# September 10-14 Munich, Germany CIRSE 2011

INNOVATION EDUCATION INTERVENTION

MAIN PROGRAMME

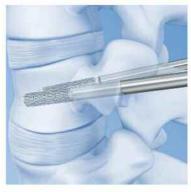
ABSTRACT BOOK





# Stentoplasty: The new standard for reconstructive treatment of vertebral body fractures. VBS – Vertebral Body Stenting System.





### Percutaneous

The VBS stents are introduced percutaneously into the vertebral body with only a stab incision required to place the access instruments.



### Reconstructive

The VBS system restores the loss of height in the fractured vertebral body.



### **Height conserving**

Expanding the VBS stents inside the collapsed vertebra offers height restoration and conservation. The mechanical construct restores the height while at the same time offering a cavity for injection of highly viscous PMMA bone cement for vertebroplasty or kyphoplasty.

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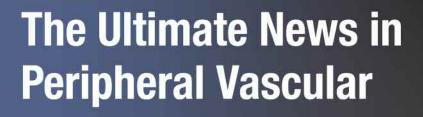
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MONDAY, SEPTEMBER 12, 2011

14.15 - 15.15 / Room 14a

ev3 Symposium

Chairman

Prof. Thomas Zeller (Germany)

Science of **Combination Therapy Research** in Femoropopliteal **Treatment** 

> 13.45 - 14.15Welcome Coffee

> > 14.15 - 14.30

Vision for Combination Therapy & DEFINITIVE AR Prof. Thomas Zeller (Germany)

14.30 - 14.45

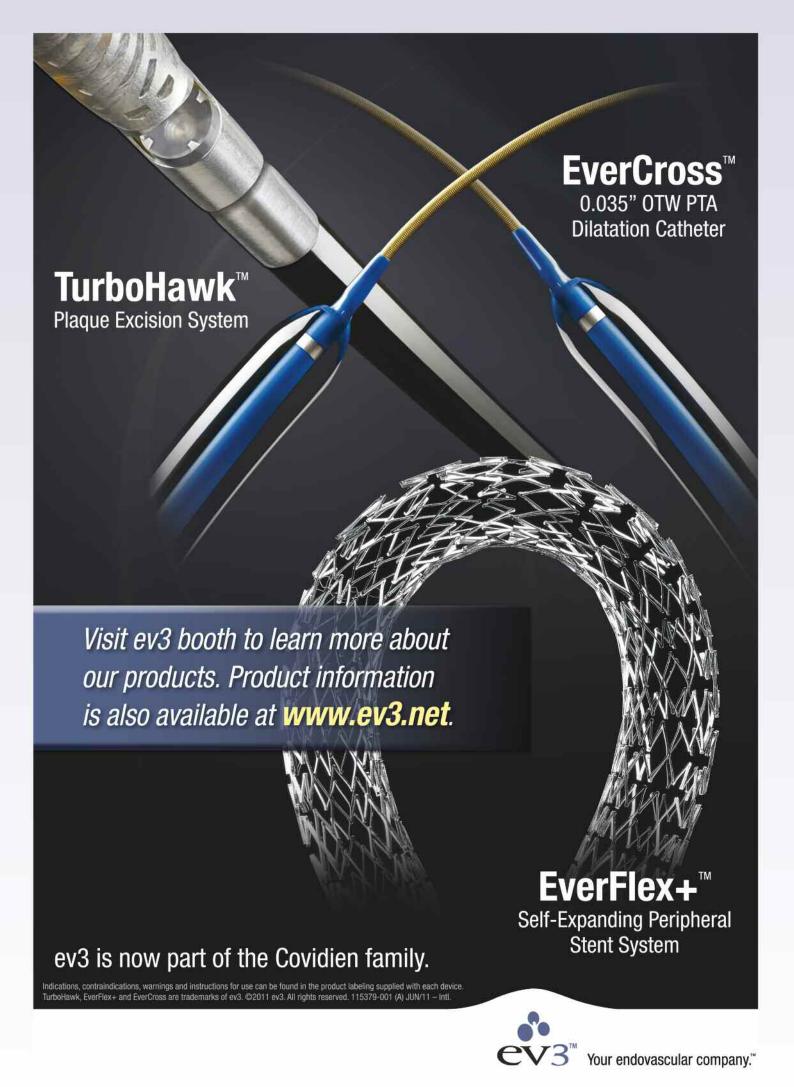
Science of Drug Therapies in Treatment of PAD Dr Renu Virmani (USA)

14.45 - 15.00

**Technology Innovation** Dr Patrick Peeters (Belgium)

15.00 – 15.10 DEFINITIVE LE: Interim Analysis 6 months data Prof. Thomas Zeller (Germany)

Closing Remarks





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Innovating for life.







# Welcome from the CIRSE President and the Chairman of the Scientific Programme Committee

Joint ventures build community spirit - and even more so if they are fruitful. The success of CIRSE can be traced back to the joint efforts of many different stake-holders - faculty members, congress delegates and our corporate partners - and likewise, this success helps reinforce the bonds that brought us together in the first place: a shared commitment to advancing the field of minimally invasive, image-guided therapies.

5,600 delegates from all over the world attended CIRSE 2010, demonstrating an increase of 17% in the last two years alone. The congress also experienced record-breaking participant attendance in the numerous sessions and the largest exhibition area to date, making CIRSE the world's largest and most comprehensive interventional radiology congress.

The CIRSE Annual Meeting reflects **INNOVATION** and we are working diligently to ensure that this will remain an integral part of the congress. As a society and a discipline, we are constantly looking to new areas of growth. CIRSE 2010 saw the introduction of new topics, including neurointerventions and a special programme for radiographers in co-operation with the European Federation of Radiographer Societies (EFRS). Neurointerventions represent an area where IR can make a tangible difference to patients and colleagues, and it is heartening indeed to have garnered sufficient interest and clinical expertise to warrant introducing it as the 7th track at CIRSE, and to see it being so well-received by congress attendees.

In the same spirit of innovation, CIRSE 2011 will see the introduction of a Hot Topics session, incorporating interdisciplinary expert debates in the 2 chosen topics, "Is CCSVI a real entity? Should we treat MS patients with CCSVI by venoplasty?" and "Image-guided ablation replaces surgery in resectable liver tumours".

CIRSE 2011 will again focus on **EDUCATION**. Last year, 250 hours of medical content as well as corporate sponsored symposia and learning centres ensured an extensive and wideranging programme for all delegates. Hands-on Workshops, Foundation Courses and our new courses for radiographers and nurses help educate young IRs and supporting staff in effective IR skills. Our ever-popular "CIRSE meets" sessions will this year feature collaboration with the societies of a new member, Australia and New Zealand, and our gracious host country, Germany.

In collaborating with member societies, we hope to build stronger ties within the IR community, and allow for the free passage of knowledge and expertise that may benefit our own societies, both local and international. We look forward to what pearls of wisdom our German and Australian colleagues have to share!

The third pillar of the CIRSE congress is **INTERVENTION**: in providing ongoing education and an open platform for the exchange of scientific data, we improve access and outcomes for many patients, whose lives will be positively influenced by our work. For all the academic learning behind our discipline, it is important to remember that the key aim is to make a significant difference to the well-being of our patients. To this end, the CIRSE congress offers a host of clinical sessions and discussions, which compliment the skills and knowledge imparted by our technical sessions.

CIRSE 2011 will take place in Munich, Germany - a traditional yet modern metropolis in the heart of Europe with excellent international flight connections. Few other destinations offer such a vast spectrum of culture, art, technology, and architectural marvels, and match this with a rigorous pedigree of scientific excellence. The International Congress Centre Munich (ICM) is one of the most modern and professional congress centres in the world, offering cutting-edge technology and infrastructure and is easily reachable by a direct metro line from the city centre.

With a superb destination, a robust and varied scientific programme and an engaged and eager community of IRs, the stage is set for great things. We look forward to seeing the results at CIRSE 2011, and hope you will join us!

Bis bald in München!

Jan H. Peregrin CIRSE President

Elias Brountzos Chairman of the Scientific Programme Committee





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BIOPSY

DRAINAGE

EMBOLIC THERAPIES

ENDOVASCULAR AORTIC REPAIR

GI INTERVENTIONS

LEAD MANAGEMENT

LEG THERAPIES

LIVER ACCESS

PULMONARY EMBOLISM PREVENTION

RENAL THERAPIES

STRUCTURAL HEART ACCESS

VENOUS ACCESS

VERTEBROPLASTY







### Welcome from the Co-Chairmen of the Local Host Committee

It is a great honour and special pleasure for us, that we were appointed as chairs of the Local Host Committee for the upcoming CIRSE 2011 in Munich. Together with the extremely dedicated scientific committee of CIRSE and the fantastic CIRSE organisation in Vienna, we will provide you with another great CIRSE event which will hopefully build upon the huge success of the previous meetings.

CIRSE 1988 was the last time Germany had the opportunity to host this prestigious meeting, and we are looking forward to welcoming delegates of CIRSE 2011 to Munich, the "cosmopolitan city with a heart", which offers much more than the infamous Oktoberfest. Munich is perfectly situated at the heart of Europe - easily accessible for all by car, train and plane via the International Airport "Franz-Josef-Strauss". Although a large city, getting around is quick and easy, thanks to an extensive transport network of buses, trams, city-trains, and subways, as well as several thousand taxis.

Our congress venue is the International Congress Centre München (ICM), a part of the Internationale Messe München, an architecturally fascinating renovation of the "old airport" of Munich. The ICM is one of the most modern and frequently used congress centres worldwide and offers us a space of 350,000 m², made up of numerous lecture halls and rooms of every size that can cater for more than 12,000 people. We are sure that the ICM will be a perfect environment for vibrant exchange between physicians, researchers and scientists, students, technicians and industrial representatives.

Munich itself preserves its distinct Bavarian history, and combines it effortlessly with its modern and fashionable present, demonstrated by the presence of some of the world's best known and finest art galleries (the old, new, and modern Pinakothek, Brandhorst Museum) and museums that display both past and present, in fields as diverse as history, art and science (such as the German Technical Museum, Bavaria Film studios and BMW World). Furthermore, authentic and romantic places, side streets with Mediterranean-style street cafes, homely and high-end restaurants, tiny ancient shops and luxury shopping miles, beg you to stroll about and experience them.

Over recent years, CIRSE has developed into one of the most innovative, comprehensive, and fastest growing medical societies, both within Europe and beyond, emphasising the clinical and scientific importance of interventional radiology. Therefore, on behalf of the German Interventional Radiological Society (DeGIR), which is part of the Local Host Committee, and the German Radiological Society (DRG), we are very proud to host the next CIRSE meeting in Germany, which will definitely help boost the awareness of this specialty in our country. To continue the unbroken success of recent meetings, the preparations for CIRSE 2011 are in full swing. Thanks to the unfailing commitment of many members of our Society and of our office in Vienna, a thrilling programme is planned, which will make CIRSE 2011 another great success.

We are looking forward to welcoming you to charming Munich in 2011, and sharing a fascinating programme with you!

"Grüß Gott" in München,

Thomas K. Helmberger & Josef Tacke

Co-Chairmen of the CIRSE 2011 Local Host Committee



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### **Excellence in Interventional Radiology**

### **CIRSE Gold Medallists**

2011	J.A. Reekers
2010	F.S. Keller
2009	J. Lammer
2008	J.E. Abele, B. Cook
2007	A. Adam
2006	B.T. Katzen
2005	J.F. Reidy
2004	J. Struyven
2003	Ch. L. Zollikofer
2002	J. Göthlin, JJ. Merland, E.P. Zeitler
2001	E. Boijsen, F. Olbert, F. Pinet
2000	P. Rossi
1999	A. Lunderquist
1998	D.J. Allison
1997	R.W. Günther

### **CIRSE Distinguished Fellows**

2011	J.A. Kaufman, L. Machan, A.F. Watkinson
2010	O. Akhan, W.P.Th.M. Mali
2009	A.A. Nicholson, A.C. Roberts
2008	K. Mathias, H.P. Rousseau
2007	K.H. Barth, D.A. Kelekis
2006	A. Rosenberger, G. Simonetti
2005	F.S. Keller, A.J. Roche
2004	A. Besim, B. Läubli,
	P.R. Mueller, R. Yamada,
2003	K. Hiramatsu, F. Joffre, H. Uchida
2002	Cl. L'Herminé, JM. Rius, M.R. Dean
2001	J.M. Bigot, J. Edgren
2000	J.C. Gaux, L. Horváth
1999	U. Tylén
1998	A. Essinger
1997	J.H. Göthlin, J. Struyven
1996	M. Amiel, P. Rossi
1995	U. Erikson
1994	D.J. Allison
1993	E.P. Zeitler
1992	I. Enge, A. Lunderquist, F. Olbert
1991	A. Pinet, F. Pinet
1990	A. Baert, L. Di Guglielmo, G. Van Andel
1989	JL. Lamarque, R. Passariello
1988	E. Boijsen, C. Puylaert, E. Voegeli

### **Gruentzig Lecture**

2011	J.G. Moss
2010	D. Vorwerk
2009	R. Lencioni
2008	C. Becker
2007	J.C. Palmaz
2006	L. Solbiati
2005	A.C. Roberts
2004	EP. Strecker
2003	K.R. Thomson
2002	P.A. Gaines
2001	B.T. Katzen
2000	J. Struyven
1999	S. Wallace
1998	R.W. Günther
1997	P. Rossi
1996	J. Rösch
1995	D.J. Allison
1994	E.P. Zeitler

### **Roesch Lecture**

2011	M. Szczerbo-Trojanowska
2010	J.I. Bilbao
2009	M.D. Dake
2008	J.A. Kaufman
2007	K. Ivancev
2006	L. Machan
2005	H.P. Rousseau
2004	F.S. Keller
2003	J. Rösch

# C RSE

### **Gold Medallist**

### Jim A. Reekers

Jim Reekers completed his undergraduate medical training at the University of Amsterdam. Inspired by the work of Charles Dotter, he developed a special interest in interventional radiology; gaining Board Certification in Radiology in 1986. After a short fellowship with Professor Allison in London he was appointed as Staff Radiologist at the Academic Medical Centre, University of Amsterdam in the same year.

As interventional radiology was at that time still a young discipline, Professor Reekers showed great endeavour and studied his specialty by travelling around Europe, visiting and learning from the famous IR innovators of the day. Publishing his PhD thesis on 'New interventional techniques' in 1994, he went on to be appointed Professor of Radiology and Interventional Radiology at the University of Amsterdam in 1999.

Over the years he has been at the front line of IR in many ways: as an active promoter of interventional techniques worldwide, as a teacher and lecturer, and as an inventor of new interventional tools. He is the inventor of the Hydrolyser catheter, the Optease filter and recently the Reekross catheter. He is a pioneer of subintimal angioplasty, publishing his own early independent data one year after the Bolia publication. His name for this new technique, PIER (Percutaneous Intentional Extraluminal Recanalisation), was however never widely adopted, much to his regret. He is known for his efforts to introduce Evidence-Based Medicine and good clinical trials into IR. He has been the primary investigator of several randomised trials in IR, including the recent EMMY trial on UFE. As a result of his commitment to teaching and communication he wrote the successful book 'Presenting at Medical Meetings'.

Professor Reekers acquired the EBIR in 2010 and is a fellow of CIRSE, his long involvement in the Society culminating in his presidency from 2007 to 2009. He is also a fellow of SIR (Society of Interventional Radiology, USA) and is a member of the European Society of Vascular and Endovascular Surgery, NVvR (Dutch Society of Radiology), and NGIR (Dutch Society of Interventional Radiology), where he was president between 1998 and 2010. He is recognised as one of the key opinion leaders in the field and has been a leading figure in the successful UEMS recognition of interventional radiology as a medical subspecialty of radiology.

His publications comprise more than 127 peer-reviewed papers and over 30 book chapters, he sat on the editorial board of the European Journal of Vascular and Endovascular Surgery from 2001 to 2008, and is currently on the editorial board of CVIR. In addition he has given more than 250 invited international lectures and was honoured as Olbert Lecturer in 2006 and Dotter Lecturer (SIR) in 2008.

Further awards include the European Congress of Radiology Medal for best presentation (1993), the Stauffer Award from the Society of Academic Radiology for best clinical paper (1996), as well as honorary fellowships of both BSIR (British Society of Interventional Radiology) and the UK and Irish Society of Vascular Surgery.

Owing to the many positions Professor Reekers holds he is kept busy working for IR. When he does have spare time he likes to give expression to his creativity, especially through writing, painting and music.

**CIRSE Opening Ceremony and Awards** 

Jim A. Reekers will be awarded

### **Distinguished Fellow**

### John A. Kaufman



A native of Boston, Massachusetts, John Kaufman attended Yale University for his undergraduate degree and Boston University for his medical studies, from where he graduated AOA in 1982. After his residency in radiology at Boston City Hospital he completed a fellowship in vascular and interventional radiology at the same institution.

Dr. Kaufman's academic appointments started in 1990 when he became an instructor in radiology at Boston University School of Medicine and Harvard Medical School. Only six years after becoming an assistant professor of radiology Kaufman went on to become a professor of interventional radiology at the Dotter Interventional Institute. He is also a professor in the departments of Diagnostic Radiology, Medicine, and Vascular Surgery.

Dr. Kaufman started his hospital career as general medical officer and director of emergency medical services at W.W.

Hastings Indian Hospital in Tahlequah, Oklahoma. In 1991 he returned to Boston to become an assistant in radiology at Massachusetts General Hospital, where two years later he became the Fellowship Director of the Vascular and Interventional Radiology Department. In 2000 he moved to the Dotter Interventional Institute in Portland, Oregon. There he was appointed Chief of Vascular and Interventional Radiology in 2003 and became the Frederick S. Keller Professor of Interventional Radiology. In 2010 he was appointed Associate Director of the Dotter Institute, and in the same year earned a Master of Science in Health Care Management from the Harvard School of Public Health.

Dr. Kaufman has received numerous awards and honours, including a United States Public Health Service Achievement Medal, a Figley Fellowship in Radiology Journalism with the American Roentgen Ray Society (ARRS), and a Distinguished Alumnus Award from Boston University School of Medicine. In 2008 he gave the Josef Rosch Lecture at CIRSE in Copenhagen, and in 2010 the Charles Dotter Memorial Lecture at the American Heart Association (AHA) Annual Meeting. Dr. Kaufman is a Fellow of CIRSE, SIR, and the Council of Cardiovascular Radiology and Intervention of the AHA.

A strong proponent of clinical practice in IR, he has co-founded several multidisciplinary programs at OHSU in vascular health, fibroid treatment and liver tumours. Dr. Kaufman has been highly involved in IR education reform at a national level in the USA. He chairs the SIR/American Board of Radiology (ABR) Primary Certificate Task Force, which is working to establish interventional radiology as a primary specialty of the ABR in the United States.

Dr. Kaufman has held numerous offices in the SIR, culminating in his election as President in 2008. He is currently Vice-Chair of the SIR Foundation. He has also chaired the Cardiovascular Radiology Council of the AHA, and served on committees of the ARRS and the Radiological Society of North America.

Dr. Kaufman has published over 95 peer-reviewed articles, more than 110 contributions and chapters, and edited or authored 6 books, including an introductory IR textbook with Professor Michael Lee. In his research Dr. Kaufman has focused on vena cava filters, with a particular interest in retrievable filters. He is a recognized authority in this area. He has served on the editorial boards of AJR, JVIR, Seminars in Roentgenology and Seminars in Interventional Radiology, and is co-editor of Techniques in Vascular and Interventional Radiology.

John and Cathy Kaufman have been married for 33 years. They have three grown children (Nick, Claire and Alex). Nick works in international development, Claire will be entering a radiology residency in 2012, and Alex is working for a non-profit organisation. John assigns all credit for the children and his career to Cathy.

### **CIRSE Opening Ceremony and Awards**

John A. Kaufman will be awarded

### Distinguished Fellow

### **Anthony F. Watkinson**



Anthony Watkinson graduated in metallurgy from Sheffield University with a first class honours degree in 1977. He completed a MSc in metallurgy at Oxford University before switching to study medicine in London at the Royal Free Hospital graduating in 1984. He initially trained in Surgery completing his FRCS in 1988 before becoming interested in the emerging field of interventional radiology/image-guided surgery. He completed his FRCR and after working in Bristol and London travelled to Vancouver, Canada in 1992 to work with Professor Joachim Burhenne and Dr. Lindsay Machan, two of the founding pioneers in the field of interventional radiology. This inspired him to concentrate on developing new procedures and emerging technologies in the field of vascular and nonvascular image-guided intervention. He returned to London in 1993 and became Professor Andy Adam's first Interventional Fellow at Guy's and St Thomas' Hospitals. He took up post as Consultant Interventional Radiologist and Senior Lecturer at the Royal Free Hospital, London working there from 1994 to 2002. After eight years working on all aspects of IR he moved to Exeter in the South West of England in 2003, establishing programmes in EVAR, TIPS, RFA, TACE and treatment of AVM's.

He has held several positions within the British Society of Interventional Radiology including chairman of the education committee from 1999 to 2001, secretary from 2001 to 2003, Vice-President from 2003 to 2005 and President from 2005 to 2007. He is currently a council member of the Royal College of Radiology serving from 2008 to 2011.

He has been involved with CIRSE for many years and has served on the membership and Scientific Programme committees. He has also assisted in the organisation of the Film Panel on several occasions.

He is author, editor or co-editor of 13 books on interventional radiology. He has published over 140 scientific publications, 22 book chapters and 17 review articles. He has presented over 150 proffered papers at national and international meetings and given over 150 invited lectures throughout the world. He is assistant editor of three and invited reviewer of 12 radiological and medical journals.

Research work to date has centred around collation and interpretation of clinical data. Future aims include continued evaluation of new techniques and emerging technologies in the field of interventional radiology.

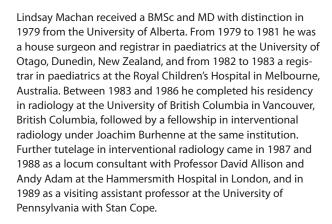
He has several interests outside interventional radiology including spending time with his wife Melanie, who is a Radiation Oncologist, and their four children Beth, Meg, Emma and Tom. Other interests include rugby, kitesurfing, skiing, horses, painting and winemaking at the family home in Devon.

**CIRSE Opening Ceremony and Awards** 

Anthony F. Watkinson will be awarded

### **Distinguished Fellow**

### **Lindsay Machan**



Dr. Machan is a clinical radiologist involved in imaging and interventional radiology. His primary clinical interests are gynaecological interventions, interventions in infertility, and venous disease. In the laboratory he is active in investigating the application of drugs to devices, and methods of reducing radiation dose during fluoroscopically guided procedures. Dr. Machan has performed multiple first-in-man procedures including the first drug eluting stent implantation in 1996, and the first drug eluting vascular stent in 1999.



He is co-editor with Kris Kandarpa of the latest edition of the 'Handbook of Interventional Procedures', has delivered over 600 lectures at medical meetings including 10 eponymous lectures, has authored 92 scientific articles and chapters, and is co-inventor on 14 patents. Being selected by CIRSE to give the 2006 Roesch Lecture was a particular honour as Josef Roesch has been a role model and mentor. Dr. Machan is a founding member of the Canadian Interventional Radiology Association, has served as president of the Western Angiographic and Interventional Society, is on one editorial board and is a reviewer for two medical journals and has served on multiple committees and expert consensus groups for the Society of Interventional Radiology, the American Heart Association and the British Columbia Ministry of Health. He is passionate about science education and concerned with its declining condition in both primary and secondary education in the Western world. To this end he is a member of the Board of Directors of BC Science World.

Dr. Machan is an Associate Professor of Radiology and former Head of Angiography and Interventional Radiology at Vancouver Hospital. In 1992 he co-founded Angiotech Pharmaceuticals Inc., a biomedical company which has commercialised paclitaxel-coated stents, among other products. He also participates on the scientific advisory boards of various other medical device companies. In 2006 he and Dr. Bill Hunter shared the Manning Innovation Principle Award for developing and commercialising the paclitaxel stent, and in 2008 he received the International Symposium of Endovascular Therapeutics Innovator Award.

**CIRSE Opening Ceremony and Awards** 

Lindsay Machan will be awarded

# C RSE

### **Gruentzig Lecturer**

### Jonathan G. Moss

Jonathan Moss received his initial medical training at the University of Edinburgh, graduating with an MBChB in 1979, before acquiring the FRCS (Ed) after five years of surgical training. He then entered training in radiology, again at Edinburgh, acquiring the FRCR in 1989.

Between 1991 and 1992 Professor Moss completed a fellowship in interventional radiology under Julio Palmaz at the University of Texas, San Antonio, Texas. This was followed by his appointment as consultant interventional radiologist at the Greater Glasgow and Clyde Health Board. His expertise was recognised in 2007 with his appointment to the honorary chair in radiology at the University of Glasgow.

Currently Secretary of the British Society of Interventional Radiology (BSIR), Professor Moss has been instrumental in developing the BSIR national registries which include BIAS, a performance indicator registry for iliac interventions. He has been involved with CIRSE for many years and, in recognition of his achievements and distinguished contributions to interventional radiology, was honoured with Fellowship in 2001.

Professor Moss has sat on numerous panels and committees including the U.K. Working Party for Vascular Access for Dialysis Patients, the Interventional Radiology in O & G Working Party,

and the National Renal Audit Vascular Access Implementation Group. He is currently on the Interventional Procedures Panel for the National Institute for Health Research (U.K.), the Safety and Data Monitoring Committees of the Improve Trial (EVAR for ruptured AAA), and is a specialty advisor to the National Institute for Health and Clinical Excellence.

Professor Moss is on the editorial board of CVIR, has written 16 book chapters, 63 publications and has delivered many presentations and lectures at national and international meetings. His clinical practice consists of both vascular and non-vascular interventional radiology and his research interests focus primarily on renovascular disease and uterine fibroids. He has been involved in a number of grant-funded studies, often as Chief Investigator.

Outside medicine he enjoys the outdoor life which includes sailing, mountaineering, diving and running.

### **Andreas Gruentzig Lecture**

Evidence based interventional radiology - not how but if and when

Sunday, September 11 15:30-16:15 Roesch Lecture

### **Roesch Lecturer**

### Małgorzata Szczerbo-Trojanowska

Małgorzata Szczerbo-Trojanowska was born in Lublin, Poland. She received her medical education at the Medical University in Lublin where she graduated with distinction in 1970. Prof. Szczerbo-Trojanowska did her postgraduate training in surgery at Princess Margaret Hospital in Swindon, UK and in nephrology at the Medical University in Lublin.

In 1972 she was employed at the newly established Department of Vascular and Interventional Radiology, Medical University in Lublin headed by Professor Marian Klamut. She completed her radiological training and became a board certified radiologist in 1979. During her training in interventional radiology she visited a number of renowned centres abroad. A scholarship in Uppsala, Sweden in the department of Professor Uno Erikson gave her a new insight to the most advanced ideas in her specialty. In Uppsala she carried out experimental research into uterine embolisation. Prof. Szczerbo-Trojanowska also participated in numerous fellowship programmes abroad including those at Karolinska Institute in Stockholm, Southampton University in the UK and the University of Giessen, Germany.

In 1985 she was promoted to an associate professor at the Medical University in Lublin, followed by a full professorship in 1993. In 1995 she was appointed Head of the Department of Interventional Radiology at the 1500 bed University Hospital in Lublin and has held the position since then. From 1999 she has also held the position of Chairman of the Department of Radiology at the Medical University in Lublin.

Prof. Szczerbo-Trojanowska is an active member of numerous Polish and international medical societies and associations. Forming part of the Polish spearhead in the development of interventional radiology since its beginnings, she co-founded the Interventional Radiology Section of the Polish Medical Society of Radiology in 1978 which she headed between 1980 and 1990. In 2001 Prof. Szczerbo-Trojanowska presided over the Congress of the Polish Medical Society of Radiology. In the same year she was elected president of the Polish Medical Society of Radiology and held the position for three years. She was also a co-founder of the Polish Society of Magnetic Resonance and served as a member of the Executive Board from 1989 to 1999.



Prof. Szczerbo-Trojanowska was honoured by election to the board of CIRSE in 2005. From 2005 to 2007 she was chairman of the Rules Committee. She was involved in setting up the first ESIR courses in Eastern Europe being a host for two of them in Lublin in 2006 and 2007. In 2004 Prof. Szczerbo-Trojanowska was elected a member of the board of the European Congress of Radiology (ECR). Since then she has worked on various ECR committees. The highlight of her career has been her Presidency of the European Congress of Radiology in 2010. From 2005 to 2010 she served as a member of the Executive Council of the European Society of Radiology (ESR). Since 2006 she has been a member of the Steering Committee of the European School of Radiology (ESOR) and was local organiser for three of its courses in Poland.

Her scientific work has resulted in 193 papers published in scientific journals, nine monographs and book chapters. She has given over 200 presentations at many international scientific meetings and congresses. Prof. Szczerbo-Trojanowska is committed to the training of the next generation of radiologists, teaching medical students and residents at all levels. She has tutored 24 radiologists who have obtained their PhD theses under her supervision. Most of these theses were related to vascular and interventional subjects.

She has received numerous honours, among them the Medal of the Polish Chamber of Physicians and President's Award of the American Association for Women Radiologists. Prof. Szczerbo-Trojanowska has been awarded honorary membership of six radiological societies including the Seldinger Society of Vascular and Interventional Radiology.

She has served as a reviewer, consultant and editorial board member for many radiological and medical journals, CVIR among them. Her main fields of interest are vascular interventions: embolisation, carotid stenting, and aortic aneurysm stent grafting.

Prof. Szczerbo-Trojanowska loves good music, and enjoys travelling and sports, particularly skiing and sailing. She has been married to Tomasz, a neurosurgeon, for over 40 years and they are both proud of two sons, Peter and Konrad, as well as two lovely granddaughters, Nina and Daria.

### **Josef Roesch Lecture**

Evidence based medicine and carotid stenosis treatment

Tuesday, September 13 14:00-14:45

# Changing interventions Changing lives

Innovations in interventional oncology

"The future for interventional oncology is bright...
It's growing and evolving and it's becoming one of
the cornerstones of therapy for the cancer patient."

Prof. Dr. B. Wood, National Institute of Health, Bethesda, USA

Satellite lunch symposium Philips Healthcare\* September 10, 2011, Time: 13:00-14:00, Saal: 14a

\*Lunch will be provided



(From left to right)

Moderator

Prof. Dr. A. Gangi

University Hospital, Strasbourg, France

### Dr. M. van Strijen

St. Antonius Hospital, Nieuwegein, The Netherlands, The next step in percutaneous ablative therapies

### Prof. Dr. J.F. Geschwind

Johns Hopkins University, Baltimore, USA, Intra-arterial cancer therapy: See, Reach, Treat and Assess

### Prof. Dr. M. van den Bosch

University Medical Center, Utrecht, The Netherlands, MR-HIFU for non-invasive tumor ablation

# Discover the latest innovations in interventional oncology

How are minimally invasive procedures changing the treatment of cancer? What new options do they offer for relieving pain in cancer patients? Philips is holding a special symposium during CIRSE 2011 on Innovations in interventional oncology. Several distinguished interventional practitioners will present actual cases on their exciting work. Visit us at the Philips booth 111 to learn more about the interventional oncology suite.



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#### Venue

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81823 Munich, Germany Phone: +49 89 949 230 23 Fax: +49 89 949 230 09 www.icm-muenchen.de

### **Online Pre-Registration**

Pre-registrations through our website **www.cirse.org** will be accepted until **September 7, 2011**. After this date, onsite registration at the ICM Munich will be possible. Please refer to the opening hours below.

### **Onsite Registration**

The registration desks will be located next to the main entrance in the registration hall.

### Onsite registration desk opening hours

 Friday, September 9
 16:00-18:00

 Saturday, September 10
 07:00-18:00

 Sunday, September 11
 07:30-18:00

 Monday, September 12
 07:30-18:00

 Tuesday, September 13
 07:30-18:00

 Wednesday, September 14
 07:30-11:00

### **Onsite check-in procedures**

Delegates must check in personally at their respective registration desk in the Registration Hall. An express lane for pre-registered delegates who are already in possession of the badges will be available. Participants who did not receive their badges before leaving their home country are requested to bring their letter of confirmation or a copy of their invoice.

### After July 14, 2011 (11:59 pm CET)

CIRSE Member	€ 655
Non Member	€ 950
Student/Resident/Nurse/Technician*	€ 475

\* to be accompanied by a certificate signed by the head of department if the attendee is not a Junior Member of CIRSE

Reduced registration fees for CIRSE 2011 are only available for those members who have been in good standing with CIRSE in 2010 and 2011.

Individuals who become CIRSE members 2011 will be able to benefit from reduced congress fees starting at CIRSE 2012.

### **Additional information**

All CIRSE 2011 registrants will be able to print out an invoice of the registration using their personal login details at www.cirse.org.

Invoices will be issued by CIRSE Congress Research Education GmbH, Neutorgasse 9, 1010 Vienna, Austria Umsatzsteuerbefreiung nach § 4 Nr. 22 a UStG Registration fee deemed as VAT exempt based on article 4 of the German VAT Law Nr. 22a UStG.

### **Cancellation of congress registration**

CIRSE offers all participants the possibility of taking out cancellation insurance with our partner "Europäische Reiseversicherung" (see www.cirse.org).

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Name changes will be handled as a cancellation and new registration.







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### **Badges**

After successful registration and payment, your personal congress badge and further information will be sent to the address indicated on your online registration form (registrations received and paid by **July 29**). All participants registered after July 29 will receive their badges at the registration desk. Your personalised badge is your admission card to the congress. For organisational and security reasons, badges have to 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 only be provided at an administrative charge of € 80.

### **Publication in CVIR**

Meeting abstracts as printed in this book will be published by Springer in an electronic supplementary issue of CVIR, the official CIRSE journal, and are therefore citable publications. 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 its website (http://mc.manuscriptcentral.com/cvr). Please note that submissions have to comply with the "Guidelines of Authors" specified in every issue of CVIR.

### **Main Programme & Abstract Book**

A copy of the "Main Programme & Abstract Book" is provided in every congress bag. The bags will be handed out at the congress check-in. Additional copies may be purchased at the registration desk at a rate of € 40 per book.

### **Electronic Posters Opening Hours**

Saturday, September 10	07:30-18:30	
Sunday, September 11	07:30-18:30	
Monday, September 12	07:30-18:30	
Tuesday, September 13	07:30-18:30	
Wednesday, September 14	07:30-12:30	

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

### **Credit Allowance**

The Cardiovascular and Interventional Radiological Society of Europe is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

CIRSE 2011 is designated for a maximum of 27 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

EACCME credits are recognized by the American Medical Association towards the Physician's Recognition Award (PRA).

To convert EACCME credit to AMA PRA category 1 credit, contact the AMA.

#### **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 12, you can use one of the dedicated workstations in the registration hall 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 will have to do is to give your last name and badge number.

### Disclaimer

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Financial disclosure and conflict of interest statements are printed as part of the appertaining abstracts. Please refer to "Abstracts & Author Index" (page 165 ff of this book), which is also available online as a supplementary issue of CVIR.

### **Useful Information**

### Internet

Wireless LAN is available free-of-charge to all conference delegates at dedicated spots throughout the congress centre. For further information you are kindly asked to consult the CIRSE 2011 Pocket Guide or ask the CIRSE staff at the registration desk.

### Members' Lounge

All members are invited to relax and take a snack in the Members' Lounge which is located on the first floor.

### **Taking photographs**

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 ESIR.org after the meeting.



### **Public Transportation in Munich**

In cooperation with the Munich Convention Bureau, CIRSE is offering a special congress ticket for CIRSE 2011, allowing all congress participants to make unlimited use of Munich's excellent public transportation system. With this pass you will be able to travel easily and economically from your hotel to the International Congress Center Munich ("ICM", Underground line "U2" - exit "Messestadt West").

The **5-Day congress ticket** is available for only **EURO 19,80** which is 20 % cheaper than the usual rate.

(unlimited travelling among Munich's public transportation network (Bus/Metro/Train) excluding Munich Airport and the outskirts of Munich)

A ticket for travelling from the airport to the city is available for EURO 10,80 (one way).

Take the opportunity to order your congress ticket in advance via www.cirse.org or buy it at the Kuoni desk at the ICM.

Pre-ordered tickets can be collected at the CIRSE 2011 airport counters (Terminal 1 and 2, after the baggage claim) or the Kuoni desk at the ICM.

Opening hours of the airport counters: Friday, September 9 until Sunday, September 11 09:00-18:00

The desk at the ICM has the following operation hours:

 Friday, September 9
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 Saturday, September 10
 07:00-18:00

 Sunday, September 11
 07:30-18:00

 Monday, September 12
 07:30-18:00

 Tuesday, September 13
 07:30-18:00

 Wednesday, September 14
 07:30-11:00

General public transportation information is also provided at the MVV website (www.mvv-muenchen.de).

If you need any further information please do not hesitate to contact our travel partner Kuoni Destination Management (operated by Conference & Touring C&T GmbH):

Ms. Alina Brose
Metzstrasse 14 c
D-81667 Munich
T +49 89 61 46 93-0
F +49 89 61 46 93-33
mailto: cirse2011@ch.kuoni.com

### run S.M.A.R.T. & Soccer Cup

We are delighted to invite you all to the **run S.M.A.R.T.** and the **Soccer Cup**, which will take place on Saturday, September 10 at 19:00, immediately after the CIRSE Opening & Award Ceremony.

Join us at the historic **Olympiapark Munich**, where a 3km running route through the park is waiting for you!

The Soccer Cup will be held at the **SoccArena Olympiapark** (Address: Spiridon-Louis-Ring 21, 80809 Munich), which is also the meeting point for the run S.M.A.R.T. Separate dressing rooms and showers are available for men and women.

Shuttle buses will be provided from the congress centre to the Olympiapark, as will a delicious complimentary buffet of snacks and drinks. We kindly ask you to arrange your own transport from the Olympiapark following the event. There are two underground stations within walking distance, and taxis can be arranged upon request.

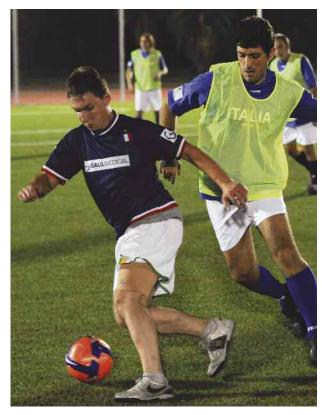
If you would like to attend one of the events or receive more information, kindly send a short email with your contact details to Ms. Judith Maron (maron@cirse.org). **The registration deadline is September 2, 2011**.

