev, R.L. Cazzato, X. Buy, S. Ferron, G. Hurtevent, C. Tunon de Lara, M. Debled,
 J. Palussière; Bordeaux/FR
- P-402 Early sorafenib-related biomarkers for the combination treatment of TACE and sorafenib in HCC patients

 <u>B.-Y. Zhong</u>¹, G.-J. Teng¹, C.-F. Ni²; ¹Nanjing/CN, ²Suzhou/CN

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- P-403 Quality of life in patients undergoing repetitive TACE for intermediate-stage HCC <u>S. Marquardt</u>, K. Hartrumpf, T. Werncke, M. Kirstein, A. Vogel, F.K. Wacker, T. Rodt; Hannover/DE
- P-404 Microwave ablation of liver malignancies: a comparison between effects and early outcomes of percutaneous and intraoperative approaches under different liver conditions
 - <u>P. Marra</u>, F. Ratti, A. Ambrosi, M. Colombo, F. Cipriani, P. Diana, S. Gusmini, M. Salvioni, M. Venturini, L. Aldrighetti, F. De Cobelli; Milan/IT
- P-405 Prior hepatectomy predicts local tumor progression and survival after percutaneous ablation of colorectal liver metastasis

 <u>B.C. Odisio</u>, S. Yamashita, S. Huang, S. Kopetz, K. Ahrar, Y.S. Chun, C. Conrad, T. Aloia, M.E. Hicks, S. Gupta, J.-N. Vauthey; Houston, TX/US

- P-406 Cryoablation of T1b renal tumors: a single-center experience of 27 consecutive patients

 S. Hebbadj, R.L. Cazzato, G. Tsoumakidou, G. Koch, J. Caudrelier, J. Garnon, A. Gangi;

 Strasbourg/FR
- P-407 Transarterial chemoembolization of liver metastasis from uveal melanoma using melphalan and calibrated microspheres: treatment response and complications *X. Carle, P. Chevallier, A. Rudel, L. Gastaud, J. Thariat; Nice/FR*
- P-408 Clinical outcomes following percutaneous thermal ablation of hepatocellular adenomas

 <u>O. Mironov</u>, A. Jaberi, R. Beecroft, J.R. Kachura; Toronto, ON/CA
- P-409 Outcomes of percutaneous CT-guided cryoablation of renal neoplasms: volumetric analysis of the ice ball to lesion ratio as a predictor of recurrence <u>A.Z. Vance</u>¹, U. Nwosu¹, C. Fedele¹, A. Graif¹, G. McKenna¹, C.J. Grilli¹, M.J. Garcia², S. Putnam¹, D.A. Leung¹; Newark, DE/US, ²Wilmington, DE/US
- P-410 Efficiency and clinical outcomes of stents loaded with 125 iodine seeds for unresectable oesophageal cancer: a multicentre, retrospective analysis <u>J. Qin</u>, G.-J. Teng, H.-D. Zhu; Nanjing/CN
- P-411 Initial assessment of clinical feasibility, safety and efficacy of NanoKnife irreversible electroporation (IRE) in the focal treatment of localised renal cell carcinoma (RCC) with delayed interval tumour resection (IRENE trial)

 <u>B. Friebe</u>', J. Ricke², M. Pech¹, F. Fischbach¹, J. Jürgens¹, S. Blaschke¹, D. Schindele¹,
 S. Siedentopf¹, J. Köllermann³, M. Schostak¹, U.-B. Liehr¹, J.J. Wendler¹; ¹Magdeburg/DE,
 ²Munich/DE, ³Offenbach/DE
- P-412 New treatment for prostate cancer: prostatic artery chemoembolization

 J.M. Pisco¹, T. Bilhim¹, P. Ribeiro², A. Brigas³, L. Fernandes¹, N.V. Costa¹, A.G. Oliveira⁴;

 ¹Lisbon/PT, ²Benfica/PT, ³Algarve/PT, ⁴Caicó/BR
- P-413 Advanced-stage hepatocellular carcinoma: who will benefit from the treatment using TACE monotherapy compared with that using TACE plus sorafenib?

 <u>B.-Y. Zhong</u>¹, C.-F. Ni², G.-J. Teng¹; ¹Nanjing/CN, ²Suzhou/CN
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- P-414 Catheter Directed Computed Tomography Hepatic Angiography for Yttrium-90 Selective Internal Radiotherapy of Hepatocellular Carcinoma: Correlation with SPECT-CT and its impact on coiling rates, safety and efficacy W.X.T. Goh, S. Leong, C.W. Too, Z.R. Lee, T.S.S. Ng, H.G.R. Lo, K.H. Tay, J.M.X.S. Chan, A. Gogna, F.G. Irani, N.K. Venkatanarasimha, S.H.K. Loke, K.H.P. Chow, C.E.D. Ng, T.A.J. Urlings, A. Patel, K. Damodharan, L.H.W. Toh, B.S. Tan; Singapore/SG



P-415 Idarubicin-loaded DC Bead® for chemoembolization of HCC: interim analysis of IDASPHERE II (FFCD 1307) multicenter single-arm phase II trial

<u>B. Guiu¹</u>, P. Chevallier², P. Merle³, M.-A. Pierredon Foulongne¹, A. Rode³, A. Bouvier⁴,
O. Guillaud³, P.-J. Valette⁵, J. Dumortier³, J.-P. Joly⁶, E. Nguyen Khac⁶, T. Yzet⁶,
M. Lartournerie², J.-C. Barbare⁶, M. Boulinˀ, S. Manfrediˀ; ¹Montpellier/FR, ²Nice/FR,
³Lyon/FR, ⁴Angers/FR, ⁵Pierre Benite/FR, ⁶Amiens/FR, ¹Dijon/FR

- P-416 Chemoembolization adopting polyethylene glycol drug-eluting embolics loaded with doxorubicin for the treatment of hepatocellular carcinoma C. Aliberti¹, R. Carandina¹, D. Sarti², E. Pizzirani¹, G. Ramondo¹, L. Mulazzani², G. Fiorentini²; ¹Padova/IT, ²Pesaro/IT
- P-417 Percutaneous ablation of hepatic dome tumours through the transpulmonary pathway

 J.S. Toro: Cordoba/ES
- P-418 Contrast-enhanced ultrasonography-guided radiofrequency ablation of hepatic neoplasms

 E. Nzekwu, K. Kunimoto, B. Bao, J. Wong; Calgary, AB/CA
- P-419 Two-dimensional perfusion angiography of hepatocellular carcinoma before and after chemoembolization

 H.-O. Kim, N.Y. Yim, J.K. Kim, Y.J. Kang, B.C. Lee; Gwangju/KR
- P-420 Chemoembolization with drug-eluting beads loaded with doxorubicin for the treatment of cholangiocarcinoma

 C. Aliberti¹, R. Carandina¹, D. Sarti², E. Pizzirani¹, G. Ramondo¹, L. Mulazzani²,

 A. Felicioli², G. Fiorentini²; ¹Padova/IT, ²Pesaro/IT
- P-421 A modified ablative margin assessment system for radiofrequency ablation combined with conventional transarterial chemoembolization of hepatocellular carcinoma: the lipiodol deposition made a difference K. Zhu, J. Huang, W. Huang, M. Cai, X. Chen, Y. Guo, Z. Zeng, L. Lin; Guangzhou/CN
- P-422 Transarterial embolotherapy for local recurrence of hepatocellular carcinoma after carbon ion radiotherapy

 K. Shibuya, M. Miyazaki, H. Tokue, H. Katoh, T. Ohno, Y. Tsushima; Maebashi/JP
- P-423 Postembolization syndrome in 70–150-µm drug-eluting bead transarterial chemoembolization for hepatocellular carcinoma

 I.I. Oz, M. Bilici, E. Bozay Oz; Zonguldak/TR
- P-424 Perceptions of quality in interventional oncology: a community-based definition <u>E.J. Keller</u>, K.Y. Kennedy, J.D. Collins, R.J. Lewandowski, R. Salem, R. Vogelzang, R.M. Hickey; Chicago, IL/US

- P-425 Y90-radioembolisation via variant hepatic arteries: is there a relevant risk for nontarget embolisation? M. Zimmermann, M. Liebl, M.F. Schulze-Hagen, F. Pedersoli, F. Goerg, P. Isfort, C.K. Kuhl, P. Bruners: Aachen/DE
- P-426 Treatment of lung tumours with high-energy microwave ablation: a single-centre E.M. Fumarola, C. Floridi, A.M. Ierardi, F. Pesapane, F. Morelli, A. Sacrini, F. Patella, S.A. Angileri, G. Carrafiello; Milan/IT
- P-427 Degradable starch microspheres (DSM) as embolising agent for transarterial chemoembolisation (TACE) of locally advanced hepatocellular carcinoma (HCC): safety and efficacy A. Gross, T. Albrecht; Berlin/DE
- P-428 What is the factor influencing the renal functional outcome after percutaneous cryoablation for renal masses S. Kisaki, K. Michimoto, K. Shimizu, K. Enoki, T. Higuchi, S. Sadaoka; Kashiwa-shi, Chiba/JP
- P-429 Feasibility and safety of repeated transarterial chemoembolization using miriplatin-lipiodol suspension for unresectable hepatocellular carcinoma T. Matsumoto, H. Ichikawa, J. Imai, T. Mine, T. Hayashi, K. Hashida, K. Tomita, S. Suda, T. Hasebe; Hachioji/JP
- P-430 Transarterial radioembolization following chemoembolization for unresectable hepatocellular carcinoma: response based on apparent diffusion coefficient change is an independent predictor for survival <u>L. Bonne</u>¹, E. Klompenhouwer², E. Dresen¹, C. Verslype¹, V. Vandecaveye¹, G. Maleux¹; ¹Leuven/BE, ²Amsterdam/NL
- P-431 Safety and efficacy of transarterial radioembolization in patients with intermediate or advanced-stage hepatocellular carcinoma refractory to chemoembolization L. Bonne¹, E. Klompenhouwer², E. Dresen¹, C. Verslype¹, V. Vandecaveye¹, G. Maleux¹; ¹Leuven/BE, ²Amsterdam/NL
- P-432 Pharmacokinetic profile of doxorubicin in patients with unresectable hepatocellular carcinoma treated with drug-eluting microsphere chemoembolization K. Malagari¹, A. Denys², J. Bruix³; ¹Athens/GR, ²Lausanne/CH, ³Barcelona/ES



P-433 Pharmacokinetic profile of irinotecan in patients with liver metastases from colorectal cancer treated with unilobar or bilobar drug-eluting microsphere chemoembolization

- <u>G. Maleux</u>¹, H. Prenen¹, T.K. Helmberger², U. Martens³, P.L. Pereira³; ¹Leuven/BE, ²Munich/DE, ³Heilbronn/DE
- P-434 Treatment of unresectable HCC with doxorubicin-eluting microspheres: a singlecenter experience
 - <u>G.A. Tovar Felice</u>, J. Sampere-Moragues, A. Garcia-Gámez, V. Benito-Santamaria, J. Villalba-Auñon, D. Balaguer-Paniagua; Badalona/ES
- P-435 Correlation between background liver radiation dose and hepatotoxicity in Y-90 radioembolization of primary and metastatic liver tumors

 O. Chansanti¹, Y. Jahangiri², A. Adachi³, Y. Geeratikun², J.A. Kaufman², K.J. Kolbeck²,

 J.S. Stevens², K. Farsad²; 'Bangkok/TH, 'Portland, OR/US, 'Yonago/JP
- P-436 Real-time 3D virtual target fluoroscopic display for challenging hepatocellular carcinoma ablations using cone-beam CT

 O. Sutter, A. Fihri, G. N'Kontchou, N. Sellier, O. Seror; Bondy/FR
- P-437 Microwave ablation of malignant renal tumours: intermediate-term results and usefulness of RENAL and mRENAL scores for predicting outcomes and complications

 <u>F. Pesapane</u>, C. Floridi, A.M. Ierardi, M. Petrillo, E.M. Fumarola, F. Patella, A. Sacrini, S.A. Angileri, G. Carrafiello; Milan/IT
- P-438 Y-90 radiation segmentectomy for early-stage HCC: time to consider it as a curative treatment

 R.J. Lewandowski, A. Gabr, A. Riaz, N. Abouchaleh, R. Ali, A. Al Asadi, R. Salem;
 Chicago, IL/US
- P-439 Long-term outcomes of patients with intrahepatic cholangiocarcinoma who underwent percutaneous ablation

 R. Heller, S. Huang, S.H. Sabir, S. Gupta, M. Javle, B.C. Odisio; Houston, TX/US
- P-440 Transarterial chemoembolization for the treatment of hepatocellular carcinoma with abdominal cavity metastases

 <u>L. Cui</u>, F. Duan; Beijing/CN
- P-441 CT-guided radioactive 125I seed implantation in the treatment of spinal metastatic tumors

 C. Zhijin, W. Zhongmin, L. Jian; Shanghai/CN

- P-442 Percutaneous intraductal radiofrequency ablation for the treatment of biliary stent occlusion: a preliminary result W. Zhongmin, X. Ning, L. Jian; Shanghai/CN
- P-443 Efficacy of combined preoperative transarterial chemoembolization and hepatic resection for large hepatocellular carcinoma J.H. Kim¹, U.B. Jeon¹, J.Y. Jang¹, C.W. Kim²; ¹Yangsan/KR, ²Busan/KR
- P-444 MRI and 3D reconstruction used in liver microwave ablation: initial research Y. Nannan, G. Ju, W. Zhongmin; Shanghai/CN
- P-445 Comparison of the quality of life after different transarterial therapies for primary and secondary hepatic malignancy S. Marquardt, T. Kirchner, T. Werncke, M. Kirstein, A. Vogel, F.K. Wacker, T. Rodt; Hannover/DF
- P-446 Initial experience of cone-beam computed tomography-guided percutaneous radiofrequency ablation of lung tumors J.W. Yi, H.P. Hong, Y.-G. Lee, H. Kim, T.Y. Oh; Seoul/KR
- P-447 Treatment of bone tumors with arterial embolization D. Martynkov, B. Dolgushin, V. Kosyrev, I. Trofimov; Moscow/RU
- P-448 Initial experience of no-touch switching monopolar laparoscopic radiofrequency ablation using a separable cluster electrode in patients with hepatocellular carcinoma located on the liver surface M.H. Rho, J.W. Yi, H.P. Hong, S.R. Lee, B.H. Son; Seoul/KR
- P-449 Radiofrequency ablation of kidney tumors with high-frequency jet ventilation and real-time US-CT image fusion/virtual needle track guidance: a single-center experience A. Michos, V. Grozman, T. Josephson; Stockholm/SE
- P-450 Real-time US-CT/MRI image fusion/virtual needle track-guided percutaneous microwave ablation for liver tumors: a single-center experience A. Michos, V. Grozman, T. Josephson; Stockholm/SE
- P-451 Efficacy and safety of renal arterial embolization for angiomyolipomas using absolute ethanol: identifying a predictive factor of tumor response S. Murata, D. Yasui, F. Sugihara, T. Ueda, H. Saito, Y. Kondo, H. Tajima, S. Onozawa, S.-I. Kumita; Tokyo/JP



- P-452 Response assessment by volumetric iodine-uptake measurement: preliminary experience in patients with intermediate-advanced hepatocellular carcinoma treated with yttrium-90 radioembolization

 <u>G. Lorenzoni</u>, A. Grigolini, L. Giorgi, I. Bargellini, L. Crocetti, E. Bozzi, R. Cioni, D. Caramella; Pisa/IT
- P-453 Portal hypertension is related to poor outcomes after chemoembolization J.W. Choi, H.H. Chu, H.-C. Kim, S. Hur, M. Lee, H.J. Jae, J.W. Chung; Seoul/KR
- P-454 Efficacy of cone beam CT-based liver perfusion map for assessing tumor vascularity and evaluating treatment response after TACE for HCC S.Y. Choi', J. Oh', K.A. Kim², M.U. Kim¹; 'Seoul/KR, 'Suwon/KR
- P-455 Is age a possible independent prognostic factor for overall survival after transarterial chemoembolization in patients with hepatocellular carcinoma <u>C. Mosconi</u>, A. Cappelli, S. Zanardi, A.G. Gramenzi, M. Renzulli, F. Modestino, R. Golfieri; Bologna/IT
- P-456 Evaluation of transarterial chemoembolization with drug-eluting beads for hepatocellular carcinoma and the relationship between vascular lake and local response

 <u>T. Sanomura</u>, T. Norikane, Y. Nishiyama; Kagawa/JP
- P-457 HIFU for prostate cancer: 1250 patients with a 10-year follow-up V.A. Solovov, M.O. Vozdvizhenskiy, A.E. Orlov; Samara/RU
- P-458 Short-, mid- and long-term outcomes of irreversible electroporation treatment in renal cell carcinoma: a prospective single centre study

 S.-L. Lai; Melbourne, VIC/AU
- P-459 Comparative safety and effectiveness of different transarterial embolization therapies either alone or in combination with local ablative or adjuvant systemic treatments for unresectable hepatocellular carcinoma: a systematic review and network meta-analysis of randomized controlled trials

 P.M. Kitrou¹, S. Spiliopoulos², I. Maroulis¹, D. Karnabatidis¹, K.N. Katsanos¹; ¹Patras/GR, ²Athens/GR
- P-460 Hepatocellular carcinoma with portal vein tumor thrombus: transarterial chemoembolization combined with CT-guided iodine-125 seed implantation *K. Zhu, W. Huang, J. Huang, M. Cai; Guangzhou/CN*
- P-461 The role of interventional radiology in the treatment of intrahepatic cholangiocarcinoma

 F. Patella, S.A. Angileri, F. Pesapane, E.M. Fumarola, F. Morelli, C. Floridi, G. Franceschelli, A.M. Ierardi, G. Carrafiello; Milan/IT

- P-462 Percutaneous microwave ablation of renal cell carcinoma using a high-power microwave system: focus upon feasibility, safety, and efficacy D.K. Filippiadis, C. Kelesis, C. Konstantos, L. Reppas, K. Palialexis, A.D. Kelekis, E. Brountzos, N.L. Kelekis: Athens/GR
- P-463 Left hepatic and segment IV yttrium-90 radioembolization using glass microspheres without routine embolization of the right gastric artery O. Ahmed, D. Heussner, P. Tran, S. Khan, B. Clayton, U.C. Turba, J.C. Tasse, B. Arslan; Chicago, IL/US
- P-464 Portal vein infiltration in patients with hepatocellular carcinoma: the relevance of correct classification R. Kloeckner, A. Mähringer-Kunz, V. Steinle, S. Schotten, C. Düber, M.B. Pitton, H. Lang, S. Koch, P.R. Galle, A. Weinmann; Mainz/DE
- P-465 Safety and efficacy of 100-µ DEB-TACE in patients with non-resectable HCC J. Urbano¹, J.J. Echevarria-Uraga², J.J. Ciampi Dopazo³, J. Sanchez Corral¹, B. Peña Baranda⁴, C. Lanciego³, R. Gonzalez Costero⁵, S. Méndez Alonso⁵, J.J. Muñoz Ruiz-Canela⁶, V. Nacarino⁷, J. Peiró de las Heras⁷, J. Cuesta Pérez¹, L. López Carreira⁸, J.R. Pulpeiro⁸; ¹Madrid/ES, ²Galdakao/ES, ³Toledo/ES, ⁴Bilbao/ES, ⁵Majadahonda, Madrid/ES, 6Málaga/ES, 7Sevilla/ES, 8Lugo/ES
- P-466 Does immediate CT post-chemoembolization of colorectal metastases in the liver predict PET response? K. Tan¹, R. Rakheja¹, J. Shaw¹, E. Lee¹, Y. Luo¹, G. Beck¹, R. Otani¹, C. Plewes², S. Ahmed¹; ¹Saskatoon, SK/CA, ²Edmonton, AB/CA
- P-467 Microwave ablation of focal liver lesions: 5-year experience at an oncologic centre N. Almeida Costa, J.A. Oliveira, P. Lopes, M.J.M. Sousa, B. Gonçalves; Porto/PT
- P-468 Experience of irreversible electroporation for improving survival in locally advanced pancreatic adenocarcinoma in Asia K.-W. Huang; Taipei/TW
- P-469 Technical note: a single-center experience of positron emission tomographycomputed tomography (PETCT)-guided lung biopsy for better yield U.A. Pankar, S.S. Shivalingappa; Bangalore/IN
- P-470 Lipiodol as an imaging biomarker of tumor response after transarterial chemoembolization therapy in patients with primary and metastatic liver cancer: preliminary results M. Miszczuk, J. Chapiro, V. Thakur, N. Nezami, F. Laage-Gaupp, M. Kulon, J.M.M. van Breugel, M. Lin, J.-F.H. Geschwind; New Haven, CT/US



P-471 Transarterial chemoembolization of hepatocellular carcinoma with 100±25-µm and 200±25-µm Lifepearl microspheres: short-term follow-up and safety profile <u>R. Argiro</u>¹, C. Cirelli¹, M. Corona¹, P. Lucatelli², F. Fanelli¹, C. Catalano¹, M. Bezzi¹; ¹Rome/IT, ²Siena/IT

- P-472 Microwave ablation in the management of colorectal cancer lung metastases

 <u>A.J. Gonzalez Aguirre</u>, E.N. Petre, M. Bains, N.E. Kemeny, S.B. Solomon, C.T. Sofocleous;
 New York, NY/US
- P-473 CT-guided percutaneous cryoablation of renal cell carcinoma: impact of histology and ablative margins on treatment success

 <u>L. Colléter</u>, C. de Margerie-Mellon, C. de Bazelaire, E. de Kerviler; Paris/FR
- P-474 Theranostic application of lipiodol for transarterial chemoembolization in a VX2 tumor animal model

 M.M. van Breuge!', J. Chapiro', S. Mirpour², X. Zhang', M. Lin', M.A. Miszczuk',

 E.A. Liapi², J.-F.H. Geschwind'; 'New Haven, CT/US, 'Baltimore, MD/US
- P-475 The evaluation of the ablative area with non-contrast CT after cryoablation therapy for small renal tumors

 <u>H. Higashihara</u>, K. Osuga, Y. Enchi, S. Nakamura, Y. Kimura, R. Ohira, Y. Ono, T. Nakazawa, N. Tomiyama; Suita, Osaka/JP
- P-476 IRE of liver malignancies after major liver surgery: is it safe and effective?

 <u>A. Barabasch</u>, P. Heil, M. Distelmaier, E. Dethlefsen, C.K. Kuhl, P. Bruners; Aachen/DE
- P-477 Intra-arterial chemoperfusion (IACP) for treating irresectable chest wall or lymph node recurrence of breast cancer not amenable to radiation therapy <u>E. Dethlefsen</u>, F. Goerg, N. Krämer, C.K. Kuhl, A. Barabasch; Aachen/DE
- P-478 Hepatic arterial embolization using cone-beam CT with tumor-feeding vessel detection software: impact on HCC response F.H. Cornelis¹, A. Borgheresi², E.N. Petre², S.B. Solomon², K.T. Brown²; ¹Paris/FR, ²New York, NY/US
- P-479 Safety and efficacy of conventional transarterial embolization (cTACE) followed by percutaneous thermal ablation (PTA) of unresectable hepatocellular carcinoma (HCC): a single-center experience

 R. Yamada, M. Guimaraes, S. Bracewell, S. Volin, J.C. Camacho; Charleston, SC/US
- P-480 Evolution of the prostate gland volume and voiding symptoms after percutaneous irreversible electroporation (IRE) of prostate cancer

 <u>L.P. Beyer</u>, C. Stroszczynski, P. Wiggermann; Regensburg/DE

- P-481 Extent of portal invasion in patients with HCC: the more, the worse A. Mähringer-Kunz¹, A. Weinmann¹, V. Steinle¹, S. Koch¹, D. Pinto dos Santos², S. Schotten¹, C. Düber¹, H. Lang¹, M.B. Pitton¹, P.R. Galle¹, R. Kloeckner¹; ¹Mainz/DE, ²Köln/DE
- P-482 Percutaneous MR-quided tumour ablation of sub-centimetre hepatic metastases J. Weiss, D.-E. Keßler, S. Clasen, K. Nikolaou, R. Hoffmann; Tübingen/DE
- P-483 MR-quided high-intensity focused ultrasound (MRgFUS) for the treatment of oligometastatic prostate cancer bone metastasis A. Leonardi, A. Napoli, R. Scipione, M. Anzidei, H.-P. Erasmus, S. Dababou, C. Catalano; Rome/IT
- P-484 Uterine fibroids treated with MRI-quided high-intensity focused ultrasound (MRgFUS): clinical outcomes in comparison to current therapeutic strategies A. Leonardi, A. Napoli, R. Scipione, M. Anzidei, S. Dababou, H.-P. Erasmus, C. Catalano; Rome/IT
- P-485 Renal cell carcinoma lung metastases treated by radiofrequency ablation: results based on 11 years of experience J. Palussière¹, A. Gonnet², L. Salabert¹, V. Catena¹, G. Roubaud¹, A. Ravaud¹, X. Buy¹; ¹Bordeaux/FR, ²Pau/FR
- P-486 Single-injection dual-phase cone-beam computed tomography (DP-CBCT) intraprocedural findings correlate with 1 month mRECIST results in the course of degradable starch microsphere TACE (DSM-TACE) for hypervascular HCC and metastatic colorectal cancer (mCRC) P. Lucatelli¹, R. Argirò², D. Boutboul³, L. Cannoni¹, V. Cicione¹, M. Sozzi¹, D. Taccioli¹, G. Pau¹, C. Ricci¹; ¹Siena/IT, ²Rome/IT, ³Paris/FR
- P-487 Effectiveness of transarterial chemoembolization plus microwave ablation versus transarterial radioembolization in patients with hepatocellular carcinoma T.G. Van Ha, A. Al-Saraf, T.G. Tullius, B.S. Funaki; Chicago, IL/US
- P-488 Clinical outcomes following pulmonary cryoablation utilizing a triple freeze-thaw protocol G. Lyons, B. Pua; New York, NY/US
- P-489 Signature of survival: a pretreatment 18F-FDG PET/CT-based whole-liver radiomic score predicts survival after 90Y TARE for unresectable hepatocellular carcinoma P. Blanc-Durand, A. van der Gucht, M. Jreige, A. Denys, N. Schaefer; Lausanne/CH



P-490 Comparison between clinical outcomes of radiofrequency ablation and cryoablation for cT1b renal cell carcinoma: a multicenter study <u>T. Hasegawa</u>¹, T. Yamanaka², H. Gobara³, M. Miyazaki⁴, K. Yamakado⁵; ¹Nagoya/JP, ²Tsu/JP, ³Okayama/JP, ⁴Maebashi/JP, ⁵Nishinomiya/JP

- P-491 Evaluation of CT-guided pulmonary nodule localization techniques before thoracoscopic wedge resection <u>C.X.J. Chan</u>, W.S. Wan, A. Li; Tuen Mun/HK
- P-492 Clinical application of CT-guided interstitial 125I seed implantation for treatment of adrenal malignant carcinoma

 Z.-Y. Lin¹, J.-Y. Yang², J. Chen¹, J. Chen¹; ¹Fuzhou/CN, ²Nanping/CN
- P-493 Does ultrasound guidance improve the efficacy of pulsed radiofrequency therapy for the stellate ganglion in patients with refractory neuropathic pain syndromes *M.H. Shaaban, R.M. Reyad; Cairo/EG*
- P-494 Comparison between fluoroscopy-guided posterior approach versus ultrasound-guided anterior approach for superior hypogastric plexus neurolysis: a prospective, randomized, comparative study

 M.H. Shaaban, R.M. Reyad, M.A. Kamel, R.H. Hashem; Cairo/EG
- P-495 Radiofrequency ablation of malignant pleural mesothelioma plaque <u>G.G. Taverna</u>¹, F. Brucculeri¹, E. Oppezzo¹, L. Spagnolo¹, S. Barbero²; ¹Casale Monferrato/IT, ²Alessandria/IT
- P-496 Multiple-electrode radiofrequency for paraesophageal tumor in rabbits: a preclinical experiment for safety and efficiency Z. Jin, L. Ling; Nanjing/CN
- P-497 Radiofrequency ablation as an alternative minimally invasive treatment for locoregional control of recurrent thyroid carcinoma

 <u>A. Boccuzzi</u>, S. Mazzeo, R. Cervelli, L. De Napoli, R. Elisei, E. Molinaro, B. Pontillo Contillo, R. Cioni, D. Caramella; Pisa/IT
- P-498 Effect of MRI-guided high-intensity focused ultrasound on local control of bone metastases

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 C. Catalano; Rome/IT
- P-499 Systematic review of superior vena cava stenting for malignant and benign pathology: how strong is the evidence <u>U. Raja</u>, M. Zamir, A. Alsafi, M.S. Hamady; London/UK

- P-500 Carbon dioxide (CO2) as an alternative contrast agent for diagnostic angiography and vascular intervention M.A. Al-Toki; Kassel/DE
- P-501 How to perform hepatobiliary and gastrointestinal interventions using a transradial approach V. Rachapalli¹, M. Palaniswamy¹, D. Thiruchunapalli², S. Inuganti², S. Chappiidi³, M. Uthappa¹; ¹Bangalore/IN, ²Chennai/IN, ³Hyderabad/IN
- P-502 The thyrocervical trunk and its relevance in endovascular therapeutic procedures C. Pérez-García, A. Fernandez-Gonzalo, M. Echenagusia Boyra, M. González Leyte, L. Reparaz, E. Castro: Madrid/ES WITHDRAWN
- P-503 Usefulness of fusion cone-beam computed tomography (CBCT) imaging for detection of residual tumor in hepatocellular carcinoma patients treated with conventional TACE J.S. Oh, S.H. Kim, H.J. Chun, E.H. Kim, H.G. Lee, B.G. Choi; Seoul/KR
- P-504 Osteoid osteoma: state of art of the most common nonsurgical treatment A. Paladini, G.E. Vallati, G. Pizzi, V. Anelli; Rome/IT
- P-505 Fibrillar collagen injection for organ protection during thermal ablation of hepatic malignancies J.F.B. Chick, B. Majdalany, J.M. Willatt, R. Srinivasa, W.E.A. Saad; Ann Arbor, MI/US
- P-506 Stereotactic body radiation therapy for oligometastatic colorectal cancer: an illustrated overview for interventional radiologists A.A. Khankan¹, S. Al-Thaqfi², A.R. Jazieh², A. Al-Hadab²; ¹Jeddah/SA, ²Riyadh/SA
- P-507 Transarterial radioembolization of hepatocellular carcinoma: how to interpret post-treatment imaging P. Scalise, G. Lorenzoni, I. Bargellini, L. Crocetti, F. Turini, R. Cioni, D. Caramella; Pisa/IT
- P-508 Hemodynamic change in balloon-occluded transarterial chemoembolization (B-TACE): determining a good candidate for B-TACE Y. Kodama, Y. Sakurai, Y. Yoshino, Y. Yamamoto, R. Utsunomiya, T. Matsui, J.-H. Kang, K. Tsuji, H. Maguchi; Sapporo/JP
- P-509 Percutaneous microwave ablation of renal tumours: a pictorial review A. Ricoeur, S. Ilyas, A. Diamantopoulos, K.N. Katsanos, A. Adam; London/UK
- P-510 Liver function tests: a primer for the interventional radiologist S. Corneio: Phoenix, AZ/US WITHDRAWN



- P-511 MD-CT-guided percutaneous needle biopsy of lung lesions: anatomic considerations, different approaches, and techniques

 <u>U.G. Rossi</u>¹, P. Torcia¹, A.M. Ierardi¹, P. Rigamonti¹, F. Petrocelli², L.C. Pescatori¹, G. Carrafiello¹, M. Cariati¹; ¹Milan/IT, ²Genoa/IT
- P-512 Percutaneous image-guided thermal ablation for multifocal renal cell carcinoma: a 10-year experience at a single center W. Zhou, R. Arellano; Boston, MA/US
- P-513 Salvage thermal ablation of locally recurrent renal cell carcinoma following nephrectomy: assessment of safety and durability of clinical outcomes *W. Zhou, R. Arellano; Boston, MA/US*
- P-514 Interventions in the caudate lobe: ways to overcome this challenge <u>F.A.C. Junior,</u> A.R. Junior, F.L. Galastri, A.A.P. Azevedo, G.F. Mendes, R.G. Garcia; São Paulo/BR
- P-515 The role of interventional radiology in tracheobronchial stenting: clinical indications, preinterventional imaging, interventional radiological techniques and complications
 - S. Kudrnova, Z. Hussain, I. Ahmed, T. Sabharwal; London/UK
- P-516 Liver vein embolization to induce hypertrophy for extended hepatic surgery in ALPPS/rescue PVE cases