All visitors are most welcome!











# Party CIRSE 2011

Tuesday, September 13, 19:30 Löwenbräukeller, Munich

What would CIRSE be without an extravagant party to celebrate the conclusion of another successful annual meeting...

...and what could be more Bavarian than an Oktoberfest-themed one?

The grand banqueting hall of the Löwenbräukeller is the perfect location, having been a central part of Munich's history, culture and festivities since 1883.

Dress yourself in traditional clothes, drink a "Maß" from specially designed CIRSE beer mugs and enjoy an evening with folk musicians and the original Oktoberfest Band – the "Jetzendorfer Hinterhofmusikanten"!

O'zapft is!

Make sure to secure your tickets for the CIRSE 2011 Party!!
Online booking at www.cirse.org

Kindly note that the CIRSE Party is a seated dinner. Table or seat reservation is not possible. To receive more information on the seating policy and booking possibilities, please also refer to www.cirse.org.

### **Technical Exhibition**

### **Exhibition Opening Hours**

Saturday, September 10 09:00 - 17:30 Sunday, September 11 09:00 - 17:30 Monday, September 12 09:00 - 17:30 Tuesday, September 13 09:00 - 17:30 Wednesday, September 14 09:00 - 13:00

### CIRSE 2011: the place to be...

CIRSE is proud to present the largest, most comprehensive technical exhibition in the field of minimally invasive medicine.

More than 80 industry members span a gross exhibition space of over 5,800m<sup>2</sup> at CIRSE 2011.

### CIRSE 2011 Exhibitors

(as per date of printing)

Abbott Vascular International

Acandis Acrostak ActiViews

**ALN Implants Chirurgicaux** amedo Smart Tracking Solutions

Andanza Andramed AngioDynamics **Argon Medical Devices** ArtVentive Medical Asahi Intecc Atrium Europe

**Bard Baylis Medical** B. Braun Medical b.e.imaging.

**BIBA Medical Interventional News** 

biolitec **Biotronik Bolton Medical Boston Scientific** 

Bracco

British Society of Interventional Radiology

**BSD Medical** CareFusion

Celon - Olympus Surgical Technologies Europe

CeloNova BioSciences

Chongqing Haifu (HIFU) Technology

CID **CIRSE 2012** 

**CIVCO Medical Solutions** ClearStream Technologies

Cook Medical

Cordis, Johnson & Johnson

Covidien Crux Biomedical **CVIR** 

**Delcath Systems** ECIO 2012

Edizioni Minerva Medica

**Ekos** 

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eucatech Eurocor

European Federation of Radiographer Societies (EFRS)

ev3 Europe Galil Medical

Gore & Associates

Greek (Hellenic) Society of Interventional Radiology

H.S. Hospital Service

Hexacath

**Idev Technologies IROS 2012** 

iSYS Medizintechnik

Italian Society of Vascular and Interventional Radiology (SIRM)

Joline Jotec

Lifetech Scientific LINC 2012 Lombard Medical

MDT Medical Instruments Division

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Microsulis Medical Möller Medical

Next Publishing Research and Media

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Pan Medical PharmaCept Philips Healthcare PHS Medical

QualiMed Innovative Medizinprodukte

**RF Medical** Siemens

Sirtex Medical Europe

Society of Interventional Radiology (SIR) Society of Gastrointestinal Intervention (SGI)

Spectranetics International

St. Jude Medical StarMed Sterylab Straub Medical Synthes **Tecres** TeraRecon Terumo Europe TriVascular

Turkish Society of Interventional Radiology

Vascular Solutions

Vidacare

Wisepress Medical Bookshop

Ziehm Imaging

without responsibility for any misprints



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As the official airline network for the CIRSE 2011, we'd like to thank you for choosing the Star Alliance™ network and hope that all goes really well for you here today.

Whilst you concentrate on the day's events, we hope you'll consider us the next time you need to attend a conference.

With over 21,000 flights a day to 1,160 airports across 181 countries, our 27 member airlines will extend a wide choice of flights to any future conference you're planning to attend. And no matter which of those airline's frequent flyer programmes you belong to, you can earn and redeem miles across all of them.

So the next time you want to concentrate all your energies on your conference, we hope you'll decide to leave the travel arrangements to us.



ADRIA

## How to navigate the scientific programme in this booklet

The programme is designed to facilitate itinerary planning allowing delegates to follow one of these themes with little or no overlap. In this booklet you will find colour codes for each of the seven main themes. Those codes can be found throughout the whole programme (programme overview, main theme description, programme in chronological order). This way you will easily recognise your topics of interest.

### VASCULAR INTERVENTIONS

Vascular interventions still represent the lion's share of the wide range of treatments and procedures interventional radiologists can offer today. With this in mind, the programme committee has yet again created a large number of sessions in this field. In the Special Sessions, there will be much emphasis on aortic aneurysm repair and treatment of occlusive diseases, some lectures especially addressing treatment options for SFA occlusions. In the traditionally very popular controversy session, for example, there will be a debate about advantages and disadvantages of endovascular treatment of long SFA occlusion. Delegates who would like to learn in an informal atmosphere and wish to work up cases with experts are kindly invited to attend the Workshops and Interactive Case Sessions dedicated to indications for and techniques of CAS, TEVR, TIPS and EVAR as well as to the complications associated with the different vascular interventions. As for the Hands-on Workshops: the "Closure devices" and "IVC filters" Hands-on Workshops are still enjoying great popularity and will be again on the programme of CIRSE 2011. In addition, a Hands-on Workshop on "Varicose veins" will be held at CIRSE 2011 for the first time ever.

### TRANSCATHETER EMBOLIZATION

Transcatheter embolization is by now an integral part of the daily practice of most interventional radiologists. At CIRSE 2011, there will be an embolization programme for delegates of all levels of experience in the field. For young colleagues, who are just starting to become involved in embolization, there will be a Foundation Course covering the basic principles of postpartum haemorrhage, haemoptysis, trauma management and uterine fibroid embolization. Among other topics, Special Sessions and Workshops will deal with vascular malformations, UFE and treatment of various kinds of haemorrhage, such as GI haemorrhage or postpartum haemorrhage. Due to the great success of the "Embolization: materials and tools" Hands-on Workshop, which made its debut with two fully booked sessions at CIRSE 2010, an additional time slot has been allocated to the workshop. Participants will gain insight into the handling of the available embolization tools and materials, such as coils, plugs, glue and onyx.

### INTERVENTIONAL ONCOLOGY

In view of the growing number of interventional radiologists who are these days involved in cancer imaging and therapy, interventional oncology will be represented by an extensive educational programme on offer at CIRSE 2011. Special Sessions will address the current status in cancer therapy of ablative techniques, drug eluting beads, chemoembolization, combined therapy and HIFU, to mention a few. Various procedures to treat renal cancer, HCC and non-resectable disease will be up for debate in the controversy session. Furthermore, sessions dedicated to hepatic metastases, kidney cancer and lung cancer will be offered. Ablation techniques for different types of cancer will certainly also be discussed in Workshops. In addition, the continually popular Workshop on radioembolization will once again be in the programme. The "Tumour ablation" Hands-on Workshop at CIRSE 2010 proved still to be a great success and will be repeated at CIRSE 2011. Two particularly popular sessions, "Starting your practice" and "Liver", will even take place twice in order to allow more delegates to attend those workshops. Participants will be able to access the full range of ablation systems (RFA, cryotherapy, microwave).



### NEURO INTERVENTIONS

More and more interventional radiologists are nowadays getting involved in neuro intervention. For example, many of them are increasingly being asked to perform thrombolysis and recanalization procedures in stroke patients both in and out of normal working hours. The introduction of neuro interventions at CIRSE 2010 was a great success, therefore this topic will certainly be part of the programme again. A mini course of 3 Special Sessions will deal with the essentials of stroke management, one session dedicated to imaging and indications, another session to treatment, and last but not least, a session on the prevention of stroke. There will be Workshops on how to get started in stroke management as well as on revascularization tips in acute stroke management. Furthermore, a Workshop on treatment of intracranial aneurysms and AVMs will be offered. The Hands-on Workshop on "Stroke therapy" proved its popularity with two fully booked sessions at CIRSE 2010 and will be repeated at CIRSE 2011. Participants will again have the opportunity to test several devices specifically designed for intracranial thrombectomy in a flow model under the supervision of well recognised experts in this field.

### NON-VASCULAR INTERVENTIONS

After a 1-year break, there will once again be a Foundation Course on non-vascular interventions, catering to the learning needs of radiologists in training and young IR colleagues. The course will focus on management of benign biliary disease, abdominopelvic fluid collection and vertebral fractures as well as on renal interventions. Taking into account the importance of pain management for the work of interventional radiologists performing musculoskeletal intervention, the CIRSE 2011 programme will offer a Special Session as well as an Interactive Case Session on the treatment of back pain. In the controversy session delegates may watch lively discussions on the pros and cons of different procedures, such as MRgHIFU and covered stents. Biliary obstructions as well as treatment of bone and spine tumours will be among the Workshop topics for CIRSE 2011. We are delighted to announce that the especially popular Hands-on Workshops on Vertebroplasty will again be held, only the title has slightly changed to "Vertebral augmentation techniques". Three sessions will be offered in which participants will have the opportunity to practice needle placement, cement preparation and injection.

### IR MANAGEMENT

CIRSE encourages interventional radiologists to become involved in a systematic IR management field as clinical care is an important aspect of practice in interventional radiology. A number of Special Sessions will therefore be devoted to IR management, a new main topic that will be introduced at CIRSE 2011. The Special Session "Ongoing research in IR" will deal with forward-looking procedures and technology, such as stem cell delivery as treatment for chronic diseases, bioabsorbable stents or islet cell transplantation. Besides a session focusing on analysis of IR challenges inside and outside Europe, thus discussing the strategic plan for IR, a session on radiation protection will be offered at CIRSE 2011. Lectures will address the management of radiation exposure risk in paediatric interventions as well as the importance of guidelines for occupational and patient radiation protection. To top this section off, a session will pay homage to famous innovators in the field of interventional radiology - Rolf W. Günther, John F. Reidy, Amman Bolia and Wladyslaw M. Gedroyc.

### IMAGING

Profound knowledge of state-of-the-art imaging techniques and strong imaging skills play a fundamental role in the daily practice of IR. Whether it is patient assessment, the choice of the appropriate guidance technique or patient monitoring and follow-up, the outcome of interventional procedures will always be closely related to the efficiency of pre-, peri- and postprocedural imaging. Taking this into account, CIRSE will offer two Special Sessions dedicated to imaging at CIRSE 2011. There will be a Special Session on imaging after EVAR, focusing on imaging techniques like MRI, MRA and CEUS, just to name a few. In addition, a Special Session on image guidance and assessment of tumour therapy will be featured once more in the programme, in response to the sustained interest in this topic at previous CIRSE congresses.





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### Rotarex®S:

for acute to chronic arterial occlusions

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for acute occlusions in veins



Aspirex®S available as: 6F 110 cm, 6F 135 cm, 8F 85 cm, 8F 110 cm, 10F 110 cm

Rotarex®S available as: 6F 110 cm, 6F 135 cm, 8F 85 cm, 8F 110 cm





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## **CIRSE Session Types**

### **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.

### **Foundation Courses**

Foundation 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, new consultants and/or 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.

This year, the Foundation Courses will cover two main topics:

- Non-Vascular Interventions
- Transcatheter Embolization

For the detailed programme, please refer to pages 52/53.

### Workshops

At the CIRSE workshops you will have the chance to learn from your colleagues' expertise in an informal, interactive manner. Workshops will include individual cases and discussion points with regard to the particular interventional topic. Attendees can contribute their opinion and ask questions in small groups.

## **Interactive Case Sessions**

CIRSE's interactive case sessions are divided into several topics. After two presenters have shown individual cases, the audience is asked for its opinion on treatment. These interactive sessions provide an excellent learning experience on how to approach and work up difficult cases and deal with complications that may arise.

## **Hands-on Workshops**

The participants of hands-on workshops may follow live demonstrations of interventional techniques and practice certain procedures under the guidance of a technician and/or instructor. This year's workshops will provide an insight into the basic principles and techniques of:

- Closure devices
- Embolization: materials & tools
- IVC filters
- Stroke therapy
- Tumour ablation
- Varicose veins
- Vertebral augmentation techniques

The Hands-on Masterclasses will offer participants the opportunity to experience simulation and practice the sequencing of selected procedures.

For the detailed programme, please refer to pages 42-48.

### **Film Interpretation Panel**

The film interpretation panel will consist of two teams who will compete against each other. The teams will be given cases to diagnose and suggest treatment. One of the principle aims of the film panel is to demonstrate the approach an expert takes towards the solution of a diagnostic/therapeutic problem. This will be undertaken in an entertaining fashion and is not to be missed. The process will be a team effort.

## "CIRSE meets ..." Sessions

The "CIRSE meets ..." programme proved to be an important platform for establishing and strengthening the relations between CIRSE and its distinguished Group Members - the National Societies in the field of interventional radiology. At CIRSE 2011, two sessions are going to be held.

CIRSE's guests will be:

- Australia and New Zealand
- Germany

For the detailed programme, please refer to pages 40/41.

## **Hot Topic Symposia**

The aim of this new session format is to address important IR topics that are current and controversial 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 the session will be a round table discussion involving the speakers and the audience.

For the detailed programme, please refer to page 39.

## **Morbidity & Mortality Conference**

The Morbidity and Mortality Conference will analyse interventional radiology cases which lead 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.

## **Free Paper Sessions**

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

## **Featured Papers:**

In order to achieve a more interactive format to 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.

## **Satellite Symposia**

Satellite symposia are organised by industrial companies and take place at lunchtime as well as in the morning and in the evening in order to avoid time conflicts with the main scientific programme. During these sessions cutting-edge information on interventional equipment and techniques is provided.

# ESIR 2011

## Don't miss the ESIR autumn courses!

Reduced registration fees available for CIRSE members!

## **Embolisation**

Rome/Italy October 14-15

## **Liver Interventions**

Porto/Portugal October 28-29

## **Drainage, Biopsies & Venous Access**

Dublin/Ireland November 4-5

European School of Interventional Radiology

All ESIR courses are CME certified
Programme and Registration at www.cirse.org



## **CIRSE Opening Ceremony & Awards**

## Saturday, September 10 16:00-18:00

## **Auditorium 1**

Chairmen: T.K. Helmberger (Munich/DE), J.H. Peregrin (Prague/CZ), J. Tacke (Passau/DE)

## Gold Medallist: J.A. Reekers (Amsterdam/NL)

Laudation: D. Vorwerk (Ingolstadt/DE)

## Distinguished Fellow: J.A. Kaufman (Portland, OR/US)

Laudation: E. Brountzos (Athens/GR)

## Distinguished Fellow: A.F. Watkinson (Exeter/UK)

Laudation: M.J. Lee (Dublin/IE)

## Distinguished Fellow: L. Machan (Vancouver, BC/CA)

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

## **Electronic Poster Awards**

### **CVIR Editor's Medal**

**Ensemble Berlin** 

### **Ensemble Berlin**

Making music in ensemble – to the highest level yet in a relaxed atmosphere. It was with this intention that a group of friends and colleagues from the Berlin Philharmonic Orchestra initially got together at the first "Landsberger Sommermusiken" in 1999. After this small and refined chamber music festival the desire remained for further concerts in this style, with the same group of musicians and at other times of the year. The 'Ensemble Berlin' was born.

In 2006 the Ensemble performed for fans of chamber music at the Berlin Philharmonic and also played at the Mozart festival in Würzburg. Concerts all over Europe, China and Japan followed.

As well as original chamber music compositions from classical, romantic and modern music – further musical adaptations form an additional point of artistic emphasis. To date, a whole range of musical treasures has resulted from the exceptionally fruitful collaboration between the musicians of the Berlin Orchestra and arranger Wolfgang Renz. These pieces, specially arranged for 'Ensemble Berlin', offer both listeners and interpretative performers hitherto unknown varieties of sound and, over and above this, cast a completely new light on established repertoire.



## Repositioning

the future of EVAR













## Repositioning = Control<sup>3</sup>

- 3 controlled deployments of the proven GORE® EXCLUDER® Device.
- 3 chances to maximize seal in the infrarenal aortic neck.
- 3 opportunities to rotate the stent-graft for precise orientation.

## Reposition Your Expectations for EVAR

When facing a challenging infrarenal neck, don't settle for one 'controlled' deployment. Put yourself in the best position to succeed — put the confidence of the GORE® C3 Delivery System in your hands. And you will have not one, not two, but three opportunities to go beyond control — and reposition the future of EVAR.

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Munich 2011 Hot Topic Symposia 39

## **CONTROVERSY - Hot Topics Discussion**

This new event at CIRSE 2011 aims to address important IR topics that are current and controversial in the setting of a plenary session. Invited speakers will give brief lectures on important aspects of the subject under discussion. In addition, representatives from other relevant societies will be invited to give their perspective.

A major feature of the session will be a round table discussion involving the speakers and the audience. At the conclusion of the session, the moderator will summarise the discussion and provide take home points.

Both Hot Topic Symposia take place in Auditorium 1.

## Sunday, September 11, 14:30-15:30

## HTS 1201 Is CCSVI a real entity? Should we treat MS patients with CCSVI by venoplasty?

Moderator: D. Vorwerk (Ingolstadt/DE)

Introduction by the moderator

1201.1	The Neurologist's view:
	basics and clinical signs of MS
	G. Ochs (Ingolstadt/DE)
1201.2	Venous congestion in CCSVI:
	research data
	F. Doepp (Berlin/DE)

1201.3 CCSVI is real and we should treat MS patients by venoplasty

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

1201.4 There is no evidence for CCSVI or its treatment in MS patients J.A. Reekers (Amsterdam/NL)

Panel discussion

Closing remarks by the moderator

## Tuesday, September 13, 13:00-14:00

## HTS 2701 Image-guided ablation replaces surgery in resectable liver tumours

Moderator: J. Tacke (Passau/DE)

Introduction by the moderator

## **Colorectal liver metastases**

2701. 1 Image-guided ablation can replace surgery in resectable liver metastases: pro

 T.K. Helmberger (Munich/DE)

 2701.2 Image-guided ablation can replace surgery in resectable liver metastases: con

 H.J. Schlitt (Regensburg/DE)

Panel discussion

## Hepatocellular carcinoma

2701.3 Image-guided ablation can replace surgery in resectable HCC: pro
R. Lencioni (Pisa/IT)

2701.4 Image-guided ablation can replace surgery in resectable HCC: con
V. Mazzaferro (Milan/IT)

Panel discussion

Closing remarks by the moderator

## CIRSE meets ...

**Germany** 



The German Society of Interventional Radiology and Minimally Invasive Therapy (DeGIR) is particularly focusing on further developing the content of interventional radiology as well as on supporting all radiologists working in this sub-speciality. Among other approaches, this should be achieved by supporting advanced training in IR, developing and disseminating methodical recommendations for interventional procedures and by informing about economic aspects related to interventional treatment.

## Sunday, September 11, 10:00-11:00 Room 14a

Moderators: T.K. Helmberger (Munich/DE), J. Tacke (Passau/DE)

Introduction by the moderators

## **Professional policies**

D. Vorwerk (Ingolstadt/DE)

Quality management, software tools for quality assurance

L.J.G. Heuser (Bochum/DE)

## Continuing education, certification

P. Reimer (Karlsruhe/DE)

Panel discussion with A. Buecker (DRG), J.H. Peregrin (CIRSE) and M.F. Reiser (ESR)



The "CIRSE meets ..." programme proved to be an important platform for establishing and strengthening the relations between CIRSE and its distinguished Group Members - the National Societies in the field of interventional radiology. Experts from various regions around the world have provided interesting insights into the current status of interventional radiology as well as the state of specific procedures and conditions in their home country.





At CIRSE 2011 a delegation of distinguished members of the German Society of Interventional Radiology and Minimally Invasive Therapy and the Interventional Radiology Society of Australasia will present topics of special importance to IR in Germany and Australia/New Zealand, including latest developments and the treatment of frequently occurring conditions.

## **Hands-on Workshops**

The participants of hands-on workshops may follow live demonstrations of interventional techniques and practice certain procedures under the guidance of an instructor and/or technician.

Due to limited space and high demand, participants are advised to register for the Hands-on Workshops in advance. Should you not have pre-registered but are interested in participating, please arrive at the respective workshop rooms well in advance to check availability.

## A closer look at closure devices

Coordinators: L. Lønn (Copenhagen/DK), J. Tacke (Passau/DE) Instructors: A. Altenburg (Wuppertal/DE), T. Larzon (Örebro/SE), J.C. van den Berg (Lugano/CH)

This workshop will deal with the use of arterial closure devices after endovascular procedures.

An overview of the currently available devices will be given. Indications and contraindications for their use, results and complications will be described to build a solid knowledge base for the participants, on which they can successfully develop their individual experience in the catheterization service. The focus will be on how to handle the various types of equipment available.

By the end of the workshop the participants should have a good understanding of the spectrum of concepts and be aware of key clues for clinical application.

## **Learning objectives**

- To describe a proper arterial puncture technique and the indications and contraindications of arterial closure devices after endovascular procedures
- To describe an overview of the currently available devices on the market
- To report the results and the complications of current available techniques

CD-HoW 1 Saturday, September 10

14:15-15:45

CD-HoW 2 Sunday, September 11

16:30-18:00

CD-HoW 3 Monday, September 12

16:15-17:45

## Location

Room 21

Please note that participants need to register in advance at an extra cost of  $\in$  60.

The Hands-on Workshop "A closer look at closure devices" is kindly supported by:

- Cordis
- MAQUET Cardiovascular
- St. Jude Medical

### **Embolization: materials and tools**

Coordinators: M.J. Lee (Dublin/IE), S.J. McPherson (Leeds/UK)



This Hands-on Workshop on embolization will deal with the use of common embolic agents such as coils, plugs, glue and onyx.

The sessions will cover the basic principles of embolization, the different types of embolics available, how to choose an appropriate embolic agent and how to avoid non-target embolization. The emphasis of the session will be primarily on a handson practical approach where participants can handle the various agents mentioned or perform embolization with them.

## Learning objectives

- To learn the basic principle of embolisation
- To become familiar with four common embolic agent categories
- To choose an appropriate embolic agent
- To correctly use the agent chosen
- To avoid non-target embolisation

EMT-HoW 1 Sunday, September 11

Coils & plugs 16:30-18:00

Instructors: L. Boyer (Clermont Ferrand/FR), J. Golzarian (Minneapolis, MN/US), P.J. Haslam (Newcastle-upon-Tyne/UK), H.-J. Wagner (Berlin/DE), E.M. Walser (Jacksonville, FL/US)

EMT-HoW 2 Monday, September 12

Coils & plugs 16:15-17:45

Instructors: J. Golzarian (Minneapolis, MN/US), P.J. Haslam (Newcastle-upon-Tyne/UK), H. Hoppe (Bern/CH), H.-J. Wagner (Berlin/DE), E.M. Walser (Jacksonville, FL/US)



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EMT-HoW 3 Tuesday, September 13

Onyx & glue 16:15-17:45

Instructors: T. Buckenham (Christchurch/NZ), T. Fotheringham (London/UK), P.P. Goffette (Brussels/BE), H. Manninen (Kuopio/FI), L. Spelle (Paris/FR)

### Location

Room 22

Please note that participants need to register in advance at an extra cost of  $\in$  60.

## The Hands-on Workshop "Embolization: materials and tools" is kindly supported by:

- AGA Medical Deutschland GmbH
- Boston Scientific
- Cook Medical
- ev3 Europe
- GEM s.r.l.
- Guerbet
- Terumo Europe

## **Hands-on Masterclasses**

Coordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK)



Simulation will feature at CIRSE 2011 again in four Handson Masterclasses all of which will be related to the overall scientific programme.

## The themes of the CIRSE 2011 Hands-on Masterclasses will be:

EVAR keys to success

This session will concentrate on device selection, patient selection and core principles.

· Principles of embolization

Core principles of embolic material selection will focus on key tips and techniques for safe and effective embolization with PVA and coils.

Managing critical limb ischaemia

This session will focus on the assessment of treatment options, techniques and pitfalls.

· Principles of angioplasty and stenting

The session will focus on technique selection, patient selection and core principles.

Each masterclass will emphasize small group interactive training. In the beginning, there will be a round table structured, themed discussion. Following this, groups of delegates will move to the simulators for an hour of hands-on experience, performing cases while working in turn as "operator", "assistant" and "assessor".

The session timings are shown below:

## HoM 1 EVAR keys to success

Saturday, September 10 09:10-13:00

Session organizers: J.V. Patel (Leeds/UK), J.D.G. Rose (Newcastle-upon-Tyne/UK)

Instructors: R.G. McWilliams (Liverpool/UK), G.J. Robinson (Hull/UK)

HoM 1.1 (group 1): 09:10-10:00 discussion

10:00-11:00 simulation (Mentice + Simbionix)

HoM 1.2 (group 2): 11:10-12:00 discussion 12:00-13:00 simulation (Mentice + Simbionix)

Kindly note that experience of EVAR is required to participate in this session.

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### Learning objectives

At the conclusion of the Masterclass, delegates should be able to

- discuss patient selection with regard to clinical criteria and to aortic morphology
- outline a strategy for matching each patient to an appropriate device
- understand the deployment techniques required for standard infra-renal EVAR
- develop a systematic approach to intra- and peri-procedural endoleaks
- develop a systematic approach to inadvertent branch vessel occlusion
- develop a systematic approach to limb occlusion
- discuss the optimal set-up of an EVAR theatre facility
- discuss the organisational issues related to the multidisciplinary EVAR team

## HoM 2 Principles of embolization

Sunday, September 11

09:10-13:00

Session organizers: T.J. Kroencke (Berlin/DE), J.-P. Pelage (Boulogne/FR)

Instructors: N.H. Kisilevzky (São Paulo/BR), P.N.M. Lohle (Tilburg/NL)

HoM 2.1 (group 3):

09:10-10:00 discussion

10:00-11:00 simulation (Mentice + Simbionix)

HoM 2.2 (group 4):

11:10-12:00 discussion

12:00-13:00 simulation (Mentice + Simbionix)

No first operator experience is required to participate in this session.

## Learning objectives

- To get familiar with basic techniques of embolisation
- To learn about embolic agents and their typical indication for use
- To learn which questions need to be answered before starting a case
- To get hands-on experience by performing cases on a simulator under the supervision of well recognised experts in this field.

## НоМ 3

## Monday, September 12

## Managing critical limb ischaemia

09:10-13:00

Session organizers: N. Chalmers (Manchester/UK), D.F. Ettles (Hull/UK) Instructors: R. Lakshminarayan (Hull/UK), S.J. McPherson (Leeds/UK)

HoM 3.1 (group 5):

09:10-10:00 discussion

10:00-11:00 simulation (Mentice + Simbionix)

HoM 3.2 (group 6):

11:10-12:00 discussion

12:00-13:00 simulation (Mentice + Simbionix)

Kindly note that core experience of angioplasty and stenting is required to participate in this session.

### Learning objectives

- To learn about the characteristics of arterial disease associated with CLI
- To become familiar with approaches to diagnostic imaging and percutaneous intervention
- To get to know equipment for below-knee intervention
- To learn about the techniques for crossing occlusions
- To understand the role of drug eluting balloons and stents

### HoM 4

**Tuesday, September 13** 

Principles of angioplasty and stenting

09:10-13:00

Session organizers: T. Buckenham (Christchurch/NZ), I.N. Gillespie (Edinburgh/UK) Instructors: H.M. Ireland (Edinburgh/UK), G. van Schie (Cottesloe, WA/AU)

HoM 4.1 (group 7): 09:10-10:00 discussion 10:00-11:00 simulation (Mentice + Simbionix)

HoM 4.2 (group 8):

11:10-12:00 discussion

12:00-13:00 simulation (Mentice + Simbionix)

No first operator experience is required to participate in this session.

## **Learning objectives**

- Who to treat and risk factor management
- What to tell the patient the process of informed consent
- What to use essential equipment
- How to treat intra vs extralumenal angioplasty and decision to stent
- What are the results clinical outcomes of angioplasty
- How to avoid or deal with complications

## Location

Simulator Gallery (Training Village B0)

Each group will consist of 8-12 participants. Kindly note that participants need to register in advance at an extra cost of  $\in$  60.

## The "Hands-on Masterclasses" are kindly supported by:

- Mentice
- · Simbionix



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### **IVC filters**

Coordinators: M.R. Sapoval (Paris/FR), A.F. Watkinson (Exeter/UK) Instructors: F.G. Barral (Saint Etienne/FR), M.A. de Gregorio (Zaragoza/ES), P. Larini (Parma/IT), O. Pellerin (Paris/FR)



IVC filters are widely used in Europe. The technical features of the filters have advantages and disadvantages, which make them either more or less difficult to retrieve/convert. Serious complication can arise when doing inappropriate manoeuvres or when the IR wants to persist in difficult/challenging cases.

The workshop will start with a 10 min introduction focused only on the technical features of the filters available in the room. Participants will then have the opportunity to test the filters on models, with the help of experts who will be on hand.

This workshop is aimed at vascular IRs who perform IVC filter placement and want to learn the specific techniques of filter extraction/conversion.

## **Learning objectives**

- To learn the basic technical features of IVC filters
- To practice the step by step technique for extraction/conversion
- To learn technical tips and tricks

IVC-HoW 1 Saturday, September 10

13:00-14:00

IVC-HoW 2 Sunday, September 11

11:30-12:30

IVC-HoW 3 Monday, September 12

11:30-12:30

Location

Room 22

Please note that participants need to register in advance at an extra cost of  $\in$  60.

## The Hands-on Workshop "IVC filters" is kindly supported by:

- ALN Implants Chirurgiaux
- B. Braun Medical
- Cook Medical
- Cordis

## **Stroke therapy**

Coordinators: J. Berkefeld (Frankfurt/DE), K.A. Hausegger (Klagenfurt/AT)

Instructors: J. Gralla (Bern/CH), T. Liebig (Cologne/DE), S. Rohde (Heidelberg/DE), C. Taschner (Freiburg/DE)



An increasing number of interventional radiologists are involved in intra-arterial stroke therapy as an upcoming therapeutic concept in acute cerebral stroke. Local thrombolysis as well as mechanical thrombectomy seem to have great potential. Several devices are on the market for thrombectomy of the intracranial arterial circulation.

During this workshop participants will have the opportunity to test several devices specifically designed for intracranial thrombectomy on a flow model under the supervision of well recognised experts in this field.

## Learning objectives

- To get to know the principles of intracranial thrombectomy
- To become familiar with different devices
- To learn technical tricks for different devices
- To learn to set the right indication for intracranial thrombectomy

ST-HoW 1 Monday, September 12

14:00-15:30

ST-HoW 2 Tuesday, September 13

08:30-10:00

Location

Room 11

Please note that participants need to register in advance at an extra cost of  $\in$  60.

## The Hands-on Workshop "Stroke therapy" is kindly supported by:

- Acandis
- Concentric Medical
- ev3 Europe
- Penumbra Europe GmbH

**Hands-on Workshops** 

## **Tumour ablation: tips and tricks**

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT)

This hands-on workshop will give you the opportunity to participate in interactive sessions with experts in the field of ablation based on case presentations. You will be able to access all available ablation systems (RFA, cryotherapy, microwave ablation, electroporation) in a single location as well as a phantom for ultrasound guided puncture.

The first two workshops are specifically tailored for people with no or very little experience in ablation who want to start their practice.

Subsequent workshops will each target a different organ in order to address the most challenging cases in daily practice through approaches and methods that can improve the outcome or decrease the chances of complications.

TA-HoW 1 Saturday, September 10

Starting your practice 11:15-12:45

Instructors: D.K. Filippiadis (Athens/GR), G.J. Munneke (London/UK), S. Roy-Choudhury (Birmingham/UK)

TA-HoW 2 Saturday, September 10

Starting your practice 14:15-15:45

Instructors: X. Buy (Strasbourg/FR), R.-T. Hoffmann (Dresden/DE), P.L. Pereira (Heilbronn/DE)

## Learning objectives

- To understand the basic principles of various ablation techniques, including frictional heating, heat diffusion and heat convection
- To know the technical basis of various probes, antenna and systems including endpoints and monitoring parameters
- To discuss how to handle different equipment available for tumour ablation
- By the end of the workshops the participants should have a good understanding of a range of ablation techniques and be aware of tips and tricks for proper clinical application

TA-HoW 3 Sunday, September 11

Liver 12:45-14:15

Instructors: R. Bale (Innsbruck/AT), A. Gillams (London/UK), O. Seror (Bondy/FR)

TA-HoW 4 Sunday, September 11

Liver 16:30-18:00

Instructors: T. Albrecht (Berlin/DE), J. Evans (Liverpool/UK), G. Tsoumakidou (Athens/GR)

## Learning objectives

- To discuss how to handle different equipment for tumour ablation in liver
- To know predictive factors of success and failure of liver ablation and other ablation techniques, in order to be able to define best indication
- To know main reported complications of liver tumour ablation and the basics for the prevention and treatment of such complications

By the end of the workshops the participants should have a good understanding of a range of ablation techniques in the liver and be aware of tips and tricks for proper clinical application

TA-HoW 5 Monday, September 12

16:15-17:45 Lung

Instructors: L. Crocetti (Pisa/IT), R.F. Grasso (Rome/IT), J. Palussière (Bordeaux/FR)

## **Learning objectives**

- To discuss how to handle different equipment for tumour ablation in lung
- To know predictive factors of success and failure of lung ablation and other ablation techniques, in order to be able to define best indication
- To know main reported complications of lung ablation and the basics for the prevention and treatment of such complications
- By the end of the workshops the participants should have a good understanding of a range of ablation techniques in the lung and be aware of tips and tricks for proper clinical application

TA-HoW 6 **Tuesday, September 13** 

Kidney 16:15-17:45

Instructors: X. Buy (Strasbourg/FR), F. Deschamps (Villejuif/FR)

## Learning objectives

- To discuss how to handle different equipment for tumour ablation in kidney
- To know predictive factors of success and failure of kidney ablation and other ablation techniques, in order to be able to define best indication
- To know main reported complications of kidney ablation and the basics for the prevention and treatment of such complications
- By the end of the workshops the participants should have a good understanding of a range of ablation techniques in the kidney and be aware of tips and tricks for proper clinical application

## Location

Room 5

Please note that participants need to register in advance at an extra cost of € 60.

## The Hands-on Workshop "Tumour ablation: tips and tricks" is kindly supported by:

- · ActiViews Ltd.
- AngioDynamics
- · Boston Scientific
- Celon AG Olympus Surgical Technologies Europe
- CIRS Tissue Simulation & Phantom Technology / GCTechnology GmbH
- Covidien AG
- Galil Medical
- Gammex
- HS Hospital Service S.p.A.
- Perfint Healthcare Pvt. Ltd.
- RF Medical Co Ltd.
- Siemens Healthcare

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## Varicose veins

Coordinators: C.A. Binkert (Winterthur/CH), K.D. McBride (Dunfermline/UK) Instructors: J.A. Kaufman (Portland, OR/US), L. Oguzkurt (Adana/TR), D.J. West (Stoke-on-Trent/UK)

Endovenous thermal ablation of varicose veins is well suited for interventional radiologists. IRs have all the necessary skills to provide good care for patients with varicose veins: patient evaluation, diagnostic duplex ultrasound, venous access under ultrasound guidance and catheterbased intervention.

Unfortunately many IRs are not yet familiar with these devices. This hands-on workshop gives an opportunity to get familiar with the currently available ablation devices including the handling of different fibres and probes and the corresponding generators. Participants will learn how to use these devices in order to get started with a venous ablation practice.

## Learning objectives

- To learn about the two main methods for endovenous ablation: laser and radiofrequency
- To get familiar with the setup needed to perform endovenous ablation
- To get practical experience with different devices

VV-HoW 1 Sunday, September 11

08:30-09:30

VV-HoW 2 Tuesday, September 13

11:30-12:30

## Location

Room 21

Please note that participants need to register in advance at an extra cost of  $\in$  60.

## The Hands-on Workshop "Varicose veins" is kindly supported by:

- AngioDynamics
- biolitec AG
- Celon AG Olympus Surgical Technologies Europe
- Covidien Switzerland Ltd.

## Vertebral augmentation techniques

Coordinators: A. Gangi (Strasbourg/FR), T. Sabharwal (London/UK)



Percutaneous vertebroplasty is a novel technique in which acrylic cement is injected through a needle into a collapsed or weakened vertebra to stabilise the fracture. This procedure is effective for treating certain types of painful vertebral compression fractures and some painful or unstable benign and malignant vertebral lesions that fail to respond to the conservative therapies.

Kyphoplasty is an adaptation of vertebroplasty. High pressure balloons are inserted into the vertebral bodies and enable the creation of a cavity into which cement can be safely injected.

Stentoplasty is a further adaptation of vertebroplasty and kyphoplasty. It is a new technique recently developed that involves placing a metal stent (cage) within the collapsed vertebral body and then expanding this to try and enable some height restoration before filling that cavity created with cement.

Continued from the past CIRSE congresses, this workshop will give an insight into the principles and techniques of these procedures. It will start with a theoretical introduction and a brief review of the principles and indications. This will be followed by a hands-on demonstration. Participants will then have the opportunity to practice needle placement, cement preparation and injection on plastic spine models under fluoroscopic guidance.

## **Learning Objectives**

- To understand the basic principles and receive a literature update on the procedures
- To practice and learn needle placement into a spinal vertebral body model under fluoroscopic guidance and then, in some cases, placement of a balloon/stent
- To learn and practice cement preparation and injection under fluoroscopic guidance

VAT-HoW 1 Sunday, September 11

Vertebroplasty 10:30-12:30

Instructors: J. Garnon (Strasbourg/FR), G. Tsoumakidou (Athens/GR)

VAT-HoW 2 Sunday, September 11

Vertebroplasty & kyphoplasty

16:00-18:00

Instructors: C.A. Binkert (Winterthur/CH), J. Garnon (Strasbourg/FR)

VAT-HoW 3 Tuesday, September 13

Vertebroplasty & stentoplasty

16:00-18:00

Instructors: J. Garnon (Strasbourg/FR), G. Tsoumakidou (Athens/GR)

## Location

This year, the workshop will be held in the congress centre.

All participants are asked to arrive at the meeting point in the main registration area 15 minutes before the start of each session.

Please note that participants need to register in advance at an extra cost of  $\in$  60.

## The Hands-on Workshop "Vertebral augmentation techniques" is kindly supported by:

- Europrotex
- MAVIG GmbH
- OptiMed Medizinische Instrumente GmbH
- Philips Healthcare
- Stryker
- Synthes GmbH



Munich 2011 The Orcamp experience 49

## The Orcamp experience

Experience team training in a simulated OR environment!

Sign up for the unique opportunity of the next level of education and interaction with your colleagues in a real life training environment – the Orcamp.

## The training opportunity

CIRSE delegates will have the possibility to train on specific topics such as **Uterine Artery Embolization (UAE)**, **Critical Limb Ischemia (CLI)** and **Superficial Femoral Artery (SFA)** (performed on a Mentice VIST-C), in life-like situations in dedicated sessions, led by proctors from the CIRSE faculty in the Orcamp Cathlab environment. The actual training equipment in the Orcamp includes a C-arm, control panel, operating table and monitors and skills, life support and trauma patient simulators. The patients are a high fidelity procedural VR simulator; the VIST® -C, developed by Mentice and the SimMan® 3G; a realistic, adult full body patient simulator, developed by Laerdal.

Learning objectives:

- · Manage to get optimal images for the chosen anatomy
- · Image management
- · Radiation protection and radiation safety
- · Identifying optimal angles
- · Procedural steps based on recommended guidelines
- Decision on how to treat the patient
- · Choice of devices
- Communication with team members

Orcamp is an advanced simulation tool for training and assessment in a highly realistic Cathlab environment, with hybrid OR functionality. By simulating real equipment in combination with life-like medical simulations, the goal is to teach realistic interventional radiology behaviour, both for the team and the individual operator. The Orcamp environment also includes a video setup, with team-, image detector, possibilities to record the operation screens with technology combined into a camrecording server for assessment/debriefing after the sessions.

There will be a total of **12 Orcamp training sessions** at CIRSE 2011:

Saturday, September 10

11:30, 13:30, 15:30

**Superficial Femoral Artery (SFA)** 

Sunday, September 11

11:30, 13:30, 15:30

**Uterine Artery Embolization (UAE)** 

in collaboration with the Hands-on Masterclasses

Monday, September 12

11:30, 13:30, 15:30

Critical Limb Ischemia (CLI)/BTK

in collaboration with the Hands-on Masterclasses

Tuesday, September 13

11:30, 13:30, 15:30

Critical Limb Ischemia (CLI)/BTK

Each session will last approx. 60 minutes.

To sign up for sessions please register onsite with Orzone staff at the Orcamp booth nearby the Simulator Gallery and the Society Lounge in the Training Village B0.

PLEASE NOTE that Orcamp is an Orzone product unrelated to CIRSE. Orzone is a participant at CIRSE 2011 under the terms and conditions applicable to all technical exhibitors.





CIRSE FACULTY PROCTORS in Orcamp environment at CIRSE 2010, Valencia.

## **Workshops for radiographers**

Interventional radiology is very much a team effort.

Optimal patient care can only be delivered if both the physician and the other team members such as the radiographers are well trained and highly professional in what they do.

A growing number of radiographers working in the field of interventional radiology attend the annual CIRSE congress. In order to cater to this development, CIRSE and the European Federation of Radiographer Societies (EFRS) are once more organising four workshops especially designed for radiographers and nurses.

All EFRS workshops take place in Room 4b.

## Saturday, September 10

14:30-15:30

e-voting

RWS 509 EFRS Workshop 1

Education and training for interventional radiographers: one size does not fit all

509.1 *J. McNulty (Dublin/IE)* 509.2 *M.-L. Butler (Dublin/IE)* 

## **Learning objectives**

After active participation in this workshop, including through the use of interactive polling technology, attendees will have gained knowledge and understanding of:

- the issues surrounding the education and training of radiographers in the interventional arena
- the challenges presented by the range of roles undertaken by interventional radiographers across Europe
- the potential benefits of further education and training in terms of patient care and service delivery
- the importance of continuous professional development in the area of radiation protection for interventional radiographers
- an E-learning approach to the delivery of radiation protection training in this area

## Sunday, September 11

17:45-18:45

RWS 1406 EFRS Workshop 2

The use of E-learning in training radiographers in interventional radiology

1406.1 *I.-C. Slingsby (Vienna/AT)* 

### Learning objectives

After active participation in this workshop/presentation attendees will have gained knowledge and understanding of:

- the theoretical benefits of E-learning techniques when applied to medical and educational training
- an E-learning module for teaching sterile techniques, materials and methods
- directly learning using this method with workshop participants providing the answers in the E-learning module during a live demonstration

and will be able to:

 understand the benefits and limitations of using E-learning to train the next generation of radiographers



A series of four workshops organised in cooperation with the



## Monday, September 12

18:00-19:00

RWS 2206 EFRS Workshop 3

Patient safety in interventional radiology

2206.1 *J. Lutjeboer (Leiden/NL)*2206.2 *B. Dam (Leiden/NL)* 

## Learning objectives

After active participation in this workshop/presentation attendees will have knowledge and understanding of:

- the importance of patient preparation
- the use of digital orders in patient preparation for interventional procedures
- which patient conditions must be checked before an interventional procedure
- the role of the interventional radiographer in the time-out procedure in the intervention suite (discussion)
- what the interventional radiographer should know about hemostasis, nephropathy and allergy (interactive voting session on patient safety with respect to hemostasis and nephropathy using case report examples)

## **Tuesday, September 13**

17:00-18:00

RWS 2906 EFRS Workshop 4

Interventional neuroradiology – the role of the radiographer

2906.1 H. Šauperl (Maribor/SI) 2906.2 S. Klampfer (Maribor/SI)

## **Learning objectives**

After active participation in this workshop/presentation attendees will have knowledge and understanding of:

- the purpose of proper training in all steps of interventional neuroradiological procedures (collaboration with neuroradiologists and participation in the team)
- selecting the ideal protocol on the modality according to the requested radiological procedure (fluoroscopy mode, radiography mode, number of frames, collimation etc.)
- the importance of proper and responsible use of contrast media

## **Foundation Courses**

Foundation 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, new consultants and/or experienced consultants who require a refresher course on the

subject. There will be plenty of time for questions and discussion. Each session lasts one hour. This year the courses will cover the topics "Transcatheter Embolization" and "Non-Vascular Interventions".

## The Essentials of Transcatheter Embolization

## Saturday, September 10

FC 101	08:30-09:30 Postpartum haemorrhage	Room 14a	FC 301	11:30-12:30 Haemoptysis	Room 14a
	Moderator: N. McEniff (Dublin/IE)			Moderator: O.M. van Delden (Amst	terdam/NL)
101.1	Aetiology, common causes and when to embolize  JP. Pelage (Boulogne/FR)		301.1	Imaging of haemoptysis <i>MF. Carette (Paris/FR)</i>	
101.2	Placement of prophylactic occlusion balloons: why, when, how?		301.2	Bronchial artery angiography: rel A. Buecker (Homburg/DE)	evant anatomy
101.3	AM. Belli (London/UK)  How to embolize postpartum haemorrhage: embol-		301.3	Bronchial artery embolization: how I do it  K. Malagari (Athens/GR)	
	ics and technique A.C. Roberts (La Jolla, CA/US)		301.4	Pulmonary artery embolization: h F.S. Keller (Portland, OR/US)	now I do it
101.4	Is embolization always successful? - How to avoid failure				
	M. Szczerbo-Trojanowska (Lublin/PL)			Sunday, September 11	
				08:30-09:30	
FC 201	10:00-11:00 The role of IR in the trauma unit	Room 14a	FC 801	UFE	Auditorium 1
FC 201	The fole of the in the tradina diffe	ROOM 14a		Moderator: G.M. Richter (Stuttgart,	/DE)
	Moderator: P.E. Andersen (Odense/DK)				
201.1			801.1	Imaging pre- and post-UFE	
201.1	Polytrauma imaging: how to do it and what to look for		801.2	T.J. Kroencke (Berlin/DE) Periprocedural pain managemen	+
	P. Vilares Morgado (Porto/PT)		001.2	C.A. Binkert (Winterthur/CH)	·
201.2	Thorax and supra-aortic vessels		801.3	Technique, choice of embolics and how to know	
	S.J. McPherson (Leeds/UK)			when to stop	
201.3	Abdominal solid organ trauma			J. Spies (Washington, DC/US)	
	C. De Vries (Bloemfontein/ZA)		801.4	How to avoid complications	
201.4	Pelvic bleeding: who needs treating and how to do it  W. Jaschke (Innsbruck/AT)			J.A. Reekers (Amsterdam/NL)	



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## The Essentials of Non-Vascular Interventions

	Sunday, September 11			Monday, September 12	
	10:00-11:00			08:30-09:30	
FC 901	Management of abdominopelvic fluid collections	Room 13b	FC 1601	Management of vertebral fractures	Room 14a
				Moderator: J.A. Carrino (Baltimore, MD/US)	
	Moderator: P. Vilares Morgado (Porto/PT)		1601.1		
901.1	Dringiples of drainage, anatomy tools a	nd toch	Clinical and imaging inclusion criteria  A.D. Kelekis (Athens/GR)		
901.1	, , , , , , , , , , , , , , , , , , , ,		1601.2	Vertebral augmentation	
	niques HU. Laasch (Manchester/UK)		1001.2	A. Gangi (Strasbourg/FR)	
901.2				What can go wrong?	
301.2	M.J. Lee (Dublin/IE)		1601.3	T. Sabharwal (London/UK)	
901.3	Deep pelvic collections: access and tech	nique	1601.4	Clinical results and future developments	s
201.5	D.E. Malone (Dublin/IE)	iiique	1001.1	G.C. Anselmetti (Candiolo/IT)	,
901.4	Management of hepatic and renal cysts	;			
	O. Akhan (Ankara/TR)				
				10:00-11:00	
			FC 1701	Renal interventions	Room 14a
	11:30-12:30				
FC 1001	Management of benign biliary disease	Room 14b		Moderator: HJ. Wagner (Berlin/DE)	
	·		1701.1	CT and MR urography: what do they add to ultra-	
	Moderator: A. Adam (London/UK)			sound?	
			1701.2	C. Nolte-Ernsting (Mülheim/DE)	
1001.1	MRCP techniques in benign biliary disease			Techniques for access to the non-dilated system	
	P. Reimer (Karlsruhe/DE)			U. Patel (London/UK)	
1001.2	Techniques to access the non-dilated biliary tract		1701.3	How to manage the renal transplant ob	struction
	H. van Overhagen (The Hague/NL)			and leak	
1001.3	How to manage benign strictures and calculi		4704.4	J.H. Peregrin (Prague/CZ)	
10011	A. Hatzidakis (Iraklion/GR)		1701.4	Leaks, fistulas and postoperative complications	
1001.4	How to manage bile leaks and postsurg cations  D.F. Martin (Manchester/UK)	Jicai compli-		P.J. Haslam (Newcastle-upon-Tyne/UK)	
	D.I. Martin (Manchester/ON)				

## Workshops

## Saturday, September 10

14:30-15:30

## WS 501 How to get started with UFE

Room 14a

T.J. Kroencke (Berlin/DE), P.N.M. Lohle (Tilburg/NL)

- 1. To learn how to setup a clinical practice
- 2. To learn how to select the best patients
- 3. To learn about other treatment options
- 4. To become familiar with the clinical presentation of different types of fibroids

## WS 502 Embolization of complex lesions (AVMs, complex aneurysms, high flow fistulas)

Room 13b

H.T. Abada (Lexington, KY/US), M. Köcher (Olomouc/CZ)

- 1. To review the clinical and imaging evaluation of complex vascular lesions
- 2. To review the techniques of embolization and tips and tricks with cases
- 3. To review the results and complications

### WS 503 Endovascular treatment of intracranial aneurysms and AVMs

Room 2

J.G. Moret (Clichy/FR), I. Saatci (Ankara/TR)

- To understand the main endovascular treatment principles of the aneurysms and AVMs in different clinical settings under the light of recent revolutionary changes
- To learn about different endovascular treatment tools and intraoperative medical management in aneurysms and AVMs
- To understand how treatment approaches would differ in unruptured cases compared to ruptured cases
- 4. To learn about most recent endovascular tools like stent assisted treatment and flow divertors in aneurysms and detachable tip catheters and onyx in AVMs

## WS 504 Ablation for renal and bone tumours

Room 4a

D.K. Filippiadis (Athens/GR), A. Veltri (Orbassano/IT)

- 1. To illustrate the indications, techniques and devices used in renal and bone RF
- 2. To discuss, with clinical cases, tips and tricks in renal and bone RF
- 3. To report, with clinical cases, on strategies to enhance the results and keep the complication rate low

## WS 505 Dialysis access at risk: what can IR do about it?

Room 14c

L. Boyer (Clermont Ferrand/FR), R.H. Portugaller (Graz/AT)

- 1. To understand the basics of complicated access imaging
- 2. To learn the main indications of angioplasty of native fistula and grafts
- 3. To learn about different thrombectomy and aspiration techniques
- 4. To show cases representative of the indications for stenting



## WS 506 TIPS: tips and tricks for bleeding, ascites, Budd Chiarri and portomesenteric vein thrombosis

Room 13a

Z. Haskal (Baltimore, MD/US), S. Olliff (Birmingham/UK)

- 1. To review the indications, pre-TIPS imaging and clinical evaluation
- 2. To familiarize the technique and present tips and tricks for the beginner
- 3. To review techniques for the patient with Budd Chiarri and portomesenteric thrombosis
- 4. To describe post TIPS care and imaging follow-up

WS 507 SFA Room 14b

A.L. Jacob (Basel/CH), N. Ptohis (Athens/GR)

- 1. To get familiar with clinical evaluation, conservative therapy and when to use it and different imaging strategies (ultrasound, CTA, MRA and angiography)
- 2. Endoluminal recanalization: to learn how to stay within the lumen, when plain old angioplasty is enough, strategies for stenting (long vs. short, different stent designs)
- 3. Subintimal recanalization: to learn how to get subintimal and especially how to get back in the lumen, to get familiar how and when to get subintimal on purpose and the role of stenting in subintimal recanalization
- 4. To describe the different tools currently available for difficult SFA recanalizations and to review their outcomes

## WS 508 Percutaneous vertebral augmentation: vertebroplasty, kyphoplasty, vertebral body stenting

Room 3

D. Kasper (Phoenix, AZ/US), S. Masala (Rome/IT)

- 1. To descibe techniques for vertebral augmentation
- 2. To present challenging technical aspects
- 3. To discuss different tools for vertebral augmentation
- 4. To portray new percutaneous devices for spine treatment

## Sunday, September 11

17:45-18:45

## WS 1401 UFE advanced workshop

Room 14b

J.-P. Pelage (Boulogne/FR), J. Spies (Washington, DC/US)

- 1. To learn about the differences of different embolic agents
- 2. To learn to judge the best embolization endpoint
- 3. To learn how to minimize radiation
- 4. To become familiar with the issue of UFE and fertility

## WS 1402 Revascularization tips in acute stroke management: interactive discussion

Room 2

I.Q. Grunwald (Oxford/UK), D. Vorwerk (Ingolstadt/DE)

- To learn from both experts about the tips and tricks of endovascular cerebral revascularization techniques interactively
- 2. To understand endovascular tool selection based on patient
- 3. To learn when pharmacological and when mechanical approach should be selected
- 4. To learn how to avoid complications

## WS 2203 Radioembolization for beginners

Room 4a

G.J. Munneke (London/UK), T. Pfammatter (Zurich/CH)

- 1. How to set up a service for radioembolization of liver neoplasms based on examples
- 2. How to develop a clinical service of radioembolization: marketing tools tips and tricks
- 3. What results and complications should I expect at the beginning?
- 4. How to work with the radionuclide department: practical tools and issues



WS 2204 BTK vascular interventions: techniques and new tools for the skilled and the novice Room 13a

T.J. Cleveland (Sheffield/UK), T. Rand (Vienna/AT)

- 1. To review the indications for BTK revascularization
- 2. To learn how to decide which vessel to recanalize in relation to the patients symptoms
- 3. To learn PTA, stent, subintimal recanalization, and pedal PTA
- 4. To review the outcomes of different techniques

A. Adam (London/UK), B.S. Tan (Singapore/SG)

WS 2205 Biliary obstruction

Room 2

- 1. To review the indications in malignant and benign conditions
- 2. To teach step-by-step the techniques for initial puncture/lesion crossing
- 3. To teach when to use stents, catheters only, bilateral stenting in malignant and benign stenosis
- 4. To recognize the complications of biliary interventions and understand their treatment

## **Tuesday, September 13**

17:00-18:00

WS 2901 Pulmonary AVMs: how I do it

Room 13a

J.E. Jackson (London/UK), F. Melchiorre (Milan/IT)

- 1. Which pulmonary AVM are suitable for IR treatment?
- 2. Technique of treatment
- 3. How to manage complications
- 4. Outcomes of embolization

WS 2902 Trauma: what an IR should know to get started

Room 14a

- A.N. Chatziioannou (Athens/GR), M.B. Matson (Essex/UK)
- To learn about algorithms when to intervene
   To learn about different setups (personnel, location, communication)
- 3. To become familiar when to hurry and when to elaborate
- 4. To learn how to avoid complications

WS 2903 Advanced intra-arterial approaches for liver tumours

Room 14c

- J. Cynamon (New York, NY/US), J.S. Zager (Tampa, FL/US)
- 1. To illustrate techniques and devices used in intra-arterial approaches for liver tumours
- 2. To discuss clinical cases of intra-arterial approaches for liver tumours
- 3. Tips and tricks of liver intra-arterial approaches
- 4. To discuss complications of intra-arterial approaches for liver tumours

WS 2904 CAS for carotid lesions: when, why and how: a starter kit

Room 13b

- T. Jargiello (Lublin/PL), J. Namyslowski (Peoria, IL/US)
- 1. To describe the anatomic and clinical indications/contraindications
- 2. To familiarize with procedural technique
- 3. To learn about the choice of protection device and stents
- 4. To show complications and how to deal with them

## WS 2905 Management of endoleaks after EVAR

Room 14b

F. Thony (Grenoble/FR), A.H. Matsumoto (Charlottesville, VA/US)

- 1. To learn about the indications for treatment of endoleaks
- 2. To learn about the different treatment options
- 3. To learn about the results
- 4. To learn about failures and how these should be handled

## Wednesday, September 14

11:30-12:30

## WS 3201 Basic embolization techniques and tools

Room 13b

D. Karnabatidis (Patras/GR), M. Piotin (Paris/FR)

- 1. Describe temporary embolic agents
- 2. Describe permanent embolic agents
- 3. Describe the pitfalls of embolic agents
- 4. Describe basic embolization techniques

## WS 3202 IR treatment of postpartum haemorrhage

Room 13a

N. Hacking (Southampton/UK), N. McEniff (Dublin/IE)

- 1. To describe the etiology of post partum haemorrhage and the indications for embolization
- 2. To describe techniques of interventional management
- 3. To describe the results of interventional management
- 4. To show cases that went wrong

## WS 3203 How to start with embolization for benign prostatic hyperplasia

Room 4a

F.C. Carnevale (Sao Paulo/BR), J.M. Pisco (Lisbon/PT)

- 1. To review experimental and first clinical experience with prostatic embolization
- 2. To review technique(s) of prostatic embolization
- 3. To review embolic materials used for benign prostatic embolization
- 4. Complications and their management

## WS 3204 Varicocele and pelvic congestion treatment: a primer for IRs

Room 14b

F. Karnel (Vienna/AT), L. Machan (Vancouver, BC/CA)

- 1. To learn about the clinical presentation of varicocele and pelvic congestion syndrome
- 2. To learn about the different ways of embolization
- 3. To become familiar with the different reflux patterns causing pelvic congestion syndrome
- 4. Tips and tricks from the expert

## WS 3205 Ablation techniques for lung lesions

Room 2

P.L. Pereira (Heilbronn/DE), C.T. Sofocleous (New York, NY/US)

- 1. To define indications for ablation of primary and secondary lung cancer
- 2. To describe, with clinical cases, techniques of lung ablation
- 3. To present, with clinical cases, tips and tricks of lung ablation
- 4. To present, with clinical cases, the complications of lung ablation



## WS 3206 Challenges in TEVR for aortic dissection

Room 14c

H. Rousseau (Toulouse/FR), M. Schoder (Vienna/AT)

- 1. To learn how to select patients for TEVAR
- 2. To learn about the difference of treatment of acute and chronic dissections
- 3. To learn about the clinical results
- 4. To learn about the possible problems and complications

## WS 3207 TEVR: tips and tricks for the treatment of aneurysm, trauma and dissections

Room 3

M. Åkesson (Malmoe/SE), F. Fanelli (Rome/IT)

- 1. To learn how to select the proper device
- 2. To learn how to manage difficult access conditions
- 3. To learn about procedural differences depending on the disease
- 4. To learn about pitfalls and possible technical problems

## WS 3208 Varicose veins: ablation, sclerotherapy and ambulatory phlebectomy

Room 4b

F. Boyvat (Ankara/TR), K.D. McBride (Dunfermline/UK)

- 1. To learn when to do what
- 2. To become familiar with ablation techniques. To become familiar with the dosage and foaming of sclerotherapy
- 3. To become familiar with the technique of ambulatory phlebectomy
- 4. To learn about the complication of ancillary therapies

## WS 3209 Venous access

Room 14a

B. Gebauer (Berlin/DE), E.M. Walser (Jacksonville, FL/US)

- 1. To learn how to setup a venous access service
- 2. To learn tips and tricks for safe central venous access
- 3. To learn about the differences of pharmacological vs. mechanical thrombolysis of occluded AV fistulas
- 4. To learn about different treatments of venous outflow lesions

## **Satellite Symposia**

(in alphabetical order)

### **Abbott Vascular**

13:00-14:00

## SY 1101 Sunday, September 11

**Auditorium 1** 

**Advancing lower limb treatment** 

Moderator: F. Fanelli (Rome/IT)

1101.1 Bravissimo: experience with balloon and self-expandable stents in iliacs - 12 month results M. Bosiers (Dendermonde/BE)

1101.2 SFA: PTA or stenting - 5 year results

H. Schroe (Genk/BE)

1101.3 The next revolution in treating infra-popliteal lesions: bioresorbable vascular scaffold D. Scheinert (Leipzig/DE)

**AGA Medical Corporation** Now a part of St. Jude Medical

17:45-18:45

## SY 1407 Sunday, September 11

Room 14a

Evidence-based embolization with the AMPLATZER® Family of Vascular Plugs

## **AngioDynamics**

11:30-12:30

## SY 1801 Monday, September 12

Room 14c

Irreversible electroporation: clinical experience, outcomes, and applications of this emerging focal ablation modality

Moderator: R. Lencioni (Pisa/IT)

- 1801.1 Irreversible electroporation (IRE): what is it, how is it different, and what role can it play? R. Lencioni (Pisa/IT)
- 1801.2 Safety and efficacy of irreversible electroporation (IRE) in the treatment of primary HCC V. Vilgrain (Clichy/FR)
- 1801.3 Non-thermal ablation using irreversible electroporation (IRE): U.S. clinical experience R.C. Martin (Louisville, KY/US)

## **ArtVentive**

08:00-08:20

## SY 2301 Tuesday, September 13

Room 2

ArtVentive EOS vascular occlusion device: first clinical experience in humans

Moderator: L. Rudakov (Carlsbad, CA/US)

2301.1 A. Venbrux (Washington, DC/US)



Munich 2011 Satellite Symposia 6

## **Bayer Healthcare**

13:00-14:00

## SY 401 Saturday, September 10

Room 14b

TACE and the evolving treatment paradigm in the management of intermediate HCC

Moderator: P.L. Pereira (Heilbronn/DE)

- 401.1 Current practice and technical evolution of TACE in the treatment of intermediate HCC *T. de Baère (Villejuif/FR)*
- 401.2 Potential rationale for systemic therapy with antiangiogenic properties in intermediate HCC *R. Lencioni (Pisa/IT)*
- 401.3 Advances in the treatment of intermediate HCC: systemic therapy with antiangiogenic properties used concomitantly with TACE

J.-F.H. Geschwind (Baltimore, MD/US)

Panel discussion

## **Biocompatibles**

07:45-08:20

## SY 701 Sunday, September 11

Room 4a

DC Bead® in HCC: survival update and combination therapy with Sorafenib

Moderator: R. Lencioni (Pisa/IT)

- 701.1 5-year survival follow-up of 100 HCC patients treated with DC Bead at BCLC: a retrospective analysis *M. Burrel (Barcelona/ES)*
- 701.2 Clinical results of a phase II trial of Sorafenib combined with drug-eluting bead, Doxorubicin (DEBDOX™) for patients with hepatocellular carcinoma *J.-F.H. Geschwind (Baltimore, MD/US)*

## **Boston Scientific**

13:00-14:00

## SY 1102 Sunday, September 11

Room 14c

TASC II vs. innovation: should practice be driven by the future or the past?

Moderator: T.J. Cleveland (Sheffield/UK)

Above the knee

1102.1 Good old surgery

E. Ducasse (Bordeaux/FR)

1102.2 Every lesion can be crossed

M. Åkesson (Malmoe/SE)

1102.3 Now I can treat every lesion

A. Schmidt (Leipzig/DE)

Panel discussion

Below the knee

1102.4 What does my surgeon want

M. Åkesson (Malmoe/SE)

1102.5 How distal can you go

A. Schmidt (Leipzig/DE)

1102.6 The stent dilemma

E. Ducasse (Bordeaux/FR)

Panel discussion

## **CeloNova BioSciences**

14:15-15:15

## SY 1903 Monday, September 12

Room 14b

New results and calibrated techniques for targeted embolization with Embozene® Microspheres

Moderators: A.-M. Belli (London/UK), P.E. Huppert (Darmstadt/DE)

1903.1 Embozene® Microspheres for UFE: imaging and clinical results in a multi center cohort study

A.J. Smeets (Tilburg/NL)

1903.2 Embozene® Microspheres for UFE: my technique and results

D. Siegel (New York, NY/US)

1903.3 Micro bland embolization in HCC treatment

F. Orsi (Milan/IT)

### **Cook Medical**

13:00-14:00

## SY 1902 Monday, September 12

**Auditorium 1** 

How does Zilver® PTX® look today?

Moderator: M. Schillinger (Vienna/AT)

1902.1 Latest randomized trial update on Zilver PTX with sub-set data

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

1902.2 How I have changed my practice

A. Holden (Auckland/NZ)

1902.3 My clinical experience in stenting the SFA

M.R. Sapoval (Paris/FR)

1902.4 Choosing the optimal SFA treatment

A. Schmidt (Leipzig/DE)

## Cordis, CCVI

11:30-12:30

## SY 1802 Monday, September 12

**Auditorium 1** 

## Challenges and solutions in CLI treatment

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

1802.1 Advanced endovascular techniques in CLI treatment

P.E. Huppert (Darmstadt/DE)

1802.2 How to plan endovascular procedures based on the angiosome model of reperfusion

V. Alexandrescu (Marche-en-Famenne/BE)

1802.3 The role of drug eluting technologies for CLI

J. Lammer (Vienna/AT)

1802.4 Diabetic foot: what do the IWGDF consensus guidelines say?

J.A. Reekers (Amsterdam/NL)



## **Delcath Systems**

11:30-12:30

## SY 2601 Tuesday, September 13

Room 2

Hepatic CHEMOSAT® Delivery System: a new therapy for interventional radiology Percutaneous intra-arterial administration of a chemotherapeutic agent (melphalan hydrochloride) to the liver

Moderator: R. Lencioni (Pisa/IT)

2601.1 Evolution, concepts and utility for patients with liver cancer

J.S. Zager (Tampa, FL/US)

2601.2 Phase III clinical trial results

J.F. Pingpank (Pittsburgh, PA/US)

2601.3 Practical experience

F.M. Moeslein (Baltimore, MD/US)

## **Eurocor GmbH**

11:30-12:30

## SY 2602 Tuesday, September 13

Room 14a

Drug-eluting balloons - update 2011 and perspectives: next generation coating

Moderators: J. Tacke (Passau/DE), G. Tepe (Rosenheim/DE)

2602.1 Introduction: Potential advantage and benefit of drug-eluting balloons in daily practice

J. Tacke (Passau/DE)

2602.2 Update: TASC II B guidelines - "endovascular first"

J. Lammer (Vienna/AT)

2602.3 Update: Drug-eluting balloons in the SFA and BTK lesions: current study results and ongoing programmes G. Tepe (Rosenheim/DE)

2602.4 Perspective: Drug-eluting balloons in BTK interventions: introduction, limitation of POBA treatment *M. Manzi (Abano Terme/IT)* 

2602.5 New coating concept: "The coating makes the difference", evaluation of shellac as coating of intravascular devices K. Peters (Rostock/DE)

2602.6 Discussion: Q&A regarding DEB

J. Tacke (Passau/DE)

## ev3 Europe

14:15-15:15

## SY 1904 Monday, September 12

Room 14a

Science of combination therapy research in femoropopliteal treatment

Moderator: T. Zeller (Bad Krozingen/DE)

1904.1 Vision for combination therapy & DEFINITIVE AR

T. Zeller (Bad Krozingen/DE)

1904.2 Science of drug therapies in treatment of PAD

R. Virmani (Gaithersburg, MD/US)

1904.3 Technology innovation

P. Peeters (Bonheiden/BE)

1904.4 DEFINITIVE LE: interim analysis 6 months data

T. Zeller (Bad Krozingen/DE)

**Satellite Symposia** 

## **GE Healthcare**

17:45-18:25

## SY 1408 Sunday, September 11

Room 14c

## Cone-beam CT guided interventions in oncology

Moderator: T. de Baère (Villejuif/FR)

1408.1 Needle guidance for percutaneous procedures

F. Deschamps (Villejuif/FR)

1408.2 Computerized tumour feeding vessel analysis and 3D navigation and guidance

T. de Baère (Villejuif/FR)

## **Gore & Associates**

08:00-08:20

## SY 703 Sunday, September 11

Room 3

The role of SFA endoluminal bypass: latest clinical evidence, ongoing studies

Moderator: E.L. Verhoeven (Nuremberg/DE)

703.1 GORE® VIABAHN® Endoprosthesis for in-stent restenosis update: a multicenter, randomized, controlled trial

M. Bosiers (Dendermonde/BE)

703.2 VIASTAR update: what we have learned about bare metal stents and SFA endoluminal bypass in the treatment of SFA occlusive disease

J. Lammer (Vienna/AT)

## **Lombard Medical**

13:00-14:00

## SY 402 Saturday, September 10

Room 2

Making the right choices for right angles: treatment of challenging EVAR cases with 60°-90° angulations

402.1 J. Hardman (Bath/UK)

402.2 J. Tessarek (Lingen/DE)

402.3 K.J. Hodgson (Springfield, IL/US)

402.4 J.-N. Albertini (St. Etienne/FR)

## **Medrad Interventional**

13:00-14:00

## SY 2703 Tuesday, September 13

Room 14a

Long-term clinical data of Paccocath® technology, preclinical evidence, and planned Cotavance™ peripheral study designs

Moderator: G. Tepe (Rosenheim/DE)

2703.1 Insights into preclinical studies of latest generation Cotavance™ drug eluting balloon J. Granada (Orangeburg, NY/US)

2703.2 Clinical data of the Paccocath technology

G. Tepe (Rosenheim/DE)

2703.3 Cotavance clinical trial designs and updates

N. Diehm (Bern/CH)



## Medtronic

14:15-15:15

## SY 1905 Monday, September 12

Room 14c

## IN.PACT drug eluting balloon pre-clinical and clinical update

Moderator: G. Tepe (Rosenheim/DE)

1905.1 In.Pact DEB technology and pre-clinical programme

R.J. Melder (Santa Rosa, CA/US)

1905.2 DEB in the SFA: 6-month results from the PACIFIER randomized trial

M. Werk (Berlin/DE)

1905.3 DEB in AV fistulas: results from a randomized trial

D. Karnabatidis (Patras/GR)

1905.4 Below-the-knee and below-the-elbow: role of DEB in critical limb ischemia

R. Ferraresi (Milan/IT)

Learning objectives:

- To provide an update on the preclinical and clinical data of In.Pact drug eluting balloon
- To understand the benefit and limitations of DEB application within a broad span of peripheral indications
- To discuss what else and more needs to be assessed to further establish DEB clinical evidence

### **Merit Medical**

17:45-18:45

## SY 1409 Sunday, September 11

Room 13b

An interactive Satellite Symposium on emerging oncology and BPH therapies using microspheres

Moderator: M.R. Sapoval (Paris/FR)

1409.1 Overview: embolics and an introduction to novel IR techniques

M.R. Sapoval (Paris/FR)

1409.2 Prostatic artery embolization using Embosphere® Microspheres: a promising area for IR F.C. Carnevale (Sao Paulo/BR)

1409.3 Prostate anatomy: relevant angiographic findings, tips and tricks – recorded LIVE cases *F.C. Carnevale (Sao Paulo/BR)* 

1409.4 New applications for HepaSphere™ Microspheres in breast cancer metastatic lesions – clinical results S. Hori (Izumisano/JP)

## **Philips Healthcare**

13:00-14:00

## SY 403 Saturday, September 10

Room 14a

Innovations in planning, therapy and monitoring in interventional oncology

Moderator: A. Gangi (Strasbourg/FR)

403.1 The next step in percutaneous ablative therapy

M.J.L. van Strijen (Nieuwegein/NL)

403.2 MR-HIFU for non-invasive tumour ablation

M. van den Bosch (Utrecht/NL)

403.3 Intra-arterial cancer therapy: see, reach, treat and assess

J.-F.H. Geschwind (Baltimore, MD/US)

## Siemens

14:30-15:30

## SY 1203 Sunday, September 11

Room 14a

Innovations in interventional radiology

Moderator: M.F. Reiser (Munich/DE)

1203.1 Perspectives of interventional oncology

J. Lammer (Vienna/AT)

1203.2 Perspectives of cardiovascular interventions

B.S. Tan (Singapore/SG)

1203.3 Perspectives of neuro interventions

A. Dörfler (Erlangen/DE)

## **Sirtex Medical**

11:30-12:30

## SY 2603 Tuesday, September 13

Room 14b

Deciding upon SIR-Spheres microspheres treatment within a liver multidisciplinary team

Moderator: J.I. Bilbao (Pamplona/ES)

2603.1 Case study 1 - an oncologist's perspective

R. Sharma (Oxford/UK)

2603.2 Case study 2 - a surgeon's perspective

B. Garlipp (Magdeburg/DE)

2603.3 Case study 3 & 4 - an interventional radiologist's perspective

T.F. Jakobs (Munich/DE)

## **Spectranetics**

08:00-08:20

## SY 1501 Monday, September 12

Room 2

Laser atherectomy for complex femoropopliteal disease and below the knee intervention

1501.1 A. Micari (Palermo/IT)

18:00-18:20

## SY 2207 Monday, September 12

Room 13b

Endovascular treatment of instent restenosis using excimer laser angioplasty and drug eluting balloon

2207.1 J.C. van den Berg (Lugano/CH)



## **Terumo Europe**

07:50-08:20

## SY 702 Sunday, September 11

Room 2

## Hydrogel coils: the real benefits

Moderator: T.K. Helmberger (Munich/DE)

702.1 Introduction

T.K. Helmberger (Munich/DE)

- 702.2 Mechanism of occlusion and recanalization of HydroCoil vs. fibered coils: analysis in an animal model A. Fohlen (Caen/FR), J.-P. Pelage (Boulogne/FR)
- 702.3 Prophylactic coiling of the GDA: why the AZUR Detachable HydroCoil *R. López-Benitez (Bern/CH)*

702.4 Next generation of coils: getting rid of metal

J.-P. Pelage (Boulogne/FR)

702.5 Questions & Answers

13:00-14:00

## SY 1103 Sunday, September 11

Room 14a

Lower limb long occlusions: how should we treat?

Moderator: S. Müller-Hülsbeck (Flensburg/DE)

1103.1 Current treatment of long occlusion: standard practices, limitations, challenges

M. Manzi (Abano Terme/IT)

1103.2 Subintimal angioplasty: latest techniques with newest devices

A. Bolia (Leicester/UK)

1103.3 Clinical challenges of long occlusion stenting

K.-L. Schulte (Berlin/DE)

1103.4 Technical aspects of long occlusion stenting

S. Müller-Hülsbeck (Flensburg/DE)

11:30-12:30

## SY 1803 Monday, September 12

Room 14a

## Drug-eluting beads: survival data

Moderator: M. Möhler (Mainz/DE)

- 1803.1 Five year survival data of HCC patients treated with DC Bead at Athens Centre *K. Malagari (Athens/GR)*
- 1803.2 DEBIRI pharmacokinetics in an animal model

T. de Baère (Villejuif/FR)

1803.3 Final results of a prospective randomized trial assessing survival at 2 years of DEBIRI vs. FOLFIRI in patients with hepatic metastases from colorectal cancer

G. Fiorentini (Empoli/IT)

1803.4 Treatment of colorectal liver metastases with DC Bead M1: preliminary results *P.E. Huppert (Darmstadt/DE)* 

## A NEW Addition to the Lower Extremity Solutions Portfolio

## Introducing...

# Cordis SLEEK® Over-The-Wire PTA Dilatation Catheter

a **NEW** 0.014" Catheter with excellent pushability and a small crossing profile!

## Available in:

- 1.25 5mm diameters
- 15 220mm lengths





Important Information: Prior to use, refer to the Instructions for Use supplied with these devices for infinations, contraindications, side effects, suggested procedure, warnings and precautions. As part of the CORDIS policy of continuous product development we reserve the right to change product specifications without prior notification. Their contractions are the treatments of their present the present.

Helping you save limbs, and enhance lives.