 R.D. Brüning, M. Zeile, G. Stavrou, K. Oldhafer; Hamburg/DE
- P-517 Ruptured hepatoblastoma during systemic chemotherapy treated by embolization and surgery

 J.H. Kim¹, U.B. Jeon¹, J.Y. Jang¹, C.W. Kim²; 'Yangsan/KR, 2Busan/KR
- P-518 A successful Y-90 glass microsphere splenic radioembolization in case of primary myelofibrosis splenomegaly

 P. Vilares Morgado, A. Oliveira, N.P. Silva, A. Fernandes, J. Pereira; Porto/PT
- P-519 Severe adverse events after TAE for a symptomatic carcinoid tumor T. Aramaki, R. Sato, K. Yoza, K. Iwai, K. Asakura, M. Endo; Shizuoka/JP
- P-520 Multidisciplinary management with TACE and EBRT for the treatment of HCC with tumor thrombus in IVC and the right atrium

 V.K. Doddaballapur Prasanna Kumar, M.L. Arunkumar; Trivandrum/IN
- P-521 Dramatic results of transarterial chemoembolization of massive hepatocellular carcinoma with macrovascular invasion and lung metastases (Barcelona Clinic Liver Cancer stage C): a report of 2 cases

 Y.J. Kanq¹, B.C. Lee¹, H.O. Kim², N.Y. Yim², J.K. Kim²; ¹Jeollanam-do/KR, ²Gwangju/KR

- P-522 Thermal injury to the proximal ureter following microwave ablation of endophytic renal tumours distant to the pelvicalyceal system K. Cortis, S. Degiorgio, C. Cannataci; Msida/MT
- P-523 Transarterial chemoembolization for lung and mediastinal metastases of HCC after failure of sorafenib treatment Y. Kodama, Y. Sakurai, Y. Yoshino, Y. Yamamoto, R. Utsunomiya, T. Matsui, J.-H. Kang, K. Tsuji, H. Maguchi; Sapporo/JP
- P-524 A case of advanced maxillary sinus carcinoma treated with superselective intraarterial infusion of high-dose cisplatin with concomitant radiotherapy (RADPLAT) using 3D-DSA and fusion image K. Motohashi, H. Ashida, Y. Nozawa, K. Morikawa; Tokyo/JP
- P-525 Massive HCC involving left and right hepatic lobes effectively treated with two subsequent SIRTs using a Y90 glass microsphere E. Oliboni, G. Taddei, M. Salgarello, F. Severi, G. Carbognin; Negrar - Verona/IT
- P-526 Intraoperative ultrasound-guided transection plane with microwave ablation for staged hepatectomy L. Monfardini, L. Bonello, G. Zimmitti, E. Rosso, S. Magnaldi; Brescia/IT
- P-527 Pancreatic acinar cell carcinoma liver metastases treated exclusively with selective internal radiation therapy using Y-90 resin microspheres D.L.N. Martins, F.A.C. Junior, A.A.P. Azevedo, L.G.M. Valle, J.M. Motta-Leal-Filho, R. Noronha Cavalcante, F.L. Galastri, B.B. Affonso, R.G. Garcia, F. Nasser; São Paulo/BR
- P-528 Resolution of a large arterioportal shunt in the setting of hepatocellular carcinoma after administration of sorafenib F. Farzanegan; Sacramento, CA/US
- P-529 HIFU for pancreatic cancer: a 5-year follow-up case report V.A. Solovov; Samara/RU
- P-530 Successful downstaging of HCC by cystic artery embolization J. Smirniotopoulos, D. Holzwanger, J. Cornman-Homonoff, M. Schiffman; New York, NY/US
- P-531 Long-term control of the Doege-Potter syndrome treated by thermoablation in a recurrent non-resectable solitary fibrous tumor of the pleura C. Allimant, A. Denys; Lausanne/CH
- P-532 Complete response (CR) of transarterial chemoembolization with doxorubicineluting beads in a ruptured hepatocellular carcinoma: a report of 2 cases Y.J. Kang¹, B.C. Lee¹, N.Y. Yim², H.O. Kim², J.K. Kim²; ¹Jeollanam-do/KR, ²Gwangju/KR



- P-533 Transarterial embolisation of liver metastasis in the management of severe Cushing syndrome in a patient with end-stage adrenocortical carcinoma <u>C. O'Rourke</u>, M.P. Brassil, E. O'Dwyer, P. Govender, W. Torreggiani; Dublin/IE
- P-534 Combination interventional techniques for advanced HCC S. Prakash, S.S. Khela, A. Sood; Ludhiana/IN
- P-535 Leiomyosarcoma gluteal metastases embolization F. Petrocelli, A. Utili, G. Bovio; Genoa/IT
- P-536 Successful salvage cryoablation of a urothelial cell carcinoma in a solitary kidney L. Colléter, C. de Margerie-Mellon, C. de Bazelaire, E. de Kerviler; Paris/FR
- P-537 Duodenal stenting through the biliary access

 <u>J.V. Del Cerro González</u>, N. Mimica Haasz, C.L. Martínez Higueros; Guadalajara/ES
- P-538 PET-MRI and ultrasound imaging fusion in transrectal prostate biopsy: a diagnosis of prostatic tumor residue in the ductus deferens

 <u>L.G.M. Valle</u>, A.A.P. Azevedo, A.R. Junior, J.R. Andrade, P.R.B. Silverio, O. Smaletz,
 R.G. Garcia: São Paulo/BR

Others

- P-539 Aortic aneurysm screening using an oscillometric device equipped with a novel algorithm analyzing pulse wave transfer

 <u>S. Ichihashi</u>', T. Hashimoto¹, S. Iwakoshi¹, K. Saeki², K. Obayashi², K. Kichikawa¹;

 ¹Kashihara/JP, ²Nara/JP
- P-540 Balloon pulmonary angioplasty for treating chronic thromboembolic pulmonary hypertension: initial experience at a North American centre

 <u>R. Zener</u>, M. Rivers-Bowerman, M. de Perrot, J. Granton, K.T. Tan; Toronto, ON/CA
- P-541 Ultrasound-assisted catheter-directed thrombolysis versus systemic fibrinolysis in intermediate-risk pulmonary embolism: a meta-analysis

 <u>A.D. Copoeru</u>; Cluj-Napoca/RO
- P-542 Endovascular thrombolysis for extremity frostbite decreases digital amputation and hospital length of stay (LOS)

 N.A. Patel¹, D. Srinivasa¹, R. Srinivasa¹, J.J. Gemmete¹, K. Cooper¹, V. Krishnamurthy¹, N. Dasika¹, E. Sears¹, S. Reddy², J.F.B. Chick¹; ¹Ann Arbor, MI/US, ²Bryn Mawr, PA/US
- P-543 Regional intra-arterial steroid treatment in 120 patients with steroid-resistant or -dependent hepatic and/or gastrointestinal graft-versus-host disease: evaluation of safety, efficacy, predictors of response, and survival

 <u>A. Bloom</u>, A. Klimov, S. Grisaro, B. Avni, R. Or, M. Shapira; Jerusalem/IL

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- P-544 Percutaneous mechanical thrombectomy in patients with high-risk pulmonary embolism and contraindications for thrombolytic therapy P. Popovic, M. Stabuc, R. Dezman, K. Steblovnik, M. Bunc, S. Zorman; Ljubljana/Sl
- P-545 Contrast-enhanced ultrasonography-guided elective prostate artery embolizations: a case series E. Nzekwu, A. Lee, A. Mirakhur, D. Bakshi; Calgary, AB/CA
- P-546 The role of CT perfusion volumetry in post-traumatic splenic artery embolization A. Nivolli, M. Arnò, D. Ivaldi, P. Gazzo; Pietra Ligure/IT
- P-547 Diagnosis and treatment of non-traumatic chylothorax using advanced lymphatic imaging and percutaneous lymphatic embolization G.J. Nadolski, M. Itkin; Philadelphia, PA/US
- P-548 A territorial model for radioembolization activity and dose calculation N. Traulsen¹, P. Schilling², S. Thoduka², N. Abolmaali², A. Schenk³; ¹Lübeck/DE, ²Dresden/DE, ³Bremen/DE
- P-549 Proof of concept of a gene-directed enzyme prodrug therapy with intra-arterial delivery of mesenchymal stem cells in a rabbit VX2 hepatic tumor model O. Pellerin, I. Amara, P. Beaune, I. de Waziers, C. Déan, M.R. Sapoval; Paris/FR
- P-550 Prophylactic temporary occlusion of the cystic artery using a fibered detachable coil during 90Y radioembolization J.W. Choi¹, H.H. Chu¹, H.-C. Kim¹, S. Hur¹, M. Lee¹, S.B. An², J.W. Chung¹; ¹Seoul/KR, ²Busan/KR
- P-551 Planning and simulation of cryoablation in the prostate J. Georgii, T. Pätz, C. Rieder, T. Preusser; Bremen/DE
- P-552 Smartphone apps as a source of information on interventional radiology V. Wadhwa¹, B. Jacks¹, D. Dubey², M.E. Meek¹, D. Bricco¹; ¹Little Rock, AR/US, ²Rochester, MN/US
- P-553 Interventional radiology activation score for trauma: early prediction of need for emergency endovascular therapy in trauma care T. Yokoyama, Y. Tanahashi, H. Kuwamura, S. Toshimasa, T. Yamamoto, M. Yamamoto, H. Kondo, S. Furui; Tokyo/JP
- P-554 Let's bridge the gap: changing current misconceptions of female medical students about the field of interventional radiology A. Diaz, V. Kumar, S.G. Marcus, E. Lehrman, J.M. LaBerge, M.P. Kohi; San Francisco, CA/US



P-555 Perceptions and awareness of interventional radiology amongst medical students and junior doctors

<u>S. Muzumdar</u>; Leeds/UK

- P-556 Improving hard stop safety time-out in interventional radiology using a verbal electronic surgical safety checklist linked to electronic health records <u>R.N. Uppot</u>, A. Yu, K.S. Burke, D. Trifanov, T. Mills, G.M. Salazar, T.K. Koo, A.B. Haynes, C. McCarthy; Boston, MA/US
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- P-557 Reach out and educate someone: evaluating outreach and impact of an online webinar-based interventional radiology elective <u>S.G. Marcus</u>¹, V. Kumar¹, A. Diaz¹, N. Diab², E. Lehrman¹; ¹San Francisco, CA/US, ²El Paso, TX/US
- P-558 Randomized controlled trial comparing simple light dressing (transparent film dressing) versus pressure dressing (Elastoplast dressing) after femoral arterial sheath removal

 J.J. Liu; Singapore/SG
- P-559 The role of interventional radiology in the management of pediatric patients following living donor liver transplant (LDLT): a 10-year single-institution experience

 R.W. England, J. Weintraub, J. Susman, D. Sperling, V. Sheynzon, P. Schlossberg, S. Chheana, S. Reis, D. Mobley; New York, NY/US
- P-560 Risk factors for oversedation in interventional radiology

 J. Martin, Z.L. Bercu, H.N. Shekhani, M. Kassin, J. Newsome; Atlanta, GA/US
- P-561 Safety of radiofrequency ablation of benign thyroid nodules and recurrent thyroid cancers: a systematic review and meta-analysis

 S.R. Chung¹, J.H. Baek¹, D.W. Kim², C.H. Suh³, Y.J. Choi¹, J.H. Lee¹; ¹Seoul/KR, ²Taean/KR,
 ³Namwon-si/KR
- P-562 Catching breath: a feasibility study to monitor respiratory motion directly using a novel ultrasound-based monitor

 <u>M. Kroes</u>, Y. Hoogeveen, F. de Lange, L.J. Schultze Kool; Nijmegen/NL
- P-563 Feasibility of transrectal and transperineal fiducial marker placement for prostate cancer before proton therapy

 K. Ohta, H. Ogino, H. Iwata, S. Hashimoto, Y. Hattori, K. Nakajima, M. Yamada,

 M. Shimohira, Y. Shibamoto, J.-E. Mizoe; Nagoya/JP

- P-564 Fluoroscopy-guided artificial pneumoperitoneum formation for the management of air leak after pulmonary resection S.H. Kwon, J.H. Oh; Seoul/KR
- P-565 Radiofrequency ablation for benign non-functioning thyroid nodules: results at the 6-month follow-up F. Morelli, A. Sacrini, G. Pompili, A. Borelli, A.M. Ierardi, C. Floridi, S.A. Angileri, L. De Pasquale, G. Carrafiello; Milan/IT
- P-566 Congenital heart disease complicated by protein-losing enteropathy: redefining pathophysiology and providing novel therapy G.J. Nadolski, M. Itkin: Philadelphia, PA/US
- P-567 Utilization of magnetic resonance lymphangiography to determine the etiology of chylothorax and predict the outcome of lymphatic embolization in patients with congenital heart disease M. Itkin, J. Savla, Y. Dori; Philadelphia, PA/US
- P-568 Percutaneous image-guided cryoablation as a second-line therapy for soft-tissue venous vascular malformations of extremities: a prospective study of safety and 6-month efficacy F.H. Cornelis¹, <u>C. Marcelin</u>², C. Labreze², Y. Le Bras², N. Grenier²; ¹Paris/FR, ²Bordeaux/FR
- P-569 Percutaneous cryoablation of symptomatic venous vascular malformations as the second-line therapeutic option: a 5-year single-institution experience F.H. Cornelis¹, F. Marin², C. Marcelin², C. Labreze², Y. Le Bras², N. Grenier²; ¹Paris/FR, ²Bordeaux/FR
- P-570 Quantification of balloon pulmonary angioplasty (BPA) results in patients suffering from inoperable chronic thromboembolic pulmonary hypertension (CTEPH) using 2D-perfusion angiography (2D-PA) J.B. Hinrichs, J. Renne, T. Werncke, M.M. Hoeper, K.M. Olsson, F.K. Wacker, B.C. Meyer, S.K. Maschke; Hannover/DE
- P-571 Analysis of venoplasty in pediatric Budd–Chiari syndrome: an 8-year experience J.K. Rai, G. Warawdekar, N. Karnik, K. Prasad; Mumbai, Maharashtra/IN
- P-572 Outcomes of 143 cases of percutaneous hydrodynamic rheolytic thrombectomy (Angiojet) with a long-term follow-up: an endovascular first approach T.Y. Chan, U. Hayat, R. Bana, J.J. Wong, U. Shaikh; Liverpool/UK
- P-573 Lymphangiography and thoracic duct embolization (TDE) following unsuccessful thoracic duct ligation: imaging findings and outcomes G.J. Nadolski, M. Itkin; Philadelphia, PA/US



P-574 Catheter-directed intra-arterial thrombolysis of frostbite injuries of hands and feet H.I. Manninen¹, P. Saari¹, N. Sillanpää²; ¹Kuopio/FI, ²Tampere/FI

- P-575 Principles and techniques for endovascular embolization in urgent trauma cases <u>U.G. Rossi</u>, A.M. Ierardi, P. Torcia, P. Rigamonti, L.C. Pescatori, R. Foà, G. Carrafiello, M. Cariati; Milan/IT
- P-576 Role of interventional radiology in the management of post-sleeve gastrectomy complications

 <u>A.R. Barah</u>, A. Sayedin, O. Almokdad, V. Nkc, E. Musa, N. Khidir, A. Almuzrakchi,
 M. Gomaa, A. Omar; Doha/QA
- P-577 The first interventional radiology training programme in the United Kingdom: setup, implementation and lessons learnt <u>J.A.B. Soares</u>¹, B. Huasen², A. Craig²; ¹Manchester/UK, ²Preston/UK
- P-578 Obtaining consent for interventional radiology procedures: a primer for radiology residents

 B. Jacks, <u>V. Wadhwa</u>, N.B. Gutta, M.E. Meek, D. Bricco; Little Rock, AR/US
- P-579 Entrustable professional activities for interventional radiologist trainers A.G. Ryan¹, J. Laurinkiene¹, J. Hennebry¹, A. Stroiescu¹, H.K. Moriarty², M. Knox², M. Ryan³, D.E. Malone²; 'Waterford/IE, 'Dublin/IE, 'Cork/IE
- P-580 Do not let hemodynamics shock you: understand the variables and the available tools

 <u>K. Kansagra</u>, G. Vatakencherry, C.H. Lam, Z. Zhang; Los Angeles, CA/US
- P-581 Yale interventional radiology periprocedural coagulation management guidelines I. Latich, E. Kapetanovic; New Haven, CT/US
- P-582 Radiology in social media: a 15-month trend M. Hailemariam, A. Sidhu, S. Handa, D. Lincoln; Southfield, MI/US
- P-583 Minimally invasive interventional procedures in patients with complications after lung transplantation

 <u>R. Miraglia</u>, L. Maruzzelli[†], S. Caruso[†], A. Di Piazza[†], S. Aquilna[‡], A. Luca[†]; [†]Palermo/IT,

 [†]Malta/MT
- P-584 Lymphangiography and interventional techniques in diagnosis and treatment of lymphatic leaks

 F.M. Gómez¹, D. Barnés¹, B. Leon Rocha², P.A. Patel³, S. Stuart³, R. García Marcos⁴,

 B.M. Horwitz², P. Bermudez¹, A. Cervera Araez¹, M. Burrel¹, M. Barrufet¹, J.M. Macho¹;

 ¹Barcelona/ES, ²Santiago De Chile/CL, ³London/UK, ⁴Valencia/ES

- P-585 Novel use of optical coherence tomography (OCT) for paediatric airway assessment following bioabsorbable bronchial stenting <u>V.G. Helyar</u>, A. Durward, P. James, A. Newton, J.J. Harvey, Z. Hussain, A. Ricoeur, S. Kudrnova, A. Diamantopoulos; London/UK
- P-586 Efficacy and safety of ethanol ablation for branchial cleft cysts <u>E.J. Ha</u>¹, S.M. Baek², J.H. Baek³; 'Suwon/KR, ²Busan/KR, ³Seoul/KR
- P-587 "Mind your saw" popliteal artery pseudoaneurysm post-knee replacement and management strategies
 S.A.R. Mustafa, M. Farhad, A. Syed, W. Adair; Leicester/UK
- P-588 The father of interventional radiology Dr. Charles T. Dotter C. Wickramarachchi; Reading/UK
- P-589 Successful removal of a malpositioned intrahepatic chest drain via tract embolization with n-butyl-2-cyanoacrylate

 <u>S. Takenaga</u>, K. Masuda; Tokyo/JP
- P-590 Fenestration of the portal vein: a rare anomaly R. Sato; Shizuoka/JP
- P-591 Cinacalcet induced parathyroid hemorrhage in a patient with chronic renal failure <u>H. Horinouchi</u>, T. Okada, K. Maruyama, R. Usui, T. Gentsu, R. Tani, N. Katayama, E. Ueshima, Y. Koide, K. Sofue, M. Yamaguchi, K. Sugimoto; Kobe/JP
- P-592 Percutaneous treatment of an idiopathic chylopericardium R.B. Levigard, F.D. Nogueira; Rio De Janeiro/BR
- P-593 Hemosuccus pancreaticus due to splenic artery aneurysm associated with segmental arterial mediolysis (SAM) successfully treated with transcatheter arterial coil embolization: a case report T. Nishiyama, M. Kamo; Tokyo/JP
- P-594 Treatment of refractory chylothorax and lymphocele by intranodal lymphangiography with lipiodol injection
 A. Tizro, C. Cinar, H. Bozkaya, M. Parildar, I. Oran; Izmir/TR
- P-595 Percutaneous cryoablation of reninoma
 <u>A. Pittaro</u>, C. Dengo, M. Battistel, G. Barbiero, G.P. Rossi, D. Miotto; Padova/IT
- P-596 Two cases of neonatal refractory chylothorax after surgery for congenital heart disease treated with percutaneous intranodal lymphangiography K. Matsunari, H. Fujisawa, K. Watanabe, N. Hasizume; Kanagawa/JP



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- P-598 A novel catheter fragment snaring technique without freeing the catheter end: successful retrieval of a dislodged catheter stuck to the coronary sinus M. Tsuda, T. Hasegawa, E. Kato, H. Hirooka, T. Watanabe; Sendai
- P-599 An unusual cyanosis after a Fontan operation
 A.F. Nicolini, M. Chessa, M. Triolo, V. La Mura; Milan/IT
- P-600 Percutaneous sclerotherapy for penile venous malformation presenting with per urethral bleeding

 M. Ahmed: Vellore/IN

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- P-601 Twenty-four-month results of the Tack Optimized Balloon Angioplasty (TOBA) study demonstrate the benefits of minimal metal implants for dissection repair after angioplasty

 <u>C. Wissgott</u>, F. Scheer, C.W. Luedtke, R. Andresen; Heide/DE
- P-602 Six-month patency of the Eluvia drug-eluting stent for long SFA occlusions: initial experience

 <u>V.G. Helyar</u>, P. Pipim, J.J. Harvey, S. Kudrnova, Z. Hussain, A. Ricoeur, I. Ahmed, K.N. Katsanos, A. Diamantopoulos; London/UK
- P-603 Is catheter directed thrombolysis obsolete for the treatment of acute limb ischemia with the new available mechanical thrombectomy devices?

 T.A.J. Urlings, S. Chandramohan, F.G. Irani, R. Kumar Muli Jogi, N.K. Venkatanarasimha, K. Damodharan, A. Patel, C.W. Too, A. Gogna, K.-H. Tay; Singapore/SG
- P-604 Real-world experience with a paclitaxel-coated balloon for the treatment of atherosclerotic infrainguinal arteries: 12-month results of the BIOLUX P-III all-comers registry

 <u>G. Tepe¹</u>, M. Brodmann², T. Zeller³, L. Spak⁴, J.-M. Corpataux⁵, J.K. Christensen⁶,
 K.F. Keirseˇ, G. Nano՞, C.A. Binkertゥ, H. Schroeder¹o; ¹Rosenheim/DE, ²Graz/AT,
 ³Bad Krozingen/DE, ⁴Kosice/SK, ⁵Lausanne/CH, ⁶Kolding/DK, ʾTienen/BE,
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- P-606 Randomized clinical trial to compare ultrasound-enhanced delivery of paclitaxel and DEB in patients with critical limb ischemia and femoral-popliteal disease: outcome of the PACUS trial after 18 months R. Gandini¹, C. Del Giudice²; ¹Rome/IT, ²Paris/FR
- P-607 Possible risk factors for restenosis after kissing stenting of iliac arteries M. Vértes, I.Z. Juhász, T.D. Nguyen, B. Nemes, K. Hüttl, E. Dósa; Budapest/HU
- P-608 Percutaneous deep venous arterialisation (limflow procedure) for end-stage critical limb ischaemia: early experience from 2 European centres C. Del Giudice¹, D.A. van den Heuvel², M.R. Sapoval¹, S. Kum³; ¹Paris/FR, ²Nieuwegein/NL, ³Singapore/SG
- P-609 The 6-month clinical experience with the novel multi-LOC multiple stent delivery system for focal stenting in femoro-popliteal lesions K. Amendt¹, U. Beschorner², M. Waliszewski³, R. Langhoff³, J. Thalwitzer⁴, U. Redlich⁵, B. Vogel⁶, D. Härtel⁷; ¹Mannheim/DE, ²Bad Krozingen/DE, ³Berlin/DE, ⁴Zwickau/DE, ⁵Magdeburg/DE, ⁶Heidelberg/DE, ⁷Detmold/DE
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- P-612 Does chronic outward force of nitinol stents in SFA trigger restenosis? Interim report of the BIOFLEX-COF study M.A. Funovics; Vienna/AT
- P-613 Supervised exercise therapy versus percutaneous angioplasty versus combined angioplasty and exercise for intermittent claudication: systematic review and Bayesian network meta-analysis of randomized controlled trials M. Pantelidou¹, K.N. Katsanos², R. Brar¹, S. Patel¹, A. Diamantopoulos¹, H. Zayed¹; ¹London/UK, ²Patras/GR
- P-614 Factors predicting outcome following catheter-directed thrombolysis in lower limb arterial occlusion H. Abbas, P. Maghsoudlou, S. Kotecha, L. Mihaila, L. Biasi, T. Donati, M. Sallam, H. Zayed, S. Patel; London/UK
- P-615 Tigris® stent in iliio-femoro-popliteal advanced disease: mid-term follow-up at a single centre P. Lucatelli, G. Tommasino, M. Cini, A. Benvenuti, G. Guaccio, E. Neri, C. Ricci; Siena/IT WITHDRAWN



P-616 "Angioplasty first" approach for critical limb ischemia: a 10-year experience at the Singapore General Hospital

W. Ni, K.-H. Tay, A. Patel, F.G. Irani, K. Damodharan, S. Chandramohan, C.W. Too,
S. Chan, L. Hoau Gong, T.A.J. Urlings, S. Leong, R. Kumar Muli Jogi, K.D. Zhuang,
N. Kumar Karaddi, T.T. Chong, S.G. Tan, S.P. Chng, B.S. Tan; Singapore/SG

- P-617 Multicenter feasibility study of microwave radiometry thermometry for noninvasive differential diagnosis of critical limb ischemia in diabetic patients S. Spiliopoulos¹, C. Lalenis¹, L. Reppas¹, K. Palialexis¹, C. Konstantos¹, K.N. Katsanos², P.M. Kitrou², V. Theodosiadou², P. Davlouros², E. Siores³, D. Karnabatidis², E. Brountzos¹;

 1Athens/GR, 2Patras/GR, 3Bolton/UK
- P-618 Peripheral endovascular interventions using human Thiel-embalmed cadavers with extracorporeal flow for medical device testing, development, and training *H.M. McLeod: Dundee/UK*
- P-619 Comparison of two drug-eluting balloons: Mid Yorkshire Hospital's experience <u>C. Hazar</u>', R. Frood', J. Lenton²; 'Leeds/UK, 'Wakefield/UK
- P-620 Endovascular distal venous arterialization for critical foot ischemia in patients with diabetes and undergoing dialysis with extremely calcified BTK vessels: a new frontier in limb salvage

 R. Gandini, S. Merolla, S. Abrignani, F. De Crescenzo, J. Scaggiante, E. Pampana;

 Rome/IT
- P-621 Two-year results from the IN.PACT global studies and outcomes in patients with diabetes

 M. Brodmann¹, G. Ansel², T. Zeller³, A. Micari⁴, P. Peeters⁵, G. Tepe⁶; ¹Graz/AT,

 ²Columbus, OH/US, ³Bad Krozingen/DE, ⁴Cotignola/IT, ⁵Bonheiden/BE, ⁶Rosenheim/DE
- P-622 Fractional flow reserve in below-the-knee arteries with critical limb ischemia: validation against the gold standard morphological and functional measures and long-term clinical outcomes

 Z. Ruzsa¹, S. Rona¹, B. Nemes¹, G. Toth², K. Hüttl¹, B. Merkely¹; ¹Budapest/HU, ²Graz/AT
- P-623 Dense coil packing in peripheral embolizations: a determinant of long-term occlusion in aneurysms and vessels

 <u>C. Teigen</u>¹, A. Swarnkar², J. Lynch³, M. Kabbani⁴, K. Liu⁵, D. Lopes⁶, E. Luong⁷, V.N. Bach⁷, S. Kuo⁷, N. Nguyen⁷, H. Buell⁷, A. Bose⁷, B. Baxter⁸; ¹Fargo, ND/US, ²Syracuse, NY/US, ³Milwaukee, WI/US, ⁴La Crosse, WI/US, ⁵Charlottesville, VA/US, ⁶Chicago, IL/US, ⁷Alameda, CA/US, ⁸Chattanooga, TN/US
- P-624 Autologous bone marrow progenitor cell transplantation for therapeutic angiogenesis in critical lower limb ischemia P. Phukan; Shillong/IN

- P-625 Quality of life in patients with iliac vein compression syndrome or iliac vein occlusion after endovascular treatment Y. Bi, X.-W. Han; Zhengzhou/CN
- P-626 The role of nonthrombotic iliac vein compression syndrome in patients with venous reflux disease M. Yin: Shanahai/CN WITHDRAWN
- P-627 Distal leg venous arterialization using limflow technology to treat critical limb ischemia: step-by-step procedure and tips and tricks to address immediate failure C. Del Giudice¹, D.A. van den Heuvel², T. Mirault¹, M.C. Courtois¹, S. Kum³, M.R. Sapoval¹; ¹Paris/FR, ²Nieuwegein/NL, ³Singapore/SG
- P-628 Development and initial evaluation of PICC placement unit J.S. Cardenas Herran, J.C. Rivera, R. Miron Mombiela, A. Talens, F. Sauri, J. Vicetic; Valencia/FS
- P-629 Kommerell's diverticulum causing the subclavian steal syndrome I. Paladini, R. Menozzi, P. Piazza, E. Epifani, A. Andreone, M. Fantoni, C. Marcato, C. Rossi: Parma/IT
- P-630 Balloon angioplasty of the donor artery after microvascular flap transplantation <u>U. Dzerkach</u>, I. Kalitko; Klin, Moskow Region/RU
- P-631 A case of a complex combination of femoropopliteal occlusive disease and aortovenous fistula treated under the guidance of the quantitative assessment of blood flow using color-coded digital subtraction angiography S. Iwakoshi, S. Ichihashi, K. Kichikawa; Kashihara/JP
- P-632 Dissection and acute common femoral artery occlusion after antegrade femoral puncture B. Rudenko, A. Shanoyan, F. Shukurov; Moscow/RU
- P-633 Use of a percutaneous puncture needle for true lumen re-entry during subintimal recanalization of the superficial femoral artery A.M. Aborahma: Tanta/EG
- P-634 Simultaneous antegrade/retrograde arterial access technique for endovascular treatment of popliteal artery transection Y.T. Kim¹, N.Y. Yim², H.O. Kim², J.K. Kim²; ¹Mokpo, Jeollanamdo/KR, ²Gwanqju/KR
- P-635 Endovascular treatment of a true tibioperoneal trunk aneurysm with balloonassisted coiling H.A. Durmaz, S. Akçalar, K. Yavuz, Ankara/TR



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- P-637 Immediate mechanical closure of femoral artery pseudoaneurysm with the MicroVascular Plug® in the setting of intra-arterial thrombolysis <u>Y. Aboufirass</u>¹, H. Jalaeian², D. D'Souza², J. Golzarian², R. Talaie²; ¹Brussels/BE, ²Minneapolis, MN/US
- P-638 Needle connection technique for long Fem-pop occlusion <u>T.Y. Wu; Taipei City/TW</u>
- P-639 Successful endovascular treatment of external iliac artery dissection causing renal allograft dysfunction

 <u>R.S. Sagoo</u>¹, A. Diamantopoulos², C. Imray¹, F. Lam¹, J. Harding¹; ¹Coventry/UK,

 ²London/UK
- P-640 Post-traumatic acute occlusion of the brachial artery in a child: management with an absorbable coronary stent

 R. Cervelli, F. Daviddi, L. Andreani, F. Tomei, I. Bargellini, R. Cioni, D. Caramella; Pisa/IT
- P-641 Creation of a percutaneous iliofemoral arterial bypass graft in a patient with a history of ligated left iliac arteries and failed fem-fem surgical bypass due to gunshot injury

 B. Arslan, A. Baadh, U.C. Turba; Chicago, IL/US
- P-642 Peaceful peripheral angioplasty turned bad <u>M. Vrtovec</u>, D. Joldic, B. Banovic, Z. Banovic; Ljubljana/SI
- P-643 Complex subclavian artery aneurysm treated with flow-modulating stent <u>T. Szpotan</u>, J. Ścibór; Lodz/PL
- P-644 Recanalization of iliac vein thrombosis to treat pelvic congestion syndrome <u>F. Petitpierre</u>¹, Y. Le Bras¹, C. Marcelin¹, N. Grenier¹, C. Boutami²; ¹Bordeaux/FR, ²Pessac/FR

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- P-645 Patient radiation exposure during 4537 vascular interventional procedures <u>D. Kuhelj</u>, U. Zdesar, M. Kovacic, D. Pekarovič, N. Mekiš, D. Žontar; Ljubljana/SI
- P-646 Proximal embolization of splenic artery in acute trauma: a retrospective study comparing the Penumbra occlusion device with other conventional coils or plugs <u>E. Jambon</u>¹, A. Hocquelet², F. Petitpierre¹, Y. Lebras¹, N. Grenier¹, F. Cornelis¹; ¹Bordeaux/FR. ²Pessac/FR

- P-647 Residual radioactivity in microcatheters after Y-90 radioembolization with glass and resin microspheres C.C. Pieper, C. Meyer, T.M. Haslerud, H.H. Schild, S. Ezziddin; Bonn/DE
- P-648 Measurement of radiation dose during a pulmonary percutaneous ablation procedure: a comparison between CT and CBCT E. Geledan, A. Chemin, V. Catena, C. Le Rest, X. Buy, J. Palussière; Bordeaux/FR
- P-649 Factors affecting the efficacy of protection glasess during interventional procedures R.M. Sanchez, E. Vano, J.M. Fernandez-Soto; Madrid/ES
- P-650 Are X-ray safety glasses mandatory for complex radiological vascular interventions M. Grau, R.P. Thomas, O. Eldergash, B. Schmuck, S. Bremer, A. Chavan; Oldenburg/DE
- P-651 Fluoroscopy time, air kerma, complexity, and safety of the 10 most common procedures in an IR unit at a tertiary care center J.A. Guirola, V. Mayoral Campos, C. Lahuerta, P. Ruiz-Manzano, M.J. Gimeno-Peribáñez, M.A. de Gregorio; Zaragoza/ES
- P-652 What interventional radiologists need to know about radiation protection J.M. Capilla Ampudia, N. Santamaría Arribas, J.M. Hernández Atance, A.F. Negoita; Fuenlabrada/ES
- P-653 ALARA principles for CT-guided infiltrations at DLP ≤ 30 mGycm G. Widmann, M. Fasser, R. Bale, W. Jaschke: Innsbruck/AT

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- P-654 Treatment of inferior pancreaticoduodenal arcade aneurysms in the setting of MALS: a 5-year experience S.S. Desai, S.A. Gupta, A.A. Nemcek, S.A. Resnick; Chicago, IL/US
- P-655 Efficiency of percutaneous angioplasty for renal artery stenosis (RAS): a 15-year single-center experience in a large tertiary care center H.I. de Sousa Guerreiro; Hamburg/DE
- P-656 Pancreaticoduodenal artery aneurysm associated with median arcuate ligament compression: our experience with endovascular treatment and review of the literature Y.J. Lee, A.W. Park, J.F. Angle, K. Hagspiel, S. Sabri, A. Uflacker, P.T. Norton;

Charlottesville, VA/US



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	Y.J. Lee ¹ , A.W. Park ¹ , K.D. Hasgspiel ¹ , S. Jeong ² , S.S. Sabri ¹ , L.R. Wilkins ¹ , J.F. Angle ¹ ,
	K.J. Cherry¹, A.H. Matsumoto¹: ¹Charlottesville, VA/US, ²Seoul/KR

- P-658 Combination of the double-microcatheter technique and triple-coaxial system in coil packing for visceral artery aneurysms

 <u>T. Goto</u>, M. Shimohira, T. Hashizume, K. Ohta, K. Suzuki, Y. Sawada, Y. Shibamoto;
 Nagoya/JP
- P-659 Endosaccular packing for visceral artery aneurysms with adjunctive techniques: long-term outcomes

 <u>A. Hara</u>, M. Maruno, H. Kiyosue, S. Tanoue, N. Hongo, S. Matsumoto, H. Mori; Yufu/JP
- P-660 Coronary stentgraft implantation for the management of acute visceral arterial bleeding

 P.P. Goffette, O. Ciccarelli, P.-F. Laterre, X. Wittebole, L. Coubeau; Brussels/BE
- P-661 Embolization of renal angiomyolipoma using a n-butyl-cyanoacrylate adhesive <u>E. Casula</u>, E. Nuñez Peynado, E. Lonjedo, J. Gomez Valdes, A. Ruiz Guanter; Valencia/ES
- P-662 Prognostic factors of transarterial embolization for hemostasis after pancreaticoduodenectomy

 <u>T. Kugiyama</u>, M. Koganemaru, K. Fujimoto, A. Kuhara, T. Abe; Kurume/JP
- P-663 Selective arterial embolization of renal tumor in a hybrid operating room simultaneously with laparoscopic partial nephrectomy: a new approach in renal surgery

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- P-664 Complications of ultrasound-guided renal core biopsy

 <u>P. Kauhanen</u>, S. Suoranta, E. Oksala, P. Karhapää, H.I. Manninen, S. Rautiainen;
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- P-665 Endovascular management of iatrogenic renal vascular injuries W. Zhanq, Z.P. Yan, J. Luo; Shanqhai/CN
- P-666 Review of prophylactic embolization of renal artery pseudoaneurysms detected by early postoperative CT after partial nephrectomy

 <u>S. Morita</u>, H. Yamazaki, K. Endo, S. Suzaki, S. Sakai; Tokyo/JP

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- P-668 Embolisation of gastrointestinal bleeding after open surgery A.B. Varava, S.L. Malov; Moscow/RU
- P-669 Adding value to preoperative superselective transarterial embolization using 3D-rotational angiography and cone-beam CT before laparoscopic partial nephrectomy S.-W. Hung, Y.-T. Lin, M.-C. Liu; Taichung/TW
- P-670 Endovascular management of iliac artery dissection during renal transplantation M.J. Maddock, J. Harding; Coventry/UK
- P-671 Treatment of a hepatic artery aneurysm in a patient with segmental arterial mediolysis using the pipeline embolization device R.N. Srinivasa, E. Hyatt, C. McDougall, M. Chamarthy, J. Barr, S.P. Kalva; Dallas, TX/US
- P-672 Endovascular management of acute SMA occlusion occurred during the transcatheter aortic valve implantation (TAVI) procedure E. Sugihara, S. Kawamoto, M. Yamakawa, E. Kashiwagi; Osaka/JP
- P-673 Can segmental arterial mediolysis (SAM) and cystic medial necrosis (CMN) coexist? N.B. Mani, J. Gould, E.T. Hall, M.D. Darcy; St. Louis, MO/US
- P-674 Ruptured pancreaticoduodenal arcade aneurysms with segmental arterial mediolysis treated by transcatheter coil embolization O. Ikeda, Y. Tamura, M. Eguchi, Y. Yamashita; Kumamoto/JP
- P-675 Endovascular treatment of spontaneous gastroduodenal artery rupture after arterial chemoport insertion J.M. Lee¹, J. Ohm², C.H. Kang³, W.-H. Lee⁴, S.B. Yang⁵; ¹Bucheon/KR, ²Daejeon/KR, ³Gangneung/KR, ⁴Cheonan/KR, ⁵Gumi/KR
- P-676 Exclusion of a highly angulated post-pancreatitis pseudoaneurysm of the superior mesenteric artery via the brachial artery M. Hennessy, M. Philippou, K. Hussey; Glasgow/UK
- P-677 Aneurysm at the left renal arterial bifurcation: successful treatment with a flowdiverting stent R.H. Portugaller, M. Eibisberger, H.A. Deutschmann; Graz/AT
- P-678 Tubular aneurysm of the hepatic artery: successful treatment with a flow-diverting stent R.H. Portugaller, M. Eibisberger, H.A. Deutschmann; Graz/AT



P-679 Flow-diverter stent in the management of splenic artery aneurysm: a case report M. Guerrero Hernandez¹, B.V. Granados¹, R. García Buen-Abad¹, C.G. Hinojosa¹, R. Gonzalez Rodriguez¹, A.J. Vázquez Mézquita²; ¹Mexico City/MX, ²Naucalpan De Juarez/MX

- P-680 NBCA embolization of a true splenic artery aneurysm: simulation with a 3D-printed model and treatment <u>E. Shibata</u>, H. Takao, S. Amemiya, O. Abe, K. Ohtomo; Tokyo/JP
- P-681 Through-and-through wire technique for endovascular treatment with AVP in high-flow renal AVF: a case report

 M.M. Nakano, E. Sohgawa, M. Hamuro, M. Nango, A. Jogo, S. Hamamoto,
 A. Yamamoto, Y. Miki; Osaka/JP
- P-682 Spontaneous gastroduodenal artery pseudoaneurysm hemorrhage embolized from the backdoor with coils

 <u>A. Ricoeur</u>, V.G. Helyar, A. Diamantopoulos; London/UK
- P-683 Percutaneous, trans-needle coil embolisation in endovascular inaccessible aneurysm of the splenic artery

 <u>F. Schellhammer</u>, M. Meyer, M. Oette; Köln/DE
- P-684 Embolization of a giant post-traumatic arteriovenous renal fistula with the new Penumbra POD system
 P. Torcia, S. Squarza, U.G. Rossi, P. Rigamonti, M. Cariati; Milan/IT
- P-685 A rare case of spontaneous extrahepatic arterioportal fistula: treatment with transarterial embolization using the Amplatzer vascular plug II <u>T. Claimon; Bangkok/TH</u>
- P-686 Successful parenchymal sparing embolization of large renal artery aneurysm in a patient with Marfan syndrome and aortic dissection

 A. Bharadwaz: Aarhus/DK
- P-687 Balloon-assisted coil embolisation (B.A.C.E.) of a wide-necked renal artery aneurysm in a single kidney using the Scepter CTM dual-lumen neurovascular microcatheter

 J.P. Das, E. Phelan, M.J. Lee; Dublin/IE
- P-688 Management of postoperative pseudoaneurysm after pancreaticobiliary surgery: case reports on parent artery embolization, stent-assisted coiling, and hybrid procedure

 Y. Kawahara', S. Kijima', Y. Koyashiki', A. Uqajin', T. Sasaki', H. Kanazawa',

H. Nakamura¹, K. Utano², H. Sugimoto¹; ¹Shimotuke-shi, Tochigi/JP, ²Fukushima/JP

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- P-689 Early volumetric and functional imaging assessment of portal vein embolisation H. Donato, H. Alexandrino, M. Duque, P. Belo Oliveira, P. Donato, A.G. Agostinho, F. Caseiro-Alves: Coimbra/PT
- P-690 Management of spontaneous splenorenal shunt during TIPS implantation in patients with cirrhosis and variceal bleeding: a single-center experience M. Allegritti¹, B. Enrico¹, A. Leonardi¹, J. Tesei¹, F. Viti¹, G. Passalacqua²; ¹Terni/IT, ²Avezzano/IT
- P-691 Effect of portal vein embolization on extrahepatic metastases growth rates: a retrospective analysis H. Baydoun, A. Gotra, D. Spillane, N. Molla, A. Bessissow, D.A. Valenti, L.-M.N.J. Boucher: Montreal, OC/CA
- P-692 Feasible and technical aspects of a new technique for ipsilateral percutaneous transhepatic portal vein embolization T. Oda; Osakasayama/JP
- P-693 Portal vein embolization: an updated analysis of the effect of porto-portal collaterals and segment IV obliteration on hypertrophy of the future liver remnant in 70 patients M. Zeile, G.A. Stavrou, M.H. Fard-Aghaie, H. Hentschel, V. Rempel, A. Stang, K.J. Oldhafer, R.D. Brüning; Hamburg/DE
- P-694 C-arm cone-beam CT for intraprocedural image fusion and 3-D guidance in portal vein embolization (PVE) W.M. Luedemann¹, G. Böning¹, J. Chapiro², M. Jonczyk¹, R.W. Günther¹, B. Gebauer¹, B. Hamm¹, F. Streitparth¹; ¹Berlin/DE, ²New Haven, CT/US
- P-695 Cost analysis using Viatorr stent vs. Fluency/Wallstent for TIPS at a community hospital K.K. Zhana¹, S. Dodakashi², B. McCabe³, R. Ahuja³; ¹New York, NY/US, ²Rahway, NJ/US, ³Philadelphia, PA/US
- P-696 Transjugular intrahepatic portosystemic shunt (TIPS) in the treatment of patients with symptomatic Budd-Chiari syndrome: patency assessment, overall survival, and long-term results I. Paladini, F. Barbosa, N. Monzio Compagnoni, A. Militi, R. Vercelli, C. Migliorisi, M. Nichelatti, M. Solcia, A. De Gasperi, A. Airoldi, A.G. Rampoldi; Milan/IT
- P-697 Transjugular intrahepatic portosystemic shunt through the strut of a previously placed stent: long-term follow-up results M. Ahmed, S. Nidugala Keshava, V. Moses; Vellore/IN



- P-698 Evaluation of 3D overlay during transjugular intrahepatic portosystemic shunt (TIPS) procedure

 A.H. Fairchild¹, E.J. Hohenwalter¹, S.B. White¹, R. Sester², E. Weil¹, W.B. Lea¹, P. Patel¹, S.M. Tutton¹, W.S. Rilling¹, R.A. Hieb¹; ¹Milwaukee, Wl/US, ²Washington, DC/US
- P-699 Clinical experience with real-time 3D guidance based on C-arm-acquired conebeam CT (CBCT) in transjugular intrahepatic stent shunt (TIPSS) placement <u>G. Böning</u>¹, W.M. Luedemann¹, J. Chapiro², M. Jonczyk¹, G. Wieners¹, D. Schnapauff¹, D. Geisel¹, B. Gebauer¹, R.W. Günther¹, F. Streitparth¹; 'Berlin/DE, ²New Haven, CT/US
- P-700 Flow model to replan TIPS revision in patients suffering from post-TIPS hepatoencephalopathy due to excessive shunting

 K.K. Zhang¹, M.J. Miller², T. Smith³, P. Suhocki³; ¹New York, NY/US, ²Atlanta, GA/US, ³Durham, NC/US
- P-701 Transjugular intrahepatic portosystemic shunt (TIPS) dysfunction: quantitative assessment of perfusion changes using 2D-perfusion angiography (2D-PA) following shunt revision

 S.K. Maschke, J. Renne, T. Werncke, F.K. Wacker, B.C. Meyer, J.B. Hinrichs; Hannover/DE
- P-702 Therapeutic efficacy and patency of primary stenting in patients with chronic portal vein thrombosis

 <u>D.Y. Lee</u>, J.H. Kwon, M.D. Kim, K. Han, G.M. Kim, J.Y. Won, Y.S. Kim, J. Lee, W. Choi; Seoul/KR
- P-703 Combined tissue and portal venous sampling informs biomarkers of dynamic immune aberrancy and hepatic fibrosis in chronic hepatitis C (HCV)

 <u>S. Leonard</u>, R. Ali, O. Etzion, T. Heller, V. Krishnasamy, B.J. Wood, E. Levy;

 Bethesda, MD/US
- P-704 BRTO vs PARTO for gastric variceal bleeding using sodium tetradecyl sulfate (STS) in a single US medical center <u>S.K. Kim</u>, N.B. Mani; St. Louis, MO/US
- P-705 The influence of puncture sites on the portal vein during TIPS with ePTFE-covered stents on postoperative clinical efficacy: 3-year follow-up results J.-B. Zhao; Guangzhou/CN
- P-706 Long-term outcomes of percutaneous transhepatic stent placement for portal vein stenosis or thrombosis after liver transplantation <u>H.D. Jung</u>; Anyang-si/KR
- P-707 Long-term outcome of portal vein angioplasty or stent placement in pediatric liver transplant recipients
 G.-Y. Ko, J.J. Shim, K.W. Yoon, K.-B. Sung, D.I. Gwon, H.K. Ko, J.W. Kim; Seoul/KR

- P-708 Study of interventional treatments for chronic portal vein occlusion and cavernous transformation with symptomatic portal hypertension L.M. An, J. Luo, H. Wang, Z. Jiang; Guangzhou/CN
- P-709 Transjugular liver biopsy after TIPS/DIPS: Is it feasible, effective, and safe C. Kaufman, H. Aryafar, J. Minocha, T.B. Kinney; San Diego, CA/US
- P-710 Prospective assessment of ultrasound-guided method for hepatic vein cannulation (JASH method), portal pressure measurement, and transjugular liver biopsy: a back-to-back non-inferiority study P. Solis-Muñoz, P. Lastra González, M. Gimeno Rodríguez, R. Fernández Narros; Madrid/ES
- P-711 Ten-year outcome of transjugular intrahepatic portosystemic shunt treatment for Budd-Chiari syndrome S. Spiliopoulos, L. Reppas, C. Konstantos, C. Lalenis, K. Palialexis, M. Tsitskari, D.K. Filippiadis, A.D. Kelekis, E. Brountzos: Athens/GR
- P-712 One-step minilaparotomy-assisted transmesenteric anterograde portal vein recanalization and transjugular intrahepatic portosystemic shunt for portal cavernoma-induced variceal bleeding in 3 patients R. Corti, P. Quaretti, L.P. Moramarco, N. Cionfoli, G. Leati, I. Fiorina, M. Maestri; Pavia/IT
- P-713 How useful it is to use combined approaches to get successful insertion of TIPS into portal thrombosis and cavernomatosis? M.E. Perez Montilla, S. Lombardo Galera, J.J. Espejo Herrero, L.J. Zurera Tendero; Córdoba/FS
- P-714 Endovascular treatment of refractory hepatic encephalopathy S.J. Kruger; Melbourne, VIC/AU
- P-715 Advanced portal vein access using IVUS/ICE for portal vein decompression, variceal embolization, and portal vein recanalization H. Aryafar, T.B. Kinney; San Diego, CA/US
- P-716 Balloon-occluded retrograde transvenous obliteration for duodenal varices T. Okada, K. Maruyama, H. Horinouchi, R. Usui, T. Gentsu, R. Tani, N. Katayama, E. Ueshima, Y. Koide, K. Sofue, M. Yamaguchi, K. Sugimoto; Kobe/JP
- P-717 Splanchnic venous thrombosis and Janus kinase 2 (JAK2) mutation S. Gilyard, R.M. Ermentrout, W.S. Lindquester, G.L. Peters; Atlanta, GA/US
- P-718 Endovascular intervention through liver tissue in the treatment of portal hypertension K. Baizhanuly; Astana/KZ



P-719 Modified balloon-occluded retrograde transvenous obliteration (BRTO) techniques for the treatment of gastric varices: balloon-occluded antegrade transvenous obliteration (BATO)/vascular plug-assisted retrograde transvenous obliteration (PARTO)/coil-assisted retrograde transvenous obliteration (CARTO)

S.K. Kim¹, N.B. Mani¹, M.D. Darcy¹, A.W. Park²; 'St. Louis, MO/US, 2Charlottesville, VA/US

- P-720 How do I TIPS this: tricks to accomplish the difficult TIPS placement A.F. Jon, A.A. Hussain, P. Kisza; Newark, NJ/US
- P-721 TIPSS AND TRICKS: the use of the TIPSS procedure in acute and chronic portal vein thrombosis

 M. Shah, G. Ramjas, S. Whitaker, A. Shah, R. O'Neill, S. Travis; Nottingham/UK
- P-722 Trans-splenic approach: an option when conventional TIPS goes wrong

 R. Gonzalez Rodriguez, P.M. Dautt Medina, M. Guerrero Hernandez; Mexico City/MX
- P-723 Different approaches for portal recanalization with cavernomatous degeneration M. Guerrero Hernandez, R. García Buen-Abad, B.V. Granados, R. Gonzalez Rodriguez; Mexico City/MX
- P-724 Preoperative portal vein embolization through splenic vein access <u>C.H. Kang¹</u>, S.B. Yang², Y.J. Kim³, J.M. Lee⁴, W.-H. Lee⁵; ¹Gangneung/KR, ²Gumi/KR, ³Jeonju-si/KR, ⁴Bucheon/KR, ⁵Cheonan/KR
- P-725 A rare congenital noncirrhotic extrahepatic portosystemic shunt causing adultonset encephalopathy treated with an endovascular procedure <u>M. Allegritti</u>¹, B. Enrico¹, A. Leonardi¹, J. Tesei¹, F. Viti¹, G. Passalacqua²; ¹Terni/IT, ²Avezzano/IT
- P-726 Percutaneous transhepatic coronary vein and posterior gastric vein embolization to restore the reduced portal flow after living donor liver transplantation <u>J.M. Lee¹</u>, J. Ohm², C.H. Kang³, W.-H. Lee⁴, S.B. Yang⁵; ¹Bucheon/KR, ²Daejeon/KR, ³Gangneunq/KR, ⁴Cheonan/KR, ⁵Gumi/KR
- P-727 Percutaneous embolization treatment of parastomal ectopic variceal bleeding A. Tizro, C. Cinar, H. Bozkaya, M. Parildar, I. Oran; Izmir/TR
- P-728 Modified coil-assisted retrograde transvenous obliteration (CARTO) for gastric varices: a report of two cases

 <u>E. Idaka</u>, K. Uotani, A. Hamanaka, Y. Yamasaki, K. Obana, K. Matsushiro, T. Kushima;
 Sumoto/JP
- P-729 A case of hepatocellular carcinoma (HCC) rupture after B-RTO for gastric varices Y. Munetomo, S. Yamazoe, A. Baba, Y. Kobashi, T. Mogami; Chiba/JP

- P-730 Percutaneaous embolization of a congenital portocaval shunt improved encephalopathy L. Escal, J. Delicque, M.-A. Pierredon Foulongne, V. Schembri, B. Guiu; Montpellier/FR
- P-731 Duodenal variceal bleeding embolization through dual venous access M. de Dios Lascuevas, M. González Leyte, A. Alvarez Luque, G. Rodriguez-Rosales, M. Echenagusia Boyra, E. Calleja Cartón, E.E. Daguer Tamayo, F. Camuñez; Madrid/ES
- P-732 Hepatofugal flow in the portal vein secondary to a large splenorenal shunt in a pediatric liver transplant recipient: diagnosis and minimally invasive endovascular treatment R. Miraglia, L. Maruzzelli, F. di Francesco, J. de Ville de Goyet; Palermo/IT
- P-733 Three-dimensional printing facilitates successful endovascular closure of a type II Abernethy malformation using the Amplatzer atrial septal occluder device J.F.B. Chick, W.E.A. Saad; Ann Arbor, MI/US
- P-734 Combined percutaneous transhepatic transjugular intrahepatic portosystemic shunt in an adult patient with cavernous transformation of the portal vein (PV) and a completely calcified PV remnant R. Miraglia¹, L. Maruzzelli¹, S. Aquilna², A. Luca¹; ¹Palermo/IT, ²Malta/MT
- P-735 BRTO for rectal varices with liver cirrhosis M. Nakamura: Izumo/JP
- P-736 Portal vein stent placement in ectopic variceal bleeding with extrahepatic portal vein obstruction after pylorus-preserving pancreatoduodenectomy Y.J. Kang¹, H.O. Kim², N.Y. Yim², J.K. Kim², <u>B.C. Lee</u>¹; ¹Jeollanam-do/KR, ²Gwangju/KR
- P-737 Coil-assisted retrograde transvenous obliteration of a duodenal varix with the superior mesenteric vein to right ovarian vein shunt S.J. Lee, G.S. Jeon, J.T. Lee; Seongnam-si, Gyeonggi-do/KR
- P-738 Rare case of hepatic encephalopathy secondary to a non-cirrhotic extrahepatic portosystemic shunt treated with endovascular closure J.E. Rogers, B.C. Seaton, C. Stephens; Knoxville, TN/US
- P-739 TIPS reduction³ F. Alabdulghani; Dublin/IE
- P-740 Successful balloon-occluded retrograde transvenous obliteration (BRTO) for large gastric varices using selective coil embolization of multiple hepatofugal collateral vessels Y. Masuda, K. Kuroki, T. Kariyasu, H. Tateishi, Y. Kinoshita, H. Shiga, M. Watanabe, K. Yokoyama; Tokyo/JP



- P-741 Successful coil-assisted transvenous obliteration (CARTO) of isolated gastric varices in a patient with pancreas tail neuroendocrine tumor and chronic portal and splenic vein thrombosis

 S.K. Kim, N.B. Mani, M.D. Darcy, S. Connolly; St. Louis, MO/US
- P-742 Transjugular intrahepatic portosystemic shunt in an alpha-1 antitrypsin deficient child L. Kelley, A. Willis, S. Jen, E. Rotem; Augusta, GA/US
- P-743 An uncommon case of a post-traumatic portal vein pseudoaneurysm treated with percutaneous transhepatic stent grafting

 F. Pesapane, C. Floridi, A.M. Ierardi, S.A. Angileri, A. Magenta Biasina, M. Zaffaroni,
 F. Patella, E.M. Fumarola, G. Carrafiello; Milan/IT
- P-744 Percutaneous trans-splenic and trans-hepatic combined approach for portal vein stenting and TPA infusion in chronically occluded portal venous segments in status post-right extended hepatectomy for Klatskin tumour A. Shrivastava, L.-M.N.J. Boucher, A. Bessissow; Montreal, QC/CA
- P-745 Simultaneous treatment of ruptured rectal varices and duodenal varices: a case report

 M. Yabuta, K. Yagihashi; Tokyo/JP
- P-746 Portal vein bleeding due to pancreatitis and biliary fistula after liver transplant: treatment with an iliac limb stentgraft extension placement <u>V. Tacher</u>, M. Vitellius, E. Hérin, H. Kobeiter; Créteil/FR
- P-747 3D printing facilitates endovascular closure of a large type 2 Abernethy malformation using the Amplatzer septal occluder <u>S.H. Allgeier</u>, J.F.B. Chick, W.E.A. Saad; Ann Arbor, MI/US
- P-748 Percutaneous transhepatic treatment of portal stenosis by placement of a balloonexpandable covered stent in a 2-years-old liver transplanted patient M. Calandri, C. Gazzera, D. Righi, M.A. Ruffino, P. Fonio; Turin/IT
- P-749 Successful stentangioplasty of the left renal vein for the treatment of nutcracker syndrome and portal hypertension

 P. Heiss; Regensburg/DE

Urinary tract intervention

P-750 Clinical results after prostatic artery embolization (PAE) for bothersome lower urinary tract symptoms (LUTS) due to BPH: a single-center study of 109 patients <u>G. Amouyal</u>, O. Pellerin, N. Thiounn, C. Del Giudice, M. Nouri Neuville, C. Déan, M.R. Sapoval; Paris/FR

- P-751 Retrograde transvesical ureteral stent exchange by interventional radiology at a tertiary oncology centre: techniques and experience in 134 procedures D. Mulholland, M. Ryan; Dublin/IE
- P-752 Safety and effectiveness of different types of embolic materials in the treatment of testicular varicoceles G.C. Makris, E. Efthymiou, M.W. Little, A.J. Wigham, S. Anthony, R. Uberoi, C.R. Tapping; Oxford/UK
- P-753 Unilateral left-sided transcatheter varicocele coil embolization for the management of symptomatic bilateral varicoceles M. Hadi, G.C. Makris, P. Boardman, C.R. Tapping; Oxford/UK
- P-754 Retrograde access on VUJ is a useful vantage for urological interventions I.M.G. Kelly, J.J. Morrow, I. Cullen, P. Daly; Waterford/IE
- P-755 Left varicocele sclerotherapy: tips and tricks to reduce patient radiation exposure <u>U.G. Rossi</u>, A.M. Ierardi, P. Torcia, P. Rigamonti, L.C. Pescatori, R. Foà, G. Carrafiello, M. Cariati: Milan/IT
- P-756 Ureteroarterial fistula presenting as perirenal hematoma after percutaneous nephrostomy J.H. Hwanq¹, S.J. Lee², G.S. Jeon², J.T. Lee²; ¹Seoul/KR, ²Seongnam-si, Gyeonggi-do/KR
- P-757 latrogenic fistula between the right bulbourethral artery and bulbar urethra I. Paladini, A. Andreone, E. Epifani, M. Fantoni, C. Marcato, C. Rossi; Parma/IT
- P-758 Interventional primary urethral realignment as a radical treatment for two hemodynamically unstable pelvic trauma patients C.H. Jeon, C.W. Kim, H. Kwon; Busan/KR

Venous intervention and IVC filters

- P-759 Lost inferior vena cava filters S. Patel, W. Adair, N.G. Fishwick, M.J. Glasby, K. Waters, N. Kandiyil; Leicester/UK
- P-760 Opt out scheme for attempted retrieval of temporary inferior vena cava filters C. Leung, C. Worrell, V. Shrivastava; Hull/UK
- P-761 Value of follow-up angiography and factors predictive of further intervention in patients undergoing catheter-directed thrombolysis for massive and sub-massive pulmonary embolisms O. Ahmed, N. Vo, A. Baadh, M. Patel, M. Ozen, B. Arslan, U.C. Turba; Chicago, IL/US



P-762	Treatment of varicose veins with EVLA (1470 nm) using low linear endovenous
	energy density
	<u>U. Gorsi</u> , S. Sangma, M.K. Yadav, T. Yadav, N. Khandelwal; Chandigarh/IN

- P-763 Success rate of secondary IVC filter retrieval at a tertiary care center in patients referred for failed primary retrieval T.G. Tullius, A. Altman, J.A. Greenstein, T.G. Van Ha; Chicago, IL/US
- P-764 Prevention of pulmonary embolism in patients with severe trauma: role of IVC filters

 T.T. Tran¹, B. Goss², H. Bjarnason², N.-O. Skaga³, D. Jenkins², S. Roy¹, P. Lauritzen³, N.-E. Kløw³; ¹Lørenskog/NO, ²Rochester, MN/US, ³Oslo/NO
- P-765 A comparison of retrievability: Celect vs. ALN IVC filters

 N. Xiao¹, R.J. Lewandowski¹, J.K. Karp¹, R. Ryu², R. Salem¹, K.R. Desai¹; ¹Chicago, IL/US,
 ²Denver, CO/US
- P-767 Angioplasty and stenting for superior vena cava syndrome (SVCS) caused by cardiac resynchronization therapy (CRT) or implantable cardioverter defibrillator (ICD) placement: preliminary results after 6 months

 R. Pietura¹, A. Keinrok², Ł. Tułecki², T. Smyk², M. Toborek¹, E. Gołembiewska³, A. Kutarski¹;

 ¹Lublin/PL, ²Zamość/PL, ³Szczecin/PL
- P-768 Venacavogram for renal vein anatomy is not essential during insertion of the IVC filter in patients who had undergone preprocedural contrast-enhanced CT: a prospective study

 M.A. Husainy, C. Fang, H. Abbas, D. Huang; London/UK
- P-769 Evaluation of the timing of contrast-enhanced CT for adrenal venous sampling <u>T. Sanomura</u>, T. Norikane, Y. Nishiyama; Kagawa/JP
- P-770 Feasibility of a single-session endovascular treatment for aged lower extremity deep vein thrombosis

 H.H. Chung¹, S.H. Lee¹, S.B. Cho², Y.H. Kim², T.-S. Seo²; ¹Ansan/KR, ²Seoul/KR

 WITHDRAWN
- P-771 Radiation exposure during segmental adrenal venous sampling using dynamic trace digital angiography and spot fluoroscopy

 <u>S. Morita</u>, H. Yamazaki, K. Endo, S. Suzaki, S. Sakai; Tokyo/JP
- P-772 Laser-assisted complex IVC filter retrieval
 C. von Stempel, H. Walton, J. Raja, J. Hague, M. Walkden, N. Walker, J.A. Brookes;

 London/UK

- P-773 Thromboaspiration with Indigo system reduces the time and dose of fibrinolysis and improves the outcomes of massive and submassive PE compared with catheter fragmentation J.A. Guirola¹, H. Ferral², G. Behrens³, C. Lahuerta¹, W.T. Kuo⁴, M.A. de Gregorio¹; ¹Zaragoza/ES, ²Evanston, IL/US, ³Hinsdale, IL/US, ⁴Stanford, CA/US
- P-774 Graduated complexity technique for inferior vena cava filter retrieval at a multihospital institution Z.L. Bercu, J. Martin, D. Kies, H.N. Shekhani, J. Newsome; Atlanta, GA/US
- P-775 Evaluation of fibrinogen levels during catheter-directed thrombolysis with and without ultrasound acceleration for acute pulmonary embolism A. Graif, A.Z. Vance, G. Kimbiris, C.J. Grilli, D.A. Leung; Newark, DE/US
- P-776 Late clinical outcome of hybrid catheter intervention for acute massive pulmonary thromboembolism H. Tajima¹, T. Kaneshiro¹, N. Takenoshita¹, I. Miki², T. Ueda², S. Onozawa², S. Murata², N. Tajima³; ¹Kawasaki/JP, ²Tokyo/JP, ³Sakado/JP
- P-777 Pharmacomechanical management of acute deep vein thrombosis M.E. Arias-Laverde, J. Urbano, M. Cabrera Gonzalez, A. Alonso-Burgos, I. Fernandez Sobrino: Madrid/FS
- P-778 Outcomes of Angel® catheter (AC) use for pulmonary embolism prophylaxis in a level 1 UK trauma centre M.R. Akhtar, J. Kyaw Tun, A. Zaman, J.-Y. Chun, O.S. Jaffer, N. Bunker, T. Fotheringham; London/UK
- P-779 Great saphenous vein access facilitates endovascular venous interventions G.J. Hanson, S. Han, J.F.B. Chick, M. Khaja, K. Cooper, D.M. Williams; Ann Arbor, MI/US
- P-780 Accelerated thrombolysis for post-thrombotic syndrome using the acoustic pulse thrombolysis EkoSonic® Endovascular system (ACCESS PTS) study: initial results of a multi-centeric study M.J. Garcia¹, M.R. Jaff², S. Kahn³, K.M. Sterling⁴, A. Comerota⁵, K. Ouriel⁶; ¹Wilmington, DE/US, ²Boston, MA/US, ³Montreal, QC/CA, ⁴Alexandria, VA/US, ⁵Toledo, OH/US, ⁶New York, NY/US
- Nutcracker syndrome: have we cracked it yet P-781 N.B. Mani¹, G.L. White¹, S.K. Kim¹, M.D. Darcy¹, R. Ramaswamy¹, R. Varma²; ¹St. Louis, MO/US, ²Pittsburgh, PA/US