## **Learning Centres at CIRSE 2011**

The Learning Centres at CIRSE 2011 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 at CIRSE 2011:

AngioDynamics
Boston Scientific
CCVI
Cook Medical
De Puy
Delcath
Gore & Associates
Medrad
Medtronic
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)

## **Boston Scientific**

**Training Village B0** 

## Saturday, September 10

11:00-12:00 (Session in English)

Optimum solutions for peripheral vascular disease

M. Al-Rawas (Jeddah/SA) M. Al-Warraky (Cairo/EG) G. Abi Chedid (Beirut/LB)

13:00-14:30 (Session in English)

Touch & learn: Interlock™-35 Fibered IDC™ Occlusion System

15:00-16:00 (Session in English) **Trauma: what should the IR be doing** *T.J. Cleveland (Sheffield/UK) M.R. Sapoval (Paris/FR) O.M. van Delden (Amsterdam/NL)* 

## Sunday, September 11

09:30-10:30 (Session in German)

**Filing of large cavities** *R.-T. Hoffmann (Dresden/DE)* 

News about the treatment BTK

J. Lammer (Vienna/AT)

11:00-12:00 (Session in English)

Endovascular management of complex peripheral vascular disease

N.I. Fotiadis (London/UK)

14:00-16:00 (Session in English)

Touch & learn: Innova™ Self-expanding Stent System

## **Monday, September 12**

10:00-11:00 (Session in Dutch)

Carotisstenting, waar staan we nu?

H. van Overhagen (The Hague/NL)

11:30-12:30 (Session in English)

When to use re-entry devices

M. Åkesson (Malmoe/SE)

13:00-14:30 (Session in English)

Touch & learn: Mustang™ / Coyote™ Balloon Dilatation Catheters\*

## Tuesday, September 13

09:30-10:30 (Session in Spanish)

Aplicaciones de los coils controlados mecánicamente – Interlock™

F.J. Peiro de las Heras (Seville/ES)

Tratamiento en fístulas de Hemodiálisis con balón de alta presión – Mustang™

P. Bermudez (Barcelona/ES)

11:00-12:00 (Session in Italian)

Challenging cases in peripheral embolization

R. Golfieri (Bologna/IT)

13:30-16:00 (Session in English)

Touch & learn: new devices for CTO access

M. Åkesson (Malmoe/SE)

\* Coyote™ Balloon Dilatation Catheter is pending CE mark, not available for sale in EEA

CCVI Training Village B0

## Saturday, September 10

11:00-12:00

Vascular closure with ExoSeal™

L. Lønn (Copenhagen/DK)

13:00-14:00

Vascular closure with ExoSeal™

L. Lønn (Copenhagen/DK)

## Monday, September 12

10:00-11:00

Vascular closure with ExoSeal™

L. Lønn (Copenhagen/DK)

14:00-15:00

Vascular closure with ExoSeal™

L. Lønn (Copenhagen/DK)

## **Tuesday, September 13**

11:00-12:00

The unmet need and personal experience with a new investigational AAA device

G. Torsello (Münster/DE)

14:00-15:00

The unmet need and personal experience with a new investigational AAA device

G. Torsello (Münster/DE)

Please note that seats are limited and therefore pre-registrations are necessary. Please ensure you either contact your Cordis local sales representative or pre-register at the Cordis registration desk onsite.

# **Cook Medical**

# **Training Village B0**

### Saturday, September 10

11:00-11:30

**Techniques for the TIPS procedure** 

14:00-14:30 (Session in French)

Ilio-femoral venous obstruction

### Sunday, September 11

09:30-10:00

Vascular intervention in liver transplantation

11:00-11:30

Techniques for advancing your biliary interventions

12:30-13:00

Biliary intervention after liver transplantation

14:00-14:30

Renal artery disease - continuous selection of patients for RAS - complex RAS case reviews

### Monday, September 12

09:30-10:00

CLI disease - continuous selection of CLI patients - complex CLI case reviews

11:00-11:30

How I introduced PICC placement as a new procedure in radiology, with hands-on training featuring Professor V. Vidal

# Tuesday, September 13

09:30-10:00

Spiral-Z™ AAA iliac leg – quest for perfection

11:00-11:30

Peripheral port implantation with the Mini Vital-Port: a safe and minimally invasive procedure offered by radiology

12:30-13:00

Real-life experience with Zenith® LP AAA device

14:45-15:15

CLI disease - continuous selection of CLI patients - complex CLI case reviews

15:30-16:00 (Session in English)

Ilio-femoral venous obstruction

# **Gore & Associates**

**Training Village B0** 

Refreshments will be served

### Sunday, September 11

11:30-12:30

### Repositioning the future of EVAR

Chairman: D. Vorwerk (Ingolstadt/DE)

Control, Cannulation, Confidence: optimizing EVAR with the GORE® EXCLUDER® AAA Endoprosthesis featuring C3 Delivery System *C. Rabbia (Turin/IT)* 

GREAT GORE® C3 REGISTRY: what does the data tell us? R. McWilliams (Liverpool/UK)

Interactive case presentation on the GORE® EXCLUDER® AAA Endoprosthesis featuring C3 Delivery System *P. Schäfer (Kiel/DE)* 

14.00-15.00

# Advanced endovascular treatment of femoro-popliteal artery: data review, tips and tricks, lessons learned

Chairman: C. Rabbia (Turin/IT)

GORE® VIABAHN® Endoprosthesis with PROPATEN Bioactive Surface: rationale, indications, techniques and evidence N. Zorger (Regensburg/DE)

Clinical studies updates: VIASTAR and 25 cm GORE® VIABAHN® Endoprosthesis for long lesions *P. Schäfer (Kiel/DE)* 

Endoluminal SFA bypass for the treatment of in-stent restenosis to be announced

Endoluminal popliteal bypass evidence: tips and tricks – a review of challenging cases *I.F. Tielliu (Groningen/NL)* 

### **Monday, September 12**

10:00-11:00

### The effect of early TIPS in the treatment of cirrhotic patients admitted with ascites

Chairman: F. Fanelli (Rome/IT)

Meta analysis bare stent TIPS vs. paracenthesis: expectations using covered TIPS stents *F. Salerno (Milan/IT)* 

TIPS for refractory ascites. GORE® VIATORR® TIPS Endoprosthesis vs. bare stents. Results of a single centre trial F. Nevens (Leuven/BE)

The economical aspects of using GORE® VIATORR® TIPS Endoprostheses compared to LVP N. Hacking (Southampton/UK)

11:30-12:30

# Interactive review of challenging endovascular cases with GORE® VIABAHN® Endoprosthesis

Chairman: T. Zeller (Bad Krozingen/DE)

S. Sixt (Bad Krozingen/DE)

A. Chaudhuri (Bedford/UK)

G. Mansueto (Verona/IT)

D. Savio (Turin/IT)



### 14:00-15:00

# Endovascular treatment of the thoracic aorta: interactive case discussion

Chairman: J. Lammer (Vienna/AT)

Management of endoleaks in thoracic endografting *M.S. Hamady (London/UK)* 

Endovascular treatment of dissection: what did we learn? G. Carrafiello (Varese/IT)

Acute aortic syndrome: how to treat patients in an emergency setting *K.H. Schürmann (Dortmund/DE)* 

### **Tuesday, September 13**

11:30-12:30

# The future of covered biliary stents for the treatment of benign and malignant biliary obstructions

Chairman: P. Goffette (Brussels/BE)

Percutaneous treatment of malignant jaundice due to extrahepatic cholangiocarcinoma. GORE® VIABIL® Biliary Endoprosthesis vs. bare stents *F. Fanelli (Rome/IT)* 

The removable GORE® VIABIL® Biliary Endoprosthesis for treatment of benign biliary strictures *K. Caca (Ludwigsburg/DE)* 

# Straub Medical Training Village B0

# Efficiency of mechanical thrombectomy in peripheral arterial disease

### **Topics:**

- Clinical and economic benefits of mechanical thrombectomy
- Indications, limitations and success rates of Rotarex®S and Aspirex®S interventions
- In-vitro demonstration of Rotarex®S und Aspirex®S catheters
- Hands-on: experience the efficiency!

Please register at our booth no. 238.

www.straubmedical.com

# **Terumo Europe**

# **Training Village B0**

# Sunday, September 11

10:00-10:30

EVAR and endoleak: treatments with AZUR HydroCoil

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

14:30-15:00

DC Bead M1: tips and tricks

C. Aliberti (Lagosanto Ferrara/Italy)

16:30-17:00

Combined therapy on intermediate HCC with DC Beads: why, how and when?

R. lezzi (Rome/IT)

# **Monday, September 12**

11:00-11:30

**Embolization with Detachable AZUR HydroCoil: indications** 

J. Irurzun (Alicante/ES)

14:00-14:30

AZUR HydroCoil: case discussion

S. Diehl (Mannheim/DE)

15:00-15:30

AZUR HydroCoil: challenging cases

M. Guimaraes (Charleston, SC/US)

# **Tuesday, September 13**

11:00-11:30

 $\label{thm:continuous} \textbf{Bronchial embolization with Pushable AZUR HydroCoil: tips and tricks}$ 

M. Intotero (Milan/IT)



# September 10-14 Munich, Germany CIRSE 2011

# **Scientific Programme**

80-86 Saturday, September 10

87-100 Sunday, September 11

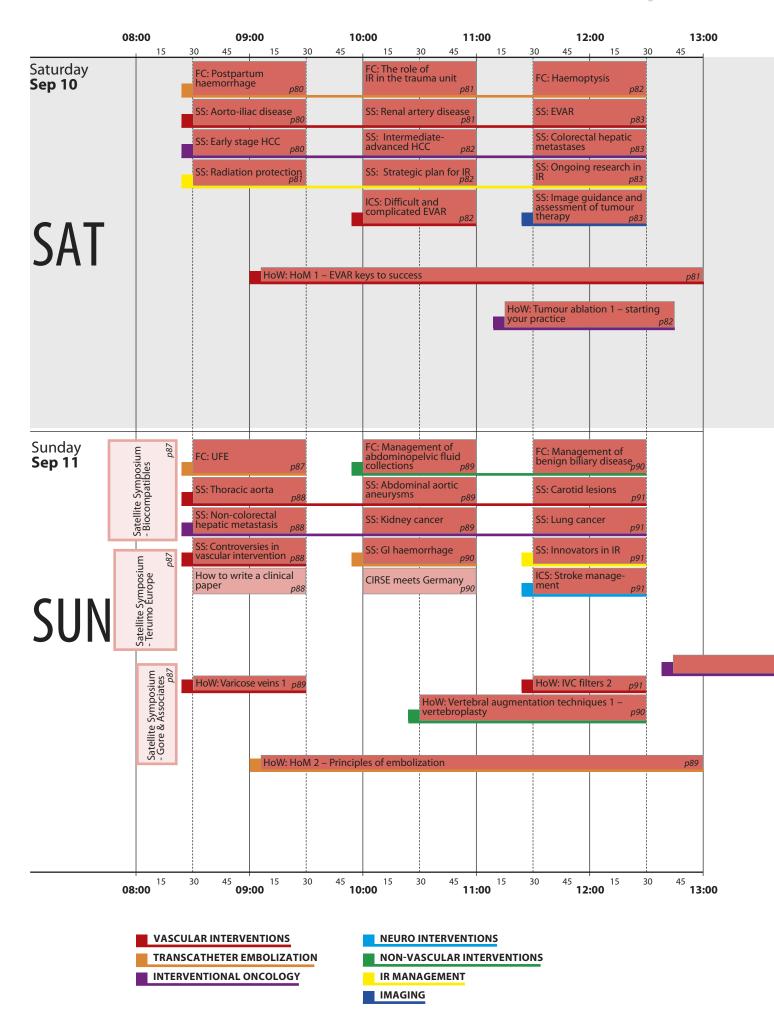
101-112 Monday, September 12

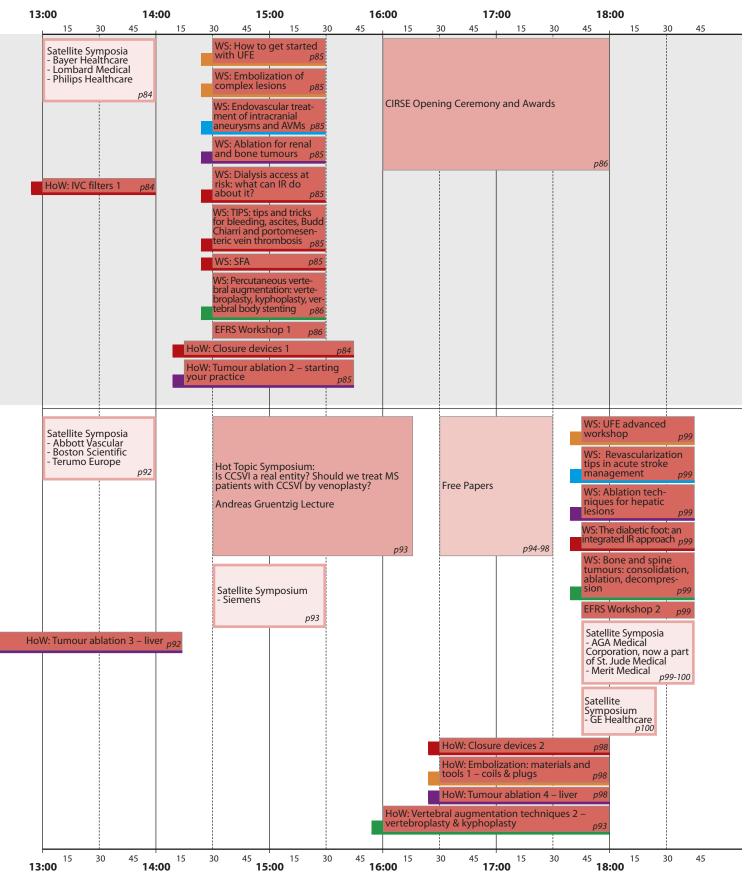
113-120 Tuesday, September 13

121-124 Wednesday, September 14

125-158 Electronic Posters

165-513 Abstracts & Author Index





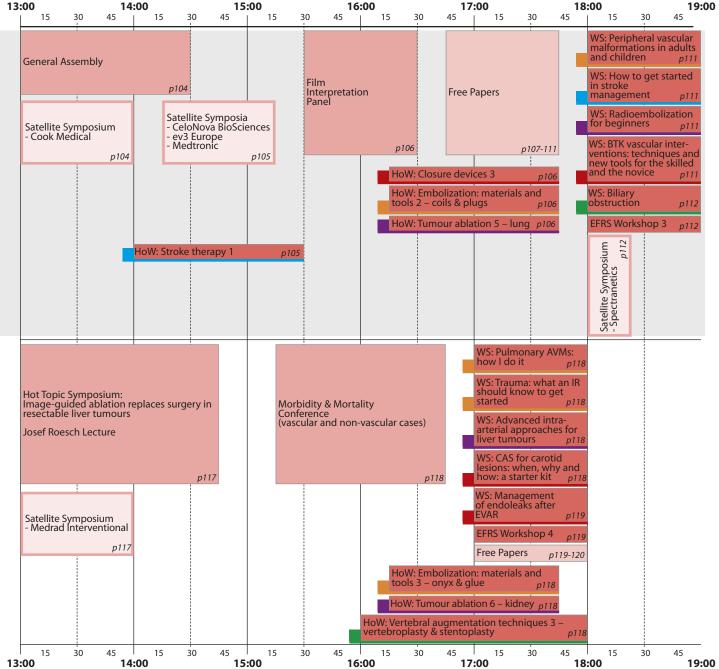
**EFRS:** European Federation of Radiographer Societies

**ICS:** Interactive Case Session

**HoW:** Hands-on Workshop

FC: Foundation Course

**SS:** Special Session



Munich 2011



**EFRS:** European Federation of Radiographer Societies ICS: Interactive Case Session

**HoW:** Hands-on Workshop FC: Foundation Course SS: Special Session WS: Workshop

# Saturday, September 10

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### FC 101 Foundation Course

Room 14a

### Postpartum haemorrhage

Moderator: N. McEniff (Dublin/IE)

101.1 Aetiology, common causes and when to embolize

J-P. Pelage (Boulogne/FR)

101.2 Placement of prophylactic occlusion balloons: why, when, how?

A.-M. Belli (London/UK)

101.3 How to embolize postpartum haemorrhage: embolics and technique

A.C. Roberts (La Jolla, CA/US)

101.4 Is embolization always successful? - How to avoid failure

M. Szczerbo-Trojanowska (Lublin/PL)

08:30-09:30

# SS 102 Special Session

Room 14c

### Aorto-iliac disease

Moderators: A.M. Al-Kutoubi (Beirut/LB), A. Chavan (Oldenburg/DE)

102.1 How should we manage stenosis involving the aorta and the aortic bifurcation?

S. Müller-Hülsbeck (Flensburg/DE)

102.2 Should IRs treat TASC C and D lesions?

T. Jahnke (Neumünster/DE)

102.3 Results of bypass vs. interventional radiology for occlusive disease

P. Gaines (Sheffield/UK)

102.4 Iliac aneurysms: treatment concepts and outcome

B.E. Cil (Ankara/TR)

08:30-09:30

# SS 103 Special Session

Room 14b

### **Early stage HCC**

Moderators: M.-S. Grammenou-Pomoni (Athens/GR), M. Guimaraes (Charleston, SC/US)

103.1 Imaging and staging

D.A. Brisbois (Liège/BE)

103.2 Segmental transcatheter approach to the early tumour

Y. Arai (Tokyo/JP)

103.3 How to ablate - current options

M. Bezzi (Rome/IT)

103.4 Update on recent trials

R. Lencioni (Pisa/IT)



08:30-09:30

# SS 104 Special Session

### Room 2

### **Radiation protection**

Moderators: C. Düber (Mainz/DE), L.E. Lampmann (Tilburg/NL)

- 104.1 Occupational radiation protection in IR: joint guidelines of CIRSE and SIR E. Vano (Madrid/ES)
- 104.2 Guidelines for patient radiation protection in the angio suite *E.P. Efstathopoulos (Athens/GR)*
- 104.3 Paediatric interventions: how to deal with radiation exposure risk? G. Bartal (Kfar-Saba/IL)
- 104.4 Estimation of the radiation risk of diagnostic CT procedures M. Wucherer (Nuremberg/DE)

09:10-13:00

# HoM 1 Hands-on Workshop

# Hands-on Masterclass / EVAR keys to success

Simulator Gallery (Training Village B0)

Coordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK) Session organizers: J.V. Patel (Leeds/UK), J.D.G. Rose (Newcastle-upon-Tyne/UK) Instructors: R.G. McWilliams (Liverpool/UK), G.J. Robinson (Hull/UK)

HoM 1.1 Group 1 (09:10-11:00) HoM 1.2 Group 2 (11:10-13:00)

10:00-11:00

### FC 201 Foundation Course

Room 14a

# The role of IR in the trauma unit

Moderator: P.E. Andersen (Odense/DK)

201.1 Polytrauma imaging: how to do it and what to look for

P. Vilares Morgado (Porto/PT)

201.2 Thorax and supra-aortic vessels

S.J. McPherson (Leeds/UK)

201.3 Abdominal solid organ trauma

C. De Vries (Bloemfontein/ZA)

201.4 Pelvic bleeding: who needs treating and how to do it W. Jaschke (Innsbruck/AT)

10:00-11:00

# SS 202 Special Session

**Auditorium 1** 

# Renal artery disease

Moderators: N. Chalmers (Manchester/UK), M. Köcher (Olomouc/CZ)

202.1 Indications for renal PTA/stenting after recent trials

O. Pellerin (Paris/FR)

202.2 Technique and outcomes for transplant renal artery stenoses

M.S. Hamady (London/UK)

202.3 Renal angioplasty in children

D.J. Roebuck (London/UK)

202.4 How to manage non-atheromatous renal artery stenosis *M.J. Lee (Dublin/IE)* 

10:00-11:00

### SS 203 Special Session

Room 14b

### Intermediate-advanced HCC

Moderators: J.I. Bilbao (Pamplona/ES), N. Hacking (Southampton/UK)

203.1 Current approaches in TACE in HCC

J.B. Karani (London/UK)

203.2 Is radioembolization the IR solution to the problem?

T.F. Jakobs (Munich/DE)

203.3 How to deal with tumours supplied by collateral arteries? How to treat hypovascular tumours? K. Malagari (Athens/GR)

203.4 Current status of combined treatments

L. Crocetti (Pisa/IT)

10:00-11:00

# SS 204 Special Session

Room 2

### Strategic plan for IR

Moderators: J.A. Kaufman (Portland, OR/US), M.F. Reiser (Munich/DE)

204.1 Challenges of IR in European countries

D. Vorwerk (Ingolstadt/DE)

204.2 Challenges of IR outside Europe

J.F. Benenati (Miami, FL/US)

204.3 The pathway towards an IR training curriculum and certificate

R.A. Morgan (London/UK)

204.4 Do we want to become a clinical subspecialty? Pros and cons

A. Adam (London/UK)

10:00-11:00

e-voting

Room 3

# ICS 205 Interactive Case Session

### **Difficult and complicated EVAR**

205.1 J.-P. Beregi (Nîmes/FR)

205.2 E. Brountzos (Athens/GR)

11:15-12:45

# TA-HoW 1 Hands-on Workshop

Room 5

# Tumour ablation: tips and tricks – starting your practice

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT)

Instructors: D.K. Filippiadis (Athens/GR), G.J. Munneke (London/UK), S. Roy-Choudhury (Birmingham/UK)

11:30-12:30

# FC 301 Foundation Course

Room 14a

Haemoptysis

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

301.1 Imaging of haemoptysis

M.-F. Carette (Paris/FR)

301.2 Bronchial artery angiography: relevant anatomy

A. Buecker (Homburg/DE)

301.3 Bronchial artery embolization: how I do it

K. Malagari (Athens/GR)

301.4 Pulmonary artery embolization: how I do it

F.S. Keller (Portland, OR/US)

ss:	11:30-12:30  Special Session EVAR	Room 14b
	Moderators: B.T. Katzen (Miami, FL/US), M. Thompson (London/UK)	
30	2.1 Review of new EVAR devices: pros and cons H. Rousseau (Toulouse/FR)	
30	2.2 What do the long term results of randomized controlled trials teach us?  J. Lammer (Vienna/AT)	
30	2.3 Trials update for small AAAs and ruptured AAAs  C.D. Liapis (Athens/GR)	
30	2.4 Imaging follow-up: what modality, how often, do we still need it?  F. Fanelli (Rome/IT)	

11:30-12:30

# SS 303 Special Session

Room 14c

### **Colorectal hepatic metastases**

Moderators: C.L. Zollikofer (Kilchberg/CH), J. Palmero (Valencia/ES)

303.1 Techniques and results of ablation in liver disease

R.-T. Hoffmann (Dresden/DE)

303.2 Techniques and results of Irinotecan drug eluting beads

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

303.3 Radioembolization for colorectal metastasis

N.P. Tait (London/UK)

303.4 Combination therapy *F. Orsi (Milan/IT)* 

11:30-12:30

# SS 304 Special Session

Room 13b

### Ongoing research in IR

Moderators: R.W. Günther (Aachen/DE), D. Pavcnik (Portland, OR/US)

- 304.1 Intra-arterial delivery of stem cells: a new treatment for chronic diseases *S. Sharma (Delhi/IN)*
- 304.2 Anti-angiogenic drugs and resorbable microspheres: what is the promise? J.-F.H. Geschwind (Baltimore, MD/US)
- 304.3 Bioabsorbable and cell-coated stents

T. Schmitz-Rode (Aachen/DE)

304.4 Islet cell transplantation *J.H. Peregrin (Prague/CZ)* 

11:30-12:30

# SS 305 Special Session

Room 13a

# Image guidance and assessment of tumour therapy

Moderators: N.L. Kelekis (Athens/GR), M. Oudkerk (Groningen/NL)

305.1 Contrast ultrasound and fusion imaging

L. Solbiati (Busto Arsizio/IT)

305.2 Robot-assisted CT guided interventions

R. Santosham (Chennai/IN)

305.3 MRI assessment of necrotic vs. viable tumours

C. Della Pina (Pisa/IT)

305.4 Cone beam CT in chemoembolization *M. Katoh (Homburg/DE)* 

13:00-14:00

### **SY 401 Satellite Symposium**

Room 14b

# **Bayer Healthcare**

TACE and the evolving treatment paradigm in the management of intermediate HCC

Moderator: P.L. Pereira (Heilbronn/DE)

- 401.1 Current practice and technical evolution of TACE in the treatment of intermediate HCC *T. de Baère (Villejuif/FR)*
- 401.2 Potential rationale for systemic therapy with antiangiogenic properties in intermediate HCC *R. Lencioni (Pisa/IT)*
- 401.3 Advances in the treatment of intermediate HCC: systemic therapy with antiangiogenic properties used concomitantly with TACE

J.-F.H. Geschwind (Baltimore, MD/US)

Panel discussion

13:00-14:00

# SY 402 Satellite Symposium

Room 2

### **Lombard Medical**

Making the right choices for right angles: treatment of challenging EVAR cases with 60°-90° angulations

- 402.1 J. Hardman (Bath/UK)
- 402.2 J. Tessarek (Lingen/DE)
- 402.3 K.J. Hodgson (Springfield, IL/US)
- 402.4 J.-N. Albertini (St. Etienne/FR)

13:00-14:00

# SY 403 Satellite Symposium

Room 14a

### **Philips Healthcare**

Innovations in planning, therapy and monitoring in interventional oncology

Moderator: A. Gangi (Strasbourg/FR)

403.1 The next step in percutaneous ablative therapy

M.J.L. van Strijen (Nieuwegein/NL)

403.2 MR-HIFU for non-invasive tumour ablation

M. van den Bosch (Utrecht/NL)

403.3 Intra-arterial cancer therapy: see, reach, treat and assess

J.-F.H. Geschwind (Baltimore, MD/US)

13:00-14:00

# IVC-HoW 1 Hands-on Workshop

Room 22

**IVC filters** 

Coordinators: M.R. Sapoval (Paris/FR), A.F. Watkinson (Exeter/UK) Instructors: F.G. Barral (Saint Etienne/FR), M.A. de Gregorio (Zaragoza/ES), P. Larini (Parma/IT), O. Pellerin (Paris/FR)

14:15-15:45

### CD-HoW 1 Hands-on Workshop

Room 21

# A closer look at closure devices

Coordinators: L. Lønn (Copenhagen/DK), J. Tacke (Passau/DE) Instructors: A. Altenburg (Wuppertal/DE), T. Larzon (Örebro/SE), J.C. van den Berg (Lugano/CH)



14:15-15:45 TA-HoW 2 Hands-on Workshop Room 5 Tumour ablation: tips and tricks - starting your practice Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT) Instructors: X. Buy (Strasbourg/FR), R.-T. Hoffmann (Dresden/DE), P.L. Pereira (Heilbronn/DE) 14:30-15:30 WS 501 Workshop Room 14a How to get started with UFE 501.1 P.N.M. Lohle (Tilburg/NL) 501.2 T.J. Kroencke (Berlin/DE) 14:30-15:30 WS 502 Workshop Room 13b Embolization of complex lesions (AVMs, complex aneurysms, high flow fistulas) 502.1 H.T. Abada (Lexington, KY/US) 502.2 M. Köcher (Olomouc/CZ) 14:30-15:30 WS 503 Workshop Room 2 **Endovascular treatment of intracranial aneurysms and AVMs** 503.1 J.G. Moret (Clichy/FR) 503.2 I. Saatci (Ankara/TR) 14:30-15:30 WS 504 Workshop Room 4a Ablation for renal and bone tumours 504.1 D.K. Filippiadis (Athens/GR) 504.2 A. Veltri (Orbassano/IT) 14:30-15:30 WS 505 Workshop Room 14c Dialysis access at risk: what can IR do about it? 505.1 L. Boyer (Clermont Ferrand/FR) 505.2 R.H. Portugaller (Graz/AT) 14:30-15:30 WS 506 Workshop Room 13a TIPS: tips and tricks for bleeding, ascites, Budd Chiarri and portomesenteric vein thrombosis 506.1 Z. Haskal (Baltimore, MD/US) 506.2 S. Olliff (Birmingham/UK) 14:30-15:30 WS 507 Workshop Room 14b **SFA** 

507.1 A.L. Jacob (Basel/CH) 507.2 N. Ptohis (Athens/GR) 14:30-15:30

# WS 508 Workshop

Room 3

Percutaneous vertebral augmentation: vertebroplasty, kyphoplasty, vertebral body stenting

508.1 D. Kasper (Phoenix, AZ/US)

508.2 S. Masala (Rome/IT)

e-voting

14:30-15:30

### RWS 509 EFRS Workshop 1

Room 4b

Education and training for interventional radiographers: one size

does not fit all

509.1 *J. McNulty (Dublin/IE)* 509.2 *M.-L. Butler (Dublin/IE)* 

16:00-18:00

# **OP 600 CIRSE Opening Ceremony and Awards**

**Auditorium 1** 

Chairmen: T.K. Helmberger (Munich/DE), J.H. Peregrin (Prague/CZ), J. Tacke (Passau/DE)

### Gold Medallist: J.A. Reekers (Amsterdam/NL)

Laudation: D. Vorwerk (Ingolstadt/DE)

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

Laudation: E. Brountzos (Athens/GR)

Distinguished Fellow: A.F. Watkinson (Exeter/UK)

Laudation: M.J. Lee (Dublin/IE)

Distinguished Fellow: L. Machan (Vancouver, BC/CA)

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

**Electronic Poster Awards** 

**CVIR Editor's Medal** 

# **Ensemble Berlin**



Ensemble Berlin



Munich 2011 Sunday, September 11

# Sunday, September 11

07:45-08:20

SY 701 Satellite Symposium

Room 4a

**Biocompatibles** 

DC Bead® in HCC: survival update and combination therapy with Sorafenib

Moderator: R. Lencioni (Pisa/IT)

701.1 5-year survival follow-up of 100 HCC patients treated with DC Bead at BCLC: a retrospective analysis *M. Burrel (Barcelona/ES)* 

701.2 Clinical results of a phase II trial of Sorafenib combined with drug-eluting bead, Doxorubicin (DEBDOX™) for patients with hepatocellular carcinoma

J.-F.H. Geschwind (Baltimore, MD/US)

07:50-08:20

SY 702 Satellite Symposium

Room 2

**Terumo Europe** 

Hydrogel coils: the real benefits

Moderator: T.K. Helmberger (Munich/DE)

702.1 Introduction

T.K. Helmberger (Munich/DE)

702.2 Mechanism of occlusion and recanalization of HydroCoil vs. fibered coils: analysis in an animal model A. Fohlen (Caen/FR), J.-P. Pelage (Boulogne/FR)

702.3 Prophylactic coiling of the GDA: why the AZUR Detachable HydroCoil R. López-Benitez (Bern/CH)

702.4 Next generation of coils: getting rid of metal

J.-P. Pelage (Boulogne/FR)

702.5 Questions & Answers

08:00-08:20

SY 703 Satellite Symposium

Room 3

**Gore & Associates** 

The role of SFA endoluminal bypass: latest clinical evidence, ongoing studies

Moderator: E.L. Verhoeven (Nuremberg/DE)

703.1 GORE® VIABAHN® Endoprosthesis for in-stent restenosis update: a multicenter, randomized, controlled trial *M. Bosiers (Dendermonde/BE)* 

703.2 VIASTAR update: what we have learned about bare metal stents and SFA endoluminal bypass in the treatment of SFA occlusive disease

J. Lammer (Vienna/AT)

08:30-09:30

FC 801 Foundation Course

**Auditorium 1** 

UFE

Moderator: G.M. Richter (Stuttgart/DE)

801.1 Imaging pre- and post-UFE

T.J. Kroencke (Berlin/DE)

801.2 Periprocedural pain management

C.A. Binkert (Winterthur/CH)

801.3 Technique, choice of embolics and how to know when to stop

J. Spies (Washington, DC/US)

801.4 How to avoid complications

J.A. Reekers (Amsterdam/NL)

08:30-09:30

### SS 802 Special Session

Room 14a

Thoracic aorta

Moderators: J. Lammer (Vienna/AT), R.A. Morgan (London/UK)

- 802.1 TEVAR for chronic type B dissection: indications, technique and outcomes M.D. Dake (Stanford, CA/US)
- 802.2 Current status of branched endografts for thoracoabdominal aortic aneurysms *M. Thompson (London/UK)*
- 802.3 Branched endografts for aortic arch aneurysms How close are we? M.A. Funovics (Vienna/AT)
- 802.4 Management of endoleaks after TEVAR *T. Buckenham (Christchurch/NZ)*

08:30-09:30

# SS 803 Special Session

Room 14c

### Non-colorectal hepatic metastasis

Moderators: D.A. Brisbois (Liège/BE), B.S. Tan (Singapore/SG)

- 803.1 When to refer a patient with non-colorectal liver metastasis for IR treatment
- M. Cantore (Carrara/IT)803.2 Melanoma liver metastasis
  - T.-E.G. Vrachliotis (Athens/GR)
- 803.3 Neuroendocrine tumours
  - B. Stedman (Southampton/UK)
- 803.4 Breast cancer

J. Kettenbach (Bern/CH)

08:30-09:30

# SS 804 Special Session

Room 14b

# Controversies in vascular interventions

Moderator: P. Haage (Wuppertal/DE)

- 804.1 Endovascular is the first choice for long SFA occlusion in claudication: pro S. Duda (Berlin/DE)
- 804.2 Endovascular is the first choice for long SFA occlusion in claudication: con *H. Manninen (Kuopio/FI)*
- 804.3 Renal stenting is dead: true

J.G. Moss (Glasgow/UK)

804.4 Renal stenting is dead: false

M.R. Sapoval (Paris/FR)

- 804.5 A 60 year old fit patient with a 5.5 cm AAA should undergo EVAR B.T. Katzen (Miami, FL/US)
- 804.6 A 60 year old fit patient with a 5.5 cm AAA should undergo surgery *P.R. Taylor (London/UK)*

08:30-09:30

# How to write a clinical paper

Room 2

Coordinator and speaker: L. Crocetti (Pisa/IT)

This session is kindly sponsored by Biocompatibles.



# 08:30-09:30 VV-HoW 1 Hands-on Workshop

Room 21

### Varicose veins

Coordinators: C.A. Binkert (Winterthur/CH), K.D. McBride (Dunfermline/UK) Instructors: J.A. Kaufman (Portland, OR/US), L. Oguzkurt (Adana/TR), D.J. West (Stoke-on-Trent/UK)

09:10-13:00

### HoM 2 Hands-on Workshop

# Hands-on Masterclass / Principles of embolization

Simulator Gallery (Training Village B0)

Coordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK) Session organizers: T.J. Kroencke (Berlin/DE), J.-P. Pelage (Boulogne/FR) Instructors: N.H. Kisilevzky (São Paulo/BR), P.N.M. Lohle (Tilburg/NL)

HoM 2.1 Group 3 (09:10-11:00) HoM 2.2 Group 4 (11:10-13:00)

10:00-11:00

### **FC 901 Foundation Course**

Room 13b

### Management of abdominopelvic fluid collections

Moderator: P. Vilares Morgado (Porto/PT)

- 901.1 Principles of drainage: anatomy, tools and techniques *H.-U. Laasch (Manchester/UK)*
- 901.2 Pancreatic abscesses and fluid collections *M.J. Lee (Dublin/IE)*
- 901.3 Deep pelvic collections: access and technique D.E. Malone (Dublin/IE)
- 901.4 Management of hepatic and renal cysts O. Akhan (Ankara/TR)

10:00-11:00

### SS 902 Special Session

Room 14b

# Abdominal aortic aneurysms

Moderators: K.A. Hausegger (Klagenfurt/AT), P.R. Taylor (London/UK)

- 902.1 Fenestrated EVAR for AAA with short or absent necks: current status *E.L. Verhoeven (Nuremberg/DE)*
- 902.2 Percutaneous access for EVAR: devices, technique and outcomes A. Chavan (Oldenburg/DE)
- 902.3 Embolization of type 2 endoleaks: techniques and outcomes R.A. Morgan (London/UK)
- 902.4 Current status of iliac branched grafts: patient selection and outcomes *J. Hardman (Bath/UK)*

10:00-11:00

### SS 903 Special Session

Room 13a

# Kidney cancer

Moderators: M. Bezzi (Rome/IT), J.L. del Cura (Bilbao/ES)

- 903.1 RFA: patient selection, techniques and challenges D.J. Breen (Southampton/UK)
- 903.2 Cryoablation: equipment, technique and challenges M.A. Farrell (Waterford/IE)
- 903.3 Review of published data: which lesions should be treated? U. Patel (London/UK)

10:00-11:00

# SS 904 Special Session

Room 14c

### GI haemorrhage

Moderators: C. De Vries (Bloemfontein/ZA), J. Golzarian (Minneapolis, MN/US)

904.1 Imaging of acute and chronic upper and lower GI bleeding: is CTA all we need?

L. Defreyne (Ghent/BE)

- 904.2 Which embolic agent does the embolic differ for upper and lower GI tract embolization?