P-782 Acute and chronic leg swellings: radiological manifestation and interventional management

<u>S.H. Kwon</u>, J.H. Oh; Seoul/KR

WITHDRAWN

- P-783 A comparison between vein sealing and laser ablation for the treatment of venous insufficiency

 O. Rodoplu; Yalova/TR
- P-784 Superior vena cava and bilateral brachiocephalic veins endovascular reconstruction to preserve implanted central venous catheter while treating superior vena cava syndrome

 S. Volpi, S.D. Qanadli; Lausanne/CH
- P-785 Retrieval of accidental ureteral DJ stent catheter away from the heart during nephrolithotomy

 M.-C.P. Shih; Kaohsiung City/TW
- P-786 Percutaneous embolization of a recurrent varicocele

 <u>R. De Robertis</u>, F. Furlan, N. Sulpasso; Peschiera Del Garda/IT
- P-787 Spinal canal stent placement as a complication of endovascular treatment for May–Thurner syndrome: a report of two cases R.H. do Amaral¹, A. Basso Dias¹, V. Martins¹, P. Amorim da Silveira¹, J.-F. De Wispelaere², F.C. Deprez², R. Lenhardt¹; 'Porto Alegre/BR, ²Namur/BE
- P-788 IVC stenting post-endobronchial forcep- and laser-assisted removal of a 16-year-old embedded Bard Simon Nitinol permanent IVC filter causing chronic back pain related to an extruded leg into an intervertebral disk

 A.Z. Vance, C. Fedele, A. Graif, G. Kimbiris, K. Lie, D.A. Leung; Newark, DE/US
- P-789 Percutaneous femoral to femoral vein bypass creation to manage severe lower extremity swelling

 B. Arslan, J.C. Tasse, M. Ozen, U.C. Turba; Chicago, IL/US
- P-790 Extravascular creation of a neo inferior vena cava in a symptomatic patient with congenital absence of the inferior vena cava

 J.C. Tasse, B. Arslan, O. Ahmed, S. Madassery; Chicago, IL/US
- P-791 Bridging stent placement in a patient with superior vena cava syndrome <u>V.G. Di Caro</u>, J.M. Rabellino, P.N. Moltini, J.G. Chas, R.D. Garcia-Mónaco; Buenos Aires/AR

- P-792 Complex retrieval of a fractured Greenfield IVC filter after a 31-year dwell time *F. Farzanegan*; *Sacramento, CA/US*
- P-793 Foam sclerotherapy for arteriovenous malformation Y. Campos, P.F. Saad, D. Brito, F. de Oliveira, K.R. Saad, D. Ribeiro; Petrolina/BR
- P-794 Transoral direct-puncture sclerotherapy for oral and pharyngeal venous malformations (VMs)

 A. Kuhara, N. Tanaka, M. Koganemaru, T. Kugiyama, T. Abe; Kurume/JP
- P-795 Arm access for therapeutic and diagnostic venous procedures
 N. Nicholas¹, R. Frood¹, O. Fowler¹, K. Lindsay²; ¹Bradford/UK, ²Keighley/UK
- P-796 In a spin: a novel method for IVC filter detachment following snare entanglement A. Ngo, N. Kibriya, A. Antonietti, R.G. McWilliams; Liverpool/UK



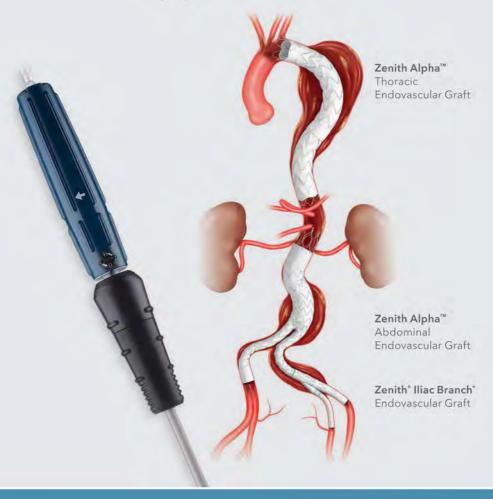
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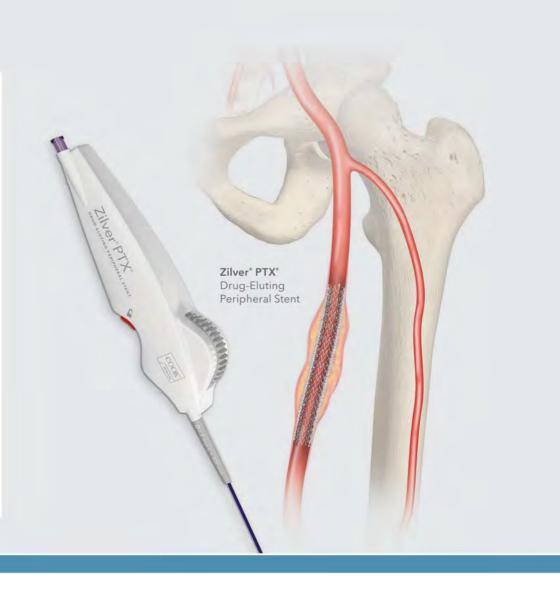
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Satellite Symposia

Saturday, September 16

13:00-14:00, Auditorium 3

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Extending survival in unresectable HCC: how can I optimize sequencing SY 401 in my clinic?

Moderator: M. Seidensticker (Munich/DE)

401.1	Evidence for locoregional therapy: what have we learned? M. Seidensticker (Munich/DE)
401.2	Systemic therapy and sequencing in uHCC: what do we know? M. Peck-Radosavljevic (Klagenfurt/AT)
401.3	uHCC in practice: what would you do?
	F. Piscaglia (Bologna/IT)
401.4	Q&A
SY 402	13:00-14:00, Auditorium 15 Biotronik AG Minimal is optimal in SFA therapy, reducing metal burden
	Moderator: I.C. van den Bera (Luaano/CH)

BIOFLEX COF - the effect of stent radial force: Results of preclinical study and 402.1 interim results for RCT M.A. Funovics (Vienna/AT) BIOFLEX PEACE - Pulsar-18 all-comers registry: 12-month results for the full 402.2 cohort C. Nolte-Ernsting (Mühlheim/DE) BIOLUX P-III – Passeo-18 Lux all-comers registry: 12-month results for the full 402.3 cohort of 700+ subjects G. Tepe (Rosenheim/DE) 402.4 BIOLUX 4EVER: Combining Passeo-18 Lux DCB and Pulsar-18 BMS: 12-month results of full cohort K. Deloose (Dendermonde/BE)

402.5 REACT: REsponse Adapted Combination Therapy: Concept and study outline for an RCT R. Langhoff (Berlin/DE)



609.2

K. Malagari (Athens/GR)

13:00-14:00. Auditorium 12 **Philips** SY 403 The pivotal role of advanced image guidance in interventional oncology Moderators: A. Gangi (Strasbourg/FR), E. Kim (New York, NY/US), B.J. Wood (Bethesda, MD/US) 403.1 Cone-beam CT and EmboGuide in the treatment of primary and metastatic liver malignancies G. Maleux (Leuven/BE) Advances in therapy planning and image guidance for lung ablation in the 403.2 interventional lab J. Palussière (Bordeaux/FR) Cone-beam CT navigation in interventional oncology: established evidence 403.3 and future developments N. Abi-Jaoudeh (Irvine, CA/US) 16:15-16:35, Room 20 **Biotronik AG** SY 608 Minimal is optimal in SFA therapy, reducing access complications Moderator: K. Deloose (Dendermonde/BE) 608.1 Ambulatory intervention: Concept & rationale to consider ambulatory intervention K. Deloose (Dendermonde/BE) Clinical evidence so far: Retrospective data – a Swiss experience 608.2 J.C. van den Berg (Lugano/CH) 608.3 Clinical evidence so far: Retrospective data – a French experience O. Regnard (Trelaze/FR) 608.4 BIO4AMB randomised controlled trial - outline: A 4F vs. 6F+VCD study of ambulatory treatment for SFA disease E. Steinmetz (Dijon/FR) 16:15-16:35, Auditorium 12 **Merit Medical** SY 609 HEPDOX & HEPIRI: optimise your TACE in HCC and CRC mets to the liver! Moderator: S. Pluntke (Essen/DE) 609.1 HepaSphere[™] TACE, a Vancouver perspective D. Klass (Vancouver, BC/CA)

TACE with HepaSphere™ drug-eluting microspheres in CRC mets to the liver



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Sunday, September 17

08:00-08:20, Room 20

Veryan Medical

SY 801 BioMimics 3D, the swirling flow stent: what makes it so different?

Moderator: P.A. Gaines (Sheffield/UK)

801.1 What is swirling flow and why is it so important to femoropopliteal outcomes?

G. Tepe (Rosenheim/DE)

801.2 Latest clinical experience with BioMimics 3D

M. Lichtenberg (Arnsberg/DE)

801.3 Swirling flow: producing better results in both primary stenting and in

combination with DCB *P.A. Gaines (Sheffield/UK)*

11:30-12:30, Auditorium 1

Boston Scientific

SY 1102 Strategies for SFA intervention: evidence, controversy and debate

Moderator: M. Brodmann (Graz/AT)

1102.1 12m data from Ranger all-comers registry

M. Lichtenberg (Arnsberg/DE)

1102.2 My go to strategy: drug-coated balloon

G. Tepe (Rosenheim/DE)

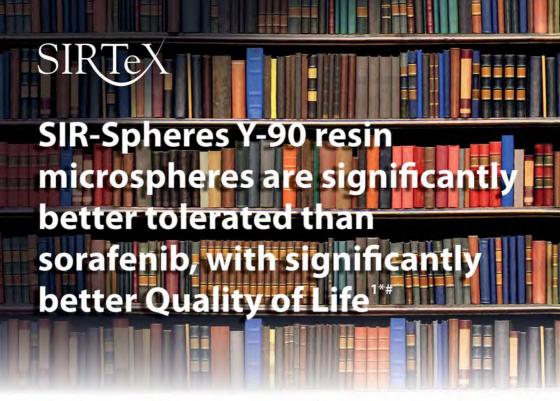
1102.3 My go to strategy: drug-eluting stent

Y. Gouëffic (Nantes/FR)

1102.4 My go to strategy: atherectomy and drug elution

K.N. Katsanos (Patras/GR)

1102.5 Moderated debate and challenge



Join us for our lunch symposium Sunday, 17 September at 11:30 - 12:30 in Auditorium 2

SIR-Spheres® Y-90 resin microspheres – **providing evidence in interventional oncology**

[#] The study did not meet its primary endpoint of significant difference in overall survival.



¹ Bouattour M et al. Ann Oncol 2017; ESMO 19th WCGIC, Abs. LBA-001.

^{*} Quality of Life by Global Health Status sub-score of EORTC QLQ-C30.

1104.4

11:30-12:30, Auditorium 3 Medtronic SY 1103 Optimizing treatment outcomes in complex vascular disease with DCB combination therapy Moderators: F. Fanelli (Florence/IT), A. Holden (Auckland/NZ) 1103.1 Opening remarks & introduction F. Fanelli (Florence/IT) 1103.2 IN.PACT DCB is changing the first line therapy for the treatment of complex SFA disease J.C. van den Berg (Lugano/CH) 1103.3 Vessel prep technology: when DCB alone is not enough P. Krishnan (New York, NY/US) 1103.4 Prolong dialysis access with combination of IN.PACT DCB and Fortrex HP Balloon M. Treitl (Munich/DE) Take home messages & closing remarks 1103.5 A. Holden (Auckland/NZ) 11:30-12:30, Auditorium 2 **Sirtex Medical Europe GmbH** SY 1104 SIR-Spheres Y-90 resin microspheres – providing the evidence in interventional oncology Moderators: B. Gebauer (Berlin/DE), R. Sharma (London/UK) 1104.1 Latest evidence on Y-90 resin microspheres in mCRC D. Arnold (Hamburg/DE) Latest evidence on Y-90 resin microspheres in HCC 1104.2 V. Vilgrain (Clichy/FR) 1104.3 Dosimetry made easy A. Martínez de la Cuesta (Pamplona/ES)

Panel discussion: Implications of the new data for clinical practice

VISIT US ON THE BTG STAND

BTG SYMPOSIA AT CIRSE 2017

SUNDAY 7 SEPTEMBER 2017

SETTING NEW STANDARDS IN THROMBOLYSIS

- The ACCESS PTS Study Reducing post-thrombotic syndrome with EKOS™ in the treatment of chronic DVT patients
 Dr Mark Garcia, Delaware, USA
- The OPTALYSE PE Trial Reducing thrombolytic dose and treatment times with EKOS™ in the treatment of pulmonary embolism patients

Professor Keith Sterling, Virginia, USA

 The Munich Experience - Reducing lab time with EKOS™ in the treatment of acute DVT and PAO patients
 Professor Marcus Treitl, Munich, Germany Time: 13:00-14:00

Room: Auditorium 15

E K(0)5)

MONDAY 3 SEPTEMBER 201

SEE MORE. REACH FURTHER. TREAT SMARTER. TAKING TUMOUR ABLATION TO THE NEXT LEVEL WITH GALIL CRYOABLATION

Chair: Dr David Breen, Southampton, UK

- Renal cryoablation: The new standard of care Dr Ole Graumann, Odense, Denmark
- Cryoablation of bone metastases:
 First choice for durable palliative treatment
 Dr Julien Garnon, Strasbourg, France
- Lung tumour cryoablation: Transient or viable treatment option?
 Dr Lambros Tselikas, Villejuif, France

Time: 14:30-15:30

Room: Auditorium 15

GALIL CRYOABLATION

DC BEAD LUMI™: BEYOND SEEING

Chair: Dr Tobias Jakobs, Munich, Germany

Time: 13:00-14:00

Room: Auditorium 15

- Initial data on the utility of DC Bead LUMI™ beyond visibility in liver malignancies
 Dr Camillo Aliberti & Dr Riccardo Carandina, IRCCS Istituto Oncologico Veneto, Padova, Italy
- Early treatments with DC Bead LUMI™
 The Pisa Experience: Dr Irene Bargellini, Azienda Ospedaliero-Universitaria Pisana, Pisa, Italy
 The Milan Experience: Dr Carlo Spreafico, IRCCS Fondazione Istituto Tumori, Milan, Italy
- The "Hug Effect": Providing confidence in your safety margins with enhanced RFA

Dr Roberto Iezzi, Policlinico A. Gemelli-Catholic University, Rome, Italy

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SY 1201	13:00-14:00, Auditorium 15 BTG Setting new standards in thrombolysis
	Moderator: M. Treitl (Munich/DE)
1201.1	The ACCESS PTS study: reducing post-thrombotic syndrome with EKOS™ in the treatment of chronic DVT patients M.J. Garcia (Wilmington, DE/US)
1201.2	The OPTALYSE PE trial: reducing thrombolytic dose and treatment times with EKOS TM in the treatment of pulmonary embolism patients <i>K.M. Sterling (Alexandria, VA/US)</i>
1201.3	The Munich experience: reducing lab time with EKOS™ in the treatment of acute DVT and PAO patients M. Treitl (Munich/DE)
SY 1202	13:00-14:00, Auditorium 2 Medtronic Breakthrough technologies in thermal ablation
	Moderator: G. Carrafiello (Milan/IT)
1202.1	Liver ablation: outcome analysis of percutaneous and intraoperative approaches with different liver conditions F. De Cobelli (Milan/IT)
1202.2	Lung ablation: 100+ patients treated with Emprint ablation system T.J. Vogl (Frankfurt/DE)
1202.3	Kidney ablation: 150+ patients treated with Emprint ablation system

A. Magnusson (Uppsala/SE)

J. Case (Boulder, CO/US)

1202.4

Emprint spherical ablations: what is the secret?



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13:00-14:00, Auditorium 1 **Terumo Europe** SY 1203 Critical limb ischaemia - All you need to know in 60' Moderator: M.G. Manzi (Abano Terme/IT) 1203.1 Objective of the meeting M.G. Manzi (Abano Terme/IT) 1203.2 CLI - Where we are today M.G. Manzi (Abano Terme/IT) CLI - Patient centric approach - Multidisciplinary Team 1203.3 S.T. Rashid (Manchester/UK) 1203.4 Debate on endovascular intervention strategies – Case discussions K. Deloose (Dendermonde/BE), M. Palena (Abano Terme/IT) 1203.5 Good access leads to good closure S. Müller-Hülsbeck (Flensburg/DE) Conclusions 1203.6 M.G. Manzi (Abano Terme/IT) 14:30-15:30, Auditorium 15 Medtronic Evidence-based treatment decision and innovation in musculoskeletal SY 1303 procedures Moderator: D.P. Beall (Oklahoma City, OK/US) 1303.1 Is sagittal alignment worth pursuing in VCF treatments? P. Maxy (Tolochenaz/CH) 1303.2 VCF mortality risks and the latest clinical evidence on balloon kyphoplasty

Bone ablation: take the lead and offer an impactful treatment for your

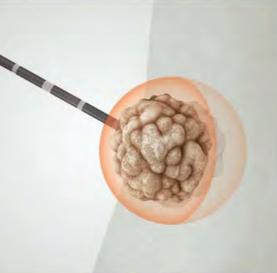
D.P. Beall (Oklahoma City, OK/US)

oncologic patients! *R.L. Cazzato (Strasbourg/FR)*

1303.3

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Medtronic Further, Together

14:30-15:30, Auditorium 10

Straub Medical AG

SY 1304 How to successfully treat venous occlusions: from creating a venous service to approaching challenging cases

Moderator: M. Lichtenberg (Arnsberg/DE)

1304.1 Setting up a deep venous service in your hospital

G.J. O'Sullivan (Galway/IE)

1304.2 Current evidence on venous thrombectomy post ATTRACT

M. Lichtenberg (Arnsberg/DE)

1304.3 Aspirex®S – a versatile tool for venous thrombectomy

T. Heller (Rostock/DE)

1304.4 Haemodialysis vascular access salvage with Rotarex mechanical debulking device

C.R. Riquetti Pinto (Rio de Janeiro/BR)

1304.5 Percutaneous mechanical thrombectomy for acute symptomatic iliofemoral

deep vein thrombosis using the Aspirex®S catheter

R. Loffroy (Dijon/FR)

16:15-16:35, Auditorium 12

Merit Medical

SY 1409 The Surfacer® Inside-Out® access catheter system: to restore and

preserve access in chronically occluded veins

1409.1 G. Sengölge (Vienna/AT)

16:15-16:55, Auditorium 11

Medtronic

SY 1410 A time to open, a time to close: discussion on deep venous stenting to

embolisation therapies

Moderator: M. Treitl (Munich/DE)

1410.1 Deep venous stenting: the why and the how

H. Jalaie (Aachen/DE)

Ovarian vein embolisation with Onyx® for patients with pelvic congestion

syndrome

C. Marcelin (Bordeaux/FR)

Monday, September 18

08:00-08:20, Room 20

B. Braun Melsungen AG

SY 1601 Spot stenting: it's time to undress the full metal jacket

Moderator: G. Tepe (Rosenheim/DE)

1601.1 Long stents vs. short stents

M.G. Manzi (Abano Terme/IT)

1601.2 Spot stenting with VascuFlex® Multi-LOC

R. Langhoff (Berlin/DE)

1601.3 Challenging case: SFA total occlusion

P. Goverde (Antwerp/BE)

1601.4 Discussion

11:30-12:30, Auditorium 1

Cook Medical

SY 1902 Patient first: leave the right thing behind

Moderator: M.D. Dake (Stanford, CA/US)

1902.1 Introduction

M.D. Dake (Stanford, CA/US)

1902.2 Why and how to prepare the vessel?

F. Fanelli (Florence/IT)

1902.3 Panel discussion: Advance Enforcer 35 + Zilver PTX case discussion – recorded

case from Rome, Italy

1902.4 New results on DCB versus DES – what we know from the latest research

R. Virmani (Gaithersburg, MD/US)

1902.5 ZILVERPASS: Zilver PTX versus bypass

K. Deloose (Dendermonde/BE)

1902.6 Panel discussion: Recorded case experience with the new 140 mm Zilver PTX

from Dendermonde, Belgium

1902.7 The importance of scientific evidence

J.A. Kaufman (Portland, OR/US)

1902.8 Summary

M.D. Dake (Stanford, CA/US)



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Based on holmium-166, QuiremSpheres" enable visualization with SPECT and MRI. The images allow quantitative assessment of dose-to-tissue and dose-to-tumour. Our unique and clinically proven* SIRT solution that allows you to treat what you see and see what you treat.



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Smits et al. Journal of Experimental & Clinical Cancer Research 2010, 29:70
Smits et al. Lancet Oncol. 2012, Oct. 13(10):1025-34
PhD thesis of LF Prince: ISBN 978-90-393-6489-5, 2016

PUSHING BOUNDARIES

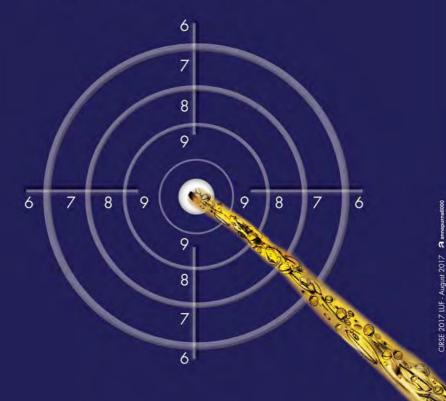


	11:30-12:30, Auditorium 3 Penumbra
SY 1903	Penumbra embolisation and thrombectomy advanced technology
	Moderators: T. Bisdas (Münster/DE), B. Huasen (Preston/UK)
1903.1	My experience in arterial occlusions with the Indigo system <i>T. Bisdas (Münster/DE)</i>
1903.2	Penumbra Indigo system for fistula and venous thrombosis B. Huasen (Preston/UK)
1903.3	How Ruby Coil and POD system have changed my way in embolisation therapies H. Mehrzad (Birmingham/UK)
	11:30-12:30, Auditorium 2 Terumo Europe
SY 1904	Pushing boundaries: adding Q to SIRT
	Moderators: T.F. Jakobs (Munich/DE), M. Peeters (Edegem/BE)
1904.1	The potential for SIRT to improve treatment for primary and secondary liver cancers R. Sharma (London/UK)
1904.2	Taking SIRT to the next level M.G.E.H. Lam (Utrecht/NL)
1904.3	From years of research to successful patient management <i>RT. Hoffmann (Dresden/DE)</i>
	13:00-14:00, Auditorium 1 Boston Scientific
SY 2001	Deep venous interventions. Current state, future directions
	Moderator: M.J. Lee (Dublin/IE)
2001.1	Opening and learning objectives M.J. Lee (Dublin/IE)
2001.2	A European view on ATTRACT trial to be announced
2001.3	Keeping deep veins open: imaging, intervention and surveillance R. de Graaf (Maastricht/NL)
2001.4	Post thrombotic syndrome: pathology and sequalae M. Lugli (Modena/IT)
2001.5	Chronic venous disease: healthcare burden and patient management G.J. O'Sullivan (Galway/IE)
2001.6	Moderated discussion: where to next?

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(*) For complete information, please refer to the local Summary of Product Characteristics.
(**) Indications, volumes and presentations may differ from country to country.

Reporting suspected adverse effects is important as this helps to continuously assess the benefit-risk balance. Therefore, Guerbet encourages you to report any adverse effects to your health authorities or to our local Guerbet Representative.

SY 2002	13:00-14:00, Auditorium 2 Guerbet Liver cancer, therapy evolutions for patient benefit	
	Moderator: V. Vilgrain (Clichy/FR)	
2002.1 2002.2 2002.3	cTACE, technique standardisation & safety M.C. Soulen (Philadelphia, PA/US) HCC treatment, efficiency of bridging & downstaging combined thera V. Vilgrain (Clichy/FR) Technical & clinical considerations of lymphatic disorders treatment M. Itkin (Philadelphia, PA/US)	pies
SY 2003	13:00-14:00, Auditorium 15 Toshiba Medical Infinix-i 4D CT: the future of today in interventional radiology	
	Moderator: Y. Arai (Tokyo/JP)	
2003.1	Interventional oncology beyond liver interventions E. de Kerviler (Paris/FR)	
2003.2	Is 3D information enough for sophisticated IRs? Y. Arai (Tokyo/JP)	
2003.3	Infinix-i 4D CT – new milestone in liver interventional oncology B. Guiu (Montpellier/FR)	
SY 2004	13:30-14:00, Auditorium 3 Endologix Polymer sealing for AAA: why we need to consider an alternative to traditional EVAR	ĮDE
	Moderator: A. Holden (Auckland/NZ)	
2004.1	EVAR: what we've learned after 25 years M. Reijnen (Arnhem/NL)	
2004.2	EVAS: the clinical and biological advantages of active sac managemen A. Holden (Auckland/NZ)	t
2004.3	Raising the standard for EVAR in women M. Storck (Karlsruhe/DE)	

DISCOVERTHE WHY, HOW, WHERE AND WHEN OF CRYOABLATION



HY USE CRYOABLATION? THE EVIDENCE

SYMPOSIUM: SEE MORE. REACH FURTHER. TREAT SMARTER. TAKING TUMOUR ABLATION TO THE NEXT LEVEL WITH GALIL CRYOABI ATION

Chair: Dr David Breen, Southampton, UK

- Renal cryoablation: The new standard of care Dr Ole Graumann, Odense, Denmark
- Cryoablation of bone metastases:
 First choice for durable palliative treatment
 Dr Julien Garnon, Strasbourg, France
- Lung tumour cryoablation: Transient or viable treatment option?
 Dr Lambros Tselikas, Villejuif, France

Monday 18 September 2017

Time: 14:30-15:30

Room: Auditorium 15

H**OW** TO USE SYOABI ATION

HANDS-ON DEVICE TRAINING: TUMOUR ABLATION ALTERNATIVE TECHNIQUES AND IMAGE GUIDANCE

Coordinators: Georgia Tsoumakidou, Strasbourg, France Philipp Wiggermann, Regensburg, Germany

Alternative techniques and image guidance

This is a CIRSE-organised event. Participation is free of charge. Please register via your CIRSE account.

Tuesday 19 September 2017

TA-HDT 5 Time: 09:30-11:00

or

TA-HDT 6 Time: 12:30-14:00

Room: HDT Room 3

HERE AND WHEN USE CRYOABLATION

MEET THE EXPERTS: CRYOABLATION

Experienced cryoablation practitioners will explain their technique across a variety of indications and answer your questions.

- Where and when to use cryoablation
 - overview of indications and patient selection
- Learn from experts in hands-on rotations with phantoms, cryoablation needles and the Visual-ICE™ System
 Renal | Lung | Bone/Musculoskeletal

Tuesday 19 September 2017

Time: 16:00-18:00

Room: HDT Room 3

Please register at the BTG stand

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SY 2105	14:30-15:30, Auditorium 15 BTG See more. Reach further. Treat smarter. Taking tumour ablation to the
	next level with Galil cryoablation
	Moderator: D.J. Breen (Southampton/UK)
2105.1	Renal cryoablation: the new standard of care O. Graumann (Odense/DK)
2105.2	Cryoablation of bone metastases: first choice for durable palliative treatment
2105.3	J. Garnon (Strasbourg/FR) Lung tumour cryoablation: transient or viable treatment option? L. Tselikas (Villejuif/FR)
	16:15-16:35, Auditorium 12 Merit Medical
SY 2209	RF ablation in the spine: innovation and clinical evidence
2209.1	J.W. Jennings (St. Louis, MO/US)
CV 2210	16:45-17:05, Auditorium 12 TVA Medical
SY 2210	Pioneering a new path for dialysis access creation with the everlinQ endoAVF System
	Moderator: RT. Hoffmann (Dresden/DE)
2210.1 2210.2	T.M. Steinke (Duesseldorf/DE) R.G. Jones (Birmingham/UK)
SY 2309	17:30-18:00, Auditorium 12 Gore & Associates Introducing GORE® VIATORR® TIPS Endoprosthesis with controlled
	expansion: evidence-based discussion
	Moderator: P. Goffette (Brussels/BE)
2309.1	The concept of cTIPS with controlled expansion. How does it work? G. Maleux (Leuven/BE)
2309.2	A review of the early results of cTIPS with controlled expansion to treat

F. Nevens (Leuven/BE)

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High absorbed radiation dose to tumour maximises necrosis without compromising patient safety^{1–7}

Personalised dosimetry, the future of SIRT?

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Common adverse effects include fatigue, pain, and nausea. The majority of adverse effects are mild to moderate in severity and are manageable or resolve over time. For details on rare or more severe adverse effects, please refer to the TheraSphere™ Instructions for Use at www.therasphere.com.⁶⁻⁸

References: 1. Lewandowski RJ, Thurston KG, Goin JE, et al. J Vasc Interv Radiol 2005; 16(12): 1641–51. 2. Memon K, Lewandowski RJ, Mulcahy MF, et al. Int J Radiat Oncol Biol Phys 2012; 83(3): 887–94. 3. Riaz A, Gates VL, Atassi B, et al. Int J Radiat Oncol Biol Phys 2011; 79(1): 163–71. 4. Salem R, Lewandowski RJ, Mulcahy MF, et al. Gastroenterology 2010; 138(1): 52–64. 5. Vouche M, Habib A, Ward TJ, et al. Hepatology 2010; 6.1 Higard P, Hamami M, Fouly AE, et al. Hepatology 2010; 52(5): 1741–9. 7. Mazzafero V. Sposito C, Bhoori S, et al. Hepatology 2015; 57(5): 1826–57. 8. TheraSphere "Yttrium-90 Glass Microspheres – Instructions for Use – English, #990252. SPE Rev. 8. Biocompatibles UK Ltd, a BTG International group company. Available at: http://therasphere.com/physicians-package-insert/TheraSphere_IFU_EU_English_Rev8.pdf.

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Imagine where we can go.

Tuesday, September 19

13:00-14:00, Auditorium 15

BTG

SY 2801 DC Bead LUMI™: beyond seeing

Moderator: T.F. Jakobs (Munich/DE)

2801.1 Initial data on the utility of DC Bead LUMI™ beyond visibility in liver

malignancies

C. Aliberti (Lagosanto/IT), R. Carandina (Padova/IT)

2801.2 Early treatments with DC Bead LUMI™: the Pisa experience

I. Bargellini (Pisa/IT)

2801.3 Early treatments with DC Bead LUMI™: the Milan experience

C. Spreafico (Milan/IT)

2801.4 The "Hug Effect": providing confidence in your safety margins with enhanced

RFA

R. Iezzi (Rome/IT)

13:00-14:00, Auditorium 3

Medtronic

SY 2802 Acute ischaemic stroke treatment: state-of-the-art in 2017

2802.1 Who will treat acute ischaemic stroke patients in the future?

J. Fiehler (Hamburg/DE)

2802.2 An experienced center Royal Stoke Hospital

S. Nayak (Stoke-on-Trent/UK)

13:00-14:00, Auditorium 2

Siemens Healthineers

SY 2803 From routine cases to demanding interventions – pushing boundaries

with smart imaging approaches

Moderator: F.C. Carnevale (São Paulo/BR)

2803.1 Best practices to reduce radiation in complex interventions

G.M. Richter (Stuttaart/DE)

2803.2 CBCT as a mandatory tool for PAE: guidance and target evaluation

M.R. Sapoval (Paris/FR)

2803.3 Robotic imaging in the comprehensive spectrum of interventions in a military

hospital

S. Waldeck (Koblenz/DE)

T.J. Vogl (Frankfurt/DE)

14:30-15:30, Auditorium 15 PharmaCept GmbH SY 2905 New clinical and experimental outcomes of DSM-TACE Moderators: R. lezzi (Rome/IT), T.J. Vogl (Frankfurt/DE) 2905.1 DSM-TACE: a powerful treatment option for patients with recurrent CCC after liver resection C. Kuhl (Aachen/DE) 2905.2 HAI of irinotecan leads to higher tumour tissue concentration of SN38 when combined with EmboCept® S in preclinical model for colorectal liver metastases A. Kauffels-Sprenger (Göttingen/DE) DSM-TACE for locally advanced HCC 2905.3 T. Albrecht (Berlin/DE) 2905.4 DSM-TACE in intermediate/advanced HCC patients dismissing or ineligible for multikinase-inhibitor chemotherapy treatment (Sorafenib) R. lezzi (Rome/IT) 2905.5 DSM-TACE vs. cTACE: study results of FAST I – II in HCC and CRC

Learning Centres at CIRSE 2017

The Learning Centres will provide an excellent opportunity for all congress delegates to test the latest interventional devices, gain hands-on experience with new equipment and talk to industry representatives.

The following companies will provide Learning Centres:

Abbott Vascular
Bard
Boston Scientific
Cook Medical
Cordis, a Cardinal Health Company
Guerbet
Medtronic
Merit Medical
Straub Medical
Terumo Europe

Please note that CIRSE is not responsible for the information provided at the Learning Centres.

Learning Centre programmes

(as per printing date)

Abbott Vascular

Meet the Expert Hands-on Workshops

Abbott Vascular has developed an interactive programme for CIRSE 2017. During peer-topeer expert sessions the attendees will have the opportunity to learn more about Abbott Vascular's solutions in the vascular and embolisation fields.

The programme will include hands-on stations where the attendees will be able to practice under the guidance of expert interventionalists.

Areas that will be covered include:

Guidewires: technical workshops

The guidewires workshops will provide attendees the opportunity to learn from physician experts how the guidewires are designed, usage and selection strategies and will be able to try the latest generation guidewires during this hands-on session.

Vascular plugs: advancing the standard of care in peripheral embolisation with Abbott

Vascular plugs are designed to provide optimal embolisation through single device solution, full cross-sectional vessel coverage and controlled, precise deployment. Join these sessions to learn more about the different designs, clinical indications and how to do a safe and effective placement using Abbott Vascular's simulators.

Vessel closure: close with confidence

Learn from experts how to close with confidence using Abbott's vessel closure technologies. During this technical workshop the attendees will have the opportunity to learn from experts their experiences with percutaneous access and closure, and to practice with vessel closure wet models.

To learn more about Abbott Vascular's Learning Centre programme, please contact your Abbott Vascular representative or visit the booth.



Bard

Discussions around the LUTONIX® drug-coated balloon AV trial & interim 18 month results

S.O. Trerotola (Philadelphia, PA/US)

Group 1: Sunday, September 17, 14:00-15:00 Group 2: Monday, September 18, 11:00-12:00

Are all DCB's the same? Discussions around differences between drug formulations (beyond Paclitaxel)

R. Virmani (Gaithersburg, MD/US) Sunday, September 17, 09:30-10:30

COVERA™ AV – Meet the Expert

D. Karnabatidis (Patras/GR) Sunday, September 17, 11:00-12:00

VENOVO™ - Meet the Expert

R. de Graaf (Maastricht/NL) Monday, September 18, 09:30-10:30

To register your interest please email Linda Kehoe (linda.kehoe@crbard.com). Please note that places are limited to 20 delegates per session. Advance registration is required.

Boston Scientific

Boston Scientific has developed a dedicated Meet the Expert programme in their Innovation Room with focus on the following areas:

mCRC treatment with Embozene TANDEM™ loaded with Irinotecan – how I do it

F. Orsi (Milan/IT)

Sunday, September 17, 14:00-15:00

Monday, September 18, 13:00-14:00

HCC treatment with Embozene TANDEM™ loaded with Doxorubicin – how I do it

G.M. Richter (Stuttgart/DE)

Sunday, September 17, 11:00-12:00

Monday, September 18, 11:00-12:00

What you need to know about UFE & adenomyosis treatment

P.N.M. Lohle (Tilburg/NL)

Saturday, September 16, 11:30-12:30

Monday, September 18, 10:00-11:00

How to begin an emborrhoid practice

V. Vidal (Marseille/FR)

Saturday, September 16, 13:00-14:00

Sunday, September 17, 16:00-17:00

What you need to know about prostate artery embolisation

F. Wolf (Vienna/AT)

Sunday, September 17, 13:00-14:00

Tuesday, September 19, 13:00-14:00

Wireless repositioning: Direxion™ Torqueable Microcatheter in my daily practice

V. Vidal (Marseille/FR)

Sunday, September 17, 09:00-10:00

Vessel preparation for DCB with the JETSTREAM™ Atherectomy System – our current practice

T. Balázs (Bratislava/SK)

Sunday, September 17, 10:00-11:00

Mastering venous stenting

M. Lugli (Modena/IT)

Sunday, September 17, 12:00-13:00

Monday, September 18, 09:00-10:00



Thrombectomy with Angiojet™ system in clinical practice

C.A. Binkert (Winterthur/CH)
Sunday, September 17, 15:00-16:00
Tuesday, September 19, 10:00-11:00

HCC – patient selection, procedural method and complication management (language: German)

N. Abolmaali (Dresden/DE), R. Lopez-Benitez (Luzern/CH), F. Wolf (Vienna/AT) Monday, September 18, 12:00-13:00

Boston Scientific Innovation Room will remain open for delegates who would like to learn more about our broad range of high performance solutions in the vascular and oncology fields.

To learn more about our Innovation Room programme, please visit our booth.

All cited trademarks are the property of their respective owners. CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labelling supplied with each device. Information for the use only in countries with applicable health authority product registrations. Indications, operating specifications and availability may vary by country. Check with local product representation and country-specific Information For Use for your country. This material is not approved for use or distribution in France.

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Cook Medical

Saturday, September 16 - Liver day

09:30-10:00

Successful TIPSS using 3-steps ultrasound guidance

F. Douane (Nantes/FR)

11:00-11:30

Embolisation of large spontaneous portosystemic shunts for refractory hepatic encephalopathy: techniques and results

G. Maleux (Leuven/BE)

12:30-13:00

Endobiliary biopsy vs. EUS FNA for proximal biliary strictures

H. Mehrzad (Birmingham/UK)

14:00-14:30

The role of IR in the management of malignant biliary strictures

A. Fohlen (Caen/FR)

15:30-17:00

Meet the experts: hands-on training

Sunday, September 17 - Venous day

10:30-11:00

Enhancing the clinical value of your PICC practice: PICC placement, management of complications, and aftercare

A. Fohlen (Caen/FR)

12:00-12:30

Pelvic vein incompetence: techniques and results

G. Maleux (Leuven/BE)

13:15-13:40

Iliofemoral acute DVT: pathways to endovascular treatment and the importance of stenting

G.J. O'Sullivan (Galway/IE)

13:40-14:05

Contrast in IVC filter use between the EU and US

G.J. Robinson (Hull/UK)



14:05-14:30

Post-thrombotic syndrome: considerations in choosing the right treatment *R. de Graaf (Maastricht/NL)*

16:00-17:00

Meet the experts: hands-on training

Monday, September 18 - Arterial day

11:00-11:45

Anatomical considerations for emborrhoid treatment: what's new? V. Vidal (Marseille/FR)

14:00-14:45

Tools and techniques for improving and optimising BTK success rates *M. Palena (Abano Terme/IT)*

Cordis, a Cardinal Health Company

Please register at our Learning Centre desk to attend lectures and hands-on sessions. Each hands-on session has a limited number of attendees.

Saturday, September 16

11:00-12:00

Hands-on session with MYNXGRIP™ Vascular Closure Device

13:00-14:00

Hands-on session with INCRAFT™ AAA Stent Graft System

15:00-16:00

Hands-on session with MYNXGRIP™ Vascular Closure Device

16:15-17:15

Hands-on session with INCRAFT™ AAA Stent Graft System

Sunday, September 17

10:00-11:00

Hands-on session with INCRAFT™ AAA Stent Graft System

11:30-12:15

How to treat complex SFA disease in real life population with S.M.A.R.T.™ Flex Stent P. Goverde (Antwerp/BE)

13:00-13:45

Extravascular closure device for femoral vessels: secure handling and patient comfort with MYNXGRIP™ closure device

A. Sala Tenna (Durham/UK)

14:00-15:00

Hands-on session with MYNXGRIP™ Vascular Closure Device

15:15-16:15

Hands-on session with INCRAFT™ AAA Stent Graft System

16:30-17:30

Hands-on session with MYNXGRIP™ Vascular Closure Device



Monday, September 18

10:00-11:00

Hands-on session with INCRAFT™ AAA Stent Graft System

11:30-12:30

Hands-on session with MYNXGRIP™ Vascular Closure Device

13:00-13:45

INCRAFT™ Stent Graft System: low profile and durability in the daily practice F. Wolf (Vienna/AT)

14:00-15:00

Hands-on session with INCRAFT™ AAA Stent Graft System

15:00-16:00

Hands-on session with MYNXGRIP™ Vascular Closure Device

16:15-17:00

How to treat complex SFA disease in real life population with S.M.A.R.T.™ Flex Stent P. Goverde (Antwerp/BE)

Tuesday, September 19

09:30-10:30

Hands-on session with INCRAFT™ AAA Stent Graft System

10:45-11:45

Hands-on session with MYNXGRIP™ Vascular Closure Device

12:00-12:45

INCRAFT™ Stent Graft System: low profile and durability in the daily practice F. Wolf (Vienna/AT)

13:00-14:00

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Extravascular closure device for femoral vessels: secure handling and patient comfort with MYNXGRIP $^{\rm TM}$ closure device

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15:30-16:30

Hands-on session with MYNXGRIP™ Vascular Closure Device

Sponsored by Cordis, a Cardinal Health Company

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SMART FLEX indications may differ from US to EMEA.

INCRAFT is not available for sale in the United States and certain other countries.

Before using any medical device, review all relevant package inserts with particular attention to the indications.

EU2369-1 07/17



Guerbet

Guerbet, your partner in interventional radiology, developed new specific devices, dedicated to conventional transarterial chemoembolisation (cTACE).

For interactive demonstrations with experts, visit our Learning Center.

cTACE mixture preparation

Saturday, September 16

11:00-11:30, T. de Baère (Villejuif/FR) 14:00-14:30, T. de Baère (Villejuif/FR) or L. Tselikas (Villejuif/FR)

Sunday, September 17

11:00-11:30, *T. de Baère (Villejuif/FR)* 14:00-14:30, *L. Tselikas (Villejuif/FR)*

Monday, September 18

11:00-11:30, *L. Tselikas (Villejuif/FR)* 14:00-14:30, *T. de Baère (Villejuif/FR)*

Tuesday, September 19

11:00-11:30, *L. Tselikas (Villejuif/FR)* 14:00-14:30, *T. de Baère (Villejuif/FR)*

Agenda dedicated to fellows - cTACE mixture preparation

Saturday, September 16

10:00-10:30, *T. de Baère (Villejuif/FR)* 15:00-15:30, *L. Tselikas (Villejuif/FR)*

Sunday, September 17

10:00-10:30, *T. de Baère (Villejuif/FR)* 15:00-15:30, *L. Tselikas (Villejuif/FR)*

Monday, September 18

10:00-10:30, *L. Tselikas (Villejuif/FR)* 15:00-15:30, *T. de Baère (Villejuif/FR)*

Tuesday, September 19

10:00-10:30, *L. Tselikas (Villejuif/FR)* 15:00-15:30, *T. de Baère (Villejuif/FR)*

Medtronic

During the below sessions you will be able to meet the experts and learn more about our latest innovations.

Saturday, September 16

11:00-11:45

RF ablation

C. Serra (Bologna/IT)

12:45-13:30

Venous stent design

Hands-on workshop with the engineers

14:00-14:45

Hands-on atherectomy training

M. Treitl (Munich/DE)

15:30-16:15

Latest developments in embolic coil and plug design

17:00-17:45

MW kidney ablation

S. Ilyas (Cambridge/UK)

Sunday, September 17

09:30-10:15

Venous stent design

Hands-on workshop with the engineers

11:00-11:45

MW liver ablation

F. Orsi (Milan/IT)

12:45-13:30

Extending the life of dialysis AV access: lessons learned in using DCBs

K.N. Katsanos (Patras/GR)

14:00-14:45

Venous stent design

Hands-on workshop with the engineers



15:30-16:15

MW lung ablation

H.T. Madsen (Aarhus/DK)

Monday, September 18

09:30-10:15

Venous stent design

Hands-on workshop with the engineers

11:00-11:45

RF ablation

C. Serra (Bologna/IT)

12:45-13:30

Extending the life of dialysis AV access: lessons learned in using DCBs

K.N. Katsanos (Patras/GR)

14:00-14:45

MW liver ablation

F. Orsi (Milan/IT)

15:30-16:15

Latest developments in embolic coil and plug design

Tuesday, September 19

09:30-10:15

MW lung ablation

H.T. Madsen (Aarhus/DK)

11:00-11:45

Latest developments in embolic coil and plug design

12:45-13:30

Hands-on atherectomy training

M. Treitl (Munich/DE)

14:00-14:45

MW kidney ablation

A. Magnusson (Uppsala/SE)

15:30-16:15

Venous stent design

Hands-on workshop with the engineers

Registration required.

Pre-register online at http://bit.ly/MedtronicCIRSE2017 or scan the QR code below.



Merit Medical

Why did I choose the radial approach? Insights from my practice

Moderator: D. Klass (Vancouver, BC/CA)

From stick to haemostasis we will show the benefits of radial access step by step in 4 different stations:

- 1. Preparation and access: femoral vs. radial (using the femoral and radial stick model)
- 2. Navigation: wire and catheter choice and how to use it: femoral vs. radial pathway
- 3. Radial procedure on our simulator, showing the challenges of radial approach (spasm, loops and tortuous anatomy) and how to overcome them
- 4. Haemostasis: all the options for femoral (manual compression, closure devices and manual assist products) versus radial haemostasis products

Saturday, September 16, 11:00-12:15 Sunday, September 17, 11:00-12:15 Monday September 18, 11:00-12:15, 14:00-15:15 (student session)

STAR Tumour Ablation System in treatment of metastatic spine disease

Moderator: J.W. Jennings (St. Louis, MO/US)

An overview of spinal metastatic disease and the use of RF ablation in its treatment. The STAR Tumour Ablation System and published clinical evidence regarding safety and efficacy will be reviewed. Hands-on sessions for both ablation and vertebral augmentation technology will be conducted.

Sunday, September 17, 17:30-18:15

Moderator J.S. Brower (Spokane, WA/US)

The STAR Tumour Ablation System and published clinical evidence will be reviewed. Hands-on sessions for both ablation and vertebral augmentation technology will be conducted.

Monday, September 18, 15:15-16:00 Tuesday, September 19, 11:00-11:45

Please register at our booth or via Merit-CIRSE@merit.com.

Straub Medical

Management of arterial and venous occlusive diseases with mechanical debulking

Topics:

- · Clinical and economic benefits of mechanical debulking
- Indications, treatment specifics and success rates of Rotarex®S and Aspirex®S interventions
- In-vitro demonstration of Rotarex®S and Aspirex®S catheters

Please register at our booth no. 42.

www.straubmedical.com

Terumo Europe

For the programme, please refer to www.cirse.org.



Industry Training Village



The Training Village offers physicians the chance to engage with leading medical device companies providing technologies and devices in the field of thoracic and abdominal aortic treatments. Delegates have the opportunity to participate in free hands-on workshops during the meeting.

This year, **five industry partners** will provide exclusive workshops for hands-on practice and give participants the chance to communicate with experts.

The Training Village runs the length of the IDEAS programme (September 17-19), featuring **two industry workshop slots per day.**

Workshops will cover specific devices and techniques in order to provide an understanding of the treatment procedure, preoperative planning, device usage and postoperative management.

How to participate:

We recommend registering early since the number of participants will be limited. If you have not yet registered for workshops on www.aorticideas.com, you can sign up at the registration counters in the entry hall. On the day of the corresponding workshop interested parties can enquire about last-minute vacancies at the front desk of the training village half an hour before it starts. All workshops are free of charge.

Bolton Medical

Sunday, September 17 14:00-18:00

Bolton Medical Workshop: from the CT scan to the operating theatre

Starting Osirix from scratch

- Database page and importing images (PACS, CD/DVD & FOLDER)
- · Export of series and anonymization main commands, toolbars and customization ROIs
- Viewing a series or multiple series maximum intensity projection

Hands-on technical analysis and measurement

- · Orthogonal MPR
- · Oblique (3D) MPR: diameter and lengths
- Use of MPR to calculate angles volume rendering
- · Export of images

AAA at the operating room

· Hands-on in the virtual simulators



Extending Our Legacy

Introducing our new V12 32 mm covered stent

Physicians have trusted the Atrium Advanta V12 as their go-to balloon expandable PTFE covered stent over 500,000 times. The V12 has become the standard choice by interventionalists in vascular stent grafting, built on a 13-year reputation of superior performance as evidenced by over 200 clinical publications.

Allow our history to improve your patient's future.

www.getinge.com



*Mwipatayi P et al. Durability of the balloon-expandable covered versus bare-metal stents in the covered versus balloon expandable stent trial (COBEST) for the treatment of aortolifac occlusive disease. JVS 2016.

Atrium Advanta V12 is CE approved for restoring the patency of Iliac and renal arteries. Renal approval is for 5-7mm sizes. Atrium Advanta V12 has Canadian Health Ministry approval for restoring the patency of Iliac lesions. Advanta V12 is not available in the U.S.

Atrium Advanta V12 balloon expandable covered stents are manufactured by Getinge / 40 Continental Blvd., Merrimack, NH 03054 / 603-880-1433 • Protected by the following international and U.S. patent(s): http://patents.maquet.com · \(\Delta\) CAUTION: Federal Law (U.S.A.) restricts this device to sale by or on the order of a physician • 1 Getinge Group, Getinge and Atrium are trademarks or registered trademarks of Getinge AB, its subsidiaries, or affiliates in the United States or other countries • Getinge Group and Atrium are registered with the U.S. Patent and Trademark Office • Copyright 2017 Getinge or its affiliates. • All rights not expressly granted are reserved • Refer to Instructions for Use for current indications, warnings, contraindications, and precautions • Part No. 010903 Rev AA

Endologix

Monday, September 18 14:30-16:00

Endologix Technical Forum

Personalized Medicine in EVAR: How I Chose the Right Device for my Patient *J.R. Pulpeiro (Lugo/ES)*

Taste of Nellix: Experience of my Center - Step by Step Deployment on Flow Model **Ovation IX:** Ultra Low Profile EVAR with Durable Results - Deployment on Simulator

Hot Tip: Don't miss the Endologix symposium on Polymer sealing for AAA: why we need to consider an alternative to traditional EVAR prior to the workshop on Monday, September 18; 13:30-14:00; in Auditorium 3!

Getinge

Sunday, September 17 08:30-12:30 **Monday, September 18** 08:30-12:30*

The chimney endovascular technique in the treatment of juxtarenal aneurysms: "from alpha to omega"

Coordinators: K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)

Introduction and preoperative management *K.P. Donas (Münster/DE)*

Logistics and Materials *F. Azevedo (Münster/DE)*

The technique step by step *K.P. Donas (Münster/DE)*

Simulation of the technique in the Silicon model *K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)*

Tips to optimize the clinical outcome *K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)*

Discussion

^{*}this is a repeating workshop

Medtronic

Tuesday, September 19 09:00-11:30

ChEVAR with the Endurant™ Stent Graft System

Coordinators: K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)

Introduction and course objectives M. Deinhardt (Meerbusch/DE)

Standardization of the ChEVAR technique – Inclusion and exclusion criteria K.P. Donas (Münster/DE)

The ChEVAR technique - OR-setup & material needed F. Azevedo (Münster/DE)

ChEVAR with the Endurant™ Stent Graft System – The technique step by step (interactive video-presentation) K.P. Donas (Münster/DE)

ChEVAR with the Endurant™ Stent Graft System – The technique step by step (simulation of the technique on a silicon model) K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)

Tips to optimize the clinical outcome K.P. Donas (Münster/DE), F. Azevedo (Münster/DE)

Final discussion



Philips Volcano

Tuesday, September 19 14:00-16:00

14:00-15:00

IVUS-guided EVAR/TEVAR procedure

F. Fanelli (Florence/IT)

Programme:

- · Procedural steps
- · Recorded case-examples
- · Hands-on on flow model with real-time measurements

Learning objectives:

- To allow delegates to familiarise themselves with Philips Volcano Digital IVUS Technology in EVAR/TEVAR procedures
- Provide hands-on experience on a flow model and learn how IVUS-guidance can reduce contrast and radiation exposure in EVAR/TEVAR procedures
- To improve technical and procedural expertise

15:00-16:00

Phoenix Hybrid Atherectomy System The next generation of peripheral atherectomy

F. Fanelli (Florence/IT)

Programme:

- Plague morphology and lesion evaluation
- · Technical overview of the system
- · Treatment guidance
- Hands-on experience: preparation and operation of the system
- Case examples

Learning objectives:

- To provide delegates hands-on experience of the Philips Volcano Phoenix Atherectomy System for PAD
- To allow participants to become familiar with IVUS imaging in plaque morphology evaluation
- To improve technical and procedural expertise (IVUS + Phoenix)

For more information enquire at the Philips Volcano Booth# 29



Tuesday, September 19Doors open at 19:30



To round off another CIRSE Congress, come join us for a spectacular evening with friends and colleagues!

This year's farewell event will be held at the fabulous Copenhagen Circus Building, the oldest building of its kind in Europe.

The night will begin with a cocktail reception before guests are served a delicious dinner alongside a string of extraordinary entertainment, including acrobatics, circus artistry and unforgettable musical performances. Following dinner and the show, a DJ will open the dance floor for a late-night party with great music.

Don't miss out on this extravagant evening!

Tickets include a cocktail reception, gala dinner and entertainment programme for EUR 100 each.

Buy your tickets at the "Hotels | Social Events | City Information" desk, located in the entrance hall of the congress centre.

CIRSE supports compliance with ethical standards. Therefore, CIRSE emphasises that the present offer (made by KUONI Congress Destination Management) is directed to participants of CIRSE 2017 and recommends that the participants who want to accept the present offer shall bear any and all costs in this context themselves.

Kindly note that entrance to the CIRSE 2017 Party is NOT included in the CIRSE 2017 registration fee!

Cardiovascular and Interventional Radiological Society of Europe

Hands-on Device Training Sponsors

This year's Hands-on Device Training sessions are kindly supported by the following industry partners:

A closer look at closure devices

- · Abbott
- · Terumo Europe

Central lines and ports

- Medcomp
- · Smiths Medical
- · Teleflex
- · Vygon

Embolisation: materials and tools - coils & plugs

- · Abbott
- · Cook Medical
- · Medtronic
- · Penumbra
- · Terumo Europe

Embolisation: materials and tools - liquid agents

- · BALT International
- · GEM SRL
- Medtronic

Embolisation: materials and tools - particulate agents

- · BTG
- · Cook Medical
- · Merit Medical
- · Sirtex Medical Europe GmbH
- · Terumo Europe

Peripheral mechanical thrombectomy

- · Argon Medical Devices
- · EKOS a BTG International group company
- · Penumbra
- · Straub Medical AG

Stroke thrombectomy

- · Acandis GmbH
- · Medtronic
- · Penumbra
- · Stryker Neurovascular
- · Terumo Europe

Tumour ablation - RFA

- · HS Hospital Service Spa
- · Merit Medical
- · Olympus Surgical Technologies Europe
- · RF Medical Co., Ltd.
- · STARmed

Tumour ablation - MWA

- · AngioDynamics
- · ECO Medical
- · HS Hospital Service Spa
- · NeuWave Medical
- · Terumo Europe

Tumour ablation - Alternative techniques and image quidance

- · BTG
- · CAScination AG
- · GE Healthcare
- · Interventional Systems
- · Perfint Healthcare Pvt Ltd
- · RF Medical Co., Ltd.

Varicose veins

- · Olympus Surgical Technologies Europe
- · RF Medical Co., Ltd.
- · Vascular Insights

Vertebral augmentation

- · IZI Medical Products
- Medtronic
- · Merit Medical

For detailed information on sessions, please refer to pages 34-42.

For further information about the industry partners, please refer to pages 248-297 of the Technical Exhibitors Guide.

If you are interested in obtaining product information outside of sessions, please visit the respective company booth in the exhibition area.



Simulation Training Sponsors

The **Principles to practice: education and simulation skills training** sessions are kindly supported by:

- · 3D Systems
- · Abbott
- · Biotronik
- · Boston Scientific
- · Cordis, Cardinal Health
- · Cook Medical
- · Guerbet
- · Medtronic
- · Mentice
- · Merit Medical
- · Terumo Europe

For detailed information on the Simulation Training sessions, please refer to pages 43-45.

For further information about the industry partners, please refer to pages 248-297 of the Technical Exhibitors Guide.

CIRSE Radiation Protection



NEW RADIATION SAFETY LEGISLATION IN 2018!

1. Get expert advice

Learn how to reduce and protect against exposure, as well as the health hazards linked to high levels of occupational exposure to radiation – consult our best-practice guides and information materials, or take a seat and listen to a brief talk hosted by our Subcommittee or industry partners (see mini-talk programme on the next pages).

2. Prepare yourself for the European Directive 2013/59/Eurotom

New regulations and recommendations regarding medical radiation exposure will be put in place as of February 2018 according to the European Directive 2013/59/Eurotom. Learn about these updates at the RPP in order to be prepared for the 2018 changes.

3. Explore state-of-the-art protective technologiesDiscuss the latest products for protection and dose management with select industry partners, who will be on hand at the RPP exhibition to address any questions you may have.



Radiation Protection Quiz

Don't forget to test your radiation protection skills with our electronic quiz, which you can fill out via the CIRSE app!



The CIRSE Radiation Protection Pavilion is proudly supported by:

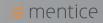










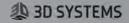












Cardiovascular and Interventional Radiological Society of Europe

Mini-Talks in the Pavilion - Programme

	Time	Mini-Talk	Speaker
SAT SEPT 16	12:45 - 13:15	Opening Ceremony	E. Brountzos (Athens/GR) W. Jaschke (Innsbruck/AT)
	13:15 - 13:30	Personal protection innovations (MDT X-Ray)	D. Janssen (Hilvarenbeek/NL)
SUN SEPT 17	09:30 - 09:45	GeoAlign® Marking System (Bard)	A. Spinelli (Cagliari/IT)
	09:45 - 10:00	Personal radiation protection apparel (protective aprons and goggles)	G. Bartal (Kfar-Saba/IL)
	11:00 - 11:15	Radiation-related illnesses and radiation safety in the cathlab (Radpad)	E. Radtke (Kansas/USA)
	11:15 - 11:30	How to reduce patient and personnel exposure during prostate embolisation?	F.C. Carnevale (São Paulo/BR)
	12:30 - 12:45	Peak skin dose: trigger level to implement dose optimisation and patient-oriented best practice (Bracco/PACSHealth)	A.G. Rampoldi (Milan/IT)
	12:45 - 13:00	Cancer risks in IR personnel	G. Bartal (Kfar-Saba/IL) G. Paulo (Coimbra/PT)
	13:00 - 13:15	Tips and tricks: how to control radiation exposure in selective internal radiotherapy (SIRT)?	R. Adamus (Nürnberg/DE)
	14:00 - 14:15	Basic safety standards directive: what's new for equipment and manufacturers	E.P. Efstathopoulos (Athens/GR)
	14:15 - 14:30	How to manage patient and staff exposure in an interventional radiology department (Philips)	M.W. de Haan (Maastricht/NL)

MINIMUM MARKET TO THE PARTY OF						
ARE YOU READY?						
Time	Mini-Talk Mini-Talk	Speaker				
09:45 - 10:00	Protection of the staff: how to implement effective shielding at reasonable cost?	R. Adamus (Nürnberg/DE)	MON SEPT 18			
10:00 - 10:20	The implementation of the new Directive 2013/59/Euratom: highlights and challenges	E.P. Efstathopoulos (Athens/GR) E. Vano (Madrid/ES)				
11:00 - 11:15	New standards in radiation protection of the eye (MAVIG)	M. Schmid (Munich/DE)				
11:15 - 11:35	Occupational radiation hazards in hybrid ORs	G. Bartal (<i>Kfar-Saba/IL</i>) E. Vano (<i>Madrid/ES</i>)				
12:30 - 12:45	Patient and operator dose reduction with multi-parameter exposure control (Siemens Healthineers)	H. Bosmans (Leuven/BE)				
12:45 - 13:00	Basic safety standards directive: what's new for workers	A. Ploussi (Athens/GR)				
13:00 - 13:15	Practical aspects on RP in fluoroscopy-guided procedures	E. Vano (Madrid/ES)				
13:15 - 13:30	Radiation safety: image quality versus safety during TACE (Mentice)	L. Lönn (Copenhagen/DK) D. Steffel (Gothenburg/SE)				
09:30 - 09:45	Reducing radiation exposure using Procedure Rehearsal Studio's patient specific simulation (Simbionix / 3D Systems)	F. Vermassen (Ghent/BE)	TUE SEPT 19			
09:45 - 10:00	Basic safety standards directive: what's new for patients	P. Platoni (Athens/GR)				
11:00 - 11:15	News from EuroSafe Imaging: activities to promote and establish clinical DRLs (EuroSafe Imaging)	W. Jaschke (Innsbruck/AT)				
11:15 - 11:30	Intraprocedural personal dosimetry: The Innsbruck experience	M. Freund (Innsbruck/AT)				
12:30 - 12:45	Developing a strong radiation safety culture using a NEW real-time dosimetry system (Raysafe / Fluke)	A. Shestakova (Eindhoven/NL)				
12:45 - 13:00	Radiation protection of paediatric patients in fluoroscopically guided	A. Ploussi (Athens/GR)				

procedures

Technical Exhibition (Alphabetical List)

Official Name	Booth#
Aachen Resonance	62
Abbott Vascular International	76
ALN Implants Chirurgiaux	20
Andanza International	77
Andramed	14
AndraTec	27
Angiodroid	73
AngioDynamics	50
AprioMed	79
Argon Medical Devices	57
Asahi Intecc	75
B.Braun Melsungen	52
Bard	22/23
Bentley Innomed	78
Bioteque	83
Biotronik	43
Bolton Medical	84
Boston Scientific International	30
BTG	34
Cardiatis	82
Cardionovum	47
CAScination	4
Control Medical - Distal Access	6
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Aachen Resonance 62

P.Luksio a. 5B 08221 Vilnius LITHUANIA www.aachen-resonance.com

Aachen Resonance, is a spin-off company of the University of Aachen, Germany, and was founded in 2001. It has multiple locations across Europe and Asia, and the main focus is on research of vascular products combined with drugs. ELUTAX SV and EMPEROR are our third generation drug-coated balloons and are the first of their kind to have PACLITAXEL/ DEXTRAN coating to enable a long term drug release over months - with only one single inflation. The especially developed release system offers a sustained drug persistence at the lesion and is key for healing. The versatile drug coating enables us to coat different catheter platforms, therefore we offer a range of drug-eluting balloons with a diameter of 1.5 mm to 8 mm and a length of 1 cm to 25 cm. In addition we offer dedicated AV-HP DEB balloons. The particular homogeneous coating is one of many other reasons why the product can be used in the different vascular territories.

Abbott Vascular International BVBA

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Culliganlaan 2B 1831 Diegem **BFI GIUM** www.abbott.com

At Abbott, we're committed to helping you live your best possible life through the power of health. For more than 125 years, we've brought new products and technologies to the world - in nutrition, diagnostics, medical devices and branded generic pharmaceuticals that create more possibilities for more people at all stages of life. Today, 94.000 of us are working to help people to live not just longer, but better, in the more than 150 countries we serve. Connect with us at www.abbott.com, on Facebook at www.facebook.com/ Abbott and on Twitter @AbbottNews and @AbbottGlobal.