  P. Waldenberger (Linz/AT)
- 904.3 The role of provocative angiography and prophylactic embolization F.S. Keller (Portland, OR/US)
- 904.4 Should we be concerned about the risk of bowel infarction what is the evidence? P.E. Huppert (Darmstadt/DE)

10:00-11:00

### **CM 905 CIRSE meets Germany**

Room 14a

Moderators: T.K. Helmberger (Munich/DE), J. Tacke (Passau/DE)

Introduction by the moderators

905.1 Professional policies

D. Vorwerk (Ingolstadt/DE)

905.2 Quality management, software tools for quality assurance

L.J.G. Heuser (Bochum/DE)

905.3 Continuing education, certification

P. Reimer (Kalsruhe/DE)

Panel discussion with A. Buecker (DRG), J.H. Peregrin (CIRSE) and M.F. Reiser (ESR)

10:30-12:30

# VAT-HoW 1 Hands-on Workshop

Room B11

# Vertebral augmentation techniques – vertebroplasty

Coordinators: A. Gangi (Strasbourg/FR), T. Sabharwal (London/UK) Instructors: J. Garnon (Strasbourg/FR), G. Tsoumakidou (Athens/GR)

11:30-12:30

# FC 1001 Foundation Course

Room 14b

# Management of benign biliary disease

Moderator: A. Adam (London/UK)

1001.1 MRCP techniques in benign biliary disease

P. Reimer (Karlsruhe/DE)

1001.2 Techniques to access the non-dilated biliary tract

H. van Overhagen (The Hague/NL)

1001.3 How to manage benign strictures and calculi

A. Hatzidakis (Iraklion/GR)

1001.4 How to manage bile leaks and postsurgical complications

D.F. Martin (Manchester/UK)



# SS 1002 Special Session

Room 14c

Carotid lesions

Moderators: T. Buckenham (Christchurch/NZ), M. Szczerbo-Trojanowska (Lublin/PL)

1002.1 Update on recent trials for symptomatic and asymptomatic patients

K. Mathias (Dortmund/DE)

1002.2 Plaque imaging characterization: how it relates to treatment modality selection

T. Saam (Munich/DE)

1002.3 Restenosis: when and how to treat

S. Macdonald (Newcastle-upon-Tyne/UK)

11:30-12:30

# SS 1003 Special Session

Room 13b

Lung cancer

Moderators: P.L. Pereira (Heilbronn/DE), D.K. Filippiadis (Athens/GR)

1003.1 Clinical and imaging indications: how to select the patient

G. Carrafiello (Varese/IT)

1003.2 RFA in primary and metastatic lung cancer: technical tips and tricks

L. Hechelhammer (St. Gallen/CH)

1003.3 Update on results of RFA treatment

A. Gillams (London/UK)

1003.4 Image guided radiation therapy versus interventional radiology

C. Greco (Pisa/IT)

11:30-12:30

# SS 1004 Special Session

Room 2

Innovators in IR

Moderators: D.A. Kelekis (Athens/GR), F.S. Keller (Portland, OR/US)

1004.1 The Guenther Tulip filter

R.W. Günther (Aachen/DE)

1004.2 The early days of embolization

J.F. Reidy (London/UK)

1004.3 The Bolia technique

A. Bolia (Leicester/UK)

1004.4 The development of MR guided interventional radiology

W.M. Gedroyc (London/UK)

11:30-12:30

e-voting

Room 13a

### ICS 1005 Interactive Case Session

Stroke management

1005.1 T. Liebig (Cologne/DE)

1005.2 K.A. Hausegger (Klagenfurt/AT)

11:30-12:30

# IVC-HoW 2 Hands-on Workshop

Room 22

**IVC filters** 

Coordinators: M.R. Sapoval (Paris/FR), A.F. Watkinson (Exeter/UK) Instructors: F.G. Barral (Saint Etienne/FR), M.A. de Gregorio (Zaragoza/ES), P. Larini (Parma/IT), O. Pellerin (Paris/FR) 12:45-14:15

# TA-HoW 3 Hands-on Workshop

Room 5

### Tumour ablation: tips and tricks - liver

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT) Instructors: R. Bale (Innsbruck/AT), A. Gillams (London/UK), O. Seror (Bondy/FR)

13:00-14:00

### SY 1101 Satellite Symposium

**Auditorium 1** 

### **Abbott Vascular**

### **Advancing lower limb treatment**

Moderator: F. Fanelli (Rome/IT)

1101.1 Bravissimo: experience with balloon and self-expandable stents in iliacs - 12 month results

M. Bosiers (Dendermonde/BE)

1101.2 SFA: PTA or stenting - 5 year results

H. Schroe (Genk/BE)

1101.3 The next revolution in treating infra-popliteal lesions: bioresorbable vascular scaffold *D. Scheinert (Leipzig/DE)* 

13:00-14:00

# SY 1102 Satellite Symposium

Room 14c

**Boston Scientific** 

### TASC II vs. innovation: should practice be driven by the future or the past?

Moderator: T.J. Cleveland (Sheffield/UK)

Above the knee

1102.1 Good old surgery

E. Ducasse (Bordeaux/FR)

1102.2 Every lesion can be crossed

M. Åkesson (Malmoe/SE)

1102.3 Now I can treat every lesion

A. Schmidt (Leipzig/DE)

Panel discussion

Below the knee

1102.4 What does my surgeon want

M. Åkesson (Malmoe/SE)

1102.5 How distal can you go

A. Schmidt (Leipzig/DE)

1102.6 The stent dilemma

E. Ducasse (Bordeaux/FR)

Panel discussion

13:00-14:00

### SY 1103 Satellite Symposium

Room 14a

# Terumo Europe

### Lower limb long occlusions: how should we treat?

Moderator: S. Müller-Hülsbeck (Flensburg/DE)

1103.1 Current treatment of long occlusion: standard practices, limitations, challenges

M. Manzi (Abano Terme/IT)

1103.2 Subintimal angioplasty: latest techniques with newest devices

A. Bolia (Leicester/UK)

1103.3 Clinical challenges of long occlusion stenting

K.-L. Schulte (Berlin/DE)

1103.4 Technical aspects of long occlusion stenting

S. Müller-Hülsbeck (Flensburg/DE)

14:30-16:15

### **Hot Topic Symposium / Andreas Gruentzig Lecture**

**Auditorium 1** 

14:30-15:30

HTS 1201 Hot Topic Symposium: Is CCSVI a real entity?

Should we treat MS patients with CCSVI by venoplasty?

Moderator: D. Vorwerk (Ingolstadt/DE)

Introduction by the moderator

1201.1 The Neurologist's view: basics and clinical signs of MS G. Ochs (Ingolstadt/DE)

1201.2 Venous congestion in CCSVI: research data *F. Doepp (Berlin/DE)* 

1201.3 CCSVI is real and we should treat MS patients by venoplasty *M.D. Dake (Stanford, CA/US)* 

1201.4 There is no evidence for CCSVI or its treatment in MS patients J.A. Reekers (Amsterdam/NL)

Panel discussion

Closing remarks by the moderator

15:30-16:15

### **HL 1202** Andreas Gruentzig Lecture

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

1202.1 Evidence based interventional radiology - not how but if and when J.G. Moss (Glasgow/UK)

14:30-15:30

# SY 1203 Satellite Symposium

Siemens

Innovations in interventional radiology

Moderator: M.F. Reiser (Munich/DE)

1203.1 Perspectives of interventional oncology

J. Lammer (Vienna/AT)

1203.2 Perspectives of cardiovascular interventions

B.S. Tan (Singapore/SG)

1203.3 Perspectives of neuro interventions

A. Dörfler (Erlangen/DE)

16:00-18:00

# VAT-HoW 2 Hands-on Workshop

Room B11

Room 14a

Vertebral augmentation techniques – vertebroplasty & kyphoplasty

Coordinators: A. Gangi (Strasbourg/FR), T. Sabharwal (London/UK) Instructors: C.A. Binkert (Winterthur/CH), J. Garnon (Strasbourg/FR)

# FP 1301 Free Papers

Room 4b

### **Abdominal non-vascular interventions**

Moderators: D.F. Martin (Manchester/UK), M. Walkden (London/UK)

- 1301.1 Percutaneous endobiliary RFA and ductoplasty for biliary patency restoration: an early experience <u>M. Mizandari</u><sup>1</sup>, N. Habib<sup>2</sup>, G. Spanderashvili<sup>1</sup>; <sup>1</sup>Tbilisi/GE, <sup>2</sup>London/UK
- 1301.2 Percutaneous transhepatic management of non-anastomotic biliary stricture with plastic endoprostheses in the liver transplantation: evaluation of efficacy and feasibility

  J. Baek, J.K. Han, J.Y. Lee, S.H. Kim, J.M. Lee, B.-l. Choi; Seoul/KR
- 1301.3 A randomised controlled study on the effectiveness of 'antireflux' stent versus 'standard open' for inoperable tumours of gastro oesophageal junction and in the prevention of symptomatic gastro-oesophageal reflux M.J. Kaduthodil¹, A.S. Lowe¹, A. Thrower², D. Prasad¹, S. Punekar¹, S. Stephenson¹, C. Jackson¹, C. Kay¹; ¹Bradford/UK, ²Basingstoke/UK
- 1301.4 Our successful experience of 59 transcutaneous stenting procedures on main pancreatic duct in cases of complicated chronic obstructive pancreatitis
  <u>S.N. Grigoriev</u>, O.I. Okhotnikov, V.A. Beloserov; Kursk/RU
- 1301.5 Powdered collagen for transhepatic track embolisation after percutaneous biliary intervention J.E. Kirk<sup>1</sup>, W. McManus<sup>2</sup>, J.C. Jobling<sup>1</sup>, D. Mullan<sup>2</sup>, H.-U. Laasch<sup>2</sup>; <sup>1</sup>Nottingham/UK, <sup>2</sup>Manchester/UK
- 1301.6 Colorectal stenting in large bowel obstruction: our experience <u>S. Dixon</u>, D. Chung, E.M. Anderson, C. Cunningham, S. Anthony, M. Bratby, J. Philips-Hughes, R. Uberoi; Oxford/UK

16:30 - 17:30

# FP 1302 Free Papers

Room 13a

# Bone, spine and soft tissue intervention 1

Moderators: V.D. Souftas (Alexandroupolis/GR), S.M. Tutton (Milwaukee, WI/US)

- 1302.1 Cryoablation/vertebroplasty versus radiofrequency/vertebroplasty in neoplastic vertebral localisation S. Masala, F. Massari, M. Mammucari, D.A. Bartolucci, R. Fiori, G. Simonetti; Rome/IT
- 1302.2 Has the percutaneous vertebroplasty a role in preventing local tumor progression/recurrence in spinal breast cancer metastases?

B. Roedel, F. Clarençon, S. Touraine, E. Cormier, M. Rose, S. Neuenschwander, J. Chiras; Paris/FR

- 1302.3 Comparative prospective study upon load distribution variation among patients with vertebral fractures treated with percutaneous vertebroplasty and a control group of healthy volunteers

  M. Tsitskari, A.D. Kelekis, D.K. Filippiadis, C. Verqadis, A. Mazioti-Filippiadis, E. Brountzos, N.L. Kelekis; Chaidari/ Athens/GR
- 1302.4 Analysis of risk factors for pathological fracture after cementoplasty of metastasis of the proximal femur F. Deschamps, A. Hakimé, C. Teriitehau, T. de Baère; Villejuif/FR
- 1302.5 One-year survey of two different ultrasound (US)-guided percutaneous treatments of lateral epicondylitis: results of a randomised controlled trial
  - G. Ferrero, D. Orlandi, E. Fabbro, L.M. Sconfienza, E. Silvestri; Genoa/IT,
- 1302.6 Percutaneous vertebroplasty with CT-rotational fluoroscopy imaging technique A. Cannavale, F. Fanelli, M. Corona, M. Allegritti, E. Boatta, R. Passariello; Rome/IT





### FP 1303 Free Papers

### Room 13b

### **Embolotherapy**

Moderators: L.C. Johnston (Belfast/UK), J. Raja (London/UK)

- 1303.1 Peripheral and visceral embolotherapy with ethylene vinyl alcohol copolymer (Onyx): incidence of non-target vessel embolization and ischemic complications
  - R. Müller-Wille, N. Zorger, P. Wiggermann, R. Forbrig, W. Uller, S. Schleder, C. Stroszczynski, P. Heiss; Regensburg/DE
- 1303.2 Contrast-enhanced magnetic resonance angiography as a screening procedure for the initial detection of pulmonary arterio-venous malformations and for follow-up after embolization therapy in patients with HHT

  <u>A. Massmann¹</u>, P. Fries¹, M. Wirth¹, U.W. Geisthoff², A. Buecker¹, G. Schneider¹; ¹Homburg/DE, ²Cologne/DE
- 1303.3 The safety and outcome of prostatic artery embolization to treat benign prostatic hyperplasia <u>J.M. Pisco</u>, L.C. Pinheiro, T. Bilhim, H.A.M. Rio Tinto, V.V. Santos, A.G. Oliveira, J. O'Neill; Lisbon/PT
- 1303.4 Haemophilic chronic sinovitis: therapy of haemarthrosis using endovascular embolization in knee and elbow <u>E. Galli</u>, H. Caviglia, N. Moretti; Buenos Aires/AR
- 1303.5 Treatment of peripheral vascular malformation: a new concept of low pressure sclerotherapy K.R. Hamza; Tunis/TN
- 1303.6 MR-guided percutaneous embolization of low-flow vascular malformations: initial experience using a hybrid MR/X-ray fluoroscopy system
  - C.R. Weiss, A.J. Flamming, W. Gilson, D.L. Kraitchman, S. Mitchell, J.S. Lewin; Baltimore, MD/US

16:30 - 17:30

### FP 1304 Free Papers

Room 3

### **EVAR and TEVAR 1**

Moderators: M. Gschwendtner (Linz/AT), E.L. Verhoeven (Nuremberg/DE)

- 1304.1 Endovascular renal chimney stent-graft technique in patient with hostile proximal neck: technique and acute/mid-term results
  - G. Piccoli, V. Gavrilovic, <u>D. Gasparini</u>; Udine/IT
- 1304.2 A mid- to long-term experience of clinical efficacy and cost per quality-adjusted–life years with pararenal endovascular aortic repair (PEVAR) without fenestration for pararenal AAA compared with open surgical repair <a href="S. Sultan">S. Sultan</a>, N. Hynes; Galway/IE
- 1304.3 Aneurysmal extension to the iliac bifurcation: comparison of bell-bottom technique versus hypogastric exclusion
  - <u>P.A. Naughton</u><sup>1</sup>, M.S. Park<sup>2</sup>, A. Moriarty<sup>1</sup>, E.A. Kheirelseid<sup>1</sup>, M.P. Colgan<sup>1</sup>, D.J. Moore<sup>1</sup>, S.M. O'Neill<sup>1</sup>, H.E. Rodriguez<sup>2</sup>, M.D. Morasch<sup>2</sup>, P. Madhavan<sup>1</sup>, M.K. Eskandari2; <sup>1</sup>Dublin/IE, <sup>2</sup>Chicago, IL/US
- 1304.4 Frequency and significance of type II endoleaks after endovascular repair of abdominal aortic aneurysms during long-term follow-up
  - R. Nolz, C. Plank, M.A. Funovics, U. Asenbaum, A.G. Wibmer, H. Teufelsbauer, J. Lammer, M. Schoder; Vienna/AT
- 1304.5 A conformable stentgraft for the arch: results on the the first 94 patients <u>J.S. Brunkwall</u><sup>1</sup>, T. Larzon<sup>2</sup>, N. Mangialardi<sup>3</sup>, P.R. Taylor<sup>4</sup>, D. Boeckler<sup>5</sup>; <sup>1</sup>Cologne/DE, <sup>2</sup>Örebro/SE, <sup>3</sup>Rome/IT, <sup>4</sup>London/UK, <sup>5</sup>Heidelberg/DE
- 1304.6 Zonal variations in the size of the atherosclerotic aortic arch during cardiac cycle and their implications on endovascular stenting
  - S. Puppala, C. Dadnam, M. Darby; Leeds/UK



# FP 1305 Free Papers

Room 4a

**TIPS** 

Moderators: F. Boyvat (Ankara/TR), A. Krajina (Hradec Králové/CZ)

- 1305.1 Transjugular intrahepatic portosystemic shunt (TIPS) creation as treatment for refractory chylous ascites and chylothorax in patients with cirrhosis

  T. Kinney, S. Kikolski; San Diego, CA/US
- 1305.2 De novo TIPS (transjugular intrahepatic portosystemic shunt) creation with an ePTFE stentgraft in patients with intractable ascites: long-term follow-up <u>M. Cejna</u><sup>1</sup>, M.T. Schmook<sup>2</sup>, M. Peck-Radosavljevic<sup>2</sup>, B. Payer<sup>2</sup>, J. Kettenbach<sup>3</sup>, M. Schoder<sup>2</sup>, J. Lammer<sup>2</sup>; <sup>1</sup>Feldkirch/AT, <sup>2</sup>Vienna/AT, <sup>3</sup>Bern/CH
- 1305.3 Percutaneous staged intervention for congenital porto-systemic shunts (CPSS) with portal venous hypoplasia (PVH)

E. Bruckheimer, E. Atar, T. Dagan, R. Shapira, M. Schwartz, E. Birk; Petach Tikva/IL

- 1305.4 Correlative analysis between pre-TIPS MELD, pre- and post-TIPS portosystemic gradients and quantitative digitally subtracted portography parameters: a potential for predicting post-TIPS outcomes W. Saad¹, C.L. Anderson¹, A.R. Reynolds², M. Kowarschik³, U.C. Turba¹, S. Sabri¹, A.W. Park¹, J. Stone¹, A.H. Matsumoto¹, J.F. Angle¹; ¹Charlottesville, VA/US, ²Charlottesville, VA/US, ³Forchheim/DE
- 1305.5 Technical and clinical outcome of transjugular intrahepatic portosystemic stent: shunt bare metal stents versus polytetrafluoroethylene-covered stent grafts

  <u>B.A. Radeleff</u><sup>1</sup>, C.M. Sommer<sup>1</sup>, T. Gockner<sup>1</sup>, U. Stampfl<sup>1</sup>, N. Bellemann<sup>1</sup>, G.M. Richter<sup>2</sup>, H.U. Kauczor<sup>1</sup>; <sup>1</sup>Heidelberg/DE, <sup>2</sup>Stuttgart/DE
- 1305.6 Transjugular intrahepatic portosystemic stent-shunt placement in liver-transplant recipients P.P. Goffette, O. Ciccarelli, E. Bonacorsi, X. Wittebole, J. Lerut; Brussels/BE

16:30 - 17:30

# FP 1306 Free Papers

Room 14c

Oncologic IR 1

Moderators: T. Pfammatter (Zurich/CH), R. Yamada (Osaka/JP)

- 1306.1 Percutaneous cryoablation of renal tumors: initial experience in 95 tumors X. Buy, J. Garnon, G. Tsoumakidou, J.F. Cabral, H. Lang, A. Gangi; Strasbourg/FR
- 1306.2 Repeated liver percutaneous isolated localized perfusion (Liver-PILP) with occlusion balloons and a catheter-based stent-graft-like perfusion device: first two human interventions

  G. Maleux<sup>1</sup>, S. Heye<sup>1</sup>, F. De Buck<sup>1</sup>, C. Huygens<sup>1</sup>, H. Prenen<sup>1</sup>, K.J. Nackard<sup>2</sup>, E.J. Bartholomé<sup>2</sup>, D. Monbaliu<sup>1</sup>, C. Verslype<sup>1</sup>,

  M. Van de Velde<sup>1</sup>, E. Van Cutsem<sup>1</sup>; <sup>1</sup>Leuven/BE, <sup>2</sup>Brussels/BE
- 1306.3 Trans-arterial chemoembolization of liver metastases from colorectal cancer adopting drug-eluting beads loaded with irinotecan compared with FOLFIRI: results at two years of a phase III clinical trial M. Tilli<sup>1</sup>, C. Aliberti<sup>1</sup>, I. Marri<sup>1</sup>, S. Dallara<sup>1</sup>, G. Fiorentini<sup>2</sup>, G. Benea<sup>1</sup>; <sup>1</sup>Lagosanto/IT, <sup>2</sup>Empoli/IT
- 1306.4 Single center prospective phase II trial of Yttrium-90 radioembolization for treatment of colorectal liver metastases that have failed first line chemotherapy and prior to initiation of second line chemotherapy: study design and early results <u>S.C. Rose</u><sup>1</sup>, E. Roeland<sup>2</sup>, K. Shimabukuro<sup>2</sup>, P. Fanta<sup>2</sup>, B. Parker<sup>2</sup>, Y. Kono<sup>1</sup>, T. Reid<sup>2</sup>; <sup>1</sup>San Diego, CA/US, <sup>2</sup>La Jolla, CA/US
- 1306.5 Radiofrequency-assisted intact specimen biopsy of breast tumors: an evaluation according to the IDEAL guidelines S.C.E. Diepstraten, H.M. Verkooijen, P.J. van Diest, A.M. Fernandez-Gallardo, K.M. Duvivier, A.J. Witkamp, T. van Dalen, W.P.T.M. Mali, M. van den Bosch; Utrecht/NL
- 1306.6 The size of drug-loaded microspheres influences the local drug delivery and toxicity

  J. Namur¹, S.H. Ghegediban¹, J.-P. Pelage², V. Verret¹, M. Manfait³, M. Wassef¹, A. Laurent¹; ¹Paris/FR, ²Boulogne/FR, ³Reims/FR





Munich 2011 Sunday, September 11 9

16:30 - 17:30

### FP 1307 Free Papers

Room 2

### **Venous interventions 1**

Moderators: P.E. Andersen (Odense/DK), G. Simonetti (Rome/IT)

- 1307.1 IVC filter placement: a comparison of CIRSE and BCSH guidelines

  J.C. Du Plessis, V.L. Campbell, J. Anderson, J. Gordon-Smith; Edinburgh/UK
- 1307.2 Fracture and distal migration of the Bard recovery filter: a retrospective study with follow-up of 363 patients over 7 years

<u>W. Wang</u><sup>1</sup>, M.D. Tam<sup>2</sup>, M.J. Sands<sup>1</sup>, J. Spain<sup>1</sup>; <sup>1</sup>Cleveland, OH/US, <sup>2</sup>Norwich/UK

I.M. Nordon, R.J. Hinchliffe, R. Brar, P. Moxey, S. Black, M. Thompson, I. Loftus; London/UK

featured paper

- 1307.3 Paclitaxel-eluting balloon angioplasty versus plain balloon dilatation for the treatment of failing dialysis access: a prospective randomized controlled trial (NCT01174472)
  - <u>P.M. Kitrou</u>, K.N. Katsanos, A. Diamantopoulos, S. Spiliopoulos, N. Christeas, D. Karnabatidis, D. Siablis; Patras/GR
- 1307.4 A prospective double-blind randomised controlled trial of radiofrequency versus laser treatment of great saphenous varicose veins
- 1307.5 Comparative rates of stenosis progression in treated symptomatic and untreated asymptomatic central vein stenoses in dialysis fistulas
- <u>C.J. Renaud</u><sup>1</sup>, M. Francois<sup>2</sup>, A. Nony<sup>3</sup>, M. Fodil-Cherif<sup>4</sup>, L. Turmel-Rodrigues<sup>2</sup>; <sup>1</sup>Singapore/SG, <sup>2</sup>Tours/FR, <sup>3</sup>Bourges/FR, <sup>4</sup>Blois/FR 1307.6 Stenting as an effective treatment of superior vena cava syndrome: review of 217 cases a single centre experience
- 1307.6 Stenting as an effective treatment of superior vena cava syndrome: review of 217 cases a single centre experience <u>S. Kudrnova</u>, B. Nemes, E. Rimely, K. Hüttl; Budapest/HU

16:30 - 17:30

FP 1308 Free Papers

Room 14b

PVD 1

Moderators: H. Manninen (Kuopio/FI), J.F. Reidy (London/UK)

- 1308.1 The pacifier trial. A randomized multicenter trial evaluating prevention of restenosis with paclitaxel-coated PTA balloon catheters in stenosis or occlusion of femoropopliteal arteries: first report

  M. Werk, T. Albrecht, D.R. Meyer, H. Stiepani, B. Schnorr, E. Lopez-Hänninen; Berlin/DE
- 1308.2 Transfemoral and transtibial combined approach in subintimal recanalization of SFA obstructions extending on popliteal and distal vessel origin
  R. Gandini, A. Spinelli, G. Loreni, A. Chiaravalloti, G. Simonetti; Rome/IT
- featured paper
- 1308.3 The ACHILLES study, a prospective, randomized, multicenter comparison of balloon angioplasty and CYPHER SELECT® plus stent implantation in the treatment of patients with ischemic infrapopliteal arterial disease K.N. Katsanos¹, D. Siablis¹, T. Zeller², J. Lammer³, M. Bosiers⁴, P. Commeau⁵, H. Krankenberg⁶, I. Baumgartner⁻, P. Rubino⁶, K. Brechtelゥ, V. Geist¹⁰, P.E. Huppert¹¹, J.H. Peregrin¹², W. Lansink¹³, P. Sidhu¹⁴, P. Magnan¹⁵, M. Van Ransbeeck¹⁶, H.-P. Stoll¹⁻, D. Scheinert¹®; ¹Rion/GR, ²Bad Krozingen/DE, ³Vienna/AT, ⁴Dendermonde/BE, ⁵Ollioules/FR, ⁶Hamburg/DE, ¬Bern/CH, 

  8Mercogliano/IT, ⁰Tübingen/DE, ¹⁰Bad Segeberg/DE, ¹¹Darmstadt/DE, ¹²Prague/CZ, ¹³Genk/BE, ¹⁴Londen/UK, ¹⁵Marseille/FR, 

  16Waterloo/BE, ¹¬Bridgewater, NJ/US, ¹8Leipzig/DE
- 1308.4 Risk factors using the Angio-Seal vascular closure device after antegrade puncture <u>P. Minko</u>, A. Buecker, M. Katoh; Homburg/DE
- 1308.5 Reversal of a retrograde to an antegrade access for bilateral femorocrural intervention in one session <u>C. Neumann</u><sup>1</sup>, R. Dorffner<sup>2</sup>; <sup>1</sup>Vienna/AT, <sup>2</sup>Eisenstadt/AT
- 1308.6 Endovascular revascularization for limb salvage in diabetic patients: procedural and clinical results *R. Gandini, G. Loreni, C. Del Giudice, M. Stefanini, S. Spano, G. Simonetti; Rome/IT*

### FP 1309 Free Papers

Room 14a

### Oncologic IR 2

Moderators: L. Lønn (Copenhagen/DK), G.-J. Teng (Nanjing/CN)

1309.1 Multimodality HCC treatment with TACE and RFA for unresectable HCC

T.F. Jakobs, N. Ashoori, P.M. Paprottka, R.-T. Hoffmann, F. Kolligs, M. Rentsch, M.F. Reiser; Munich/DE

- 1309.2 Treatment of HCC with an ultrasound-activated microbubble drug carrier in a rat model <u>S. White</u>, M.C. Cochran, J. Eisenbrey, M.A. Wheatley, M.C. Soulen; Philadelphia, PA/US
- 1309.3 Extrahepatic arterial embolization to treat hepatoma: what are they and how to do it J. Wang; Nanjing/CN
- 1309.4 Transarterial chemoembolization with doxorubicin-eluting microspheres for inoperable hepatocellular carcinoma <u>S.P. Kalva</u>, K. Yeddula, S.M. Brannan, B. Somarouthu, S. Ganguli, L. Blaszkowsky, S. Wicky, A. Zhu; Boston, MA/US
- 1309.5 Hepatocellular carcinoma: computed-tomography-guided high-dose-rate brachytherapy (CT-HDRBT) ablation of large (5-7 cm) and very large (>7 cm) tumors
  - <u>F. Collettini</u><sup>1</sup>, D. Schnapauff<sup>1</sup>, A. Poellinger<sup>1</sup>, T. Denecke<sup>1</sup>, E. Schott<sup>1</sup>, T. Berg<sup>2</sup>, P. Wust<sup>1</sup>, B. Hamm<sup>1</sup>, B. Gebauer<sup>1</sup>; <sup>1</sup>Berlin/DE, <sup>2</sup>Leipzig/DE
- 1309.6 Liver and biliary injuries following transarterial chemoembolization of endocrine tumors and hepatocellular carcinoma: lipiodol versus drug-eluting beads

<u>B. Guiu</u><sup>1</sup>, F. Deschamps<sup>2</sup>, S. Aho<sup>1</sup>, F. Munck<sup>2</sup>, C. Dromain<sup>2</sup>, V. Boige<sup>2</sup>, S. Leboulleux<sup>2</sup>, M. Ducreux<sup>2</sup>, E. Baudin<sup>2</sup>, T. de Baère<sup>2</sup>; <sup>1</sup>Dijon/FR, <sup>2</sup>Villejuif/FR

16:30-18:00

# CD-HoW 2 Hands-on Workshop

Room 21

# A closer look at closure devices

Coordinators: L. Lønn (Copenhagen/DK), J. Tacke (Passau/DE) Instructors: A. Altenburg (Wuppertal/DE), T. Larzon (Örebro/SE), J.C. van den Berg (Lugano/CH)

16:30-18:00

### EMT-HoW 1 Hands-on Workshop

Room 22

# Embolization: materials and tools - coils & plugs

Coordinators: M.J. Lee (Dublin/IE), S.J. McPherson (Leeds/UK)
Instructors: L. Boyer (Clermont Ferrand/FR), J. Golzarian (Minneapolis, MN/US),
P.J. Haslam (Newcastle-upon-Tyne/UK), H.-J. Wagner (Berlin/DE), E.M. Walser (Jacksonville, FL/US)

16:30-18:00

# TA-HoW 4 Hands-on Workshop

Room 5

# Tumour ablation: tips and tricks – liver

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT)

Instructors: T. Albrecht (Berlin/DE), J. Evans (Liverpool/UK), G. Tsoumakidou (Athens/GR)





Munich 2011 Sunday, September 11 99

17:45-18:45

WS 1401 Workshop

Room 14b

**UFE advanced workshop** 

1401.1 J. Spies (Washington, DC/US) 1401.2 J.-P. Pelage (Boulogne/FR)

17:45-18:45

WS 1402 Workshop

Room 2

Revascularization tips in acute stroke management: interactive discussion

1402.1 *I.Q. Grunwald (Oxford/UK)*1402.2 *D. Vorwerk (Ingolstadt/DE)* 

17:45-18:45

WS 1403 Workshop

Room 4a

Ablation techniques for hepatic lesions

1403.1 J. Ciampi Dopazo (Toledo/ES)1403.2 C. Stroszczynski (Regensburg/DE)

17:45-18:45

WS 1404 Workshop

Room 13a

The diabetic foot: an integrated IR approach

1404.1 R. Gandini (Rome/IT) 1404.2 K.N. Katsanos (Patras/GR)

17:45-18:45

WS 1405 Workshop

Room 3

 $\label{thm:bone} \textbf{Bone and spine tumours: consolidation, ablation, decompression}$ 

1405.1 F. Aparisi (Valencia/ES)

1405.2 S.M. Tutton (Milwaukee, WI/US)

17:45-18:45

RWS 1406 EFRS Workshop 2

Room 4b

The use of E-learning in training radiographers in interventional radiology

1406.1 *I.-C. Slingsby (Vienna/AT)* 

17:45-18:45

SY 1407 Satellite Symposium

Room 14a

AGA Medical Corporation

Now a part of St. Jude Medical

Evidence-based embolization with the AMPLATZER® Family of Vascular Plugs

17:45-18:25

# SY 1408 Satellite Symposium

Room 14c

# **GE Healthcare**

Cone-beam CT guided interventions in oncology

Moderator: T. de Baère (Villejuif/FR)

1408.1 Needle guidance for percutaneous procedures

F. Deschamps (Villejuif/FR)

1408.2 Computerized tumour feeding vessel analysis and 3D navigation and guidance

T. de Baère (Villejuif/FR)

17:45-18:45

# SY 1409 Satellite Symposium

Room 13b

### **Merit Medical**

An interactive Satellite Symposium on emerging oncology and BPH therapies using microspheres

Moderator: M.R. Sapoval (Paris/FR)

1409.1 Overview: embolics and an introduction to novel IR techniques

M.R. Sapoval (Paris/FR)

1409.2 Prostatic artery embolization using Embosphere® Microspheres: a promising area for IR

F.C. Carnevale (Sao Paulo/BR)

1409.3 Prostate anatomy: relevant angiographic findings, tips and tricks – recorded LIVE cases F.C. Carnevale (Sao Paulo/BR)

1409.4 New applications for HepaSphere™ Microspheres in breast cancer metastatic lesions – clinical results S. Hori (Izumisano/JP)



Munich 2011 Monday, September 12

# Monday, September 12

08:00-08:20

SY 1501 Satellite Symposium

Room 2

**Spectranetics** 

Laser atherectomy for complex femoropopliteal disease and below the knee intervention

1501.1 A. Micari (Palermo/IT)

08:30-09:30

FC 1601 Foundation Course

Room 14a

**Management of vertebral fractures** 

Moderator: J.A. Carrino (Baltimore, MD/US)

1601.1 Clinical and imaging inclusion criteria

A.D. Kelekis (Athens/GR)

1601.2 Vertebral augmentation

A. Gangi (Strasbourg/FR)

1601.3 What can go wrong?

T. Sabharwal (London/UK)

1601.4 Clinical results and future developments

G.C. Anselmetti (Candiolo/IT)

08:30-09:30

SS 1602 Special Session

**Auditorium 1** 

**Long SFA occlusions** 

Moderators: P. Gkoutzios (London/UK), J.D.G. Rose (Newcastle-upon-Tyne/UK)

1602.1 How good are drug eluting balloons?

G. Tepe (Rosenheim/DE)

1602.2 How good are drug eluting stents?

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

1602.3 How good are stent grafts?

M. Schoder (Vienna/AT)

1602.4 Is there a role for atherectomy or cryoplasty?

M. Di Primio (Paris/FR)

08:30-09:30

SS 1603 Special Session

Room 13b

New frontiers in oncologic IR

Moderators: L. Crocetti (Pisa/IT), T. de Baère (Villejuif/FR)

1603.1 HIFU for prostate cancer

C. Cheng (Singapore/SG)

1603.2 Ablation of breast cancer

K.R. Tomkovich (Freehold, NJ/US)

1603.3 Head and neck malignancies *M.G. Mack (Frankfurt/DE)* 

1603.4 New non-thermal ablation techniques

R. Lencioni (Pisa/IT)

08:30-09:30

### SS 1604 Special Session

Room 14c

Introduction to acute stroke management:

decision making process based on imaging/clinical findings and getting started

Moderators: I. Saatci (Ankara/TR), D. Vorwerk (Ingolstadt/DE)

1604.1 Acute stroke imaging

A. Dörfler (Erlangen/DE)

1604.2 Indications for intervention: neurologist's view

E.M. Arsava (Ankara/TR)

1604.3 How to start an acute stroke practice in the angiography suite

K. Yavuz (Ankara/TR)

08:30-09:30

# **ICS 1605** Interactive Case Session

🥘 e-voting

Room 13a

General embolization

1605.1 V. Bérczi (Budapest/HU)1605.2 O.M. van Delden (Amsterdam/NL)

09:10-13:00

### **HoM 3 Hands-on Workshop**

Hands-on Masterclass / Managing critical limb ischaemia

Simulator Gallery (Training Village B0)

Coordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK) Session organizers: N. Chalmers (Manchester/UK), D.F. Ettles (Hull/UK) Instructors: R. Lakshminarayan (Hull/UK), S.J. McPherson (Leeds/UK)

HoM 3.1 Group 5 (09:10-11:00)

HoM 3.2 Group 6 (11:10-13:00)

10:00-11:00

### **FC 1701 Foundation Course**

Room 14a

Renal interventions

Moderator: H.-J. Wagner (Berlin/DE)

1701.1 CT and MR urography: what do they add to ultrasound?

C. Nolte-Ernsting (Mülheim/DE)

1701.2 Techniques for access to the non-dilated system

U. Patel (London/UK)

1701.3 How to manage the renal transplant obstruction and leak

J.H. Peregrin (Prague/CZ)

1701.4 Leaks, fistulas and postoperative complications

P.J. Haslam (Newcastle-upon-Tyne/UK)

10:00-11:00

# SS 1702 Special Session

Room 13a

**BTK recanalization** 

Moderators: R. Gandini (Rome/IT), J.A. Reekers (Amsterdam/NL)

1702.1 Imaging of the BTK circulation: state of the art

R. Uberoi (Oxford/UK)

1702.2 Conceptual approach to recanalization of crural arteries

K.A. Hausegger (Klagenfurt/AT)

1702.3 Treatment of pedal occlusive disease

T. Rand (Vienna/AT)

1702.4 Retrograde tibial artery recanalization

P.E. Huppert (Darmstadt/DE)

Munich 2011 Monday, September 12

10:00-11:00

# SS 1703 Special Session

Room 13b

### Oncologic IR under the microscope

Moderators: R. Lencioni (Pisa/IT), J.V. Patel (Leeds/UK)

1703.1 Tissue changes after tumour ablation: is there a clinical value?

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

- 1703.2 Tissue changes after tumour embolization: does chemotherapy truly add to the cytotoxic effects? J.-F.H. Geschwind (Baltimore, MD/US)
- 1703.3 Radioembolization: what are the cellular changes?

J.I. Bilbao (Pamplona/ES)

1703.4 Use of biomarkers as predictors of oncologic outcomes after intervention A. Denys (Lausanne/CH)

10:00-11:00

# SS 1704 Special Session

Room 14c

### How to treat an acute stroke patient

Moderators: M. Piotin (Paris/FR), K. Yavuz (Ankara/TR)

1704.1 Update on thrombolysis: intravenous and intraarterial

*J.R. Weber (Klagenfurt/AT)* 

- 1704.2 Revascularization techniques especially focusing on recent mechanical revascularization concepts *I.Q. Grunwald (Oxford/UK)*
- 1704.3 Complications and their management

J. Gralla (Bern/CH)

10:00-11:00

# SS 1705 Special Session

**Auditorium 1** 

# Renal denervation for resistant hypertension

Moderators: P. Haage (Wuppertal/DE), M. Uder (Erlangen/DE)

1705.1 How renal denervation may be effective for the treatment of resistant hypertension

P.J. Blankestijn (Utrecht/NL)

1705.2 Tools and basic technique

M.R. Sapoval (Paris/FR)

1705.3 Outcomes and trials

W.P.Th.M. Mali (Utrecht/NL)

11:30-12:30

# **SY 1801 Satellite Symposium**

Room 14c

# **AngioDynamics**

Irreversible electroporation: clinical experience, outcomes, and applications of this emerging focal ablation modality

Moderator: R. Lencioni (Pisa/IT)

- 1801.1 Irreversible electroporation (IRE): what is it, how is it different, and what role can it play? R. Lencioni (Pisa/IT)
- 1801.2 Safety and efficacy of irreversible electroporation (IRE) in the treatment of primary HCC V. Vilgrain (Clichy/FR)
- 1801.3 Non-thermal ablation using irreversible electroporation (IRE): U.S. clinical experience R.C. Martin (Louisville, KY/US)

11:30-12:30

# **SY 1802 Satellite Symposium**

Cordis, CCVI

# Challenges and solutions in CLI treatment

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

1802.1 Advanced endovascular techniques in CLI treatment

P.E. Huppert (Darmstadt/DE)

1802.2 How to plan endovascular procedures based on the angiosome model of reperfusion

V. Alexandrescu (Marche-en-Famenne/BE)

1802.3 The role of drug eluting technologies for CLI

J. Lammer (Vienna/AT)

1802.4 Diabetic foot: what do the IWGDF consensus guidelines say?

J.A. Reekers (Amsterdam/NL)

11:30-12:30

# SY 1803 Satellite Symposium

**Terumo Europe** 

Drug-eluting beads: survival data

Moderator: M. Möhler (Mainz/DE)

1803.1 Five year survival data of HCC patients treated with DC Bead at Athens Centre

K. Malagari (Athens/GR)

1803.2 DEBIRI pharmacokinetics in an animal model

T. de Baère (Villejuif/FR)

1803.3 Final results of a prospective randomized trial assessing survival at 2 years of DEBIRI vs. FOLFIRI

in patients with hepatic metastases from colorectal cancer

G. Fiorentini (Empoli/IT)

1803.4 Treatment of colorectal liver metastases with DC Bead M1: preliminary results

P.E. Huppert (Darmstadt/DE)

11:30-12:30

# IVC-HoW 3 Hands-on Workshop

**IVC filters** 

Coordinators: M.R. Sapoval (Paris/FR), A.F. Watkinson (Exeter/UK)

Instructors: F.G. Barral (Saint Etienne/FR), M.A. de Gregorio (Zaragoza/ES),

P. Larini (Parma/IT), O. Pellerin (Paris/FR)

13:00-14:30

**General Assembly** Room 13a

13:00-14:00

# SY 1902 Satellite Symposium

**Cook Medical** 

How does Zilver® PTX® look today?

Moderator: M. Schillinger (Vienna/AT)

1902.1 Latest randomized trial update on Zilver PTX with sub-set data

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

1902.2 How I have changed my practice

A. Holden (Auckland/NZ)

1902.3 My clinical experience in stenting the SFA

M.R. Sapoval (Paris/FR)

1902.4 Choosing the optimal SFA treatment

A. Schmidt (Leipzig/DE)

**Auditorium 1** 

Room 14a

Room 22

**Auditorium 1** 

14:00-15:30

# ST-HoW 1 Hands-on Workshop

Room 11

### Stroke therapy

Coordinators: J. Berkefeld (Frankfurt/DE), K.A. Hausegger (Klagenfurt/AT) Instructors: J. Gralla (Bern/CH), T. Liebig (Cologne/DE), S. Rohde (Heidelberg/DE), C. Taschner (Freiburg/DE)

14:15-15:15

### SY 1903 Satellite Symposium

Room 14b

### **CeloNova BioSciences**

# New results and calibrated techniques for targeted embolization with Embozene® Microspheres

Moderators: A.-M. Belli (London/UK), P.E. Huppert (Darmstadt/DE)

1903.1 Embozene® Microspheres for UFE: imaging and clinical results in a multi center cohort study

A.J. Smeets (Tilburg/NL)

1903.2 Embozene® Microspheres for UFE: my technique and results

D. Siegel (New York, NY/US)

1903.3 Micro bland embolization in HCC treatment

F. Orsi (Milan/IT)

14:15-15:15

### SY 1904 Satellite Symposium

Room 14a

### ev3 Europe

### Science of combination therapy research in femoropopliteal treatment

Moderator: T. Zeller (Bad Krozingen/DE)

1904.1 Vision for combination therapy & DEFINITIVE AR

T. Zeller (Bad Krozingen/DE)

1904.2 Science of drug therapies in treatment of PAD

R. Virmani (Gaithersburg, MD/US)

1904.3 Technology innovation

P. Peeters (Bonheiden/BE)

1904.4 DEFINITIVE LE: interim analysis 6 months data

T. Zeller (Bad Krozingen/DE)

14:15-15:15

# SY 1905 Satellite Symposium

Room 14c

### Medtronic

### IN.PACT drug eluting balloon pre-clinical and clinical update

Moderator: G. Tepe (Rosenheim/DE)

1905.1 In.Pact DEB technology and pre-clinical programme

R.J. Melder (Santa Rosa, CA/US)

1905.2 DEB in the SFA: 6-month results from the PACIFIER randomized trial

M. Werk (Berlin/DE)

1905.3 DEB in AV fistulas: results from a randomized trial

D. Karnabatidis (Patras/GR)

1905.4 Below-the-knee and below-the-elbow: role of DEB in critical limb ischemia

R. Ferraresi (Milan/IT)

# Learning objectives:

- To provide an update on the preclinical and clinical data of In.Pact drug eluting balloon
- To understand the benefit and limitations of DEB application within a broad span of peripheral indications
- To discuss what else and more needs to be assessed to further establish DEB clinical evidence

15:30-16:30

# FIP 2001 Film Interpretation Panel

**Auditorium 1** 

Coordinators: C.A. Binkert (Winterthur/CH), A.D. Kelekis (Athens/GR), G.R. Plant (Basingstoke/UK)

Team Bayern Munich: Team Barcelona: Z. Haskal (Baltimore, MD/US) J.-F.H. Geschwing

Z. Haskal (Baltimore, MD/US)
 J.-F.H. Geschwind (Baltimore, MD/US)
 T.F. Jakobs (Munich/DE)
 N. Hacking (Southampton/UK)
 A. Lubienski (Minden/DE)
 J. Kettenbach (Bern/CH)
 M.R. Sapoval (Paris/FR)
 K. Malagari (Athens/GR)

16:15-17:45

# CD-HoW 3 Hands-on Workshop

Room 21

A closer look at closure devices

Coordinators: L. Lønn (Copenhagen/DK), J. Tacke (Passau/DE) Instructors: A. Altenburg (Wuppertal/DE), T. Larzon (Örebro/SE), J.C. van den Berg (Lugano/CH)

16:15-17:45

### EMT-HoW 2 Hands-on Workshop

Room 22

Embolization: materials and tools - coils & plugs

Coordinators: M.J. Lee (Dublin/IE), S.J. McPherson (Leeds/UK) Instructors: J. Golzarian (Minneapolis, MN/US), P.J. Haslam (Newcastle-upon-Tyne/UK), H. Hoppe (Bern/CH), H.-J. Wagner (Berlin/DE), E.M. Walser (Jacksonville, FL/US)

16:15-17:45

# TA-HoW 5 Hands-on Workshop

Room 5

Tumour ablation: tips and tricks - lung

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT) Instructors: L. Crocetti (Pisa/IT), R.F. Grasso (Rome/IT), J. Palussière (Bordeaux/FR)



### FP 2101 Free Papers

Room 14a

#### Bone, spine and soft tissue intervention 2

Moderators: A.D. Kelekis (Athens/GR), T. Sabharwal (London/UK)

- 2101.1 Does saline solution temperature influence patient short-term outcome of a double-needle ultrasound-guided treatment of calcifying tendinitis of the rotator cuff (CTRC)? The discovery of hot water <u>L.M. Sconfienza</u>, M. Bandirali, D. Orlandi, G. Ferrero, E. Fabbro, G. Serafini, E. Silvestri; Genoa/IT
- 2101.2 Augmented reality visualization using image-overlay for MR-guided interventions: assessment of accuracy for lumbar spinal procedures with a 1.5-Tesla MRI scanner

  J. Fritz, P. U-Thainual, T. Ungi, A. Flammang, N.B. Cho, G. Fichtinger, I. Iordachita, J.A. Carrino; Baltimore, MD/US
- 2101.3 Imaging evolution of Aperius® percutaneous interspinous spacer correlated to clinical outcome in a 1-year/5 time points single arm multicentric prospective study on 157 patients

H. Brat<sup>1</sup>, J. Van Meirhaeghe<sup>2</sup>; <sup>1</sup>Hornu/BE, <sup>2</sup>Brugge/BE

- 2101.4 Cervical infiltrations under CT guidance: potential risks (a 10-year experience)

  <u>D. Krause</u>, R. Loffroy, P.-H. Lefevre, V. Capitan, L. Estivalet, L. Chabanol, J.-P. Cercueil, B. Guiu; Dijon/FR
- 2101.5 Physiological saline as "contrast fluid" for test injections in MR-guided drug delivery?

  M. Deli¹, J. Fritz², S. Mateiescu¹, M. Busch¹, J. Becker¹, T. Paduch¹, M. Garmer¹, J.A. Carrino², D.H.W. Groenemeyer¹;

  ¹Bochum/DE, ²Baltimore, MD/US
- 2101.6 Efficacy of Discogel®-radiopaque gelified ethanol and ethylcellulose in the treatment of contained disc herniations: a preliminary experience
  - S. Marcia<sup>1</sup>, M. Bellini<sup>2</sup>, S. Marini<sup>1</sup>, E. Piras<sup>1</sup>, M. Marras<sup>1</sup>, G. Mallarini<sup>1</sup>; <sup>1</sup>Cagliari/IT, <sup>2</sup>Siena/IT

16:45 - 17:45

#### FP 2102 Free Papers

Room 13b

#### Oncologic IR 3

Moderators: V. Bérczi (Budapest/HU), W.S. Rilling (Milwaukee, WI/US)

- 2102.1 Transcatheter intra-arterial infusion of supradose cisplatinum with sodium thiosulfate rescue using bronchial or chest wall arteries to treat pulmonary or pleural malignancies: description of technique and preliminary results of a phase I study
  - S.C. Rose<sup>1</sup>, A. Karimi<sup>1</sup>, Y. Matusov<sup>2</sup>, W.L. Read<sup>2</sup>; <sup>1</sup>San Diego, CA/US, <sup>2</sup>La Jolla, CA/US
- 2102.2 Percutaneous cryoablation for the treatment of lung tumors

E. Huo, R.J. Lewandowski, R. Ryu, R. Salem, A. Nemcek, K.T. Sato; Chicago, IL/US

- $2102.3 \quad \textbf{A semi-automatic guide system for interventional radiology procedures of the lung} \\$ 
  - <u>R.F. Grasso</u>, E. Faiella, G. Luppi, F. Giurazza, F. D'Agostino, R.L. Cazzato, R. Del Vescovo, B. Beomonte Zobel; Rome/IT
- 2102.4 Histopathologic and immunohistochemical features of tissue adherent to multitined RF electrodes after ablation of lung malignancies: preliminary findings
  - C.T. Sofocleous, S.K. Garg, E.N. Petre, P. Cohen, M. Gonen, W. Alago, S.B. Solomon, R.H. Thornton, W. Travis; New York, NY/US
- 2102.5 18F-FDG PET/CT for therapy assessment in lung metastases treated by radiofrequency ablation: a multicenter prospective study (NCT 003382252)
  - <u>F. Bonichon</u><sup>1</sup>, J. Palussière<sup>1</sup>, A. Devillers<sup>2</sup>, C. Meunier<sup>2</sup>, S. Leboulleux<sup>3</sup>, T. de Baère<sup>3</sup>, C. Galy Lacour<sup>4</sup>, L. Lagoarde-Segot<sup>4</sup>, M. Pulido<sup>1</sup>, A.L. Cazeau<sup>1</sup>; 1Bordeaux/FR, <sup>2</sup>Rennes/FR, <sup>3</sup>Villejuif/FR, <sup>4</sup>Bayonne/FR
- 2102.6 Radiofrequency of lung metastases, midterm results
  - <u>T. de Baère</u><sup>1</sup>, J. Palussière<sup>2</sup>, F. Deschamps<sup>1</sup>, E. Descat<sup>2</sup>, A. Hakimé<sup>1</sup>, F. Cornelis<sup>2</sup>; <sup>1</sup>Villejuif/FR, <sup>2</sup>Bordeaux/FR



#### FP 2103 Free Papers

Room 4b

#### Portal and hepatic vein interventions

Moderators: P.P. Goffette (Brussels/BE), P.F. Sousa (Porto/PT)

- 2103.1 Combined treatment in early portal vein thrombosis after a pediatric liver transplantation

  I. Díez Miranda, J. Bueno, M. Pérez Lafuente, A. Romero, A. Gelabert-Barragán, R. Charco, I. Barber, A. Segarra; Barcelona/ES
- 2103.2 10-year single centre experience of endovascular management of Budd–Chiari syndrome <u>S. Kumar</u>, R.V. Phadkey; Lucknow/IN
- 2103.3 **Graft overperfusion: diagnosis and management in pediatric living donor liver transplants** *K.M. Baskin, C. Hunnicutt, K. Soltys; Pittsburgh, PA/US*
- 2103.4 The efficacy of digital subtraction angiography using carbon dioxide gas during balloon-occluded retrograde transvenous obliteration using foam sclerosants for gastric varices

  J. Koizumi¹, T. Hashimoto¹, K. Myojin¹, C. Ito¹, T. Hara¹, T. Ichikawa¹, T. Kagawa¹, S. Kojima¹, N. Watanabe¹, B.J. d'Othée²;

  ¹Isehara/JP, ²Baltimore, MD/US
- 2103.5 Portal vein embolization before right liver resection using a histoacryl/lipiodol mixture N. Bellemann, S. Kreimeyer, U. Stampfl, C.M. Sommer, H.U. Kauczor, B.A. Radeleff; Heidelberg/DE
- 2103.6 US-guided transhepatic puncture of hepatic veins for TIPS placement <u>C. Gazzera<sup>1</sup></u>, A. Veltri<sup>2</sup>, S. Piccinini<sup>1</sup>, C. Gallesio<sup>1</sup>, G. Gandini<sup>1</sup>, <sup>1</sup>Turin/IT, <sup>2</sup>Orbassano/IT

16:45 - 17:45

## FP 2104 Free Papers

Room 2

PVD 2

Moderators: N. Chalmers (Manchester/UK), S. Müller-Hülsbeck (Flensburg/DE)

- 2104.1 Rheolytic thrombectomy in the treatment of acute limb ischemia: interim results of a prospective multi-center registry M.J. Garcia<sup>1</sup>, R.A. Lookstein<sup>2</sup>, A. Amin<sup>3</sup>, L. Blitz<sup>4</sup>, D. Leung<sup>1</sup>, E. Simoni<sup>5</sup>, P. Soukas<sup>6</sup>; <sup>1</sup>Newark, DE/US, <sup>2</sup>New York, NY/US, <sup>3</sup>Reading, PA/US, <sup>4</sup>Pompton Plains/US, <sup>5</sup>Dayton, OH/US, <sup>6</sup>Providence, RI/US
- 2104.2 Five-year Irish trial of CLI patients with TASC II type C/D lesions undergoing subintimal angioplasty (SIA) or bypass surgery (BG) based on plaque echolucency
  S. Sultan, N. Hynes; Galway/IE
- 2104.3 Subintimal angioplasty for superficial femoral artery TASC II D lesions in critical limb ischemia: outcomes with and without stenting and value of stent position for secondary patency after subintimal channel occlusion R. Gandini, V. Da Ros, S. Spano, C. Del Giudice, S. Fabiano, E. Pampana, G. Simonetti; Rome/IT
- 2104.4 What with inadvertent subclavian artery puncture lesions? Percutaneous closure with a StarClose device P. Goverde, K. Wustenbergh, P. Verbruggen; Antwerp/BE
- 2104.5 Transradial vascular access for proximal iliofemoral percutaneous interventions: a single-center experience F. Marcos Sanchez, S. Rodriguez de Leiras Otero, C. Carrascosa Rosillo, M. Vizcaino Arellano, P. Cerrato Garcia, R. Ruiz Salmeron; Sevilla/ES
- 2104.6 Cost-effectiveness analysis of infrapopliteal drug-eluting stents for critical limb ischemia treatment K.N. Katsanos, A. Diamantopoulos, S. Spiliopoulos, D. Karnabatidis, D. Siablis; Patras/GR





#### FP 2105 Free Papers

Room 14c

#### **Venous interventions 2**

Moderators: A. Besim (Ankara/TR), C. Massa Saluzzo (Pavia/IT)

- 2105.1 Ultrasound accelerated thrombolysis for the treatment of pulmonary embolism <u>T. Engelhardt</u><sup>1</sup>, A.J. Taylor<sup>2</sup>, L. Simprini<sup>2</sup>; <sup>1</sup>Metairie, LA/US, <sup>2</sup>Washington DC/US
- 2105.2 Results of symptomatic chronic benign central venous occlusion recanalization with radiofrequency (RF) puncture wire technique
  - M. Guimaraes, R. Uflacker, C. Schonholz, C. Hannegan, B. Selby Jr; Charleston, SC/US
- 2105.3 Prevention of death from PE: are caval filters underused?
  - O.A. Harryman, D. Kopcke, E.W. Benbow, C. Hay, N. Chalmers; Manchester/UK
- 2105.4 Long-term follow-up of IVC filters: 24 years of all filters followed-up till death or the present day <u>G.R. Plant</u><sup>1</sup>, G. Ubhayakar<sup>1</sup>, I. Wilson<sup>2</sup>; <sup>1</sup>Basingstoke/UK, <sup>2</sup>Southampton/UK
- 2105.5 Device-related complications and effectiveness of the OptEase filter: a retrospective study of 149 cases <u>M.D. Tam</u>, D. Klass, M. Crawford, S. Girling, J. Saada, P. Wilson, J.F. Cockburn; Norwich/UK
- 2105.6 Rheolytic thrombectomy for deep vein thrombosis: a prospective multi-center registry report <u>M.J. Garcia</u><sup>1</sup>, R.A. Lookstein<sup>2</sup>, L. Blitz<sup>3</sup>, E. Simoni<sup>4</sup>, D. Leung<sup>1</sup>, A. Amin<sup>5</sup>, P. Soukas<sup>6</sup>; <sup>1</sup>Newark, DE/US, <sup>2</sup>New York, NY/US, <sup>3</sup>Pompton Plains/US, <sup>4</sup>Dayton, OH/US, <sup>5</sup>Reading, PA/US, <sup>6</sup>Providence, RI/US

16:45 - 17:45

#### FP 2106 Free Papers

Room 4a

#### Innovations in IR

Moderators: M. Bratby (Oxford/UK), D. Farsaris (Athens/GR)

- 2106.1 Parstatin inhibits contrast-induced nephropathy in an animal experimental model

  <u>A. Diamantopoulos</u>, K.N. Katsanos, S. Spiliopoulos, A. Karatzas, S. Vamvakopoulou, N. Tsopanoglou, D. Karnabatidis,
  D. Siablis; Patras/GR
- 2106.2 Endoureterotomy using Acucise balloon diathermy for the treatment of megaureter. Experimental study in an animal model
  - F. Soria, E. Morcillo, C. Martin, <u>V. Crisóstomo</u>, L.A. Rioja, M. Pamplona, C. Garcia-Peñalver, A. Lopez de Alda, F.M. Sánchez-Margallo; Caceres/ES
- 2106.3 Solitaire™ FR revascularization device: a retrospective study as a first line device for acute ischemic stroke J. Gralla¹, C. Castano², V. Mendes Pereira³, R. Chapot⁴, A. Bonafé⁵, T. Andersson⁶; ¹Bern/CH, ²Badalona Barcelona/ES, ³Geneva/CH, ⁴Essen/DE, ⁵Montpellier/FR, ⁶Stockholm/SE
- 2106.4 Pancreatic islet cell transplant: the outcomes of the first 50 patients

  J.B. Selby Jr., R. Uflacker, D. Adams, K. Morgan, C. Schonholz, S. Owczarski; Charleston, SC/US
- 2106.5 Feasibility of a dual microcatheter-dual interlocking detachable coil technique in preoperative embolization in preparation for distal pancreatectomy with en bloc celiac axis resection for locally advanced pancreatic body cancer <u>D. Abo</u>, Y. Hasegawa, Y. Sakuhara, S. Terae, T. Shimizu, E. Tanaka, S. Hirano, H. Shirato; Sapporo/JP
- 2106.6 Implantations of a resonant vena cava filter in a Thiel-embalmed cadaver under MRI guidance <u>E. Immel, R.J. Toomey, M. Gueorguieva, R. Eisma, A. Melzer; Dundee/UK</u>





### FP 2107 Free Papers

Room 13a

#### **Oncologic IR 4**

Moderators: S. Roy-Choudhury (Birmingham/UK), S.O. Schoenberg (Mannheim/DE)

- 2107.1 Pre-treatment intra-hepatic distribution of technetium-99m MAA does not correlate with the post-treatment distribution of yttrium-90 in radioembolization patients
  <u>C. Rosenbaum</u><sup>1</sup>, M. Lam<sup>1</sup>, M. van den Bosch<sup>1</sup>, L. Defreyne<sup>2</sup>, B. Lambert<sup>2</sup>; <sup>1</sup>Utrecht/NL, <sup>2</sup>Ghent/BE
- 2107.2 Transarterial hepatic yttrium-90 radioembolization in patients with unresectable intrahepatic cholangiocarcinoma: factors associated with prolonged survival

  P.M. Paprottka, R.-T. Hoffmann, F. Bamberg, C.G. Trumm, T.F. Jakobs, T.K. Helmberger, M.F. Reiser, F. Kolligs; Munich/DE
- 2107.3 Embolization of parasitized extrahepatic arteries to reestablish intrahepatic arterial supply to tumors prior to 90Y radioembolization
- M.H.K. Abdelmaksoud, J.D. Louie, N. Kothary, G.L. Hwang, W.T. Kuo, L.V. Hofmann, D.M. Hovsepian, D. Sze; Stanford, CA/US
   Effectiveness of repeat assessment in patients scheduled for radioembolization using yttrium-90 microspheres with extrahepatic 99mTc-MAA accumulation to the gastrointestinal tract: a single center experience
- S. Wilhelmsen, G. Ulrich, D. Löwenthal, M. Pech, H. Amthauer, J. Ricke, O. Dudeck; Magdeburg/DE
   The use of intra-arterial CT in addition to angiography and TC99-MAA to guide infusion of yttrium-90 for selective internal radiation therapy
   M.C. Burgmans, F.G. Irani, L.J.M. Soh, J.Z. Tan, M. Taneja, L.S. Khoo, T. Teo, Y.H. Kao, B.S. Tan, A.S.W. Goh, P.K. Chow, K.H. Tay,
- R. Lo; Singapore/SG
   2107.6 Colorectal cancer liver metastases: percutaneous tumor ablation with computed-tomography-guided high-dose-rate brachytherapy (CT-HDRBT)
  - F. Collettini, D. Schnapauff, A. Poellinger, T. Denecke, H. Riess, P. Wust, B. Hamm, B. Gebauer; Berlin/DE

16:45 - 17:45

#### FP 2108 Free Papers

Room 3

#### **EVAR and TEVAR 2**

Moderators: M.A. Funovics (Vienna/AT), M.S. Hamady (London/UK)

- 2108.1 The relevance of aortic endograft prosthetic infection

  <u>P. Cernohorsky</u><sup>1</sup>, M.M.P.J. Reijnen<sup>2</sup>, I.F.J. Tielliu<sup>1</sup>, S.M.M. van Sterkenburg<sup>2</sup>, J.J.A.M. van den Dungen<sup>1</sup>, C.J. Zeebregts<sup>1</sup>;

  <sup>1</sup>Groningen/NL, <sup>2</sup>Arnhem/NL
- 2108.2 Impact of covering renal polar arteries by stent grafts during EVAR (endovascular aneurysm repair) on renal function <u>H. Strube</u>, M. Treitl, M.F. Reiser, M. Sadeghi-Azandaryani; Munich/DE
- 2108.3 Hybrid endovascular repair of complex thoracic aortic arch pathology: long-term outcomes of extra-anatomic bypass grafting of the supra-aortic trunk. A 15-year UK single centre experience
  S. Lotfi, T. Ali, R.E. Clough, A. McGrath, R. Dourado, I. Ahmed, P. Gkoutzios, R. Salter, N. Karunanithy, T. Sabharwal, M. Waltham, H. Zayed, R. Bell, T. Carrell, P.R. Taylor; London/UK
- 2108.4 Anaconda™ fenestrated: initial experience with a new repositionable and flexible fenestrated stent graft

  N. Burfitt¹, P.M. Bungay², D. Midy³, R. Nyman⁴, K. Sritharan¹, L. Muir⁵, L. Criggie⁵, A. Davies¹; ¹London/UK, ²Derby/UK,

  ³Bordeaux/FR, ⁴Uppsala/SE, 5Inchinnan/UK
- 2108.5 Post-EVAR aortic neck elongation: real phenomenon or conformational changes during the cardiac cycle? R. Dattesi, R. Iezzi, M. Latorre, M. Nestola, M. Santoro, L. Bonomo; Rome/IT
- 2108.6 Emergency EVAR: the challenging anatomy of ruptured abdominal aortic aneurysm *R.J. Ashleigh; Manchester/UK, on behalf of the IMPROVE Triallists*





### FP 2109 Free Papers

Room 14b

#### **Late Breaking Abstracts**

Moderators: P. Gaines (Sheffield/UK), T. Zander (Santa Cruz de Tenerife/ES)

- 2109.1 Phase II trial of sorafenib combined with concurrent transarterial chemoembolization with drug eluting beads for hepatocellular carcinoma
  - T. Pawlik, D. Reyes, D. Cosgrove, I. Kamel, N. Bhagat, J.-F.H. Geschwind; Baltimore, MD/US
- 2109.2 A novel biliary stent loaded with radioactive seeds in patients with malignant biliary obstruction: preliminary results versus the conventional biliary stent

H.-D. Zhu, G.-J. Teng; Nanjing/CN

- 2109.3 Early results of percutaneous aspiration thrombectomy vs. anticoagulation in acute iliofemoral venous trombosis: a randomised clinical trial
  - V. Cakir, A. Gülcü, B. Kucuk, A.E. Capar, T. Gencpinar, O. Karabay, Y.A. Goktay; Izmir/TR
- 2109.4 High frequency jet ventilation helps targeting tumors that move with breathing *P.E. Bize, M. Chollet-Rivier, A. Denys; Lausanne/CH*
- 2109.5 Chemo-saturation with percutaneous hepatic perfusion (CS:PHP) using Melphalan for unresectable neuroendocrine tumor liver metastases (MNET)
  - <u>J.F. Pingpank</u><sup>1</sup>, R.E. Royal<sup>2</sup>, U.S. Kammula<sup>3</sup>, A.W. Kam<sup>4</sup>, B.J. Wood<sup>3</sup>, S.K. Libutti<sup>5</sup>, M.S. Hughes<sup>3</sup>, H.R. Alexander<sup>4</sup>; <sup>1</sup>Pittsburgh, PA/US, <sup>2</sup>Houston, TX/US, <sup>3</sup>Bethesda, MD/US, <sup>4</sup>Baltimore, MD/US, <sup>5</sup>New York, NY/US
- 2109.6 EVAR with the ultra-low profile ovation™ abdominal stent graft system: 1<sup>st</sup> year results in a global multicenter trial *F. Fanelli¹*, *M. Nyakern²; ¹Rome/IT, ²Eysins/CH*

18:00-19:00

#### WS 2201 Workshop

Room 14b

### Peripheral vascular malformations in adults and children

- 2201.1 K.M. Baskin (Pittsburgh, PA/US)
- 2201.2 C. Plank (Vienna/AT)

18:00-19:00

#### WS 2202 Workshop

Room 3

#### How to get started in stroke management: interactive discussion

- 2202.1 M. Piotin (Paris/FR)
- 2202.2 S. Cekirge (Ankara/TR)

18:00-19:00

### WS 2203 Workshop

Room 4a

# Radioembolization for beginners

2203.1 G.J. Munneke (London/UK)2203.2 T. Pfammatter (Zurich/CH)

18:00-19:00

### WS 2204 Workshop

Room 13a

# BTK vascular interventions: techniques and new tools for the skilled and the novice

2204.1 T.J. Cleveland (Sheffield/UK)

2204.2 T. Rand (Vienna/AT)

18:00-19:00

WS 2205 Workshop

Room 2

**Biliary obstruction** 

2205.1 A. Adam (London/UK) 2205.2 B.S. Tan (Singapore/SG)

18:00-19:00

RWS 2206 EFRS Workshop 3

Room 4b

Patient safety in interventional radiology

2206.1 *J. Lutjeboer (Leiden/NL)*2206.2 *B. Dam (Leiden/NL)* 

18:00-18:20

SY 2207 Satellite Symposium

**Spectranetics** 

Room 13b

Endovascular treatment of instent restenosis using excimer laser angioplasty and drug eluting balloon

2207.1 J.C. van den Berg (Lugano/CH)



## **Tuesday, September 13**

08:00-08:20

SY 2301 Satellite Symposium

Room 2

**ArtVentive** 

ArtVentive EOS vascular occlusion device: first clinical experience in humans

Moderator: L. Rudakov (Carlsbad, CA/US)

2301.1 A. Venbrux (Washington, DC/US)

08:30-09:30

SS 2401 Special Session

Room 14a

Outcomes of BTK recanalizations

Moderators: D. Liermann (Herne/DE), R. Uberoi (Oxford/UK)

2401.1 Outcomes of angioplasty and bare stents

D.K. Tsetis (Iraklion/GR)

2401.2 Outcomes of drug eluting balloons and stents

K.N. Katsanos (Patras/GR)

2401.3 How to manage complications

P. Chopra (Chicago, IL/US)

2401.4 Guidelines for management of the diabetic foot

J.A. Reekers (Amsterdam/NL)

08:30-09:30

SS 2402 Special Session

Room 14c

Portal vein embolization

Moderators: P.R. Mueller (Boston, MA/US), V. Válek (Brno/CZ)

2402.1 Indications

T. Fotheringham (London/UK)

2402.2 Basic technique: how I do it

A. Denys (Lausanne/CH)

2402.3 How to keep out of trouble

M. Darcy (St. Louis, MO/US)

2402.4 Results of PVE and how to time surgery

F. Pilleul (Lyon/FR)

08:30-09:30

**ICS 2403 Interactive Case Session** 

Challenges in back pain treatment

2403.1 A. Gangi (Strasbourg/FR)

2403.2 B. Kastler (Besançon/FR)

e-voting
Room 13b

08:30-09:30

#### SS 2404 Special Session

Room 13a

#### High intensity focused ultrasound

Moderators: C.A. Binkert (Winterthur/CH), J. Tacke (Passau/DE)

2404.1 MRgHIFU vs. USgHIFU

T.K. Helmberger (Munich/DE)

2404.2 Update on the results on fibroid management

J. Barkhausen (Lübeck/DE)

2404.3 Expanded applications of focused ultrasound

S.B. Solomon (New York, NY/US)

2404.4 Update on the results on bone tumours

A. Napoli (Rome/IT)

2404.5 Update on the results on breast cancer

F. Orsi (Milan/IT)

08:30-09:30

### SS 2405 Special Session

Room 14b

#### **Fibroid embolization**

Moderators: A.C. Roberts (La Jolla, CA/US), M. Szczerbo-Trojanowska (Lublin/PL)

2405.1 How to improve referrals to your practice

R.L. Worthington-Kirsch (Philadelphia, PA/US)

2405.2 Embolization of the ovarian artery: when and how

A.-M. Belli (London/UK)

2405.3 Techniques and results for adenomyosis

J.-P. Pelage (Boulogne/FR)

2405.4 How to decide when to perform repeat embolization

G.M. Richter (Stuttgart/DE)

08:30-10:00

#### ST-HoW 2 Hands-on Workshop

Room 11

### Stroke therapy

Coordinators: J. Berkefeld (Frankfurt/DE), K.A. Hausegger (Klagenfurt/AT) Instructors: J. Gralla (Bern/CH), T. Liebig (Cologne/DE), S. Rohde (Heidelberg/DE), C. Taschner (Freiburg/DE)

09:10-13:00

#### HoM 4 Hands-on Workshop

### Hands-on Masterclass / Principles of angioplasty and stenting

Simulator Gallery (Training Village B0)

Coordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK) Session organizers: T. Buckenham (Christchurch/NZ), I.N. Gillespie (Edinburgh/UK) Instructors: H.M. Ireland (Edinburgh/UK), G. van Schie (Cottesloe, WA/AU)

HoM 4.1 Group 7 (09:10-11:00)

HoM 4.2 Group 8 (11:10-13:00)



10:00-11:00

### SS 2501 Special Session

Room 14b

#### **Haemodialysis access**

Moderators: R. Bhat (Dundee/UK), M.R. Sapoval (Paris/FR)

2501.1 Venous stenoses: PTA or stent grafts?

Z. Haskal (Baltimore, MD/US)

2501.2 How to manage the non-maturing fistula

C. Hohl (Siegburg/DE)

2501.3 Treatment of central venous stenosis

A. Buecker (Homburg/DE)

2501.4 How to diagnose and treat steal syndrome

L. Turmel-Rodrigues (Tours/FR)

10:00-11:00

### SS 2502 Special Session

Room 13b

**TIPS update** 

Moderators: S. Olliff (Birmingham/UK), B.A. Radeleff (Heidelberg/DE)

2502.1 TIPS in children

P.P. Goffette (Brussels/BE)

2502.2 Should TIPS replace banding as primary therapy for severe variceal haemorrhage

I.K. Tesdal (Friedrichshafen/DE)

2502.3 Should TIPS become primary therapy for severe ascites

**Controversies in non-vascular interventions** 

A. Krajina (Hradec Králové/CZ)

2502.4 The role of TIPS as a bridge to liver transplantation

J.I. Bilbao (Pamplona/ES)

10:00-11:00

### SS 2503 Special Session

Room 14c

Moderator: A.F. Watkinson (Exeter/UK)

2503.1 MRgHIFU for fibroids will replace UFE

W.M. Gedroyc (London/UK)

2503.2 MRgHIFU for fibroids will not replace UFE

A.C. Roberts (La Jolla, CA/US)

2503.3 Covered stents are better than non-covered for malignant biliary strictures

M. Krokidis (London/UK)

2503.4 Covered stents are not better than non-covered for malignant biliary strictures

T. Sabharwal (London/UK)

2503.5 Thermal treatment for herniated discs

X. Buy (Strasbourg/FR)

2503.6 Non-thermal treatment for herniated discs

J.-B. Martin (Geneva/CH)

10:00-11:00

e-voting

ICS 2504 Interactive Case Session Room 13a
Complex chemoembolization cases

2504.1 S.L. Samuels (Miami, FL/US)

2504.2 J. Golzarian (Minneapolis, MN/US)

10:00-11:00

#### CM 2505 CIRSE meets Australia and New Zealand

Room 14a

Moderators: J.P. Burnes (Clayton, VIC/AU), W. Clark (Ramsgate, NSW/AU), J.H. Peregrin (Prague/CZ)

2505.1 Therapy options in high and low flow vascular malformations

J.P. Burnes (Clayton, VIC/AU)

2505.2 New advances in endoluminal technology for treating abdominal aortic aneurysms

A. Holden (Auckland/NZ)

2505.3 Thoracic duct interventions

S.M. Lyon (Melbourne, VIC/AU)

11:30-12:30

### SY 2601 Satellite Symposium

Room 2

**Delcath Systems** 

Hepatic CHEMOSAT® Delivery System: a new therapy for interventional radiology

Percutaneous intra-arterial administration of a chemotherapeutic agent (melphalan hydrochloride) to the liver

Moderator: R. Lencioni (Pisa/IT)

2601.1 Evolution, concepts and utility for patients with liver cancer

J.S. Zager (Tampa, FL/US)

2601.2 Phase III clinical trial results

J.F. Pingpank (Pittsburgh, PA/US)

2601.3 Practical experience

F.M. Moeslein (Baltimore, MD/US)

11:30-12:30

### **SY 2602 Satellite Symposium**

Room 14a

**Eurocor GmbH** 

Drug-eluting balloons - update 2011 and perspectives: next generation coating

Moderators: J. Tacke (Passau/DE), G. Tepe (Rosenheim/DE)

2602.1 Introduction: Potential advantage and benefit of drug-eluting balloons in daily practice

J. Tacke (Passau/DE)

2602.2 Update: TASC II B guidelines - "endovascular first"

J. Lammer (Vienna/AT)

2602.3 Update: Drug-eluting balloons in the SFA and BTK lesions: current study results and ongoing programmes

G. Tepe (Rosenheim/DE)

2602.4 Perspective: Drug-eluting balloons in BTK interventions: introduction, limitation of POBA treatment

M. Manzi (Abano Terme/IT)

2602.5 New coating concept: "The coating makes the difference", evaluation of shellac as coating of intravascular devices

K. Peters (Rostock/DE)

2602.6 Discussion: Q&A regarding DEB

J. Tacke (Passau/DE)

11:30-12:30

### **SY 2603 Satellite Symposium**

Room 14b

**Sirtex Medical** 

Deciding upon SIR-Spheres microspheres treatment within a liver multidisciplinary team

Moderator: J.I. Bilbao (Pamplona/ES)

2603.1 Case study 1 - an oncologist's perspective

R. Sharma (Oxford/UK)

2603.2 Case study 2 - a surgeon's perspective

B. Garlipp (Magdeburg/DE)

2603.3 Case study 3 & 4 - an interventional radiologist's perspective

T.F. Jakobs (Munich/DE)

11:30-12:30

### VV-HoW 2 Hands-on Workshop

Room 21

#### Varicose veins

Coordinators: C.A. Binkert (Winterthur/CH), K.D. McBride (Dunfermline/UK) Instructors: J.A. Kaufman (Portland, OR/US), L. Oguzkurt (Adana/TR), D.J. West (Stoke-on-Trent/UK)

13:00-14:45

**Hot Topic Symposium / Josef Roesch Lecture** 

**Auditorium 1** 

13:00-14:00

### HTS 2701 Hot Topic Symposium: Image-guided ablation replaces surgery in resectable liver tumours

Moderator: J. Tacke (Passau/DE)

Introduction by the moderator

Colorectal liver metastases

2701. 1 Image-guided ablation can replace surgery in resectable liver metastases: pro

T.K. Helmberger (Munich/DE)

2701.2 Image-guided ablation can replace surgery in resectable liver metastases: con

H.J. Schlitt (Regensburg/DE)

Panel discussion

Hepatocellular carcinoma

2701.3 Image-guided ablation can replace surgery in resectable HCC: pro

R. Lencioni (Pisa/IT)

2701.4 Image-guided ablation can replace surgery in resectable HCC: con

V. Mazzaferro (Milan/IT)

Panel discussion

Closing remarks by the moderator

14:00-14:45

### HL 2702 Josef Roesch Lecture

Laudation: A. Adam (London/UK)

2702.1 Evidence based medicine and carotid stenosis treatment

M. Szczerbo-Trojanowska (Lublin/PL)

13:00-14:00

### SY 2703 Satellite Symposium

Room 14a

**Medrad Interventional** 

Long-term clinical data of Paccocath® technology, preclinical evidence, and planned Cotavance™ peripheral study designs

Moderator: G. Tepe (Rosenheim/DE)

2703.1 Insights into preclinical studies of latest generation Cotavance™ drug eluting balloon

J. Granada (Orangeburg, NY/US)

2703.2 Clinical data of the Paccocath technology

G. Tepe (Rosenheim/DE)

2703.3 Cotavance clinical trial designs and updates

N. Diehm (Bern/CH)

15:15-16:45

#### MM 2801 Morbidity & Mortality Conference

e-voting **Auditorium 1** 

Coordinators: M. Bezzi (Rome/IT), A.F. Watkinson (Exeter/UK) Panellists: M. Bezzi (Rome/IT), J.I. Bilbao (Pamplona/ES), G. Carrafiello (Varese/IT), G.J. O'Sullivan (Galway/IE), P.L. Pereira (Heilbronn/DE), B.S. Tan (Singapore/SG), O.M. van Delden (Amsterdam/NL)

16:00-18:00

### VAT-HoW 3 Hands-on Workshop

Room B11

#### Vertebral augmentation techniques - vertebroplasty & stentoplasty

Coordinators: A. Gangi (Strasbourg/FR), T. Sabharwal (London/UK) Instructors: J. Garnon (Strasbourg/FR), G. Tsoumakidou (Athens/GR)

16:15-17:45

#### EMT-HoW 3 Hands-on Workshop

Room 22

#### Embolization: materials and tools - onyx & glue

Coordinators: M.J. Lee (Dublin/IE), S.J. McPherson (Leeds/UK)

Instructors: T. Buckenham (Christchurch/NZ), T. Fotheringham (London/UK), P.P. Goffette (Brussels/BE),

H. Manninen (Kuopio/FI), L. Spelle (Paris/FR)

16:15-17:45

#### TA-HoW 6 Hands-on Workshop

Room 5

Tumour ablation: tips and tricks - kidney

Coordinators: T. de Baère (Villejuif/FR), R. Lencioni (Pisa/IT) Instructors: X. Buy (Strasbourg/FR), F. Deschamps (Villejuif/FR)

17:00-18:00

#### WS 2901 Workshop

Room 13a

Pulmonary AVMs: how I do it

2901.1 J.E. Jackson (London/UK) 2901.2 F. Melchiorre (Milan/IT)

17:00-18:00

### WS 2902 Workshop

Room 14a

Trauma: what an IR should know to get started

2902.1 A.N. Chatziioannou (Athens/GR)

2902.2 M.B. Matson (Essex/UK)

17:00-18:00

### WS 2903 Workshop

Room 14c

Advanced intra-arterial approaches for liver tumours

2903.1 J. Cynamon (New York, NY/US)

2903.2 J.S. Zager (Tampa, FL/US)

17:00-18:00

### WS 2904 Workshop

Room 13b

CAS for carotid lesions: when, why and how: a starter kit

2904.1 T. Jargiello (Lublin/PL)

2904.2 J. Namyslowski (Peoria, IL/US)



17:00-18:00

WS 2905 Workshop

Room 14b

Management of endoleaks after EVAR

2905.1 F. Thony (Grenoble/FR)

2905.2 A.H. Matsumoto (Charlottesville, VA/US)

17:00-18:00

RWS 2906 EFRS Workshop 4

Room 4b

Interventional neuroradiology - the role of the radiographer

2906.1 H. Šauperl (Maribor/SI) 2906.2 S. Klampfer (Maribor/SI)

17:00 - 18:00

FP 2907 Free Papers

Room 4a

**Imaging** 

Moderators: M. Černá (Olomouc/CZ), C.M. Loewe (Vienna/AT)

2907.1 Can real-time US-CT/MRI fusion imaging guidance enable ablation of liver malignancies that are undetectable with conventional US?