ALN Implants Chirurgiaux

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589 Chemin du Niel 83230 Bormes les Mimosas FRANCE www.aln2b.com

ALN is one of the leaders in its field with its ALN optional vena cava filter. This filter is well known in Europe for more than 20 years and is present for long on international markets including USA. Products: ALN Optional vena cava filter with Hook, ALN Optional vena cava filter without Hook, Retrieval systems of the ALN filter including the 2in1 device, CE Mark & FDA approved (2008), Proven effectiveness, Retrieval after long placements (over 40 months), 1 Retrieval at 12 years.

Andanza International

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Zum Werrablick 4 37276 Meinhard GERMANY www.andanza.de

Andanza International is a German company and was founded in 2005. With the Premofix assortment, the company developed a new range of unpretentious but innovative products for the puncture site aftercare. The Fast–Pressure-Systems are still a new product category for maintaining hemostasis for almost any puncture. The products are meeting internationally growing demand for growing patient and user comfort for low cost. It is unrivaled and easy to use. Bandages, plaster stripes and thick swaps to cover the puncture site become redundant. The side effects of those traditional solutions also. Andanza International is a dynamic company, with a focus on the puncture site aftercare. It is built on "Made in Germany" quality concepts. The Premofix assortment offers different products to increase patient safety either in addition to wound closure systems or as sole solution. Our goal is to supply simple and easy to use products which can be applied also by nursing staff. All of our products are non-invasive and therefore have a very low risk profile. They support the convenience of patient and nursing staff.

Andramed GmbH 14

Schiesswieslenstrasse 18 72766 Reutlinger **GERMANY** www.andramed.com

It is probably a combination of many factors that has made us successful since 2004: the good collaboration of a medium-sized family company; the site in the heart of Germany's medical technology region around the University of Tübingen; our "typical Swabian" meticulousness and our extremely high quality standards; the commitment to just a few, but therefore all the more high-quality niche products, and the collaboration with doctors to find ever-better solutions. All this has contributed to our first-class reputation and making us so well-known - as well as to our products being used worldwide.

AndraTec 27

Simmernerstrasse 70 56075 Koblenz **GERMANY** www.andratec.com

AndraTec provides unique products for the modern interventionist. These unique products range from special wires, Retrieval Snares, Special PTA Balloons, extraordinary stents and covers stents to extra large occluders.

Angiodroid Srl 73

Via Caselle 76 40068 San Lazzaro di Savena (BO) **ITALY** www.angiodroid.com

Angiodroid S.r.l. is an Italian innovative company that projects and trades solutions for the medical market. Angiodroid The CO2 Injector is our main product. It is a carbon dioxide (CO2) injector for interventional radiology procedures and represents the perfect solution for the treatment of patients with diabetic disease, renal failure, intolerance to iodinated contrast media. The use of CO2 in peripheral angiography has been common practice for many decades. To date, however, it has not the proper success due to the lack of advanced technology which could support operators during the procedures. Angiodroid The CO2 Injector, whose main fields of application are interventional radiology & vascular surgery, is the perfect solution to all these problems and is the only injector: 100 % automatic, 100 % safe, 100 % digital, 100 % user friendly.



AngioDynamics 50

14 Plaza Drive NY 12110 Latham UNITED STATES www.angiodynamics.com

AngioDynamics Inc. is a leading provider of innovative, minimally invasive medical devices used by professional healthcare providers for vascular access, surgery, peripheral vascular disease and oncology. AngioDynamics' diverse product lines include market-leading ablation systems, fluid management systems, vascular access products, angiographic products and accessories, angioplasty products, drainage products, thrombolytic products and venous products. More information is available at www.AngioDynamics. com.

AprioMed AB 79

Virdings Alle 28 75450 Uppsala SWEDEN www.apriomed.com

AprioMed develops, manufactures, markets and sells innovative medical devices and related services within the field of interventional radiology. We aim to deliver, in close collaboration with healthcare practitioners, innovative tools to achieve optimal solutions for radiologists worldwide.

Argon Medical Devices

Avenue Mon Repos 14 1005 Lausanne **SWITZERLAND** www.argonmedical.eu.com

Argon Medical Devices welcomes you to booth 57 at CIRSE17. Argon is a global manufacturer of specialty medical products offering a broad range of single-use medical devices for interventional radiology, vascular surgery and interventional cardiology. Argon's portfolio includes: CLEANER™ Thrombectomy Systems, Option™ ELITE IVC Filter, AtrieveTM Vascular Snare Kits, BioPinceTM Full Core Biopsy Instrument, TLAB® Transjugular Biopsy Instrument and SKATERTM Drainage Systems, in addition to many other products for your interventional needs. Our products are sold globally through our sales teams and specialist distributors. CIRSE17 sees the European launch of Argon's BioPince™ Ultra, the latest innovation in full core biopsy technology. BiopinceTM Ultra represents another major advancement from the leader in full core biopsy devices featuring added clinical flexibility with three throw lengths and a forward and rear trigger. BioPinceTM Ultra utilizes the revolutionary tri-axial core, cut and capture cannula system to harvest diagnostic quality specimens while reducing the risk of crush artifact and tissue fragmentation. The Argon team will be delighted to meet you on stand 57 for presentations and hands-on sessions of our complete range of products. We are looking forward to your visit! For more information about our products, please visit: www.argonmedical.eu.com

Asahi Intecc Co., Ltd.

Strawinskylaan 526 WTC B tower 5th floor 1077XX Amsterdam THE NETHERLANDS www.asahi-intecc.co.jp

Asahi Intecc develops and supplies high-quality medical products using an integrated inhouse production system that covers everything from the selection and treatment of raw materials to the manufacturing of final products. In the peripheral field, Asahi Intecc offers a selection of guide wires that incorporate technological innovations ensuring optimal torque transmission from the proximal to the distal end and better control for intraluminal tracking. For femoropopliteal (SFA) interventions, the wire line-up consists of the 0.018" Gladius 18, Halberd 18, Gaia PV and Astato 30, while for infrapopliteal (BK) interventions the 0.014" wires Gladius14, Halberd14, Regalia XS 1.0, Astato XS 20 and Astato XS 40 are available. In the field of IR, Asahi Intecc offers the Masters Parkway microcatheters, with a high flow rate and a large inner lumen for high volume injection and smooth delivery of embolic materials. For increased ease of use, a version with a pre-loaded guide wire that is prepared with just one flush injection is also available. A new 0.016" quidewire Meister 16 with high durability and better torque transmission has recently been launch in the European market.



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B.Braun Melsungen AG

Sieversufer 8 12359 Berlin GERMANY

www.bbraun.com

B. Braun is one of the world's leading healthcare suppliers. Its division Vascular Systems offers high quality products for peripheral interventional procedures. New in pipeline are the novel drug coated balloon SeQuent® Please OTW and the innovative Multiple Stent Delivery System VascuFlex® Multi-LOC.

Bard Limited 22/23

Forest House, Tilgate Forest Business Park Brighton Road RH11 9BP Crawley West Sussex UNITED KINGDOM www.bardpv.com

Bard Peripheral Vascular, Inc. has a tradition of vascular innovation with a focus on improving the quality of patients' lives. It provides a range of interventional and surgical medical devices for the treatment of peripheral vascular, venous, dialysis access, biliary and tracheobroncheal disease. Featured Interventional products include the Lutonix® Paclitaxel Coated PTA Balloon Catheter (SFA, BTK & AV indications), the LifeStent® Vascular Stent Systems - available in lengths up to 250mm, Lifestream™ Balloon Expandable Vascular Covered Stentgraft, VascuTrak™ PTA Dilatation Catheter, Ultraverse® 014, 018 and 035 PTA Dilatation Catheters, Venovo Stent System and a range of unique tools for crossing chronic total occlusions with the Crosser® CTO Recanalization Catheter and Seeker® Crossing Support Catheter.

Bentley Innomed GmbH

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Lotzenaecker 25 72379 Hechingen GERMANY www.bentley-innomed.com

Bentley's passion is the development, manufacturing and distribution of innovative implants for minimal-invasive treatments of vascular diseases. Since market launch in 2012, we rapidly expanded worldwide. Thanks to our international network of exclusive distribution partners we are represented in more than 65 countries – in some we are already market leader.

Bioteque Corporation

5F-6, No.23, Sec. 1, Chang-An E. Rd., 104 Taipei **TAIWAN** www.bioteg.com.tw

Bioteque Corporation currently operates two manufacturing plants in Taiwan and one manufacturing plant in Philippines. The Bataan facility was established in 2013 by Bioteque Corporation. The facility employs approximately 300 people. The area (size) of the facility is 34.288 total square meters. Product categories manufactured are mainly Bloodline and Respiratory Care products. We provide solutions in many critical applications such as nephrology and dialysis, cardiovascular catheters, endourology, interventional radiology just about every field that exists. Manufacturing processes associated with full range of TPU (Thermoplastic polyurethane) catheters and full range of endovascular, endourology, interventional radiology products are manufactured by the Taiwan facilities. All our facilities are accredited with ISO 13485 and compliant with FDA, GMP and Quality System Regulations. In pursuit of extensive and everlasting growth, we are supplying quality products include: Pigtail Drainage Catheter / Double Pigtail Ureteral Stent / PCN kits for Nephrostomy, Hemodialysis Bloodline / AV Fistula Needles, IV Infusion Bags, Double Lumen Dialysis Catheter, CVC catheter, CAPD solution system. Our facility is ISO13485, CE-0434 accredited and passed FDA establishment audit. For more information, please visit our website www.bioteq.com.tw BIOTEQUE is continuously dedicated to develop innovative products and provide total solutions for all its customers.

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Biotronik AG 43

Ackerstrasse 6 8180 Bülach SWITZFRI AND www.biotronik.com

About Biotronik: A global leader in cardio- and endovascular medical technology, Biotronik is headquartered in Berlin, Germany, and represented in over 100 countries. Several million patients have received Biotronik implants designed to save and improve the quality of their lives, or have been treated with Biotronik coronary and peripheral vascular intervention products. Since its development of the first German pacemaker in 1963, Biotronik has engineered many innovations, including Magmaris, the first clincallyproven bioresorbable magensium scaffold; Biotronik Home Monitoring®; Pulsar, the world's first 4 F compatible stent for treating long lesions; Orsiro, the industry's first hybrid drug-eluting stent; and the world's first implantable cardioverter defibrillators and heart failure therapy devices with ProMRI® technology.



Bolton Medical Inc. 84

799 International Parkway FL 33325 Sunrise UNITED STATES www.boltonmedical.com

Bolton Medical's vision is to become the leading provider of endovascular solutions for aortic disease. Headquartered in Sunrise Florida, U.S., Bolton Medical improves the quality of patient care by developing, manufacturing, and distributing innovative, high-quality products and technology solely focused on the aorta. In April 2017 Bolton Medical joined the Vascutek Terumo family, a worldwide leader in design and manufacturing of vascular and cardiovascular products, strengthening its vision to become the leader in endovascular solutions. For more information please visit www.boltonmedical.com

Boston Scientific International SA

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2, rue rene Caudron 78 Voisins le Bretonneux FRANCE www.bostenscientific.eu

We're dedicated to collaborating with healthcare professionals to develop a broad portfolio of meaningful innovations that improve outcomes, reduce costs, increase efficiencies and—most importantly—help more people in more places around the world live longer, healthier lives. Cardiovascular: Interventional cardiology, Peripheral Interventions.

Ryth Management: Cardiac Rythm Management, Electrophysiology.
Medsurg: Endoscopy, Urology & Pelvic health, Neuromodulation.
Featured Products: CRT-D, CRT-P, Defibrillators (ICD), Left Atrial Appendage Closure Device, Pacemakers, Remote Patient Monitoring, Spinal Cord Stimulator Systems. Stents: Coronary.

By Medical Specialty: Electrophysiology Products, Female Pelvic Medicine.
Products: Gastroenterology Products, Gynecology Products, Interventional Cardiology Products, Interventional Radiology Products, Neurological Surgery Products, Orthopedic Surgery Products, Pain Medicine Products, Pulmonology Products, Urology Products, Vascular Surgery Products.

BTG 34

Lakeview, Riverside Way Watchmoor Park **GU15 3YL Camberley** UNITED KINGDOM www.btg-im.com

At BTG we are focused on bringing to market innovative products in specialist areas of medicine to better serve doctors and patients. Our growing portfolio of Interventional Medicine products is designed to advance the treatment of cancer tumours, advanced emphysema, severe blood clots and varicose veins, while our Specialty Pharmaceuticals portfolio offers antidotes that alleviate toxicity and treat rare conditions. Healthcare is constantly evolving – so BTG never stands still. Inspired by a deep understanding of our customers' needs, we're working to meaningfully improve the lives of patients and their healthcare experience. Our competitive advantage is our dedication to finding smart, often unconventional solutions to complex medical problems. Many of our products combine medicines, device technology and new techniques in order to deliver more targeted treatments. We also invest in the clinical evidence to help demonstrate the value of our products to doctors, patients, and healthcare systems. Doing what's right for patients is what gets us to work in the morning. It's part of our DNA. By staying true to this principle and our values, we've earned a strong reputation for the quality of our products and our commitment to innovation. Whether developed in our own labs or in partnership with clinicians, academics and other companies, we believe passionately that medical innovation has the power to improve human health. For more information, please visit btg-im.com.

Cardiatis SA 82

3 rue Jules Poskin B-5032 Isnes BELGIUM www.cardiatis.com

Cardiatis (Belgium) offers an off-the-shelf solution for all aneurysm locations. Relying on the understanding of hemodynamics and artery physiology, the 3D braided design of the

MFM® (Multilayer Flow Modulator) turns pathophysiological blood flow into laminated flow, leading to the ultimate healing of diseased arteries while keeping all branches

patent. The MFM® also benefits both the patients and the physicians with an efficient minimally invasive implantation procedure and less X-ray exposure.



Cardionovum GmbH 47

Am Bonner Bogen 2 53227 Bonn GERMANY www.cardionovum.de

Cardionovum GmbH is a leading company in innovative coronary and peripheral drug coating technologies improving clinical outcomes and quality of life. LEGFLOW® DCB for peripheral artery disease treatment as well as APERTO® DCB for hemodialysis shunt treatment and new technologies such as bioabsorbable stents are the latest innovations with highest patient safety quarantee.

CAScination AG 4

Steigerhubelstrasse 3 3008 Bern SWITZERLAND www.cascination.com

CAScination AG is a highly innovative Swiss company established as a global leader in stereotactic navigation and image fusion, offering products that enable safer and more effective minimally invasive treatments. The company's product portfolio includes commercially available solutions for open and laparoscopic liver surgery and CT-guided percutaneous interventions in soft tissue organs. With extensive clinical experience of more than 1000 procedures performed, CAScination's technologies have proven they can safely expand indications for minimally invasive surgery in several applications, while enabling significant savings in time and resources for the hospital. Collaborating closely with leading clinicians and institutions, CAScination is also supporting important research to generate further evidence on how its products can improve patient outcomes. In addition, the company's growing development pipeline integrates augmented reality, navigation and robotic technologies setting the standards for the next generation of minimally invasive surgical applications.

Control Medical - Distal Access

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2500 South State Street Suite 257 UT 84115 Salt Lake City **UNITED STATES** www.controlmedtech.com

Control Medical's ASPIRE Mechanical Thrombectomy System is a high-performance mechanical aspirator that allows users to instantly start, stop, increase, decrease, maintain, and pulse aspiration force. ASPIRE Mechanical Aspirators are sold individually to connect to the clinician's catheter of choice and/or as a kit with over-the-wire or rapid exchange catheters. Distal Access's PILOT and SHAVR platforms deliver improved feel, control, speed, and precision for biopsy, access, and surgical tissue removal. The 100% disposable system does not require new capital equipment and allows the physician to control tissue targeting and extraction during a variety of procedures.

Cook Medical Europe Itd

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O Halloran Road, National Technology Park Limerick **IRELAND** www.cookmedical.eu

Since 1963, Cook Medical has worked closely with physicians to develop technologies that eliminate the need for open surgery. Today we are combining medical devices, biologic materials, and cellular therapies to help the world's healthcare systems deliver better outcomes more efficiently. We have always remained family owned so that we have the freedom to focus on what we care about: patients, our employees, and our communities. For more information, visit www.cookmedical.eu.

Cordis 35

Linderstrasse 10 6310 Baar SWITZFRI AND www.cordis.com/emea

Cordis, a Cardinal Health company, is a worldwide leader in developing and marketing innovative solutions and devices for cardiovascular disease management. Cordis is committed to deliver the right combination of solutions, products, services and evidence to treat millions of patients who suffer from vascular disease. Follow CORDIS EMEA on LinkedIn to receive our latest news and key activities.



Delcath Systems Limited

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Unit 19, Mervue Business Park H91 EP89 Mervue, Galway IRELAND www.chemosat.com

Delcath Systems is a specialty pharmaceutical and medical device company focused on oncology. Our proprietary product - the Delcath Hepatic Delivery System for use with Melphalan Hydrochloride - is designed to administer high dose chemotherapy to the liver, while controlling systemic exposure.

Deutsche Akademie für Mikrotherapie e.V.

5

Leipziger Strasse 44 39120 Magdeburg GERMANY www.dafmt.de

Microtherapy or minimally-invasive medicine opens a perspective of completely new therapeutic dimensions in numerous medical subspecialties. Technical advances enable treatment of an increasing number of diseases with a minimum of trauma and discomfort to the patient. However, such strategies demand a highly developed sense of interdisciplinary strategies and a culture of teamwork and communication across medical specialties. The same challenges apply for the development of new materials, tools and interventional techniques, which can only be successfully implemented in close cooperation of physicians, scientists and industrial developers to meet the demands of patients and users. The Deutsche Akademie für Mikrotherapie (DAfMT) understands itself as a platform for this interdisciplinary dialogue. Main feature at present is academic teaching in practical courses and workshops. Our philosophy is based on a diseasecentered approach, with physicians of various specialties gathering to teach conceptual interdisciplinary thinking in addition to practical skills in microtherapy. Scholars will be quided to develop treatment algorithms including microtherapeutic techniques, and they will additionally undergo training using phantoms and animal models to learn essential practical skills. The DAfMT also renders specific services for preclinical science and development in microtherapeutic techniques and the according tools.

Dotter Femoral Access

55

Utrechtseweg 93 1213TM Hilversum THE NETHERLANDS www.dotteraccess.com

The incidence of critical limb ischemia is 500-1000 new cases per million individuals in Western Society (1). PTA is the preferred cure and yearly 790.000 legs are treated in the US (2). Dotter Femoral Access has developed an innovative femoral access tool. It facilitates antegrade access in the work-up of PTA of the SFA and BTK arteries. Femoral access by the antegrade approach is the first-choice access procedure in revascularization of CLI (3). However, antegrade access is fraught by technical challenges and a long learning curve. Using standard available tools, Giuseppe Biondi-Zoccai urges a minimum caseload of 60 procedures to master this technique (4). When putting the DFA-tool in clinical practice, it is expected to reduce the learning curve to less than 5 supervised procedures. The DFA tool consists of a quidewire with a deflection curve and a stabilizer that makes the quidewire entering the SFA practically automatically. Antegrade access will be much easier than with any existing tool and will prevent the complications that occur today (5).(1) Teraa: J Am Heart Assoc 2016;5:e002938. (2) Goodney: J Vasc Surg 2009;50:54.(3) Faglia: Eur J Vasc Endovasc Surg 2005;29:620-7.(4) Biondi-Zoccai: Catheter Cardiovasc Interv 2006;68:835-42. (5) Wheatly: Arch Surg 2011;146:432-5.

Eco Medical 7

10th Floor, Block 2, Binjiang Plaza, No. 305, Jiangdong North Road 210036 Nanjing, Jiangsu CHINA www.ecomicrowave.com

ECO is one of the largest microwave ablation system manufacturers in China. With 15 years' expertise in microwave ablation, ECO is committed to developing the finest ablation technology to better serve cancer patients around the world. Microwave varicose veins system is also ECO's unique innovation which has been approved to be an effective minimally invasive technology to cure varicose veins patients. For more information about ECO, please visit www.ecomicrowave.com.



Edizioni Minerva Medica

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C.So Bramante 83 10126 Torino ITALY www.minervamedica.it

Since 1909, Edizioni Minerva Medica publishes specialist journals and books which are distributed worldwide, among which The Journal of Cardiovascular Surgery. The journal is indexed by BIOSIS Previews, Current Contents/Clinical Medicine, EMBASE, PubMed/MEDLINE, Science Citation Index Expanded (SciSearch), Scopus and has an Impact Factor of 2,179.

Encapson BV 17

Hengelosestraat 705 7521PA Enschede THE NETHERLANDS www.encapson.com

Encapson is a Dutch medical technology company with the mission to improve patient care through echogenic visibility solutions for medical devices. The company developed Sono-CoatTM; a best in class coating-based visibility system that significantly improves the ultrasound visibility of medical devices in the body leading to better patient outcomes. The unmatched ultrasound visibility of Sono-CoatTM enables doctors carrying out difficult minimally invasive procedures. Sono-Coat[™] is a game-changing technology in situations "when precision counts". It enables precise targeting of objects in deeper tissue structures (e.g. liver and kidney biopsies) and supports the physician in performing accurate, safe and error-free ultrasound-guided minimally invasive procedures. Standard medical devices have a poor visibility in ultrasound imaging, which creates a risk when carrying out interventions. Sono-CoatTM catheters and needles are clearly visible in the image, allowing for effortless location from any possible angle. Encapson has defined a new standard for ultrasound visibility in imaging minimally invasive procedures. In a comparative study, published in GIE, 60 endoscopists and interventional radiologists performed a blind review of the ultrasound visibility of 10 different echogenic biopsy needles (laser-etched, dimpled, sand-blasted and Sono-CoatedTM). The Sono-CoatTM needle outperformed (p<0.01) all currently available needles and was ranked number 1 in ultrasound visibility.

Endocare, Inc. 2

9825 Spectrum Drive, Building 3 TX 78717 Austin **UNITED STATES** www.healthtronics.com

Endocare, Inc. is a medical device company focused on the development of minimally invasive technologies for tissue and tumor ablation. With over 10-years of clinical experience in percutaneous cryoablation for kidney, lung, palliative pain management, and other tissues, we remain committed to innovative technology that improves and extends patients' lives.

Endovascular Today Europe

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1008 Upper Gulph Road, Suite 200 PA 19087 Wayne **UNITED STATES** www.evtoday.com

Endovascular Today Europe is the premier publication for all specialists engaged in endovascular therapies. Published 7 times a year with a weekly online e-news, each issue of Endovascular Today Europe features timely articles on new techniques, clinical trial results, case studies, and advances in technology for endovascular practitioners. Endovascular Today Europe is distributed to 9,200 endovascular specialists in Europe.

GEM s.r.l. 21

Via dei Campi 2 PO BOX 427 55049 Viareggio **ITALY** www.gemitaly.it

GEM srl, Italian firm established in 1994 produces (under GLUBRAN brand) and distributes all over the world synthetic surgical glues: GLUBRAN 2 (Ref. G-NB-2; G-NB2-50; G-NB2S-25) for Surgical and Endovascular use; GLUBRAN TISS2 (Ref. G-NBOC2; G-NBOC2-35; G-NBOC-25) for skin application. GEM srl also produces and distributes the application devices suitable for the use of these glues: Dispensing Tips (Ref. G-DT) suitable for all the types of vials of glues; Catheters for Laparoscopy (Ref. G2-LPC; G2-LPC-RIG) for laparoscopic surgeries; Drop Control Devices (Ref. G2-DCD-210-8T) for open surgeries; Spray Devices in 5 models (Ref. G2-NBT; G2-NBT-SMALL; G2-NBT-RIG; G2-NBT-SHORT; G2-NBT-SM-SHORT) suitable for open, laparoscopic, thoracoscopic and bariatric surgeries,



application devices dedicated to the closure of vascular accesses, Glubran 2 Seal Device Ref. G2-SL 5/6; G2-SL 7/8 and 1 ml luer lock syringes Ref. G-LLS in polypropylene. All the above listed application devices are technically studied on purpose for GEM's glues. All GLUBRAN products are CE marked.

Geotek Medical Ltd. 66

Ivedik OSB Agac Metal Sitesi 1436 Sk. No:12 06378 Ankara TURKEY www.geotekmedical.com

Geotek Medical is a manufacturer of Disposable Biopsy Needles, Disposable Needle guides and kits, Tumor marker systems, Drainage catheters & sets, all our products carry CE mark, and needle guides have FDA 510k approval.

Getinge 16

Kehler Strasse 31 76437 Rastatt GERMANY www.getinge.com

Getinge is a global provider of innovative solutions for operating rooms, intensive-care units, sterilization departments and for life science companies and institutions. Our extensive portfolio of trusted products, solutions and consulting services, have been brought together under one single brand – Getinge. With brands like Maquet, Lancer, Atrium, Pulsion, Datascope, Steritec and Stericool – just to name a few - we are now a global market leader in many healthcare and life science segments. Based on our first-hand experience and close partnerships with clinical experts, healthcare professionals and medtech specialists, we are improving every-day life for people, today and tomorrow. www.getinge.com

Guerbet 24

15 rue des Vanesses 95943 Roissy CdG Cedex **FRANCE** www.guerbet.com

Guerbet is a pioneer in the contrast agent field, with 90 years' experience, and is the only pharmaceutical group dedicated to medical imaging worldwide. It offers a comprehensive range of X-Ray, Magnetic Resonance Imaging (MRI) and Interventional Radiology and Theranostics (IRT) products, along with a range of injectors and related medical devices to improve the diagnosis and treatment of patients. To discover new products and ensure future growth, Guerbet invests heavily in R&D on which it spends around 9% of its sales each year. Guerbet (GBT) is listed on Euronext Paris (Segment B – Mid Caps) and generated €776 million in revenue in 2016. For more information about Guerbet, please visit www. guerbet.com

H.S. Hospital Service S.p.A.

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Via Zosimo, 13 00178 Rome **ITALY** www.hshospitalservice.com

HS Hospital Service SpA is a leading player in the interventional oncology market, from RF and MW tumor ablation systems to soft tissue and bone marrow biopsy needles, catheters, drug infusion devices and all sorts of products for surgery, interventional radiology and critical care. In the field of health technologies, success may only be achieved through excellence. We are committed to deliver excellence all the way from product design and manufacturing to post-sale customer care. We transfer know how and expertise from industrial research to the clinical field and back. Every day we work side by side with physicians and interact with all the stakeholders in interventional oncology for better understanding and fulfilling their needs and requirements, so to deliver to the market top level devices, with optimum performance, minimum invasiveness and unmatched usability. Let us show you our new products and projects and let us share with you information, ideas, plans and strategies for the future. Come and visit us at booth number 48!



Hyprevention 16a

PTIB - Hopital Xavier Arnozan Avenue du Haut Leveque 33604 Pessac FRANCE www.hyprevention.com

Founded in 2010, Hyprevention is a French company that develops, manufactures and sells implantable medical devices to address unmet clinical needs. Its first product, Y-STRUT®, is indicated for patients at risk of hip fractures due to osteoporosis or bone metastases localized in the proximal femur.

Imactis 38

5 avenue du Grand Sablon 38700 La Tronche FRANCE www.imactis.com

IMACTIS is specialized in computer assisted interventional radiology. IMACTIS develops and markets innovative solutions to assist interventional radiologists during minimally invasive needle procedures (biopsies, tumor ablations, vertebroplasties, infiltrations, drainages...). The objective is to increase accuracy and safety, facilitate complex procedures, reduce the length of procedures, decrease the number of controls and improve patient treatment.

Interventional News / BIBA

526 Fulham Road SW6 5NR London UNITED KINGDOM www.interventionalnews.com

Interventional News is an editorially independent, expertly curated news provider that brings you the news, as it happens. With a brand new website, fortnightly newsletters, social media presence, and an app with worldwide readership, we also have a quarterly print edition for subscribers in Europe and North America. Published by BIBA Medical, Interventional News is steered by renowned editors-in-chief, Professor Andy Adam and Dr. Brian Stainken, and reaches over 12.000 interventionalists. Interventional News contains the latest news, summaries of cutting-edge research and spotlights controversies in interventional radiology. We publish expert analysis, conference coverage and key updates on the latest products and medical device industry. Have you visited us yet? Free subscription at www.interventionalnews.com

iSYS Medizintechnik GmbH

Bergwerksweg 21 6370 Kitzbühel **AUSTRIA** www.isys.co.at

Core competence of Interventional Systems (iSYS Medizintechnik GmbH) is development, production and distribution of computer-aided assistance and navigation devices for (realtime) positioning of needle and/or instruments directly within the gantry of the imaging device. The product portfolio includes robotic positioning platforms as well as accessories like e.g. the iFIX product, a unique universal immobilization and positioning device for patient positioning. Our products and accessories are designed to support micro-invasive procedures under CT and Fluoroscopy guidance, increasing accuracy and precision as well as clinical safety, especially in difficult and complex cases including biopsies, drugdelivery, pain treatments, tumor ablation (Radiofrequency, Microwave, Brachytherapy, etc.) and electrode placement in the brain.

iVascular, S.L.U. 31

Camí de Can Ubach 11 08620 Sant Vicenc D. Horts **SPAIN** www.ivascular.es

iVascular offers a comprehensive portfolio of premium products in the fields of Interventional Cardiology and Interventional Radiology including Drug Eluting Balloons, Drug Eluting Stents, Bare Metal Stents, Self-expandable Stents, Thrombus Aspiration Catheters and Angioplasty Balloon -Catheters.

Joline GmbH & Co. KG

Neue Rottenburger Strasse 50 72379 Hechingen **GFRMANY** www.joline.de

Joline has built on a long tradition in the development and production of medical devices meeting the highest quality standards. Advanced production technology and medical expertise ensure consistency and reliability. All Joline products have been developed and produced exclusively in Germany. Excellent global customer relations and positive patient outcomes are essential for our success.



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M.D.L. Srl 67

Via Tavani 1/a 23014 Delebio (SO) ITALY www.mdlsrl.com

Based in Northern Italy, MDL, has been on the forefront of innovation since 1993. Already an established leader in the production of biopsy needles, it continues to innovate developing new and custom made technologies for the following procedures: Histological Biopsy, Cytological Biopsy, Bone Marrow Biopsy, Bone Biopsy, Senology, Percutaneous Drainages, Radiology, Anesthesia. MDL's in house production capabilities, allow medical professionals to work hand in hand with technicians to develop, modify and innovate, providing state of the art, custom solutions both quickly, and efficiently, for any specialized medical use. MDL is in the unique position to guarantee the devices performance, maintenance and further developments through its effective quality management system. The entire design, production and distribution process meets the standard UNI CEI EN ISO 13485:2012 and UNI EN ISO 9001-2008. The devices also bear the CE Mark released as per Annex II of European Council Directive 93/42 CEE. The product's production certification guarantees each device has undergone a comprehensive and accurate inspection at each phase of production. This attention to detail and the stringent approval process ensures the highest quality product. MDL is placed nationally and internationally through a dedicated and exclusive sales network of regional and international distributors.

Medcomp 32

1499 Delp Drive PA 19438 Harleysville UNITED STATES www.medcompnet.com

Medcomp is a major supplier of Venous Access Systems. This year Medcomp is proud to introduce you to the next generation of ECG PICC placement with the C3 Wave. The C3 Wave is an easy-to-use, app-based wireless ECG system designed to free up clinicians' hands by removing excess wires and allowing more focus on patient care. As well as showcasing our new C3 Wave Medcomp will also be exhibiting: Hemodialysis Catheters, cuffed and uncuffed. This will include its series of Split Tipped designs. Rounding off the dialysis line will be DuraLock-C, Trisodium Citrate antibacterial-anticoagulant catheter locking solution. For drug/chemotherapy administration, CT-Power Injectable PICC lines, tunneled PICC lines, PICC Ports as well regular power injectable Ports will be demonstrated. Rated at 300psi, these venous access devices allow contrast delivery to 5cc/second, facilitating superior contrast enhanced CT studies. Also the new DIRECT MICROPUNCTURE PORTS will be shown Neonatal micropuncture access will be showcased as well. Significant features include: a .010" mini-mandrel wire, a mini-sheath/dilator, and a 1.9 French neonatal line.

Medex Research Ltd 80

2 Chapel St PO19 1BU Chichester West Sussex UNITED KINGDOM www.medexresearch.com

We help medical device companies wishing to explore growth opportunities and develop marketing strategies for new and existing products in developed and emerging markets.

Medtron AG 49

Hauptstrasse 255 66128 Saarbrücken GERMANY www.medtron.com

Medtron AG is a globally active company working in the field of medical engineering. As one of the leading manufacturers of ultramodern contrast medium injectors, Medtron AG has made its name on the market: Across the globe, many thousand doctors, hospitals and diagnostic centres place their trust in Medtron's contrast medium injectors made in Germany. Our innovative and high-quality injector systems complement virtually all modern methods of examination which can be performed with the help of medical engineering imaging systems, such as magnetic resonance imaging, computed tomography and angiography. Our goal is to combine improved diagnostics, patient-friendliness and cost effectiveness. To facilitate the optimization of the examination techniques, we run development projects involving all renowned manufacturers of radiological imaging systems and devices. Medtron offers a wide range of device-specific and high-quality consumables for its injectors.

Medtronic 45

Operational Headquarters 710 Medtronic Parkway MN 55432-5604 Minneapolis UNITED STATES www.medtronic.com

As a global leader in medical technology, services and solutions, Medtronic improves the health and lives of millions of people each year. We believe our deep clinical, therapeutic and economic expertise can help address the complex challenges — such as rising costs, aging populations and the burden of chronic disease — faced by families and healthcare systems today. But no one can do it alone. That's why we're committed to partnering in new ways and developing powerful solutions that deliver better patient outcomes.



Founded in 1949 as a medical repair company, we're now among the world's largest medical technology, services and solutions companies, employing more than 85.000 people worldwide, serving physicians, hospitals and patients in more than 155 countries. Join us in our commitment to take healthcare Further, Together. Learn more at Medtronic. com.

Merit Medical 60

Amerikalaan 42 6199AE Maastricht THE NETHERLANDS www.meritemea.com

Founded in 1987, Merit Medical is a worldwide company engaged in the development, manufacture and distribution of proprietary disposable medical devices used in interventional and diagnostic procedures, particularly in cardiology, radiology, embolic therapy and endoscopy. We look forward to CIRSE 2017 and presenting our high-performance product portfolios which include: Embosphere® Microspheres, the most clinically studied and proven round embolic, backed by more than 200 clinical articles and indicated for use in uterine fibroids, prostatic artery and arteriovenous malformations embolisation; HepaSphereTM Microspheres, which deliver excellent objective response rates for embolisation of hepatocellular carcinoma and metastases to the liver; SwiftNINJA®, a straight tip catheter that articulates up to 180 degrees in opposing directions to rapidly select the most challenging vascular ostium; HeRO® Graft, the only fully subcutaneous AV access solution clinically proven to maintain long-term access for haemodialysis patients with central venous stenosis. In our Learning Centre workshops, we will show the benefits of radial access at 4 different stations, review the STARTM Tumour Ablation system in treatment of metastatic spine disease, with hands-on sessions for both ablation and vertebral augmentation technology and demonstrate the Surfacer® Inside-Out Access Catheter System, used to restore and preserve access in chronically occluded veins. We look forward to seeing you at our booth and Learning Centre.

Mermaid Medical A/S 44

Frydensbergvej 25 3660 Stenlose **DENMARK** www.mermaidmedical.dk

Mermaid Medical is a private and independently owned company founded in 2007 and headquartered in Denmark. We develop, manufacture and distribute high quality innovative products for diagnostic and interventional radiology and for vascular surgery. We collaborate closely with clinicians to provide solutions that improve patient outcomes. The first products of our D Clot thrombectomy systems range, the D Clot OTW and the D Clot HD will be presented during the CIRSE. These are all-in-one systems requiring no additional capital equipment and providing wall-to-wall thrombus removal. Our global offices serve physicians and patients across Europe, USA and Asia. We look forward to your visit at our booth.

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MIM Software Inc.

25800 Science Park Drive Suite 180 OH 44122 Cleveland UNITED STATES www.mimsoftware.com

MIM offers innovative and clinically relevant solutions for Y90 microsphere therapies with MIM SurePlan Y90. A complete, multi-department solution is offered that ties together IR, Nuclear Medicine, and Radiation Oncology. Save significant time with atlas based segmentation of the liver, rigidly or deformably fuse MR or Diagnostic CT for tumor definition, calculate lung shunt %, and calculate dose on post-procedure Bremsstrahlung SPECT/CT or PET/CT-PET/MR. DVH display, isodose curves, and structured reporting are all included. *pending FDA 510k clearance



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Möller Medical GmbH

Wasserkuppenstrasse 29-31 36043 Fulda GERMANY www.moeller-medical.com

Möller Medical is a German medical device manufacturer who belongs to medimondi group. medimondi group is part of Centrotec Sustainable AG and covers all corporate activities concerning medical devices and engineering plastics. Möller Medical manufactures components and highly sensible medical devices. Our product portfolio consist of own brands (interventional radiology, urology, neurosurgery, aesthetics, blood banks) and OEM business (human cannulae, nano-coatings, HPLC hardware, peristaltic pumps). Our product line BiopC is based upon decades of experience in developing and manufacturing all kinds of cannulae and needles for human medicine as well as in the field of intensive care. Creating high quality products with the utmost respect for patient's well-being has been an unspoken mission statement ever since the foundation of the company 60 years ago. This guideline directly influenced the development of the BiopC product range and will remain a determining factor to continuous developments of the product portfolio.

NeuWave Medical, Inc.

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3529 Anderson Street WI 53704 Madison UNITED STATES www.neuwaye.com

NeuWave Medical®, now a part of the Ethicon family of companies, created the first intelligent ablation system and the only system that has it all. The versatile probe portfolio with multi-probe synchronized energy delivery allows physicians to tailor ablations with 1, 2 or 3 probes. In addition, the 17 gauge PrecisionTM PR probe is the only probe available with distal energy control. The unique computer controlled system now includes Ablation ConfirmationTM software, offering the only integrated in-procedure confirmation to evaluate the technical success of your procedure. Build your ablation program with the first intelligent ablation system and the only system that has it all.

Olympus Winter & IBE GmbH

Kuehnstrasse 61 22045 Hamburg **GERMANY** www.olympus-oste.eu

Olympus develops solutions for healthcare professionals that help to improve outcomes and enhance quality of life for their patients. By enabling less invasive treatments and innovative diagnostic procedure, Olympus is transforming the future of healthcare. At our booth we are going to present the unique radiofrequency bipolar and multipolar technology for tumor ablation. The method was developed by Celon, a German company that is now a part of Olympus as the worldwide competence center for new medical radiofrequency technologies. As an alternative to surgical removal, radiofrequency ablation of benign thyroid nodules, presented by Olympus, has become more and more popular worldwide. We will be happy to provide you with more information about our CELON Power System at our booth.

optimed Medizinische Instrumente GmbH

Ferdinand - Porsche Strasse 11 76275 Ettlingen **GFRMANY** www.opti-med.de

optimed is specialized in manufacturing and developing medical products for minimally invasive therapy. As a constant innovation leader with headquarter in Germany, we commit ourselves to the highest quality standards. We are the ideal partner for innovative medical practitioners, working in the field of minimal invasive therapy, specifically in Arterial Therapies: Nitinol Stents, Balloon Catheters, Accessories. Venous Therapies: Nitinol Stents, Balloon Catheters; CO2 Angiography: CO2 Angioset, CO2 Pressure Reduction Valves; Urology: Ureteral Stents, Ureteral Catheters, Stone Baskets, Percutaneous Drainages, Accessories; Gastroenterology: Gastroenterological Drainages, Percutaneous Drainages, Stents; Spine: Vertebroplasty Systems, Bone Cement. We are particularly proud to be the world market and technology leader in venous stenting. Deep vein thromboses affect up to 3 in 1.000 people every year. Venous thromboses are therefore among the most common vascular diseases. With our large portfolio of venous stents, we give the surgeon the opportunity to treat the underlying disease, not just the symptoms. optimed offers interactive workshops on an expert level to gain and expand experiences in venous therapies. Indications for interventional procedures include: Deep vein thrombosis, May-Thurner syndrome, Recurrent iliofemoral venous thrombosis, Post thrombotic syndrome (PTS), Tumour-related stenosis, Vena cava syndrome.

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Pajunk GmbH Medizintechnologie

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Karl-Hall-Strasse 1 78187 Geisingen GERMANY www.pajunk.com

PAJUNK® - Pioneering medical technology. Since 1965 the independent family business grows continuously. PAJUNK® offers a wide range of disposable cannulas for extraction of soft tissue such as prostate, kidney, liver and a variety of soft tumours. The cannula system is characterised by their finish, precision & geometry. There are also bone marrow biopsy products available. PAJUNK® complies with the following standard – ISO EN 13485.

Penumbra Europe GmbH

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Am Borsigturm 44 13507 Berlin GERMANY www.penumbrainc.com

Headquartered in Alameda, California, Penumbra, Inc. is a global interventional therapies company that designs, develops, manufactures and markets innovative medical devices. We have a broad portfolio of products that addresses challenging medical illness and significant clinical needs across two major markets, neuro and peripheral vascular. The conditions that our products address include, among others, ischemic stroke, hemorrhagic stroke and various peripheral vascular conditions that can be treated through thrombectomy and embolization procedures.

PharmaCept GmbH

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Bessemerstrasse 82 12103 Berlin **GERMANY** www.pharmacept.com

PharmaCept - Experts in Interventional Radiology. PharmaCept stands for the successful development of niche products for various cancer indications with a special focus on research in Interventional Oncology. The main pillar of our company's development is the chemoembolization therapy. Based on the Barcelona guidelines for the treatment of primary liver cell carcinoma, chemoembolization has become an integral part of the therapy of hepatocellular carcinoma patients. With our product EmboCept® S, the only short-term embolic agent, tumor growth can be considerably reduced. New clinical studies will continue to explore scientifically already known advantages of degradable starch microspheres and unlimited combination with drugs, e.g. our new Cisplatin powder PlatiCept®. Cisplatin powder is the second most commonly used chemotherapeutic agent for primary liver cancer. It can be used as an alternative drug to doxorubicin, within a combination or after a tumor progression under anthracyclines. Our experimental data show a significantly increased accumulation of platin products in tumor tissue when it is used in combination with starch microspheres (EmboCept® S).

Philips International B.V.

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Veenpluis 6 5684PC Best THE NETHERLANDS www.philips.com/newscenter

Philips is a leading health technology company focused on improving people's lives across the health continuum – from healthy living and prevention, to diagnosis, treatment and home care. Applying advanced technologies, and deep clinical and consumer insights, Philips delivers integrated solutions that improve people's health and enable better outcomes. Partnering with its customers, Philips seeks to transform how healthcare is delivered and experienced. The company is a leader in diagnostic imaging, image-guided therapy, patient monitoring and health informatics, as well as in consumer health and home care.



Piolax Medical Devices, Inc.

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2F 3-18-20 Shin-Yokohama, Kohoku-ku 2220033 Yokohama / Kanagawa JAPAN www.piolax-md.co.jp/en

We "PIOLAX MEDICAL DEVICES, INC." are specialized in manufacturing high quality medical intervention devices like micro-catheters, guidewires, micro-coils for not only vascular field, but also for GI field. Since our company was found in 1999, we have been developing and producing user friendly devices based on Made in Japan Quality with an honor of being one of the medical members devoted to patients. We are relatively new to enter international markets so we would be glad to hear your comments for our products and we are looking for potential business partners as well.

QualiMed Innovative Medizinprodukte GmbH

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Boschstrasse 16 21423 Winsen GERMANY www.qualimed.de

A Real Milestone! 2017 marks QualiMed's 20th Anniversary and the launch of our 1st Bioresorbable products. We've spent 20 years developing and cultivating our expertise in medical device development and manufacturing from the Idea to commercialization delivering innovative products to the Interventional Cardiology, Peripheral Vascular and Non Vascular specialties. This year, we're celebrating our success - our products, our teams, our distributors, and our customers. As a leader in the design, development, production, and sales of innovative medical devices for interventionist and the patients they treat, QualiMed is continually focused on enhancing its team of medical device professionals who are interested in working in the fast paced ever changing environment. New range of Micro Invasive and Bioresorbable products are coming soon. For further inquiries regarding any of our products, call +49 41 71 65 78 0 or visit us at www.qualimed.de

Ra Medical Systems, Inc.

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1930 Kellogg Ave CA 92008 Carlsbad UNITED STATES www.ramed.com

Ra Medical Systems, Inc. develops, manufactures and markets excimer laser-based medical equipment designed to treat psoriasis, vitiligo, atopic dermatitis and leukoderma. Ra Medical Systems also develops, manufactures and markets a proprietary laser and delivery systems for cardiovascular treatment.

RF Medical Co Ltd. 12

#503, 506, 254, Beotkkot-ro, Geumcheon-gu 08511 Seoul **KOREA** Republic of www.rfa.co.kr

About RF Medical: As a manufacturer, RF Medical is dedicated to popularizing radiofrequency ablation treatments since 2003. Our extensive product range spans from tumor ablation to varicose vein treatments. Our sophisticated technology has allowed us to spread our business to more than 40 countries and our proven quality has granted us a strong reputation on the market. As always, RF Medical strives with all its capabilities to create a healthier world by continuous investment in research and development. Products: Radiofrequency Generators, Radiofrequency Electrodes, Radiofrequency Catheters, Biopsy Needles, Infiltration Pump. BUSINESS AREA: Liver RFA, Bloodless Liver Resection, Lung RFA, Renal Cancer RFA, Varicose Vein Treatment, Disposable Biopsy Needle, Thyroid RFA, Myolysis RFA, RFA for Bone Tumors, Endometrial AblationRF, Snoring Treatment, Treatment for various kinds of tumors.

Rontis AG 71

Bahnhofstrasse 07 CH 6301 Zua **SWITZERLAND** www.rontis.com

Rontis AG, a Swiss-based international company consists of five (5) divisions: Medical Devices, Pharmaceuticals, Dermaceuticals, Infant Nutrition & Healthcare Services with offices in Switzerland, U.S.A., U.K., Belgium, Greece, Romania and F.Y.R.O.M. Rontis develops innovative technologies for CAD & PAD. Our three E.U.-based factories serve as an R&D platform for medical devices, as well as pharmaceuticals and provide OEM / private label services. Our products are CE marked by DEKRA, Germany. We have received FDA approval for our PTA balloon Cronus HP. Rontis is also a full-service OEM Contract Manufacturer. We produce (www.rontismedical.com): PTCA: AbraxTM, Sirolimus DES with a biodegradable polymer, PhoenixTM Pico, Paclitaxel CoCr DES, LeaderTM Plus, BMS, EuropaTM Ultra semi-compliant balloon with an ABP up to 28 bar, EuropaTM Ultra NC, balloon, Europa[™] Ultra CTO balloon (Rx & OTW, 1.00mm), Lotus[™] II & XP wires, also for CTOs (0.005").

PTA: ZeusTM CC (CoCr) stent system, ZeusTM SX (Nitinol) self - expanding stent, CronusTM Advanced / Cronus NV (non-vascular) balloons, CronusTM HP, 0.035" balloon (ABP: up to 39bar) - Now FDA approved.



Siemens Healthineers 46

Henkestrasse 127 91052 Erlangen GERMANY www.healthcare.siemens.com

Siemens Healthineers is one of the world's largest suppliers of technology to the healthcare industry and a leader in medical imaging, laboratory diagnostics and healthcare IT. All supported by a comprehensive portfolio of clinical consulting, training, and services available across the globe and tailored to customers' needs. In fiscal 2015, Siemens Healthineers had around 44.000 employees worldwide and posted revenue worth 12.9 billion euros, and profits of more than 2.1 billion euros. Further information is available on the Internet at http://www.healthcare.siemens.com/

Sirtex Medical Europe GmbH

Joseph-Schumpeter-Allee 33 53227 Bonn GERMANY www.sirtex.com

Sirtex Medical is actively engaged in the field of liver-directed therapies for cancer patients. The innovative technology of Sirtex, SIR-Spheres® Y-90 resin microspheres (microscopic Yttrium-90 resin beads), is a medical device used in interventional oncology to deliver Selective Internal Radiation Therapy (SIRT), also known as radioembolisation, to the liver. This treatment for inoperable liver cancer delivers high doses of radiation directly to the site of tumours whilst conserving normal liver parenchyma. SIR-Spheres® microspheres were approved in 2002 for use in the treatment of a variety of unresectable liver tumours a well as in hepatocellular carcinoma within the European Union under a CE Mark. They are presently used at 306+ institutions in Europe and to date more than 70.000 treatments have been delivered worldwide. New HCC data coming soon: The three largest ever RCTs (> 1.200 patients) investigating SIRT and standard-of-care systemic therapy in unresectable hepatocellular carcinoma (HCC) are enrolled. Two studies comparing SIR-Spheres® Y-90 resin microspheres with sorafenib will report by April 2017. A third study, involving combination treatment with both modalities compared with sorafenib alone, is expected to report in 2018.

Spectranetics International b.v.

Plesmanstraat 6 3833LA Leusden THE NETHERLANDS www.spectranetics.com

The Company's Vascular Intervention (VI) products include a range of laser catheters for ablation of blockages in arteries above and below the knee, the AngioSculpt scoring balloon used in both peripheral and coronary procedures, and the Stellarex drug-coated balloon peripheral angioplasty platform, which received European CE mark approval in December 2014. The Company also markets support catheters to facilitate crossing of peripheral and coronary arterial blockages, and retrograde access and guidewire retrieval devices used in the treatment of peripheral arterial blockages, including chronic total occlusions. The Company markets aspiration and cardiac laser catheters to treat blockages in the heart.

STARmed Co. Ltd. 13

#B-1403 Dabang Triplaon, 158, Haneulmaeul-ro, Ilsandong-gu 10355 Goyang -Si, Gyeonggi-Do KOREA, Republic of www.starmed4u.com

STARmed Co., Ltd. is a young and fast growing company from South Korea, specializing in Radiofrequency technology. Passionately working on the best possible RF treatment, STARmed has collaborated with a number of Key Opinion Leaders in developing the most innovative Electrodes and leading-edge RF Technology specific to certain tumour types and clinical applications, in thyroid, liver, lung, kidney, myoma, bone, etc. STARmed Co., Ltd. Operates as a specification developer, manufacturer and distributor of innovative medical devices to cure patients with minimally invasive interventional therapy.

Sterylab Srl 18

Via Magenta 77/6 20017 Rho (Mi) ITALY www.sterylab.it

Sterylab is a well-established European supplier of: Special procedure needles under guidance of CT-scanners and ecographs, biopsy needles & devices, kits for vertebral reconstruction, anaesthesia needles, Infusion sets, breast localisation systems, gynaecological products, decontamination mats for the o.r. Sterylab's customers can rely on more than 30 years of experience in providing innovative products and superlative customer service. All our products are manufactured in compliance with ISO 9001, ISO 13485 international standards and covered by CE mark.



Straub Medical AG 42

Straubstrasse 12 7323 Wangs **SWITZERLAND** www.straubmedical.com

Straub Medical AG is an internationally leading enterprise in the field of treating vascular disease. We aim to be the first brand to come to a physician's mind when a patient presents with vascular occlusion. We manufacture the Straub Endovascular System with its Rotarex[®]S and Aspirex[®]S catheter families. A range of endovascular tools, including the Capturex® peri-interventional filter catheter, adds to our portfolio. Our Swiss-made products are of highest quality and precision. Our innovative minimallyinvasive technologies contribute worldwide to improving the outcomes of endovascular intervention.

Stryker Corporation

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1901 Romence Road Pkwy MI 49002 Portage **UNITED STATES** www.stryker.com

Stryker is one of the world's leading medical technology companies and, together with our customers, we are driven to make healthcare better. The Company offers a diverse array of innovative products and services in Orthopaedics, Medical and Surgical, and Neurotechnology and Spine that help improve patient and hospital outcomes. Stryker is active in over 100 countries around the world. Please contact us for more information at www.stryker.com.

Surefire Medical, Inc.

6272 W 91st Avenue CO 80031 Westminster UNITED STATES www.surefiremedical.com

Surefire Medical, Inc. develops advanced liver cancer infusion systems to overcome the limitations of traditional tools and delivery methods for patient care. Learn more at surefiremedical.com.

Tecres SpA 51

via A. Doria 6 37066 Sommacampagna **ITALY** www.tecres.it

Tecres has got over thirty years of experience in orthopaedics and is also active in minimal invasive surgery. Mendec Spine HV System, the unique all in one closed mixing device specifically developed for the preparation of high density acrylic resin to be used for vertebroplasty. Mendec Spine is our acrylic resin specifically developed for the filling of vertebral cavities, that goes with a complete kit for the vertebroplasty procedures with Mendec Spine Kit. Mendec Aqua is the new hydraulic delivery system for High Viscosity spine resin.

Teleflex Medical Europe Ltd.

IDA Business and Technology Park Garrycastle, Dublin Road Co. Westmeath Athlone IRFI AND www.teleflex.com

Teleflex is a global provider of medical technologies designed to improve the health and quality of people's lives. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anaesthesia, cardiac care, urology, emergency medicine and respiratory care and includes many trusted medical technology brands, such as Arrow[®], Deknatel[®], Hudson RCI[®], LMA[®], Pilling[®], Rüsch[®] and Weck[®]. From proven antimicrobial catheter technology, to award-winning bone biopsy and bone access systems, our Arrow brand products provide clinically relevant yet economical solutions to enhance patient care in the areas of dialysis, oncology, peripheral interventions and critical care. With the recent acquisition of Vascular Solutions, Teleflex can now offer clinical solutions for minimally invasive coronary and peripheral vascular interventions, with a full line of products that give vascular specialists the tools they need to handle routine and complex cases, resulting in improved outcomes for patients.

Terumo Europe N.V.

Interleuvenlaan 40 3001 Leuven BELGIUM www.terumo-europe.com

Founded in Tokyo in 1921, Terumo is a multinational company with more than 90 years' experience in developing best in class medical devices. At Terumo Interventional Systems, we constantly work to refine and perfect our products so that interventionists can do more. Terumo offers intervention in all dimensions: from access to closure. Our access portfolio consist of Radifocus® Introducer II kits, Destination®, quiding sheath and Radifocus® Guidewire M developed to access the majority of cases. Peripheral diagnostic procedures can be performed with Radifocus® Glidecath®, a hydrophilic angiographic catheter. In critical limb ischemia, accessing the lesion can be performed with Radifocus® Glidewire Advantage® and catheter NaviCross®. Roadsaver®, a stent with a double layer micromesh design, is indicated to treat carotid arterial atherosclerosis. Regarding peripheral interventions, a full range of PTA Balloons is available in Over the Wire and Rapid Exchange: Metacross®, Crostella®, Senri®, Tercross® and Crosperio®. In interventional oncology, Terumo offers a comprehensive portfolio ranging from access devices Progreat[®] microcatheter, GT Wire®, Occlusafe® balloon occlusion catheter, embolics including Azur®, HydroPearl as well as loco-regional therapies including LifePearl® drug-eluting microspheres and QuiremSpheres®. At CIRSE 2017 QuiremSpheres® the next generation SIRT technology will be launched. For closure, we offer a comprehensive range of bio absorbable closure devices: Angioseal™ and Femoseal™.

Tokai Medical Products, Inc.

1485 Taraga 4860808 Kasugai, Aichi JAPAN www.tokaimedpro.co.jp/en

Tokai Medical Products, Japanese medical device manufacturer was founded by Mr. Nobumasa Tsutsui who succeeded in developing the first Japanese-made IAB-Intra Aortic Balloon catheter more than 35 years ago. Since then, we've been focusing on manufacturing/development of interventional devices including micro catheter, PTA balloon, PTCA balloon and occlusion balloon catheter, and enjoying a good reputation in several medical fields such as cardiology, radiology, neurosurgery, gastroenterology, pediatrics and emergency IVR. Japan's No. 1 micro catheter "Carnelian" is available in three sizes which are 2.7F-High Flow, 2.2F-Selective and 1.8F-Super Selective to suit a broad range of peripheral embolization procedures. "Carnelian Support" micro catheter is also available in five models with different characteristics, which provides physicians with an excellent back-up support for highly calcified or tortuous anatomy as well as transcollateral case. 7Fr REBOA balloon will be introduced to European market soon.

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Monday, September 18, Lunch Symposium

Infinix-i 4D CT: The Future of Today in Interventional Radiology

13:00-14:00 hrs, Room: Auditorium 15

Chairman: Prof. Y. Arai, National Cancer Center Hospital, Tokyo, Japan

"Interventional oncology beyond liver interventions"

Prof. E. de Kerviler, Saint-Louis Hospital, Paris, France

"Is 3D information enough for sophisticated IRs?"

Prof. Y. Arai, National Cancer Center Hospital, Tokyo, Japan

"Infinix-i 4D CT - new milestone in liver interventional oncology"

Prof. B. Guiu, University Hospital Montpellier, France

One Room. One System. One Procedure.

Toshiba Medical's ground-breaking new Infinix-I 4D CT supports you in bridging the gap between the interventional lab and CT with one seamlessly integrated solution. The system eliminates the need to transfer patients back and forth between different rooms, while minimizing dose and maintaining patient safety. Helping to save valuable time and gain efficiencies with the ability to plan, treat, and verify in the same room, on a single system.







Infinix-i 4DCT
SEE, DIAGNOSE, TREAT.

Toshiba Medical Systems Europe BV

Zilverstraat 1 2718RP Zoetermeer THE NETHERLANDS www.toshiba-medical.eu/eu

Based on a respect for life, the Toshiba Medical Systems Corporation group is always contributing to healthcare and social welfare by providing innovative and advanced products and solutions to its customers worldwide. Improving the quality of life: Offering technology that provides faster, more accurate diagnoses, improved treatment and enhanced patient care. Life-long commitment to innovation: Producing reliable systems that offer maximum uptime, increased utility and improved workflow for a life time. Achieving life time partnerships: A pervasive commitment to delivering customer-focused solutions for a life time over the world.

TVA Medical 25

7000 Bee Cave Rd Suite 250 TX 78746 Austin UNITED STATES www.tvamedical.com

TVA Medical, Inc., headquartered in Austin, Texas, is developing minimally invasive therapies for end-stage renal disease and other potential applications such as peripheral vascular disease. More information is available at www.TVAMedical.com.

UreSil, LLC 58

5418 W. Touhy Ave IL 60077 Skokie UNITED STATES www.uresil.com

Uresil LLC manufactures and distributes cutting edge medical devices that serve the needs of the Interventional Radiologist. These include the innovative OriginTM series of drainage catheters and a full line of drainage catheters including General Purpose, Nephrostomy, Biliary, Bariatric, Large Bore, Nephro-Ureteral and Miniaturized Catheters. Uresil LLC is also the proprietary manufacture of the Tru-Close suction drainage system and the Thora-Vent®. The Thora-Vent is designed to manage and resolve a simple pneumothorax without the need for a chest tube. All manufacturing is performed in a state-of-the-art 35.000 square foot facility in Skokie, Illinois. UreSil utilizes a network of over one hundred local sales representatives globally to promote and support its products and is constantly and actively innovating new solutions for healthcare world-wide.

Unit 15, City Business Centre Brighton RoaD RH13 5BB Horsham UNITED KINGDOM www.veryanmed.com

Veryan was formed in 2003 as the result of a technology spin out from Imperial College, London, UK. Veryan has designed, patented and developed a highly innovative three dimensional (3D) Nitinol (nickel-titanium alloy) stent technology – BioMimics 3D – based on the pioneering work by Professor Colin Caro (Emeritus Professor of Physiological Mechanics, Dept. of Bioengineering, Imperial College London) on the link between vessel geometry, blood flow mechanics and vascular disease.1 Veryan benefits from a highly experienced Board of Directors and the Company's management team has built an outstanding development group, supported by a world class Scientific Advisory Board. The Company's head office is in Horsham, West Sussex, UK, and the research and development facility is in Galway, Ireland. Veryan has developed BioMimics 3D, a self-expanding, nitinol SFA/prox popliteal stent which imparts a natural, 3D curvature to the artery, to generate swirling flow, increase wall shear and reduce intimal hyperplasia. In the Mimics randomised study BioMimics 3D, the swirling flow stent, achieved significantly better performance than straight control stents.

Vigeo Srl 41

Via C.Poma 19B 46034 Borgo Virgilio (MN) ITALY www.vigeosrl.it

Vigeo has for more than 10 years been a specialist in the development, manufacture and sale of minimally invasive single-use instruments. Our core competence lies in the implementation of new ideas and solutions, taking into account the specific needs of treating doctors. Our product portfolio offers a broad and innovative range of minimally invasive disposable instruments in the following areas: Breast care & diagnostics – wire and clip marking, Soft tissue and bone marrow biopsy, Prenatal diagnostics, Cysts drainage, Pulmonary interventions, Vertebroplasty, Ultrasound accessories.



W. L. Gore & Associates, Inc.

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AZ 86004 Flagstaff UNITED STATES www.goremedical.com/eu

At Gore Medical, we have provided creative therapeutic solutions to complex medical problems for 40 years. During that time, 40 million innovative Gore Medical Devices have been implanted, saving and improving the quality of lives worldwide. Our extensive family of products includes vascular grafts, endovascular and interventional devices, surgical meshes for hernia and soft tissue reconstruction, staple line reinforcement materials, and sutures for use in vascular, cardiac, and general surgery. We are one of a select few companies to appear on all of the U.S. "100 Best Companies to Work For" lists since the rankings debuted in 1984. For several years now, we have also been voted one of the best workplaces in Europe and have been ranked on top workplace lists in France, Germany, Great Britain, Italy and Sweden. For more information, visit goremedical.com/eu.

Wisepress Online Bookshop Ltd.

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15 Lyon Road, Merton SW19 2RL London UNITED KINGDOM www.wisepress.com

Wisepress.com, Europe's leading conference bookseller, attend around 200 conferences every year. We have an extensive range of books and journals relevant to the themes of this conference available at our booth. We also have a comprehensive range of STM titles available on our online bookshop. Follow us on Twitter @WisepressBooks.

Ziehm Imaging GmbH

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Donaustrasse 31 90451 Nürnberg GERMANY www.ziehm.com

Founded in 1972, Ziehm Imaging has stood for the development, manufacturing and worldwide marketing of mobile X-ray-based imaging solutions for more than 40 years. Employing approx. 500 people worldwide, the company is the recognized innovation leader in the mobile C-arm industry and a market leader in Germany and other European countries. The Nuremberg-based manufacturer has received several awards for its ground-breaking technologies and achievements, including the Frost & Sullivan Award (various years), the iF Design Award 2011 and 2016, the Top100 award for innovative midsize companies 2012, the Stevie Awards 2013, 2014 and 2015, the German Stevie Award and the IAIR Global Awards 2014 as "Best Company for Innovation & Leadership".

The Radiation Protection Pavilion: New radiation safety legislation in 2018 – are you ready?

CIRSE's Radiation Protection Subcommittee proudly presents the third Radiation Protection Pavilion – an interactive awareness campaign for radiation protection and dose management. The initiative's prime focus is to raise awareness for the specific health risks interventional radiologists are facing due to high levels of occupational exposure to radiation. The Radiation Protection Pavilion provides real value for CIRSE members by offering tangible services and practical advice.

Visit the Pavilion and...

... get expert advice: Learn about the health hazards linked to high levels of occupational exposure to radiation – consult our best-practice guides and information materials, or take a seat and listen to a brief talk hosted by our Subcommittee or industry partners (see mini-talk programme on your CIRSE app).

... explore state-of-the-art protective technologies: Discuss the latest products for protection and dose management with select industry partners, who will be on hand to address any questions you may have.

... test yourself: Don't forget to test your knowledge with our electronic quiz, which you can fill out via the CIRSE app.

Find out more about this initiative in the CIRSE app or on our website: www.cirse.org/rpp





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Technical Exhibition RPP (Numerical List)

Official Name	Booth# (RPP Area)
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Ecolab	2
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3D Systems Simbionix	4
MDT X-Ray B.V.	5
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3D Systems Simbionix

5381 South Alkire Circle CO 80127 Littleton UNITED STATES www.3dsystems.com

3D Systems' ANGIO Mentor endovascular training simulator was designed to meet the needs of various specialties such as interventional cardiology, electrophysiology, interventional radiology, vascular surgery and neuroradiology. Training on the system enhances skills and allows practice of all aspects of interventional techniques, including complication management. The system is offered in several configurations, including the ANGIO Mentor Suite designated for team training, and the ANGIO Mentor Flex ultra-portable system. The ever-expanding library of modules includes 24 endovascular procedures with over 140 cases, including Endovascular Basic Skills, Peripheral Interventions, Peripheral Embolization, Aortic Interventions, Transradial and Transfemoral Coronary Interventions, Structural Heart Diseases, Electrophysiology and Neurovascular Interventions. We offer a selection of fine detailed anatomical printed models in various materials and the option to print patient-specific printed models derived from your patient's scans. These are used by training programs, medical device companies, and physicians planning an upcoming procedure. The innovative PROcedure Rehearsal Studio™ software allows clinicians to create a personalized virtual or 3D printed anatomical model based on a patient's CT for the purpose of simulating, analyzing and evaluating surgical treatment options. Request a demo or more information at healthcare@3dsystems.com.