L. Solbiati<sup>1</sup>, G. Mauri<sup>1</sup>, T. Ierace<sup>1</sup>, L. Cova<sup>1</sup>, N. Goldberg<sup>2</sup>; <sup>1</sup>Busto Arsizio/IT, <sup>2</sup>Jerusalem/IL

2907.2 Topographic mapping of the right hepatic artery segmental branches using 3D reconstructed CT overlaid images based on C-arm CT in patients undergoing TACE

J.E. Abskharon, N. Naguib, N.E. Mouhammed, T.J. Vogl; Frankfurt/DE

2907.3 Low-dose multidetector-row CT angiography in the evaluation of infrarenal aorta and peripheral arterial occlusive disease

M. Santoro, R. Iezzi, F. Pirro, G. Tinelli, F. Snider, L. Bonomo; Rome/IT

2907.4 Do trauma scores predict the requirement for intervention following liver trauma? O.S. Jaffer, D. Lewis, G. Auzinger, P. Bowles, P. Kane, J.B. Karani; London/UK

2907.5 Evaluation of a novel automatic vessel segmentation software using dual energy computed tomographic angiography data of the pelvis and lower extremities

M. Kostrzewa, C. Brockmann, T. Stutzmann, S. Jochum, N. Rathmann, J. Hesser, K. Huck, S.O. Schoenberg, S.J. Diehl; Mannheim/DE

2907.6 Prospective comparison between three CT angiographic acquisitions for peripheral arterial disease: empirical anterograde acquisition, adaptive anterograde acquisition and retrograde acquisition

<u>T.-L.C. Lu</u>, G. Fetz, A. Kawkabani Marchini, E. Rizzo, P.M. Marques-Vidal, S.D. Qanadli; Lausanne/CH



17:00 - 18:00

FP 2908 Free Papers

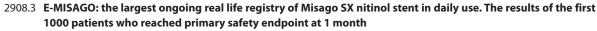
Room 2

PVD<sub>3</sub>

Moderators: P.A. Almeida (Coimbra/PT), T.A. Sos (New York, NY/US)

- 2908.1 Management of peripheral arterial interventions with mono or dual antiplatelet therapy: the MIRROR study <u>F.F. Strobl</u><sup>1</sup>, R. Bantleon<sup>1</sup>, K. Brechtel<sup>1</sup>, J.M. Schmehl<sup>1</sup>, C.D. Claussen<sup>1</sup>, G. Tepe<sup>2</sup>; <sup>1</sup>Tübingen/DE, <sup>2</sup>Rosenheim/DE
- 2908.2 Endovascular peripheral and visceral aneurysms repair with cardiatis multilayer stent: Italian Multicenter Registry results at 6 and 12 months FU

M.A. Ruffino, P. Muratore, C. Rabbia; Turin/IT



<u>C. Loehr</u><sup>1</sup>, F.E. Vermassen<sup>2</sup>, M. Åkesson<sup>3</sup>, I. Kralj<sup>4</sup>, U.K. Wahl<sup>5</sup>, W. Taieb<sup>6</sup>, P. Sebillotte<sup>7</sup>, L. Kindl<sup>8</sup>, G. Schmid<sup>9</sup>, J. Ruef<sup>10</sup>; <sup>1</sup>Recklinghausen/DE, <sup>2</sup>Ghent/BE, <sup>3</sup>Malmoe/SE, <sup>4</sup>Karlsruhe/DE, <sup>5</sup>Bautzen/DE, <sup>6</sup>Poissy/FR, <sup>7</sup>Essey-Les-Nancy/FR, <sup>8</sup>Most/CZ, <sup>9</sup>Neuss/DE, <sup>10</sup>Frankfurt/DE

- 2908.4 Long-term follow-up and total cost analysis of in-hospital invasive interdisciplinary treatment of critical limb ischemia: comparison of surgical and endovascular therapy

  M. Cejna, N. Durakovic, R. Mathies, W. Hofmann; Feldkirch/AT
- 2908.5 Paclitaxel-coated balloon angioplasty for lower extremity revascularization: better way to fight restenosis? A. Cannavale, F. Fanelli, M. Allegritti, A. Bruni, P. Lucatelli, R. Passariello; Rome/IT
- 2908.6 Unconventional techniques to treat below-the-knee lesions: single center long-term experience and technical aspects *R. Gandini, A. Spinelli, C. Del Giudice, V. Da Ros, T. Volpi, C.A. Reale, G. Simonetti; Rome/IT*

17:00 - 18:00

FP 2909 Free Papers

Room 3

Oncologic IR 5

Moderators: Y. Arai (Tokyo/JP), N.I. Fotiadis (London/UK)

- 2909.1 Combined single-session embolization with microparticles (Embozene) and radiofrequency ablation of focal liver lesions: preliminary results
  - R.F. Grasso, G. Luppi, E. Faiella, F. Giurazza, R. Del Vescovo, R.L. Cazzato, B. Beomonte Zobel; Rome/IT
- 2909.2 Mid-term results of image-guided cryoablation of 116 renal tumours in 95 patients D.J. Breen, T.J. Bryant, N. Railton, B. Stedman, <u>P. Kumar</u>; Southampton/UK
- 2909.3 Super-micro-bland particle embolization combined with RF-ablation: angiographic, macroscopic and microscopic observations in porcine kidneys
  - <u>C.M. Sommer</u>, N. Kortes, C. Mogler, N. Bellemann, M. Holzschuh, F.U. Arnegger, T. Gehrig, S. Zelzer, H.P. Meinzer, U. Stampfl, H.U. Kauczor; Heidelberg/DE
- 2909.4 Radiofrequency ablation of non-small-cell lung carcinoma

  J. Palussière<sup>1</sup>, P. Lagarde<sup>1</sup>, F. Deschamps<sup>2</sup>, E. Descat<sup>1</sup>, F. Cornelis<sup>1</sup>, F. Bonichon<sup>1</sup>, F. Chomy<sup>1</sup>, <u>T. de Baère<sup>2</sup></u>; <sup>1</sup>Bordeaux/FR,

  <sup>2</sup>Villejuif/FR
- 2909.5 Long-term outcome of doxorubicin-loaded DC Bead for HCC. Results of a prospective trial on 173 patients
  A. Charokopakis, H. Moschouris, K. Malagari, M. Pomoni, J. Kornezos, S. Tandeles, L. Thanos, A.D. Kelekis, D.K. Filippiadis,
  A. Pomoni, S. Kampanarou, D.A. Kelekis; Athens/GR
- 2909.6 Local control of focal hepatic malignancies treated with microwave ablation with a novel high-power applicator system: 14-month experience in 108 patients
  - L. Solbiati<sup>1</sup>, T. Ierace<sup>1</sup>, L. Cova<sup>1</sup>, L. Sibilio<sup>1</sup>, T. Tondolo<sup>1</sup>, <u>G. Mauri</u><sup>1</sup>, N. Goldberg<sup>2</sup>; <sup>1</sup>Busto Arsizio/IT, <sup>2</sup>Jerusalem/IL





# Wednesday, September 14

J.E. Jackson (London/UK)

A. Barnacle (London/UK)
3003.4 Vascular malformations in children
A.M. Cahill (Philadelphia, PA/US)

3003.3 Low flow vascular malformations: how I do it

	08:30-09:30	
SS 3001	Special Session	Room 13b
	Varicose veins	
	Moderators: K. Kandarpa (New York, NY/US), I. Loftus (London/UK)	
3001.1	Clinical and ultrasound evaluation of the patient  J.A. Kaufman (Portland, OR/US)	
3001.2	RFA: equipment, technical tips and tricks  C.A. Binkert (Winterthur/CH)	
3001.3	Laser: equipment, technical tips and tricks S. Kundu (Toronto, ON/CA)	
3001.4	How to treat collaterals: phlebectomy? Foam sclerotherapy? D.J. West (Stoke-on-Trent/UK)	
	08:30-09:30	
SS 3002	Special Session	Room 13a
	Percutaneous treatment of chronic back pain	
	Moderators: D. Kasper (Phoenix, AZ/US), D.A. Rüfenacht (Zurich/CH)	
3002.1	MR imaging of back pain O. Papakonstantinou (Athens/GR)	
3002.2	Back pain and sciatica: what can we offer?  W. Möller-Hartmann (Meppen/DE)	
3002.3	Facet joint syndrome: definition and treatment  M. Gallucci (L'Aquila/IT)	
3002.4	Sacroiliac joint syndrome: definition and treatment  J. Hierholzer (Potsdam/DE)	
	08:30-09:30	
SS 3003	Special Session	Room 14a
	Vascular malformations	
	Moderators: J.P. Burnes (Clayton, VIC/AU), TE.G. Vrachliotis (Athens/GR)	
3003.1	Classification of vascular tumours and malformations L.J. Schultze Kool (Nijmegen/NL)	
3003.2	High flow vascular malformations: how I do it	

08:30-09:30

SS 3004 Special Session

Room 14c

The role of IR in venous disease

Moderators: L. Boyer (Clermont Ferrand/FR), K.D. McBride (Dunfermline/UK)

3004.1 Indications for IR treatment in deep vein thrombosis

K.R. Thomson (Melbourne, VIC/AU)

3004.2 Thrombectomy vs. thrombolysis in deep vein thrombosis

G.J. O'Sullivan (Galway/IE)

3004.3 Paget-Schroetter syndrome: what is it, should we treat it?

A.F. Watkinson (Exeter/UK)

3004.4 Nutcracker syndrome: what is it, should we treat it?

L. Machan (Vancouver, BC/CA)

10:00-11:00

ICS 3101 Interactive Case Session

How to treat TASC C and D lesions

3101.1 D.K. Tsetis (Iraklion/GR)

3101.2 H. van Overhagen (The Hague/NL)

10:00-11:00

SS 3102 Special Session

Room 13b

e-voting

Room 2

Controversies in interventional oncology

Moderator: T.F. Jakobs (Munich/DE)

3102.1 Surgery is the first choice for small renal cancer

D. Rohde (Duisburg/DE)

3102.2 Ablation is the first choice for small renal cancer

J. Tacke (Passau/DE)

3102.3 Drug eluting beads are all we need for TACE in HCC

J. Lammer (Vienna/AT)

3102.4 Lipiodol TACE still has a role in HCC

M.C. Soulen (Philadelphia, PA/US)

3102.5 Transcatheter therapy in hepatic colorectal metastasis has value

T. de Baère (Villejuif/FR)

3102.6 Systemic therapy is all we need for non-resectable disease

T.F. Greten (Bethesda, MD/US)

10:00-11:00

SS 3103 Special Session

Room 3

Preventive stroke management

Moderators: S. Cekirge (Ankara/TR), K.A. Hausegger (Klagenfurt/AT)

3103.1 Detection of supra-aortic atherosclerotic disease and vulnerable plaques with contemporary noninvasive imaging

A.H. Mahnken (Aachen/DE)

3103.2 Extracranial stenting

D. Gasparini (Udine/IT)

3103.3 Intracranial stenting

T. Liebig (Cologne/DE)



10:00-11:00

SS 3104	Imaging after EVAR	Room 13a
	Moderators: R.J. Ashleigh (Manchester/UK), E.M. Walser (Jacksonville, FL/US)	
3104.1	Update on CTA protocols and results: single, double or triple phase scan?  C.M. Loewe (Vienna/AT)	
3104.2	MRI, MRA protocols and results M. Francone (Rome/IT)	
3104.3	Can CEUS replace current modalities?	
3104.4	R. lezzi (Rome/IT) How to manage patients with renal insufficiency? S.M. Thomas (Sheffield/UK)	
WS 3201	11:30-12:30 Workshop Basic embolization techniques and tools	Room 13b
	D. Karnabatidis (Patras/GR)	
3201.2	M. Piotin (Paris/FR)	
WS 3202	11:30-12:30 Workshop IR treatment of postpartum haemorrhage	Room 13a
	N. Hacking (Southampton/UK) N. McEniff (Dublin/IE)	
WC 2202	11:30-12:30 <b>Workshop</b>	Room 4a
W3 3203	How to start with embolization for benign prostatic hyperplasia	ROOM 4a
	F.C. Carnevale (Sao Paulo/BR)  J.M. Pisco (Lisbon/PT)	
	11:30-12:30	_
WS 3204	Workshop Varicocele and pelvic congestion treatment: a primer for IRs	Room 14b
	F. Karnel (Vienna/AT) L. Machan (Vancouver, BC/CA)	
WS 3205	11:30-12:30 Workshop Ablation techniques for lung lesions	Room 2
	C.T. Sofocleous (New York, NY/US) P.L. Pereira (Heilbronn/DE)	
WS 3206	11:30-12:30 Workshop Challenges in TEVR for aortic dissection	Room 14c
	H. Rousseau (Toulouse/FR) M. Schoder (Vienna/AT)	

11:30-12:30

WS 3207 Workshop

Room 3

TEVR: tips and tricks for the treatment of aneurysm, trauma and dissections

3207.1 M. Åkesson (Malmoe/SE) 3207.2 F. Fanelli (Rome/IT)

11:30-12:30

WS 3208 Workshop

Room 4b

Varicose veins: ablation, sclerotherapy and ambulatory phlebectomy

3208.1 K.D. McBride (Dunfermline/UK)

3208.2 F. Boyvat (Ankara/TR)

11:30-12:30

Venous access

WS 3209 Workshop

Room 14a

3209.1 B. Gebauer (Berlin/DE)

3209.2 E.M. Walser (Jacksonville, FL/US)



### **ELECTRONIC POSTERS**

#### **Biliary intervention**

#### **Scientific Posters**

- P-1 Biliary drainage in patients with undilated bile ducts affected by biliary fistula due to pancreatobiliary surgical treatment
  - C. Soldati, M. Venturini, S. Cappio, M. Salvioni, F. De Cobelli, G. Balzano, M. Cellina, A. Del Maschio; Milan/IT
- P-2 Effect on quality of life in patients with inoperable malignant biliary obstruction treated by percutaneous transhepatic biliary drainage

  <u>T. Singh</u><sup>1</sup>, S. Gamangatti<sup>2</sup>, D.N. Srivastava<sup>2</sup>, R. Sharma<sup>2</sup>, N.R. Dash<sup>2</sup>, B. Mishra<sup>2</sup>; <sup>1</sup>Singapore/SG, <sup>2</sup>Delhi/IN
- P-3 Percutaneous cholecystostomy as definitive treatment of acute cholecystitis in high surgical risk patients <u>Y.S. Kim¹</u>, C.J. Yoon¹, N.J. Seong¹, Y.J. Kim¹, S.W. An¹, Y.S. Jeon²; ¹Seongnam/KR, ²Incheon/KR
- P-4 Percutaneous interventions in pediatric patients after liver transplantation

  W. Uller, H. Gößmann, S. Schmid, S. Schleder, B. Knoppke, P. Heiss, H.J. Schlitt, C. Stroszczynski, N. Zorger; Regensburg/DE
- P-5 Percutaneous interventional therapy for anastomotic biliary strictures after orthotopic liver transplantation M.-A. Li, Z. Jiang, J. Qian, H. Shan, M. Huang, K. Zhu, S. Shao; Guangzhou/CN
- P-6 Study of percutaneous interventional treatment for biliary complications after liver transplantation M.-A. Li, <u>Z. Jiang</u>, H. Shan, J. Qian, M. Huang, K. Zhu, B. Zhou, S. Shao; Guangzhou/CN
- P-7 Effects of percutaneous transhepatic biliary drainage on inflammatory response in patients with obstructive jaundice
  - B. Yilmaz, Z. Parildar, M. Parildar, H. Bozkaya, G. Basol, O. Bayindir; Izmir/TR
- P-8 A newly designed Y-configurated stent graft for the palliative treatment of the hilar obstructive malignant biliary carcinomas

  B. Kang, S.B. Cho, S.I. Park; Seoul/KR

### **Case Reports**

- P-9 Biliary patency restoration by percutaneous endobiliary RF ablation and ductoplasty in pancreatic head cancer <u>M. Mizandari</u><sup>1</sup>, N. Habib<sup>2</sup>, G. Spanderashvili<sup>1</sup>; <sup>1</sup>Tbilisi/GE, <sup>2</sup>London/UK
- P-10 Biliary patency restoration by percutaneous endobiliary RF ablation and ductoplasty in benign biliary obstruction <u>M. Mizandari</u><sup>1</sup>, N. Habib<sup>2</sup>, G. Spanderashvili<sup>1</sup>; <sup>1</sup>Tbilisi/GE, <sup>2</sup>London/UK
- P-11 Percutaneous transhepatic bile duct ablation with n-butyl cyanoacrylate in the treatment of a iatrogenic biliary leakage
  F. Fontana, M. Mangini, A.M. Ierardi, F. Piacentino, G. Carrafiello, C. Fugazzola; Varese/IT
- P-12 Biliary patency restoration by percutaneous endobiliary RFA procedure, performed to tumor blocked metal stent <u>M. Mizandari</u><sup>1</sup>, N. Habib<sup>2</sup>, G. Spanderashvili<sup>1</sup>; <sup>1</sup>Tbilisi/GE, <sup>2</sup>London/UK
- P-13 Biliary patency restoration by extra and intrahepatic stent percutaneous placement in the case of advanced gallbladder carcinoma

  M. Mizandari, G. Spanderashvili; Tbilisi/GE
- P-14 PTCD in infancy: use for dealing with the complications after surgical resection of a choledochus cyst type la <u>J. Fuchs</u>, W. Hirsch, T. Kahn, M. Moche; Leipzig/DE
- P-15 Percutaneous removal of Kher tube fragment <u>R. Marcello; Rome/IT</u>

#### Bone, spine and soft tissue intervention

#### **Scientific Posters**

- P-16 Posterior vertebral arch cement augmentation (laminoplasty) to prevent fracture of spinous processes after interspinous spacer implant
  - G. Bonaldi<sup>1</sup>, G. Bertolini<sup>1</sup>, A. Cianfoni<sup>2</sup>; <sup>1</sup>Bergamo/IT, <sup>2</sup>Charleston, SC/US
- P-17 Efficacy of percutaneous interspinous spacer in the treatment of neurogenic intermittent claudication due to lumbar spinal stenosis
  - S. Marcia<sup>1</sup>, G.C. Anselmetti<sup>2</sup>, S. Marini<sup>1</sup>, E. Piras<sup>1</sup>, M. Marras<sup>1</sup>, C. Boi<sup>1</sup>, A. Sanna<sup>1</sup>, G. Mallarini<sup>1</sup>; <sup>1</sup>Cagliari/IT, <sup>2</sup>Candiolo/IT
- P-18 Evaluation of a novel laser navigation system (LNS) for CT-guided interventions <u>J. Becker</u>, M. Deli, M. Busch, H. Wolski, D.H.W. Groenemeyer; Bochum/DE
- P-19 1H-MR spectroscopy in the evaluation of osteoporotic and neoplastic vertebral fractures prior percutaneous vertebroplasty
  - S. Masala, <u>F. Massari</u>, P. Assako Ondo, G. Simonetti; Rome/IT
- P-20 Percutaneous vertebroplasty in vertebral compression fractures of osteoporotic, neoplasmatic or traumatic origin: a prospective study of 1188 patients with follow-up of 12 months

  A. Mpotsaris<sup>1</sup>, C.H. Gerdes<sup>2</sup>, S. Hennigs<sup>2</sup>; <sup>1</sup>Recklinghausen/DE, <sup>2</sup>Bottrop/DE
- P-21 Ultrasound-guided subacromial injection of hyaluronic acid in the treatment of elderly patients affected by massive rupture of the rotator cuff

  E. Fabbro, G. Ferrero, D. Orlandi, L.M. Sconfienza, E. Silvestri, G. Serafini; Genoa/IT
- P-22 One-year outcome of ultrasound-guided percutaneous treatment of plantar fasciitis: a randomized controlled trial L.M. Sconfienza, G. Ferrero, D. Orlandi, E. Fabbro, C. Martini, E. Silvestri; Genoa/IT
- P-23 MR-guided high intensity focused ultrasound for palliation of bone metastasis

  <u>T. Carteret</u><sup>1</sup>, H. Trillaud<sup>1</sup>, F. Maire<sup>1</sup>, R. Trouette<sup>1</sup>, A. Ravaud<sup>1</sup>, N. Frulio<sup>1</sup>, J. Tanttu<sup>2</sup>; <sup>1</sup>Bordeaux/FR, <sup>2</sup>Vantaa/FI
- P-24 Radiofrequency facet joint denervation: a progress report <u>T. Boujan</u>, L. Heuser; Bochum/DE
- P-25 Life expectancy following diagnosis of a vertebral compression fracture

  <u>A.A. Edidin</u><sup>1</sup>, K.L. Ong<sup>2</sup>, E. Lau<sup>3</sup>, N. Wang<sup>3</sup>, S.M. Kurtz<sup>2</sup>; <sup>1</sup>Sunnyvale, CA/US, <sup>2</sup>Philadelphia, PA/US, <sup>3</sup>Menlo Park, CA/US WITHDRAWN
- P-26 Spinal imaging evolution after placement of an AperiusR percutaneous interspinous spacer using a positional MRI in 17 patients

  H. Brat¹, N. Craig², F. Smith²; ¹Hornu/BE, ²Aberdeen/UK
- P-27 Clinical significance of repeat vertebroplasty for recurrent pain at cemented vertebra with fluid sign N. Kobayashi, Y. Numaguchi, T. Haraguchi, M. Kamo, S. Fuwa, Y. Saida; Tokyo/JP
- P-28 A prospective study of percutaneous vertebroplasty in patients with myeloma and spinal metastases <u>C. Chew</u>, M. Ritchie, P.J. O'Dwyer, R. Edwards; Glasgow/UK
- P-29 Vertebral osteonecrosis and vesselplasty
  <u>M. Atarés</u>, G. Cabrera, A.M. Boronat, M. Mazon, E. Lonjedo, M.J. Cerveron, E. Casula; Valencia/ES

#### **Educational Posters**

- P-30 Imaging of Aperius® percutaneous interspinous spacer: what should you look at? <u>H. Brat</u>; Hornu/BE
- P-31 Bilateral versus unilateral approach to balloon kyphoplasty... does it matter? <u>H. Chan</u>, S. Bolosan, R. Simon; Sunnyvale, CA/US
- P-32 Transarterial embolisation for preoperative devascularisation of osseous tumors: case review and management options

  M.R. Moynagh, L. Lawler; Dublin/IE

P-33	Interventional MRI of the musculoskeletal system in children and adults: principles and procedures
	J. Fritz <sup>1</sup> , J.A. Carrino <sup>1</sup> , C.D. Claussen <sup>2</sup> , J.S. Lewin <sup>1</sup> , P.L. Pereira <sup>3</sup> ; <sup>1</sup> Baltimore, MD/US, <sup>2</sup> Tübingen/DE, <sup>3</sup> Heilbronn/DE
D 2.4	

- P-34 Biomechanical features of percutaneous cementoplasty: what the radiologist needs to know A. lannessi, N. Amoretti, P.-Y. Marcy, P. Baque; Nice/FR
- P-35 The diagnostic methods and interventional therapies of symptomatic thoracic disc herniation <u>H.-Y. Kang</u><sup>1</sup>, S.-H. Lee<sup>2</sup>, S.-Y. Moon<sup>1</sup>; <sup>1</sup>Busan/KR, <sup>2</sup>Seoul/KR
- P-36 Ablation in MSK neoplasias C. Pellegrino, A.M. Ierardi, D.G. Pagliarello, A. Canì, F. Piacentino, G. Carrafiello, C. Fugazzola; Varese/IT
- P-37 Vertebral body stenting: why, when, and how J. Garnon, G. Tsoumakidou, X. Buy, J.F. Cabral, A. Gangi; Strasbourg/FR

#### **Case Reports**

P-38 Preoperative MRI-guided marking of a non-palpable soft tissue mass using an open clinical 1.5 MR scanner with intra-operative correlation

J. Fritz<sup>1</sup>, J.A. Carrino<sup>1</sup>, P.L. Pereira<sup>2</sup>; <sup>1</sup>Baltimore/US, <sup>2</sup>Heilbronn/DE

P-39 A paraspinous muscle hemangioma *E. Paci, S. Alborino; Ancona/IT* 

#### **Clinical practice development**

#### **Scientific Posters**

P-40 Sedation and local anesthesia in the radiology department <u>G.J. McNeill</u>, A. Walsh, W.C. Torregianni; Dublin/IE

#### **Educational Posters**

P-41 Introduction of the WHO safety checklist in the IR suite: whom does it protect? R. Dey, C. Sansome, L. Brown; Northampton/UK

### Dialysis intervention and venous access

#### **Scientific Posters**

P-42 Value of fibrin sheath stripping in restoring CVC dialysis catheter function S. Alzaabi, N. Hamour, M. McCarthy; Edmonton, AB/CA

#### **Educational Posters**

P-43 Non-infectious complications associated with implantation of port-catheter device: a troubleshooting guide for interventionalists

<u>A. Khankan</u><sup>1</sup>, I. Kam Nakch<sup>2</sup>, F. Mukhtar<sup>1</sup>, M.O. Alotaibi<sup>1</sup>, D.A. Valenti<sup>2</sup>, M. Al-Moaiqel<sup>1</sup>; <sup>1</sup>Riyadh/SA, <sup>2</sup>Montreal, QC/CA

- P-44 Vascular access in dialysis patients: what a junior interventional radiologist should know <u>V. Pavlidis</u>, L. Mailli, A. Pantos, M. Tsitskari, A. Maratsos, E. Brountzos; Athens/GR
- P-45 Peripherally inserted central catheter (PICC): insertion techniques and new developments A. Pomoni, S.D. Qanadli, R. Meuli; Lausanne/CH

#### **Case Reports**

- P-46 Maintenance of radiocephalic fistula by collaterization of ulnar artery flow across the palmar arch in patients with radial artery occlusion: report of 3 cases

  H.H. Song<sup>1</sup>, Y.J. Kim<sup>2</sup>, J.S. Oh<sup>3</sup>; <sup>1</sup>Jeju/KR, <sup>2</sup>Uijongbu/KR, <sup>3</sup>Seoul/KR
- P-47 24-Hour pericatheter TPA infusion to aid removal of adherent peripherally inserted central venous catheter *I.M. Brennan, R. Sheiman; Boston, MA/US*
- P-48 Totally ultrasound-guided insertion of an amplatzer vascular plug to occlude a dialysis AV fistula *R. Patel, C.J. Hammond; Leeds/UK*
- P-49 A cautionary tale of arteriovenous fistula (AVF) stenosis venoplasty when treating concurrent proximal and central lesions

<u>J.A. Stephenson</u>, M.J. Glasby; Leicester/UK WITHDRAWN

#### **Embolotherapy (excluding oncology)**

#### **Scientific Posters**

- P-50 Can angina or myocardial infarction be symptoms of paradoxical emboli due to pulmonary arteriovenous malformations in patients with hereditary hemorrhagic telangiectasia?

  K. Clark, R. Pyeritz, S.O. Trerotola; Philadelphia, PA/US
- P-51 Prostatic arterial supply: anatomical and imaging findings <u>T. Bilhim</u>, J.M. Pisco, L.C. Pinheiro, H.A.M. Rio Tinto, M. Duarte, J. O'Neill; Lisbon/PT
- P-52 Emergency bronchial artery embolization for massive hemoptysis Q. Huang, R. Zhai; Beijing/CN
- P-53 Epoxy embolization to augment surgical resection: a novel approach to the treatment of venous malformations of the forearm and hand Y. Patel, G. Deune, L. Fayad, S. Mitchell, C.R. Weiss; Baltimore, MD/US
- P-54 Transcatheter arterial embolization for pelvic fractures with retroperitoneal hemorrhage: involvement of external iliac artery branches

  K. Shibuya, Y. Koyama, M. Miyazaki, S. Hirasawa, T. Kurabayashi, E. Horisoko, Y. Tsushima, M. Amanuma; Maebashi/JP
- P-55 Embolization of anticoagulation-related soft tissue bleeding: immediate results

  <u>A. Dohan</u>, O. Pellerin, M. Di Primio, A. Palomera-Ricco, J.-Y. Pagny, B. Beyssen, M.R. Sapoval; Paris/FR
- P-56 Post-partum hemorrhage gelfoam mixture embolization with super selective technique immediate results and 1-month MRI follow-up

  O. Pellerin, M. Di Primio, A. Palomera-Ricco, A.-S. Bats, J.-Y. Pagny, B. Beyssen, B. Louail, M.R. Sapoval; Paris/FR
- P-57 Active diffuse renal cortical haemorrhage in setting of subcapsular hematoma: an entity scarcely described M. Burrel, M. Barrufet, L. Buñesch, P. Bermudez, M.C. Sebastia, M.I. Real, X. Montañá; Barcelona/ES
- P-58 Use of Onyx in the treatment of endoleaks following endovascular aortic aneurysm repair A.S. Gomes, W.S. Moore; Los Angeles, CA/US
- P-59 Coil embolizations in animal model: comparative study among devices currently available for peripheral applications

  M. Guimaraes<sup>1</sup>, L. Yuan<sup>2</sup>, C. Schonholz<sup>1</sup>, R. Uflacker<sup>1</sup>, C. Hannegan<sup>1</sup>, B. Selby Jr<sup>1</sup>; <sup>1</sup>Charleston, SC/US, <sup>2</sup>Nanjing/CN
- P-60 Strategies for endovascular management of visceral aneurysms and pseudoaneurysms R. Candelari, S. Alborino, E. Paci, M. Fichetti, C. Mincarelli, E. Antico; Ancona/IT
- P-61 Report of our results of systemic artery embolization with Embozene to control hemoptysis <u>A. Khalil,</u> M. Tassart, J.-M. Faintuch, M. Benjoar, M. Bazot, M.-F. Carette; Paris/FR

P-62	Onyx embolic agent preparation, tips and tricks and how to avoid complications during peripheral embolization procedures M. Guimaraes, M. Wooster, C. Schonholz, B. Selby Jr, C. Hannegan, R. Uflacker; Charleston, SC/US
P-63	The use of Amplatzer Vascular Plug 4 in emergency bleeding <u>U.G. Rossi</u> , F. Petrocelli, S. Seitun, A. Guastavino, L. Patrone, C. Ferro; Genoa/IT
P-64	Accessory pudendal arteries: what is in the name? Relevance for prostatic arterial embolization <u>T. Bilhim</u> , J.M. Pisco, L.C. Pinheiro, H.A.M. Rio Tinto, M. Duarte, J. O'Neill; Lisbon/PT
P-65	Selective arterial embolization performed for recurrent hemarthrosis  R. Yoshimatsu, T. Yamagami, O. Tanaka, H. Miura, T. Nishimura, Y. Arai, R. Terauchi, T. Kubo; Kyoto/JP
P-66	Transcatheter arterial embolization of acute gastrointestinal bleeding with N-butyl cyanoacrylate <u>T. Ihaya</u> , T. Kaminou, T. Ogawa; Yonago/JP
P-67	Abdominal wall hemorrhage: the utility of abdomen computed tomography and embolotherapy J.S. Choi, <u>W.K. Park</u> , C.S. Rhee, S.W. Jee, D.H. Cho, E.J. Ahn; Daegu/KR
P-68	Role of angioembolization in endoscopically unmanageable non variceal upper gastrointestinal bleeding <u>M. Gupta</u> , A. Gupta, A. Yadav; New Delhi/IN
P-69	Superselective embolization of the delayed bleeding after endoscopic sphincterotomy: feasibility and outcome <u>Y.H. So</u> , Y.H. Choi, J.W. Chung, H.J. Jae, J.H. Park; Seoul/KR
P-70	Role of endovascular treatment of pelvic fractures bleeding in emergency setting <u>F. Piacentino</u> , G. Carrafiello, M. Mangini, F. Fontana, A.M. Ierardi, A. Canì, M. Dizonno, I.C. De Bernardi, C. Fugazzola; Varese/IT
P-71	Embolotherapy of pulmonary arteriovenous malformations: venous sac embolization using detachable coils under blood flow control with balloon catheter  K. Shimizu <sup>1</sup> , T. Mogami <sup>1</sup> , S. Yamazoe <sup>1</sup> , K. Ouchi <sup>1</sup> , J. Harada <sup>1</sup> , T. Yamada <sup>2</sup> ; <sup>1</sup> Chiba/JP, <sup>2</sup> Tokyo/JP
P-72	Endovascular treatment of large pulmonary arteriovenous malformations with Amplatzer vascular plug <u>F. Kucukay</u> , S.R. Okten, T. Olcer, T. Cumhur; Ankara/TR
P-73	Clinical result of bronchial artery embolization in cystic fibrosis patients with hemoptysis: a single centre experience A.F. Nicolini, L. Martinetti, S. Crespi, V. Daco', L. Claut, C. Colombo; Milan/IT
P-74	Splenic embolization for hypersplenism due to portal hypertension: 18 patients  A. Peterman, <u>P. Chabrot</u> , L. Cassagnes, A.T. Alfidja, MA. Touret, C. Gageanu, A. Abergel, L. Boyer; Clermont-Ferrand/FR
P-75	Acute lower gastrointestinal hemorrhage: superselective arterial embolization using 0.010-inch detachable microcoils M. Koganemaru, T. Abe, R. Iwamoto, M. Suenaga, F. Tsubaki, T. Saga, N. Hayabuchi; Kurume/JP
P-76	Hepatic arterial infusion chemotherapy with a coaxial reservoir system: clinical and experimental approach <u>M. Koganemaru</u> <sup>1</sup> , T. Abe <sup>1</sup> , R. Iwamoto <sup>1</sup> , S. Yoshida <sup>1</sup> , M. Nonoshita <sup>1</sup> , D. Uchiyama <sup>2</sup> , M. Kusumoto <sup>3</sup> , A. Kuhara <sup>3</sup> , Y. Inayoshi <sup>3</sup> , N. Hayabuchi <sup>1</sup> ; <sup>1</sup> Kurume/JP, <sup>2</sup> Kitakyusyu/JP, <sup>3</sup> Oomuta/JP
P-77	Transcatheter shunt occlusion for porto-systemic encephalopathy: interventional management and clinical outcome <u>K. Kobayashi</u> , S. Hirota, H. Maeda, S. Yamamoto, S. Achiwa, Y. Kako, Y. Furukawa, M. Yamasaki, Y. Igarashi, T. Katsuura, R. Ishikura; Nishinomiya/JP
P-78	Clinical outcome and treatment of portal vein thrombosis after partial splenic embolization <i>M. Cai, W. Huang, <u>K. Zhu</u>, X. Meng, J. Chen, B. Zhou, M. Huang, H. Shan; Guangzhou/CN</i>
P-79	Proximal splenic artery embolization with detachable balloon-assisted technique <u>C. Erdoğan</u> , N. Yildirim, B. Hakyemez, R. Emiroglu; Bursa/TR
P-80	Sclerotherapy of lymphomatous malformations using OK 432 <u>N. Hamour</u> , R.J. Owen; Edmonton, AB/CA
P-81	Minimally invasive treatment of giant hemangiomas of the liver: embolization with bleomycin <u>H. Bozkaya</u> <sup>1</sup> , C. Cinar <sup>1</sup> , F.H. Besir <sup>2</sup> , M. Parildar <sup>1</sup> , I. Oran <sup>1</sup> , A. Coker <sup>1</sup> ; <sup>1</sup> Izmir/TR, <sup>2</sup> Duzce/TR

P-82 Splenic artery steal syndrome: transcatheter splenic artery embolization with Amplatzer vascular plug *P. Bermudez, M. Burrel, M.A. Garcia Criado, M. Barrufet, M.I. Real; Barcelona/ES* 

#### **Educational Posters**

- P-83 Multimodal endovascular approach in the treatment of peripheral arterio-venous malformations

  <u>A. lanniello</u><sup>1</sup>, M. Vaghi<sup>1</sup>, P. Nicotera<sup>1</sup>, D. Agnello<sup>1</sup>, G. Carrafiello<sup>2</sup>, A. Cazzulani<sup>1</sup>; <sup>1</sup>Garbagnate Milanese/IT, <sup>2</sup>Varese/IT
- P-84 Peripheral venous malformations, clinical and radiological correlation: management of peripheral venous malformations from diagnosis to treatment

  <u>C. Gonzalez-Junyent</u>, N. Soria, J. Villalba, A. Tomasello, R. Guerrero, E. Baselga, S. Lopez; Barcelona/ES
- P-85 Pre-operative transcatheter arterial embolization of giant symptomatic haemangiomas O. Doody, <u>D. Halpenny</u>, G.J. McNeill, R. Browne, W.C. Torregianni; Dublin/IE
- P-86 Embolotherapy in acute renal hemorrhage: a review of most frequent causes leading to emergency embolotherapy, using a supraselective approach whenever possible <u>J.E. Armijo</u>, J. Gallego, A. Hernadez Lezazana, J. Mendez; Madrid/ES
- P-87 Endovascular superselective embolization of prostatic arteries as the new method of BPH less invasive treatment I.I. Sitkin, D.G. Kurbatov, A.E. Lepetuhin, S.A. Dubskii, I.I. Dedov; Moscow/RU
- P-88 Transcatheter embolization of bronchial and pulmonary arteries: indications, techniques and complications <u>C. Ballarati</u>, A. Martegani, R. Rivolta; Como/IT
- P-89 True-and pseudo-aneurysms around the pancreas: various clinical and imaging manifestation and the role of endovascular therapy

  <u>S. Fuwa</u>, M. Kamo, E. Shibata, Y. Saida; Tokyo/JP
- P-90 Embolization of anticoagulation-related soft tissue bleeding: when and how do I do?