Bard Limited

Forest House, Tilgate Forest Business Park **Brighton Road** RH11 9BP Crawley West Sussex UNITED KINGDOM www.bardpv.com

Bard Peripheral Vascular, Inc. has a tradition of vascular innovation with a focus on improving the quality of patients' lives. It provides a range of interventional and surgical medical devices for the treatment of peripheral vascular, venous, dialysis access, biliary and tracheobroncheal disease. Featured Interventional products include the Lutonix® Paclitaxel Coated PTA Balloon Catheter (SFA, BTK & AV indications), the LifeStent® Vascular Stent Systems – available in lengths up to 250mm, Lifestream™ Balloon Expandable Vascular Covered Stentgraft, VascuTrak™ PTA Dilatation Catheter, Ultraverse® 014, 018 and 035 PTA Dilatation Catheters, Venovo Stent System and a range of unique tools for crossing chronic total occlusions with the Crosser® CTO Recanalization Catheter and Seeker® Crossing Support Catheter.



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Bracco 6

Avenue de Sévelin 46 1004 Lausanne SWITZERLAND www.braccoimaging.com

Bracco Imaging S.p.A., part of the Bracco Group, is one of the world's leading companies in the diagnostic imaging business. Headquartered in Milan, Italy, Bracco Imaging develops, manufactures and markets diagnostic imaging agents and solutions that meet medical needs. Bracco Imaging offers a product and solution portfolio for all key diagnostic imaging modalities: X-ray Imaging (including Computed Tomography-CT, Interventional Radiology, and Cardiac Catheterization), Magnetic Resonance Imaging (MRI), Contrast Enhanced Ultrasound (CEUS) and Nuclear Medicine through radioactive tracers. The diagnostic imaging portfolio is completed by several medical devices and advanced administration systems for contrast imaging products in the fields of radiology. The Company operates in over 100 markets worldwide, either directly or indirectly, through subsidiaries, joint ventures, licenses and distribution partnership agreements. To learn more about Bracco Imaging, visit www.braccoimaging.com

Ecolab 2

Hekkehorst 24 7207BN Zutphen THE NETHERLANDS www.ecolab.com

A long-standing leader in infection control, Ecolab specializes in the design, manufacture and marketing of an extensive range of innovative, premium quality infection and fluid control products today trusted around the world. Traditionally a category leader in equipment covers, patient drapes and fluid control draping, Ecolab offers diverse product lines for literally every medical specialty from interventional radiology, cardiology and angiography to orthopedics, neurology, OB/GYN, urology and other clinical environments. Over the past several decades, Ecolab has become the trusted name for product solutions now synonymous with risk reduction and protection in clinical environments around the world.

Drape Armour: With ongoing innovations for future needs, often being developed in association with manufacturers of medical equipment, Ecolab's dedicated expertise is truly the proper solution that can cover virtually every piece of equipment in your facility. One of these innovations is Drape Armour Radiation Protection Shields, designed to protect at the procedure site where scatter radiation is most prevalent. These shields can help to protect surgeons and offer substantial attenuation as demonstrated by direct beam studies. This means you can achieve substantial savings with Drape Armour depending upon your individual needs.

EuroSafe Imaging 7

Neutorgasse 9 1010 Vienna **AUSTRIA** www.eurosafeimaging.org, www.myESR.org

EuroSafe Imaging is the European Society of Radiology's flagship campaign to promote quality and safety in medical imaging. The mission of EuroSafe Imaging is to support and strengthen medical radiation protection across Europe following a holistic, inclusive approach. EuroSafe Imaging has issued the 'EuroSafe Imaging Call for Action', a 12-point action plan to achieve EuroSafe Imaging's objectives of promoting appropriateness in radiological imaging, maintaining radiation doses within diagnostic reference levels, using the ALARA principle, promoting the use of up-to-date equipment, empowering patients, and joining forces with various stakeholders. Visit the EuroSafe Imaging booth (No. RPP 7) to learn about our quality and safety initiatives and support us by becoming a EuroSafe Imaging Star.

Mavig GmbH 10

Stahlgruberring 5 81829 München **GFRMANY** www.mavig.com

MAVIG is a family owned company which was founded in 1921. MAVIG designs, manufactures and markets personal protection devices and X-Ray accessories as well as ceiling- and table-mounted equipment. The patented MAVIG ceiling tracks and suspension systems, like its modern LCD-monitor suspension systems comply with the latest requirements of the industry. All MAVIG products are certified according to the EU Medicinal Product Directives and the EU Directive for Personal Safety Gear, bearing the corresponding CE Symbol. Quality management was installed already 1995 in the company according to EN ISO 9001 and EN 46001. MAVIG products are life-cycle tested and released only after the derivation of extern certifications. MAVIG is market leader in its business fields. Our product quality and service is acknowledged worldwide. MAVIG has a wide range of products for your personal safety, such as: Aprons, vest & skirt, thyroid shields for both medical and dental field in adult and children sizes, Goggles and Gloves, Ovarianand testicle protection, Monitorholders, Surgery- and examination lamps, Portegra2 arms, Lower body protection, mobile shields, protective curtains and observation windows.



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MDT X-Ray B.V.

Bukkumweg 26 5081CT Hilvarenbeek THE NETHERLANDS www.mdtxray.com

MDT's protection: MDT has been one of Europe's most innovative and experienced developers and manufacturers of Xray protection materials for more than 32 years. They include Xray aprons, Lead glasses, Thyroid shields and many other X-Ray products. We create products that promote a healthier, more pleasant and safe way of working and show our drive to improve with high quality and innovative products, tried-and-tested quality, by combining as much protection as possible with high functionality. Our European state-of-the-art manufacturing plants are well equipped for the future. Not only is the level of finishing unequalled but also the cost of ownership. It will serve you for many years. Time from order to delivery is the shortest in the industry. Low cost of ownership, superb quality way of life. MDT X-Ray BV, The Netherlands, +31-13-5287149, xray@mdt.nl

Mentice 1

Odinsgatan 10 41103 Gothenburg SWEDEN www.mentice.com

Mentice is world leader in endovascular training solutions covering neurovascular, cardiovascular and peripheral vascular disciplines. Mentice's expertise is represented in clinically relevant medical endovascular scenarios through high fidelity simulation. This realistic training permits transfer of skills and knowledge in a reproducible, safe and measurable way, benefiting clinical teams and patients.

Raysafe Fluke Biomedical B.V.

Science Park, 5110, Son 5692FC Findhoven THE NETHERLANDS www.fluke.com

RaySafe helps interventional staff avoid unnecessary radiation, by visualizing radiation exposure in real time, and thereby empowering them to better use their tools and knowledge. The innovative system RaySafe i2, introduced in 2012, enabled medical staff for the first time to monitor their X-ray dose exposure in real-time. The cloud-based software solution RaySafe S1 to track and to monitor patient dose complements the product portfolio of Unfors RaySafe since 2013. Since February 2014 Unfors RaySafe is part of Fluke Biomedical. RaySafe i2 dosimeter system is indispensable in creating a successful radiation safety culture. Once in place, both healthcare workers and management benefit from the radiation insight gained. Moreover, focus is returned to treating patients, versus worrying about unnecessary radiation exposure. RaySafe i2 dose manager can be used for advanced analysis, reporting and archiving of dose information. It manages multiple dosimeters and can retrieve dose information from multiple real-time displays throughout the hospital network or via USB storage. Very recently RaySafe launched the third generation of its radiation dose monitoring and safety platform, called RaySafe i3. The RaySafe i3 is designed to improve wearability, prolong life cycle and increase measurement accuracy. The device can be used in low-dose procedures and in hybrid operating room (OR) environments. The i2 dosimeters have a longer life cycle, from three to five years with the i3 second generation to 10 years now. In addition, the dosimeters increase the energy range and angulation response which leads to more accurate dose measurements.

Siemens Healthineers

Henkestrasse 127 91052 Erlangen **GERMANY** www.healthcare.siemens.com

Siemens Healthineers is one of the world's largest suppliers of technology to the healthcare industry and a leader in medical imaging, laboratory diagnostics and healthcare IT. All supported by a comprehensive portfolio of clinical consulting, training, and services available across the globe and tailored to customers' needs. In fiscal 2015, Siemens Healthineers had around 44.000 employees worldwide and posted revenue worth 12.9 billion euros, and profits of more than 2.1 billion euros. Further information is available on the Internet at http://www.healthcare.siemens.com/

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Worldwide Innovations & Tech., Inc. - Radpad

14740 W. 101st Terrace KS 66215 Lenexa UNITED STATES www.radpad.com

Worldwide Innovations & Technologies, Inc. (WIT) manufactures and sells radiation protection products designed to protect medical personnel from exposure to scatter radiation. The company is headquartered in Lenexa, Kansas. WIT was incorporated in 1992 with the goal of developing a newly patented concept of radiation protection into a viable, sale-able product known as RADPAD Protection, and introducing it to the marketplace. During the initial seven years of the company's existence an innovative material with excellent radiation protection attributes was created and a method of manufacturing determined. Sales and marketing efforts for RADPAD Protective Shielding began in earnest in 1999 with an initial focus on the interventional radiology and interventional cardiology specialties. Over the years, many procedure specific products have been developed, patented and introduced to the various medical specialties in which radiation exposure to personnel is a health hazard. RADPAD Products are lead-free, sterile, x-ray protective surgical drapes and shields designed for use in fluoroscopic x-ray procedures. This disposable form of radiation protection was a totally new concept in the medical field when it was introduced. This meant that the initial challenge of selling these products was to educate medical personnel to the need for this type protection and to convince the medical community that it actually works. Toward this end, over 25 independent clinical studies, scientifically proving that RADPAD products reduce radiation exposure to medical personnel by up to 95%, have been completed and published.

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Societies (Alphabetical List)

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BSIR	S9
CIRSE 2018	S16
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Societies (Numerical List)

Official Name	Booth#
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RSIOR	S3
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Societies 299

BSIR – British Society of Interventional Radiology

S9

63 Lincoln's Inn Fields WC2A 3JW London UNITED KINGDOM www.bsir.org

The BSIR is a charitable foundation founded to promote and develop the practice of Interventional Radiology. What are the main objectives of the society?

- To support and develop access to high quality information on Interventional Radiology for patients and all healthcare professionals
- To support audit and research in Interventional Radiology
- To support education and training in Interventional Radiology

CIRSE 2018 S16

As the biggest interventional radiology meeting of the year, the CIRSE Annual Congress is an essential event for every IR. Within this vibrant setting of discussion and debate, delegates are able to discover new research and technological advances across a wide range of fields, from oncological interventions to clinical management and more! Join us at CIRSE 2018 from September 22-26 in Lisbon, Portugal, for another year of science, education and innovation. Visit our booth or learn more on our website at www.cirse.org.

CVIR - CardioVascular and Interventional Radiology

S17

CVIR is the official journal of the Cardiovascular and Interventional Radiological Society of Europe (CIRSE). Over the years, it has established itself as a key source of cutting-edge information and leading journal in the field of interventional radiology in Europe as well as in other corners of the world.

It publishes peer-reviewed original research work including laboratory and clinical investigations, technical notes, case reports, brief communications, and letters to the editor, as well as review articles, opinions, editorials, and special invited submissions in the field of cardiac, vascular, and interventional radiology.

Pick up your CVIR issue at the CVIR booth, and make a selfie with the new Editor-in-Chief and win great prizes!

CVIR Endovascular S18

CIRSE proudly presents the new member of its journal family – CVIR Endovascular. CVIR Endovascular is a multidisciplinary, open access journal and the first open peer-review journal in the field of endovascular interventions. The journal is intended for all specialists working in the field of endovascular treatment. It will officially launch on the occasion of CIRSE 2017 and open for submissions. Visit www.cvirendovascular.org for more info.

DeGIR – German Society of Interventional Radiology

S11

DeGIR is the German society for interventional radiology and minimally invasive therapy (www.degir.de). Founded in 2008, it is a society of now more than 1,300 members and is strongly related to the German Roentgen Society (DRG). DeGIR has a permanent office located in Berlin. The society runs an elaborate national registry of interventional procedures, collecting data from 190.000 interventions documented by 305 Institutes in 2016. DeGIR established a qualification initiative in interventional procedures similar to EBIR which is divided into 6 different modules including vascular recanalization techniques, embolization, nonvascular interventions and neurointerventions. Qualification requires both a written and oral exam and a sufficient practical experience. To date, more than 1,000 certificates of personal qualification in interventional radiology have been issued. A network of training facilities is also offered to its members. For further information, please contact the society directly at degir@drg.de.

DFIR - Danish Society of Interventional Radiology (Dansk Forening for Interventional Radiologi)

S5

Tjornevaenget 7 3520 Farum **DFNMARK** www.dfir.dk

DFIR is the IR society of Denmark with between 70-80 members. The primary activity of the society is to hold annual meeting of the DFIR, the venue of which is shifted after every few years. DFIR will be celebrating its 20th jubilee next year in 2018. DFIR formulates the Danish IR curriculum on the basis of the CIRSE curriculum, coordinates with other IR societies of Scandinavia and CIRSE and holds IR courses and meetings and exchange ideas among the experts in related fields. DFIR also disseminates information about IR among patients. We also support research activities in various centers in Denmark, encourage young doctors to pursue IR as a career, invite young researchers to participate in DFIR annual meetings and provide educational grants to doctors motivated for IR. Besides, we collect various IR related data for statistical purpose from all the institutes performing interventional procedures in Denmark.

ECIO 2018 – European Conference on Interventional Oncology

S15

Featuring a comprehensive scientific programme, world-renowned faculty and a firstrate technical exhibition, ECIO explores the latest developments and best practices in minimally invasive, image-guided cancer treatment. As interventional oncologists continue to play an increasingly important role alongside oncologists and surgeons in cancer treatment, this annual event emphasises multidisciplinary tumour boards and discussions as well as encourages registrants to bring along a non-radiologist colleague at no extra cost. ECIO 2018 will be held from April 22-25 in Vienna, Austria. To find out more, visit our booth or www.ecio.org.



Societies 301

ESIR 2017 - European School of Interventional Radiology

S13

Each year the ESIR Clinical Procedure Trainings provide premier education to IR professionals, helping participants stay on the cutting edge of medicine. Since 2006, ESIR has offered 84 first-rate, practice-oriented courses in over 20 countries on a wide range of IR topics. Skilled specialists guide participants in perfecting their performance through featured state-of-the-art devices and technology, as well as live or video cases where appropriate.

The following ESIR courses will be held in 2017:

- Prostate Embolisation
 Milan (IT), October 11-12, 2017
- DVT/PE Thrombolysis and Thrombectomy Dublin (IE). October 27-28, 2017
- Reliability in Percutaneous Tumour Ablation Innsbruck (AT), December 14-15, 2017

To find out more, visit www.cirse.org/esir2017.

ESR - European Society of Radiology

S20

S14

Neutorgasse 9/2a 1010 Vienna AUSTRIA myESR.org

The European Society of Radiology is an apolitical, non-profit organisation, dedicated to promoting and coordinating the scientific, philanthropic, intellectual and professional activities of Radiology in all European countries. The Society's mission at all times is to serve the health care needs of the general public through the support of science, teaching and research and the quality of service in the field of Radiology.

ICCIR 2018 – International Congress on Complications in Interventional Radiology

The ICCIR is a unique event offering doctors with diverse experience levels a discreet forum to explore the difficult but necessary subject of procedural complications. To encourage frank discussion, the faculty is particularly carefully selected and overall participation is limited. Hand-picked case reports constitute another essential element. ICCIR has quickly established itself as the main complications meeting in Europe, and attracts a very diverse but dedicated group. The last congress brought together around 300 participants from 37 countries, who together discussed 60 cases. The next congress, ICCIR 2018, takes place in Poertschach, Austria from June 7-9. For more information, visit www.iccir.eu.

ICIR - Italian College of Interventional Radiology

S1

Via della Signora, 2 20122 Milano **ITALY** www.sirm.org/sezione/radiologia-interventistica

ICIR is the group of work of the Italian Society of Medical and Interventional Radiology (SIRM) and it reunites professionals dedicated to interventional radiology from the entire Nation. The College comprises radiologists with different expertise, such as those with experience in oncologic, vascular and extravascular procedures. Thus, it has a pivotal role in connecting interventional radiologists with different background, in order to improve knowledge and communications between professionals. In an era of rationalization of economic budgets dedicated to health management, interventional radiology offers mini-invasive solutions to a number of different clinical and surgical problems, increasing the need for medical doctors able to deal with this scenario. Therefore, ICIR plays a leading role in coordinating training of a new generation of interventional radiologists, as well as in developing homogeneous guidelines to approach daily activities and in creating connections with other societies, in order to give to this medical field a recognizable and well-defined role in the clinical management of patients.

IESIR - Italian-European Society of Interventional Radiology

S12

Neutorgasse 9 1010 Vienna **AUSTRIA** www.iesir.org

The Italian-European Society of Interventional Radiology (IESIR) was founded in 2015 as an independent society. Its objective is to develop and promote the clinical work of interventional radiologists in Italy and in Europe as well as supporting scientific activities, representing the interests of Italian IRs, actively contributing to the creation of guidelines and reports, and strengthening connections to the European IR community

IROS 2018 S11

Neutorgasse 9 1010 Vienna **AUSTRIA** www.irosonline.org

IROS 2018 – the annual meeting of the Austrian, German and Swiss Societies of Interventional Radiology – will take place in Salzburg, Austria, from January 11-13. In addition to lectures and workshops, delegates will have the possibility to participate in recorded procedure demonstrations, Satellite Symposia and intensive courses tailored to the daily needs of interventional radiologists.

For further information, please visit our booth or our website at www.irosonline.org.

Societies 303

ISVIR - Indian Society of Vascular and Interventional Radiology

S2

301, Mandovi Bldg, Western Sector, Anushakti Nagar, BARC Qtrs, Trombay 400 094 Mumbai INDIA www.isvirindia.org

The Indian Society of Vascular & Interventional Radiology (ISVIR) has been floated to provide a platform for exchange of information regarding catheter-based radiological procedures. ISVIR was formed in Trivandrum on November 9, 1997. The objectives of the society include a planned growth of CVIR in India, providing a forum for exchange of views and information, formulating guidelines for performing and documenting interventional radiological procedures, streamlining the availability of devices in different regions, creating opportunities for certified training programs in CVIR, evolving guidelines for medico-legal aspects of the practice, creating public awareness with respect to interventional radiology, and helping the fledgling subspecialty with turf battles.

ÖGIR - Austrian Society of Interventional Radiology

S11

Neutorgasse 9 1010 Vienna AUSTRIA www.oegir.at

ÖGIR is the Austrian Society of Interventional Radiology and Minimally Invasive Therapy (www.oegir.at). Founded in 2007, the society now has over 200 members. ÖGIR has a permanent office located in Vienna and organises the IROS annual meeting together with the German Society of Interventional Radiology (DeGIR) and the Swiss Society of Interventional Radiology (SSVIR).

In 2012, ÖGIR, in cooperation with DeGIR, introduced a qualification initiative in interventional procedures similar to EBIR, which is divided into 6 different modules including vascular recanalisation techniques, embolisation, non-vascular interventions and neurointerventions.

For more information, please visit www.oegir.at or email oegir@oegir.at.

RSIOR - Russian Society of Intervention Oncoradiology

S3

Kashirskoye sh., 24 115478 Moscow RUSSIAN FEDERATION www.interventor.ru

Russian Society of Intervention Oncoradiology (RSIOR) was created in 2006. RSIOR brings together more than 600 professionals from 65 regions of Russia and neighboring countries. Members of society moderate most of the IR sections at oncological conferences and congresses in Russia. RSIOR holds an annual conference on application of IR interventions in different areas of Oncology, Next 11th conference will be held in February 2018 in Moscow.

SERVEI – Spanish Society of Vascular and Interventional Radiology

S6

C/ Alcalá, 135 1º 28009 Madrid **SPAIN** www.servei.org

The Spanish Society of Vascular and Interventional Radiology (SERVEI) is a nonprofit medical and scientific association, founded in 1987, with the aim of promoting training, development, research, knowledge sharing and the diffusion of Vascular and Interventional Radiology (RVI). SERVEI celebrates a National Congress with biannual periodicity and multiple courses and training and research days. At the moment SERVEI has 361 active members.

SIDI – Sociedad Iberoamericana de Intervencionismo

S7

Avda. Gómez Laguna, 25, 9 50009 Zaragoza **SPAIN** www.intervencionismosidi.org

SIDI is a medical-scientific non-profit organization with a significant track record aiming to foster Interventional Radiology activities. Nowadays it is comprised by more than 130 members, mainly or exclusively focused on image-guided minimally invasive procedures. Our society was created in 1994 and at the present time has members from 15 Spanishspeaking countries in Latin America, Spain and Portugal. Additionally, the scope of action is extended to other countries in Europe and the USA. The most significant projects that SIDI performs according to its goals are as follow:

- Production and publication of the quarterly medical-scientific Journal Intervencionismo
- Call for student grants to participate in medical practice programs in top tier hospitals
- Organization of scientific meetings, seminars and other activities



Societies 305

SIO - Society of Interventional Oncology

S10

2025 M Street NW Suite 800 DC 20036 Washington UNITED STATES www.io-central.org/

As an established society, SIO serves as the only membership-based organization dedicated wholly to the emerging field of IO, working to further promote the mission originally put forth by WCIO to establish, nurture and support Interventional Oncology (IO) as the 4th pillar of cancer therapy alongside medical, surgical, and radiation oncology worldwide. Through IO Central and WCIO Annual Conference, professionals can engage 24/7, 365 days a year. WCIO is the leading interventional oncology conference, bringing together medical experts from around the world for a multidisciplinary approach. Featuring state-of-the-art lectures on innovative IO topics, tumor boards highlighting realworld techniques, cutting-edge best practices, and bench-to-bedside program content, WCIO raises the bar on IO and complex biology. Session topics span private practice, hospital, and institutional settings. Medical students, residents and fellows, advanced practice providers, IO experts, and less experienced operators alike can participate in a truly dynamic learning and networking experience. New this year, is an interactive session with the opportunity to challenge conference faculty. Additionally, through IO University, WCIO features the most comprehensive on-demand education for IO professionals. With access to an in-depth IO curriculum, best practices, and industry advances, IO University will build your skills while offering the opportunity to earn CME credits online. Please visit www.sio-central.org for the latest interventional oncology news and conference updates.

SIR - Society of Interventional Radiology

S19

3975 Fair Ridge Drive, Suite 400 North VA 22033 Fairfax **UNITED STATES** www.SIRweb.org

The Society of Interventional Radiology (SIR) is a nonprofit, professional medical society representing more than 7,000 practicing interventional radiology physicians, trainees, medical students, scientists and clinical associates, including physician assistants, nurse practitioners, radiologic technologists and paramedical professionals. SIR's members work in a variety of settings and at different professional levels-from medical students and residents to university faculty and private practice physicians. The society's core purpose and mission is to work with its members to deliver patient-centered care through imagequided therapy.

SIR Foundation is dedicated to advancing the clinical needs of interventional radiology by specializing in developing investigators trained in conducting basic and clinical trials research, which provides the foundation for the innovative treatments delivered through image-guided techniques. SIR Foundation has initiated a new program structure that proactively fosters research priorities in the areas of clinical research, research policy and research.

SSVIR - Seldinger Society for Vascular and Interventional Radiology

S4

Att: Michael Åkesson, Erik Dahlbergsgatan 11 S- 211 48 Malmö **SWEDEN** seldinger.society@gmail.com inger.keussen@med.lu.se www.seldinger.se

SSVIR is an organization for radiologists interested in vascular and interventional radiology in Sweden. The society was named after the Swedish radiologist Sven-Ivar Seldinger, whose access technique is frequently used all over the world. The Society was founded 1993, in aim to support research and development of IR in Sweden, as well as education and practical training of future interventional radiologists. At the two days annual meeting with a scientific program, there are also discussions about ongoing issues and future activities. At the meeting an honorary member of SSVIR is also presented and is holding a lecture. The society has special sessions during the national radiological meetings and during the year several organized courses. Since several years the society makes efforts to obtain recognition of IR as an independent medical specialty in Sweden. SSVIR is a member of the Swedish Society of Medical Radiology and a group member of the Cardiovascular and Interventional Radiological Society of Europe, CIRSE.



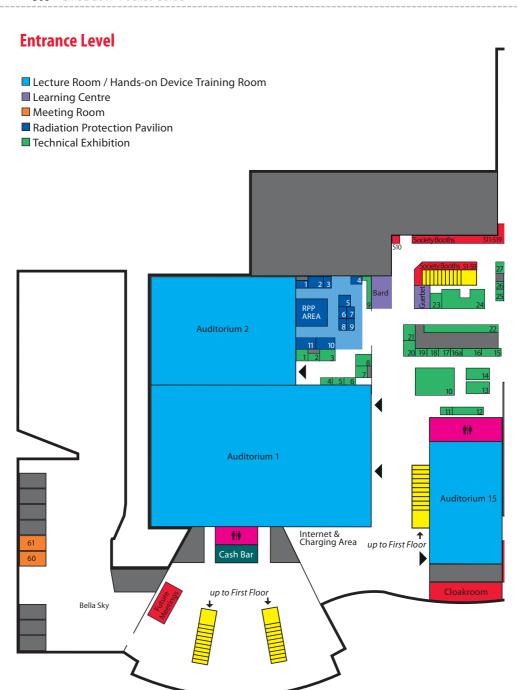
Societies 307

TSIR – Turkish Society of Interventional Radiology

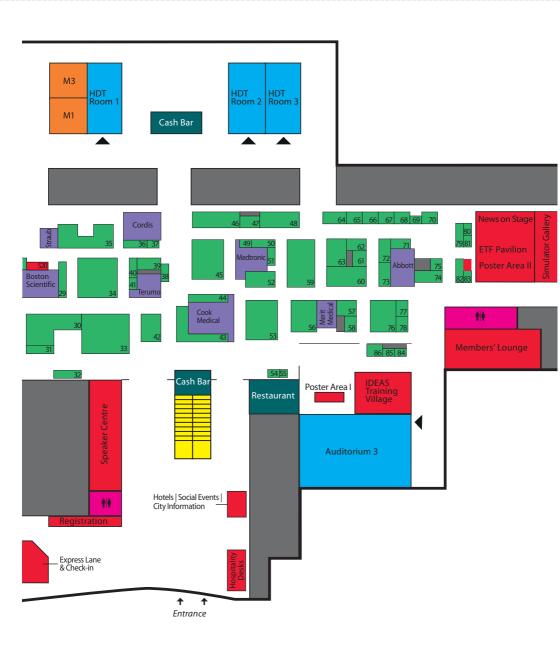
S8

Hoşdere Caddesi Çankaya Evleri F Blok Daire:2 Çankaya Ankara TURKEY tgrd@tgrd.org.tr www.tgrd.org.tr

Turkish Society of Interventional Radiology (TSIR) was established in 2000. Its office was located first in Istanbul and is now located in the capital city, Ankara. As of July 2017, the society has 568 members. Interventional radiology has not yet become a governmentally recognized subspecialty of radiology in Turkey. For interventional radiology, the routine residency program has a three- to ten-month rotation, and after completion most radiologists are capable of performing basic interventions. Therefore, education on interventional radiology has become the most important mission of the society. The society arranges courses and annual national meetings in the field of Interventional Radiology. The mission of the Turkish Society of Interventional Radiology is to contribute education and trainings of radiologists who are occupied with all kind of interventional process and to pursue research and development on this field. Our 13th Annual Scientific Meeting will be held in Antalya Susesi Convention Center, on March 23-25, 2018. A lot of attendees including interventional radiology doctors, technicians, nurses and industry members are expected to participate to this meeting.

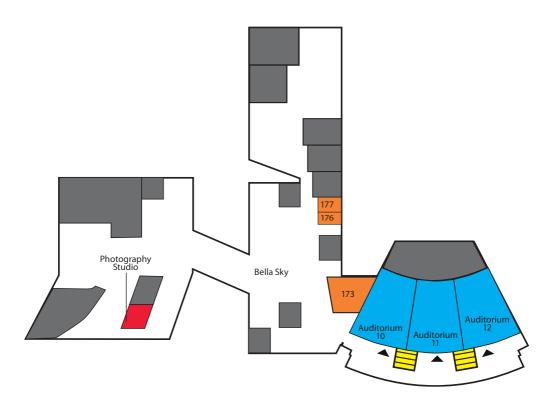


Floor Plans 309

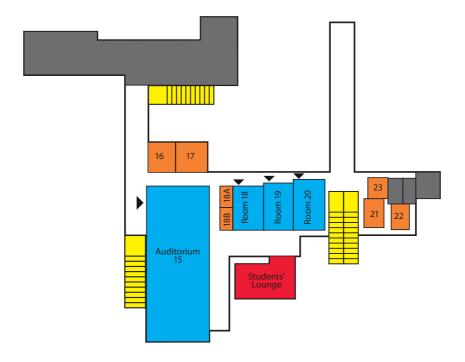


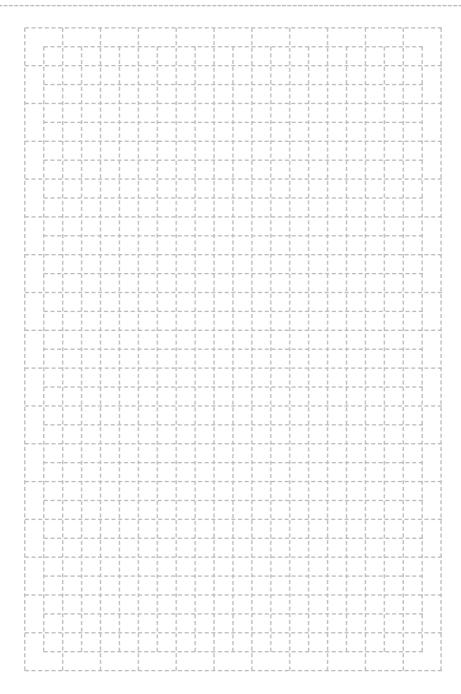
First Floor

- Lecture Room
- Meeting Room

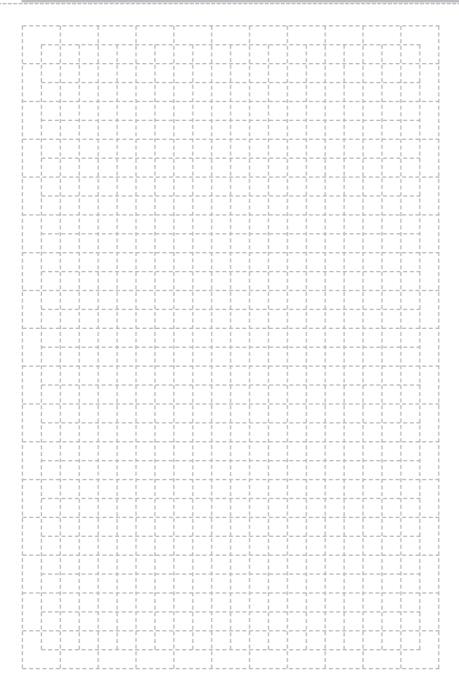


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The CIRSE 2017 Pocket Guide

In case of any enquiries or comments, please contact us at **info@cirse.org**

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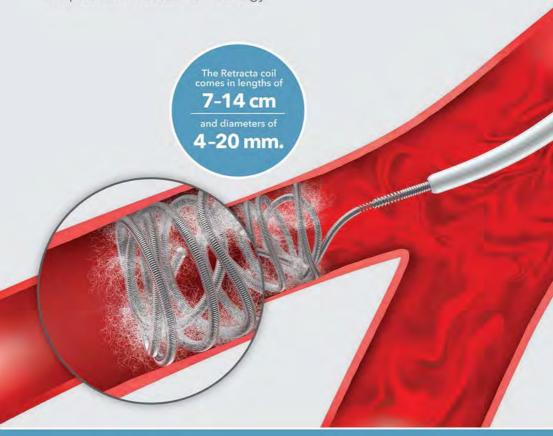
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