  <u>A. Dohan</u>, O. Pellerin, M. Di Primio, A. Palomera-Ricco, J.-Y. Pagny, B. Beyssen, M.R. Sapoval; Paris/FR
- P-91 Complex pseudoaneurysms: the good, the bad and the ugly <u>V. Shrivastava</u><sup>1</sup>, D. Chung<sup>2</sup>, S. Dixon<sup>2</sup>, R. Lakshminarayan<sup>1</sup>, R. Uberoi<sup>2</sup>; <sup>1</sup>Hull/UK, <sup>2</sup>Oxford/UK
- P-92 Acute gastrointestinal bleeding: superselective embolization with Onyx® liquid embolizer <u>T.H. Nguyen</u>, D. Nakamura, S. Kwok, A.C. Cohen; Orange, CA/US
- P-93 Percutaneous varicocele embolization: minimally invasive treatment of male infertility

  <u>L. Rodrigues</u><sup>1</sup>, A. Ramos<sup>2</sup>, A. Agostinho<sup>1</sup>, V. Carvalheiro<sup>1</sup>, P. Donato<sup>1</sup>, F. Caseiro-Alves<sup>1</sup>; <sup>1</sup>Coimbra/PT, <sup>2</sup>Porto/PT

### **Case Reports**

- P-94 Endovascular treatment of a ruptured pulmonary artery aneurysm (PAA) in a patient with Behçet's disease (BD) using the amplatzer vascular plug (AVP)

  <u>A. lanniello</u><sup>1</sup>, G. Carrafiello<sup>2</sup>, P. Nicotera<sup>1</sup>, A. Vaghi<sup>1</sup>, A. Cazzulani<sup>1</sup>; <sup>1</sup>Garbagnate Milanese/IT, <sup>2</sup>Varese/IT
- P-95 Coil embolization in the treatment of retroperitoneal hematoma from a lumbar artery pseudoaneurysm resulting from IVC filter placement

  A. Deodhar¹, V.S. Dravid¹, A. Gupta²; ¹Bryn Mawr, PA/US, ²Paoli, PA/US
- P-96 Embolization with Onyx liquid embolic agent of a ruptured splenic artery aneurysm. A case report

  <u>I. Insausti Gorbea</u>, F. Urtasun Grijalba, F.J. Martinez Jarauta, C. Jean Louis, S. Solchaga Álvarez, J. Barberena Iriberri;

  Pamplona/ES
- P-97 Pre-Fontan coil embolization to occlude aortopulmonary collateral arteries in a single ventricle patient: use of Guglielmi detachable coils (GDC)

  <u>T. Sonomura</u>, M. Nakai, N. Kawai, M. Sawa, A. Ikoma, H. Minamiguchi, K. Kishi, T. Suenaga, T. Takeuchi, H. Suzuki, N. Yoshikawa, S. Uchita, Y. Okamura, M. Sato; Wakayama/JP



P-98	Back door embolisation via the plantar arch of a traumatic arteriovenous fistula of the posterior tibial artery and vein F. Sakhinia, D.M. Seriki, S. D'Souza, A. Craig, A. Egun; Preston/UK
P-99	Endovascular treatment of a large neck arterio-venous malformation (AVM) with temporary flow reduction technique and transarterial cyanoacrylate embolization
	<u>A. lanniello</u> <sup>1</sup> , M. Vaghi <sup>1</sup> , G. Carrafiello <sup>2</sup> , A. Cazzulani <sup>1</sup> ; <sup>1</sup> Garbagnate Milanese/IT, <sup>2</sup> Varese/IT
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P-101	Gastroduodenal artery pseudoaneurysm with proximal small bowel obstruction following colonoscopy: case report of a rare complication <a href="Millowstanding-1.0.1.0.1">M. Bansal, S. Chellamuthu, C. Clout, J.R. Bottomley; Sheffield/UK</a>
P-102	Pseudoaneurysm treatment of deep artery of the penis by direct percutaneous injection of non-adhesive liquid embolic agent (Onyx) in a case of high-flow priapism <u>A. Lunardi</u> <sup>1</sup> , T. Torri <sup>2</sup> , I. Bargellini <sup>1</sup> , B. Parentini <sup>1</sup> , F. Turini <sup>1</sup> , O. Perrone <sup>1</sup> , R. Cioni <sup>1</sup> ; <sup>1</sup> Pisa/IT, <sup>2</sup> Carrara/IT
P-103	Bilateral vesical artery embolization for the treatment of radiation cystitis <u>S.Y. Choi</u> <sup>1</sup> , E.Y. Jeon <sup>1</sup> , H.J. Lee <sup>1</sup> , S.H. Lee <sup>2</sup> ; <sup>1</sup> Anyang/KR, <sup>2</sup> Seoul/KR
P-104	Successful closure of a broncho-pleural fistula with an amplatzer vascular plug <u>F. Gabbrielli</u> , M. Krokidis, P. Gkoutzios, T. Sabharwal, A. Adam; London/UK
P-105	Endovascular embolization of traumatic pseudoaneurysm of left deep artery of the penis by non-adhesive liquid embolic agent (Onyx) in a case of high-flow priapism <u>A. Lunardi</u> <sup>1</sup> , T. Torri <sup>2</sup> , I. Bargellini <sup>1</sup> , S. Vannucci <sup>1</sup> , E. Bozzi <sup>1</sup> , M. Barattini <sup>1</sup> , R. Cioni <sup>1</sup> ; <sup>1</sup> Pisa/IT, <sup>2</sup> Carrara/IT
P-106	Endovascular treatment of a real inferior gluteal artery aneurysm associated with a pelvic arteriovenous malformation <u>S. Mangold</u> , D. Ketelsen, R. Syha, B. Balletshofer, G. Kalender, U. Kramer, C.D. Claussen, K. Brechtel; Tuebingen/DE
P-107	Microsphere spleen embolization in a case of thrombocytopenia C. Rossi, <u>L. Buttarelli</u> , A. Ranalli, S. Poggesi, E. Epifani, C. Marcato; Parma/IT
P-108	Isolation technique on transcatheter coil embolization for gastrointestinal hemorrhage in an angiographically unvisualized right hepatic arterial branch <a href="Y.Tamura">Y.Tamura</a> , O. Ikeda, Y. Nakasone, Y. Yamashita, H. Baba; Kumamoto/JP
P-109	Combined thrombin injection and coil embolization of pseudoaneurysm arising from gastroduodenal artery stump after pylorus preserving pancreaticoduodenectomy <a href="Y.H. Kim">Y.H. Kim</a> , E.J. An <sup>1</sup> , S.H. Kim <sup>1</sup> , Y.J. Kim <sup>2</sup> ; <sup>1</sup> Daegu/KR, <sup>2</sup> Keonsangbuk-do/KR
P-110	William syndrome: a rare genetic disease with a rare manifestation of multiple pulmonary arteriovenous malformations  A.F. Nicolini, L. Martinetti, S. Crespi, P. Tarsia, M.F. Bedeschi; Milan/IT
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P-112	Congenital and acquired renal AVMs: curative embolization with Onyx <u>C. Cinar</u> , H. Bozkaya, I. Oran, S. Duman; Izmir/TR
P-113	Intercostal artery embolization for intrathoracic drainage tube bleeding R. Chen, <u>HJ. Hu</u> ; Hangzhou Zhejiang/CN
P-114	Endovascular management of multiple pulmonary artery aneurysms in a patient with Behçet's disease: case report <u>L.P. Paranahewa</u> , A.N. Wijewardena; Colombo/LK
P-115	Endovascular treatment of a peripheral pulmonary artery pseudo-aneurysm in a patient with complex congenital heart disease <u>G. Ananthakrishnan</u> , R.P. Yadavali, R. Kasthuri, R. Edwards, I. Robertson; Glasgow/UK

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P-118	Embolization of a type II endoleak via octopus graft after TAAA repair <u>R. Müller-Wille</u> , P. Heiss, C. Stroszczynski, W. Uller, P. Wiggermann, N. Zorger; Regensburg/DE
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P-120	Transarterial treatment in penetrating cranio-cerebral injuries <u>M. Natrella</u> , M. Cristoferi, G. Fanelli, M. Oggero, A.M. Rosano', D. Machado, T. Meloni; Aosta/IT
P-121	Renal artery aneurysm successfully embolized using double microcatheter single vascular access technique and new PenumbraTM detachable coils  N. Burdi¹, F. Resta², D. Monaco¹, M.C. Resta¹, M. Donatelli¹, M. Resta¹; ¹Taranto/IT, ²Bari/IT
P-122	Successful embolization of multiple bleeding angiomyolipomas with high-flow A-V fistula in a horseshoe kidney N. Burdi <sup>1</sup> , F. Resta <sup>2</sup> , D. Monaco <sup>1</sup> , M.C. Resta <sup>1</sup> , M. Donatelli <sup>1</sup> , M. Resta <sup>1</sup> ; <sup>1</sup> Taranto/IT, <sup>2</sup> Bari/IT
P-123	Selective embolisation of an arteriobiliary fistula caused by laparoscopic cholecystectomy <u>B. Popa</u> , M. Popiel, L. Gulie, R. Stanescu, F. Iordache; Bucharest/RO
P-124	Endovascular treatment of a persistent sciatic artery aneurysm <u>R. Patel</u> <sup>1</sup> , D.R. Shaw <sup>2</sup> ; <sup>1</sup> Leeds/UK, <sup>2</sup> Wakefield/UK
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P-128	Factors influencing mortality after endovascular repair of ruptured abdominal aortic aneurysms: a meta-analysis and meta-regression analysis <u>C.D. Karkos</u> <sup>1</sup> , A.J. Sutton <sup>2</sup> , M. Bown <sup>2</sup> , R.D. Sayers <sup>2</sup> ; <sup>1</sup> Thessaloniki/GR, <sup>2</sup> Leicester/UK
P-129	Reducing the risk of spinal cord ischaemia following endovascular repair of thoracoabdominal aneurysms: "the sac perfusion branch" <i>J. Raja, D. Simring, J. Hague, S. Harrison, P. Harris, K. Ivancev; London/UK</i> WITHDRAWN
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A. England, M. Garcia-Finana, N.D. Scutt, S.R. Vallabhaneni, R.G. McWilliams; Liverpool/UK

P-133	Clinical factors increasing radiation doses to patients during abdominal stent-graft implantation N. Majewska <sup>1</sup> , M.A. Blaszak <sup>2</sup> , M. Frankiewicz <sup>1</sup> , B. Żabicki <sup>1</sup> , <u>M.G. Stanisic</u> <sup>1</sup> , R. Juszkat <sup>1</sup> , Z. Krasinski <sup>1</sup> , J. Kulesza <sup>1</sup> , M. Makalowski <sup>1</sup> , W. Majewski <sup>1</sup> ; <sup>1</sup> Poznan/PL, <sup>2</sup> Warsaw/PL
P-134	Long-term follow-up of patients after endovascular stent-graft treatment of acute complicated type B aortic dissection: changes in aortic morphology in relation to clinical outcome <u>MO. Eriksson</u> , J. Steuer, A. Wanhainen, S. Thelin, R. Nyman; Uppsala/SE
P-135	Endovascular repair of inflammatory abdominal aortic aneurysms: a 15-year single-centre experience <i>T.S. Gerassimidis, C.D. Karkos, D.G. Karamanos, K.O. Papazoglou, <u>T. Kalogirou</u>, D.N. Papadimitriou, I. Giagtzidis; <i>Thessaloniki/GR</i></i>
P-136	Performance of chimney grafts in urgent aortic arch pathologies <u>K.P. Donas</u> , G. Torsello, M. Austermann, G.A. Pitoulias; Münster/DE WITHDRAWN
P-137	Abdominal chimney grafts for aneurysms with short neck: are they increasing the EVAR population? <u>K.P. Donas, G. Torsello, A. Schwindt, M. Eisenack, B. Gehringhoff, M. Austermann; Münster/DE</u> WITHDRAWN
P-138	Abdominal aortic aneurysms with severe neck and iliac angulations: endovascular treatment with the Aorfix stent-graft  P. Ciostek, P. Szopinski, P. Myrcha, J. Iwanowski, M. Janas, G. Laska; Warsaw/PL
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P-141	A 10-year single centre experience of endovascular stent graft repair for traumatic thoracic aortic injuries <u>D.G. Ranatunga</u> <sup>1</sup> , C.M. Patel <sup>1</sup> , A.D.S. Shawyer <sup>1</sup> , M.B. Matson <sup>2</sup> , N.I. Fotiadis <sup>1</sup> ; <sup>1</sup> London/UK, <sup>2</sup> Essex/UK
P-142	Repositionable EVAR: the early European experience with the Gore C3 delivery system <i>R.G. McWilliams</i> ; Liverpool/UK
P-143	Exclusion of thoracic aortic aneurysm using a recapturable/repositionable Amplatzer thoracic graft: preclinical evaluation in a large swine model X. Gu, C. Zhao, P. Russo, M. Heidner, J. Oslund; Plymouth, MN/US
P-144	Open repair versus endovascular treatment in elective and emergency surgery of infrarenal aortic aneurysms: 6 years of single center experience <u>M. Wilhelm</u> , C. Reeps, F. Härtl, HH. Eckstein; Munich/DE
P-145	Rates and complexity of secondary intervention following EVAR <u>J. Oakes</u> , D. Beckett, C. Bent, L. Wijesinghe, D. Rittoo, S. Parvin; Bournemouth/UK
P-146	Short-term results with the Powerlink stent-graft at two UK centres <u>J. Oakes</u> 1, R. Awad², D. Rittoo¹, N. Damani²; ¹Bournemouth/UK, ²Watford/UK
P-147	Trans-caval endoleak embolization (TCEE) of type I and II endoleaks occurring after endovascular abdominal aortic aneurysm repair (EVAR)  R. Gandini, <u>D. Konda</u> , M. Chiocchi, D. Morosetti, A. Chiaravalloti, G. Loreni, G. Simonetti; Rome/IT
P-148	Embolization of internal iliac artery aneurysms with occluded internal iliac ostia after abdominal aortic aneurysm repair through femoral-internal iliac collaterals <u>S. Abderhalden</u> , T. Pfammatter; Zuerich/CH
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<u>A. England</u>, R.G. McWilliams, M. Garcia-Finana, S.R. Vallabhaneni; Liverpool/UK

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P-151	Endovascular treatment of ruptured abdominal aortic aneurysms: aorto-uni-iliac or bifurcated endograft? <i>F. Fontana, G. Carrafiello, M. Mangini, G. Piffaretti, A.M. Ierardi, <u>F. Piacentino</u>, A. Canì, C. Fugazzola; Varese/IT</i>
P-152	Percutaneous contrast enhanced ultrasound (CEUS)-guided thrombin injection for endoleaks after endovascular repair of abdominal aortic aneurysm: a pictorial review  M. Mazon, G. Cabrera, M. Atarés, A. Ruiz, T. Ripolles, E. Lonjedo; Valencia/ES
P-153	Hybrid procedures for complex thoracic aortic pathology <u>M. Barrufet</u> , M. Burrel, M. Teixidor, G. Mestres, X. Montañá, M.I. Real; Barcelona/ES
P-154	Indications and planning for fenestrated and branched endografts  M. Barrufet, M. Burrel, V. Riambau, M. Teixidor, M.I. Real, X. Montañá; Barcelona/ES
P-155	Endovascular stent grafting for various aortic diseases: indications, imaging work-up, technical considerations, and management of complications <u>I. Sakamoto</u> , H. Nagayama, E. Sueyoshi, A. Nishida, H. Hayashi, M. Uetani; Nagasaki/JP
P-156	Chimneys, snorkels and periscopes: options for endovascular repair of complex abdominal aortic aneurysms <u>S.E. Jacob</u> , F. Farquharason, F. Serracino-Inglott; Manchester/UK
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P-158	Chimney graft for the treatment of a symptomatic aortic anastomotic pseudoaneurysm <i>R.B. Soares, S.M. Boustany, F. da Silva Canani, M.F. Rossi, A.A. Pereira, L.F.M. Costa; Porto Alegre/BR</i>
P-159	Endovascular aneurysm repair using a reverse chimney technique in a patient with Marfan syndrome and contained ruptured chronic type B dissection <u>D. Ketelsen</u> , G. Kalender, M. Heuschmid, R. Syha, S. Mangold, C.D. Claussen, K. Brechtel; Tuebingen/DE
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P-162	Aortoduodenal fistula after surgical bypass: endovascular treatment of nearly fatal haemorrhage <u>M. Vrtovec</u> ; Ljubljana/SI
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P-176	Endovascular treatment of iatrogenic ruptured thoracic aortic pseudoaneurysm after an open vertebral biopsy: case report <u>F. Islim,</u> K. Guven, A. Ucar, S.G. Ciftci, M. Seren; Istanbul/TR
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P-193	Gelatin microspheres: correlation between embolic effect/degradability and cross-linkage/particle size <u>S. Ota</u> , N. Nitta, A. Sonoda, A.N. Seko, H. Otani, K. Tsuchiya, S. Watanabe, Y. Tomozawa, M. Takahashi, K. Murata; Otsu/JP
P-194	Combination of MRI visible iron-platinum (FePt) nanoparticles and resonant markers for catheter localization and guidance in 1.5T MRI  M. Rube <sup>1</sup> , P. Samraj <sup>1</sup> , E. Immel <sup>1</sup> , D. Kakchingtabam <sup>2</sup> , P. André <sup>2</sup> , A. Melzer <sup>1</sup> ; <sup>1</sup> Dundee/UK, <sup>2</sup> St Andrews/UK
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P-196	A novel stent designed for the treatment of tracheal traumatisms: preliminary study in an animal model F. Soria, E. Morcillo, C. Martin, V. Crisóstomo, M.F. Martin, R. Lima, F.M. Sánchez-Margallo; Cáceres/ES
P-197	In the rodent model, does an additional hepatic artery ligation have any benefit for compensatory liver regeneration than portal vein ligation alone? <u>G.S. Jeon</u> <sup>1</sup> , B.M. Lee <sup>2</sup> , S.Y. Chung <sup>3</sup> ; <sup>1</sup> Sungnam-si/KR, <sup>2</sup> Seoul/KR, <sup>3</sup> Chungwon-Gun/KR
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P-200	Acute mesenteric ischemia: technical success rate of percutaneous stenting and clinical outcome <i>R. Forbrig, R. Müller-Wille, S. Schleder, C. Stroszczynski, P. Heiss; Regensburg/DE</i>
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P-207	Concerning the incidence of stomach wall dissection during CT-guided gastrostomy in morbidly obese patients with previous gastric by-pass surgery: are there any denominators?  P. Kraniotis, C. Spyropoulos, G. Kagadis, A. Karatzas, S. Spiliopoulos, A. Diamantopoulos, T. Petsas; Patras/GR
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P-210	Is there a role for prophylactic gastroduodenal artery embolization in the management of patients with active upper GI haemorrhage? <u>S. Dixon</u> , V. Chan, V. Shrivastava, M. Bratby, S. Anthony, R. Uberoi; Oxford/UK
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P-219	Uterine artery embolization for large fibroids: a comparative study in patients with and without pretreatment gonadotropin-releasing hormone agonists <u>MD. Kim</u> , J.Y. Won, D.Y. Lee, M.S. Lee, S.I. Park, M. Lee, K.H. Lee; Seoul/KR
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P-221	Complications after uterine artery embolization in the treatment of postpartum hemorrhage: multivariate analysis of predictive factors for major complication <a href="Y.J. Kim">Y.J. Kim</a> , C.J. Yoon, N.J. Seong, S.W. An, Y.S. Kim; Seongnam/KR
P-222	Utero-ovarian anastomoses in uterine fibroid embolization: their presence could influence the results and complications? <u>J.J. Ciampi</u> , C. Lanciego, I. Diaz-Plaza, N. Rodriguez-Martín, M.D. Maldonado, O. Rodríguez-Gómez, R. Cuena-Boy, M.L. Cañete, L. García-García; Toledo/ES
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P-228	Balloon occlusion of the internal iliac arteries during caesarean section for placenta percreta: a case series <u>C. Clausen</u> , M. Hansen, C.K. Albrechtsen, J. Langhoff-Roos, L. Lønn; Copenhagen/DK
P-229	Successful uterine artery embolization in intractable post-partum hemorrhage using a novel embolic agent: Onyo <u>M. Ares-Rego</u> , J.M. Pumar-Cebreiro, P. Sucasas-Hermida, R. Garcia-Dorrego, A. Vazquez-Martin, P. Caro-Dominguez; Santiago De Compostela/ES
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**Imaging** 

P-231 Role of multidetector-row CT in assessing the source of arterial hemorrhage in patients with pelvic vascular trauma: comparison with angiography

\*\*R. Niola, G. de Magistris; Naples/IT\*\*

P-232	Single dose gadobenate dimeglumine for comprehensive MR angiography of the lower limbs with dynamic calf, 3-station bolus chase and high resolution extended phase infra-inguinal imaging: initial experience & comparison to historical control blood pool contrast agent imaging <u>A.I. Christie</u> , G. Roditi, S. Chandramohan; Glasgow/UK
P-233	Foot perfusion CT in patients with peripheral arterial occlusive disease (PAOD): a novel chance for treatment planning?  M. Santoro, R. lezzi, R. Dattesi, G. Tinelli, F. Snider, L. Bonomo; Rome/IT
P-234	MR evaluation of hepatic lesions after radioembolization by unenhanced and dynamic contrast-enhanced MR imaging using Gd-BOPTA <u>R. Seidel</u> , K. Obst-Gleditsch, A. Massmann, M. Katoh, A. Buecker, G. Schneider, P. Fries; Homburg/DE
P-235	Diagnostic accuracy of CT angiography in the evaluation of lower limbs stenosis: comparison between visual score and quantitative analysis using a semi-automated 3D software <i>F. Pirro, R. lezzi, M. Nestola, M. Latorre, M. Santoro, L. Bonomo; Rome/IT</i>
P-236	Real-time monitoring of ablation defects during radiofrequency ablation of liver lesions using ultrasound-based tissue elastography: preliminary results <u>P. Wiggermann</u> , C. Friedrich, R. Müller-Wille, E.M. Jung, C. Stroszczynski; Regensburg/DE
P-237	Evaluation of hemodynamic changes using dynamic susceptibility contrast-enhanced (DSC) MRI in patients with MS and Zamboni's CCSVI S. Marziali, F.G. Garaci, M. Melis, S. Fabiano, M. Stefanini, A. Meschini, M. Fornari, D. Centonze, R. Floris, G. Simonetti; Rome/IT
P-238	Improved C-arm cone-beam CT imaging in the rabbit VX-2 liver tumor model by compensating for breathing motion: first results  D. Schaefer <sup>1</sup> , M. Lin <sup>2</sup> , P.P. Rao <sup>3</sup> , R. Loffroy <sup>3</sup> , E. Liapi <sup>3</sup> , N. Noordhoek <sup>4</sup> , P. Eshuis <sup>4</sup> , A. Radaelli <sup>4</sup> , M. Grass <sup>1</sup> , JF.H. Geschwind <sup>3</sup> ;   1 Hamburg/DE, <sup>2</sup> Briarcliff Manor, NY/US, <sup>3</sup> Baltimore, MD/US, <sup>4</sup> Best/NL
P-239	Detection and characterization of cerebral metastases: comparison of contrast-enhanced T1-MPRAGE and SPACE in an intraindividual comparison <u>A.V. Fedorov</u> , S. Diment; St. Petersburg/RU
P-240	Low-dose contrast-enhanced 4D DSA for post-surgical evaluation of hepatic artery complications after liver transplantation <u>J. Wang</u> , L. Luo, H. Shan; Guangzhou/CN
P-241	Anomalous inferior vena cava associated with horseshoe kidney on MDCT <u>T. Ichikawa</u> , J. Koizumi, T. Hashimoto, K. Myojin, S. Kawada, T. Hara, C. Ito, Y. Imai; Isehara/JP
P-242	Clinical application of diffusion weighted imaging and contrast-enhanced ultrasound in the diagnosis of ischemic-type biliary lesions after liver transplantation J. Wang, J. Liu, L. Luo, H. Shan, B. He; Guangzhou/CN
P-243	Role of 3T MRI in the evaluation of the myocardial viability after coronary artery recanalization. A prospective study <u>D. Bondarchuk</u> , A.V. Fedorov, S. Diment; Saint-Petersburg/RU
P-244	Intravenous contrast-enhanced C-arm CT for assessing safety margins in radiofrequency ablation of liver tumors: a preliminary result  J. Iwazawa <sup>1</sup> , S. Ohue <sup>2</sup> , N. Hashimoto <sup>1</sup> , T. Mitani <sup>1</sup> ; <sup>1</sup> Osaka/JP, <sup>2</sup> Neyagawa/JP
P-245	Virtual unenhanced CT of the aorta: can the conventional unenhanced phase be discarded?  N. Shaida, D. Bowden, T. Barrett, A. Taylor, E. Godfrey, T. See, A. Winterbottom, D. Lomas, A. Shaw; Cambridge/UK
P-246	Magnetic resonance imaging for optimized implantation and long-term monitoring of patients receiving a left atrial appendage occluder <u>AM. Sinha</u> , C. Mahnkopf, D. Sinha, J. Brachmann, H. Rittger; Coburg/DE

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P-248	Pictorial essay of upper extremity angiographic findings <u>T. Kinney</u> ; San Diego, CA/US
P-249	Congenital anomalies involving the coronary sinus: ECG-gated 64-channel MDCT findings <u>S.H. Kwon</u> <sup>1</sup> , J.E. Lee <sup>1</sup> , J.H. Oh <sup>1</sup> , H.S. Jung <sup>2</sup> ; <sup>1</sup> Seoul/KR, <sup>2</sup> Incheon/KR
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P-251	Usefulness of CT during celiacography using 320-detector row CT before transcatheter arterial chemoembolization for hepatocellular carcinoma <u>T. Taniguchi</u> , N. Kusunoki, K. Uotani, T. Suga, N. Mori, H. Tomimatsu, N. Onishi, M. Nakabayashi, G. Okubo, A. Kawasaki, N. Nishimoto, S. Noma; Tenri/JP
P-252	Klippel-Trenaunay-Weber syndrome: pathophysiology, imaging and intervention K. Steiner, A.M. Papadopoulou, N. Davies, A.D. Platts; London/UK
P-253	Balloon occlusion brain SPECT: the role in assessment for cerebral artery sacrifice I. Crosbie, G.J. O'Sullivan, M. O'Connell, L. Lawler; Dublin/IE
P-254	Popliteal artery stenosis: a review of intrinsic and extrinsic causes <u>D. Machleder</u> , L. Lempert; New York, NY/US
P-255	Extremity DSA-flow/perfusion studies: a novel home-grown technique <u>F.A. Bolster</u> , M.R. Moynagh, L. Gaynor, P. Kenny, L. Lawler; Dublin/IE
P-256	Angiography with 64 slices multidetector computed tomography for vascular interventional planning <u>E. Lonjedo</u> , G. Cabrera, M. Mazon, M. Atarés, E. Casula, A.M. Boronat, A. Ruiz; Valencia/ES
P-257	Appreciating critical imaging features in the appropriate triage of blunt splenic trauma <u>M.B. Johnson</u> , P.A. Patel, C.E. Lane, T.J. Bryant, B. Stedman, N. Hacking, D.J. Breen; Southampton/UK
P-258	Pictorial review of aortic root vascular pathology <u>R. Patel</u> <sup>1</sup> , M. Subesinghe <sup>1</sup> , S.K. Agarwal <sup>2</sup> , S. Puppala <sup>1</sup> ; <sup>1</sup> Leeds/UK, <sup>2</sup> Wrexham/UK
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P-347	The safety and efficacy of combining radioembolization with TACE for HCC <u>D.L. Wood</u> , K.S. Hirsch, S.Y. Chen; Phoenix, AZ/US
P-348	Image-guided palliation of painful bone metastases using percutaneous cryoablation: clinical experience and pre- liminary results S. Masala, R. Fiori, E. Gaspari, O. Schillaci, R. Danieli, G. Simonetti; Rome/IT
P-349	A randomized phase II trial of irinotecan drug-eluting beads administered by hepatic chemoembolization with intravenous cetuximab (DEBIRITUX) versus systemic treatment with intravenous cetuximab and irinotecan in patients with refractory colorectal liver metastases and Kras wild-type tumors <u>A. Stein¹, M. Duex², R. Kickuth³, A. Petrovitch⁴, S. Pluntke⁵, J. Ricke⁶, C. Stroszczynski³, T.J. Vogl®, D. Arnold¹, P.L. Pereiraց; ¹Hamburg/DE, ²Frankfurt a.M./DE, ³Würzburg/DE, ⁴Bad Berka/DE, ⁵Essen/DE, ⁶Magdeburg/DE, ¬Regensburg/DE, ®Frankfurt/DE, 9Heilbronn/DE</u>
P-350	Image-guided palliation of painful soft tissue metastases using percutaneous cryoablation: clinical experience and preliminary results  S. Masala, R. Fiori, E. Gaspari, O. Schillaci, R. Danieli, G. Simonetti; Rome/IT
P-351	Switching the loaded agent from epirubicin to cisplatin: salvage transcatheter arterial chemoembolization with drug-eluting microspheres for unresectable hepatocellular carcinoma <u>A. Seki</u> , A. Hori, E. Sugihara, S. Hori; Izumisano/JP
P-352	Comparison of diagnostic quality of intra-arterial CT images obtained using cone beam CT and multidetector CT systems for hepatic radioembolisation <u>C.W. Too</u> , F.G. Irani, K.H. Tay, M. Taneja, L.S. Khoo, M.C. Burgmans, T. Teo, T.N. Yeow, B.S. Tan; Singapore/SG
P-353	Preliminary study of hepatic arterial infusion chemotherapy combined with endogenetic field tumor hyperthermia for hilar cholangiocarcinoma <a href="Y. Chen">Y. Chen</a> , L. Xu, H. Sun; Guangzhou/CN
P-354	Humeral bone tumors treated with percutaneous cementoplasty <u>J. Palussière</u> <sup>1</sup> , O. Ecker <sup>2</sup> , F. Dixmerias <sup>1</sup> , E. Descat <sup>1</sup> , F. Cornelis <sup>1</sup> , T. Fabre <sup>1</sup> ; <sup>1</sup> Bordeaux/FR, <sup>2</sup> Grenoble/FR
P-355	Interventional radiologist: an important role in the treatment of metastatic radioiodine refractory thyroid carcinomas <u>J. Palussière</u> , V. Pointillart, E. Descat, B. Henriquès, F. Cornelis, Y. Godbert, A.L. Cazeau, F. Bonichon; Bordeaux/FR
P-356	Lipiodol versus DcBead in primary liver tumor transarterial chemoembolization (TACE)  R. Cuomo, M. Orsatti, R. Maroldi, G. Battaglia, C. Morelli, <u>E. Gavazzi</u> ; Brescia/IT
P-357	High-frequency percussive ventilation for complete target immobilization in radiofrequency ablation under multiphase CT guidance of malignant liver tumor <u>J. Lonjon</u> , B. Gallix, M. Mahul, S. Jaber; Montpellier/FR
P-358	Comparative study in hepatocellular carcinoma (HCC) post-treatment imaging with CEUS and MDCT after RFA and MVC  P. Tsagouli, L. Thanos, K. Malagari, S. Tanteles, S. Kampanarou, H. Karatziou, M. Pomoni, D.A. Kelekis; Athens/GR
P-359	Outcome in patients who underwent more than three sessions of transarterial chemoembolization for hepatocarcinoma  A.N. Diop, P. Chabrot, L. Cassagnes, A. Achim, C. Gageanu, A.T. Alfidja, A. Abergel, L. Boyer; Clermont-Ferrand/FR
P-360	Microwave ablation of adrenal metastatic tumors originating from lungs: our initial experience <u>P. Tsagouli</u> , L. Thanos, K. Malagari, S. Tanteles, S. Kampanarou, H. Karatziou, M. Pomoni, D.A. Kelekis; Athens/GR
P-361	Comparative study in hepatocellular carcinoma (HCC) post-treatment imaging with CEUS and MDCT after DC-beads chemoembolization  P. Tsagouli, M. Pomoni, S. Kampanarou, K. Mpouhra, S. Tanteles, L. Thanos, K. Malagari, S. Manouvelou, D.A. Kelekis;

P-362 Necrosis grade assessment after transarterial chemoembolization in hepatocellular carcinoma <u>D. Perez Enguix</u>, R. García, H. Montes, M. Lloret Larrea, F.M. Gómez, J.L. Longares; Valencia/ES

#### **Educational Posters**

- P-363 Liver-directed therapies for neuroendocrine metastatic liver disease: what is the evidence? <u>C. Kaufman</u><sup>1</sup>, C.E. Ray, Jr.<sup>2</sup>, J.A. Kaufman<sup>3</sup>; <sup>1</sup>Boston, MA/US, <sup>2</sup>Aurora, CO/US, <sup>3</sup>Portland, OR/US
- P-364 Percutaneous right portal vein embolization for induction of effective hypertrophy of the left hepatic lobe before right liver resection due to malignancy

  <u>P. Pappas</u>, S. Gioldasi, P. Leonardou; Athens/GR
- P-365 Evaluation of nephrotoxicity after transarterial chemoembolization with a miriplatin-lipiodol suspension for hepatocellular carcinoma

  O. Ikeda, Y. Nakasone, Y. Tamura, Y. Yamashita; Kumamoto/JP
- P-366 Single-session arterial embolization and percutaneous radiofrequency ablation is useful in patients with renal cell carcinoma at surgical risk

  O. Ikeda, Y. Nakasone, K. Kawanaka, Y. Tamura, Y. Yamashita; Kumamoto/JP
- P-367 "What happens?" Imaging spectrum after radiofrequency ablation of renal cell carcinoma: typical and atypical presentation

  H. Gobara, T. Hiraki, H. Mimura, K. Shibamoto, Y. Soda, Y. Masaoka, M. Uka, H. Ihara, T. Yamamoto, S. Kanazawa;

  Okayama/JP
- P-368 Radiofrequency ablation treatment of benign lesions: indications, technique and clinical outcome *B. Goncalves*<sup>1</sup>, *P.A. Almeida*<sup>2</sup>; <sup>1</sup>*Porto/PT*, <sup>2</sup>*Leiria/PT*
- P-369 Radiofrequency thermo ablation (RFA) in locally advanced pancreatic cancer: long-term results <u>C. Bassi</u>; Verona/IT
- P-370 CT and MR imaging features after percutaneous radiofrequency and cryoablation of renal tumors X. Buy, J. Garnon, G. Tsoumakidou, P. Host, H. Lang, A. Gangi; Strasbourg/FR
- P-371 Hepatic chemosaturation therapy (HCT) using the percutaneous hepatic perfusion (PHP) system: procedural details and technical considerations

  <u>F.M. Moeslein</u>; Baltimore, MD/US
- P-372 Nerve injury during lung thermal ablation: anatomy review, complications, review of the literature <u>J. Palussière</u><sup>1</sup>, E. Descat<sup>1</sup>, F. Cornelis<sup>1</sup>, F.M. Gómez<sup>2</sup>, M. Montaudon<sup>1</sup>; <sup>1</sup>Bordeaux/FR, <sup>2</sup>Valencia/ES
- P-373 Tips and tricks for colorectal stent placement in malignant large bowel obstruction N.F. Gafoor<sup>1</sup>, S.B. Nair<sup>1</sup>, S. Bays<sup>1</sup>, R. Guinness<sup>2</sup>, D. Kinsella<sup>2</sup>, A.F. Watkinson<sup>2</sup>; <sup>1</sup>Plymouth/UK, <sup>2</sup>Exeter/UK
- P-374 Percutaneous prostate cryoablation under MR-guidance: technique, advantages and limitations <u>G. Tsoumakidou</u>, H. Lang, J. Garnon, X. Buy, E. Bieton, M. de Mathelin, C. Kauff, A. Gangi; Strasbourg/FR
- P-375 Insulation and temperature monitoring during tumor thermal ablation: state of the art <u>G. Tsoumakidou</u>, J. Garnon, X. Buy, J.F. Cabral, A. Ganqi; Strasbourg/FR

#### **Case Reports**

- P-376 Transpulmonary radiofrequency ablation of hepatocellular carcinoma contiguous to the heart <u>T. Iguchi</u><sup>1</sup>, D. Inoue<sup>1</sup>, S. Kanazawa<sup>2</sup>; <sup>1</sup>Fukuyama/JP, <sup>2</sup>Okayama/JP
- P-377 Have you ever seen HCC with a shunt fraction of 50%? L.J. Briggs, J.M. Gemery; Lebanon, NH/US
- P-378 A long-term survival of a patient with intrahepatic cholangiocarcinoma treated with repetitive superselective transarterial chemoembolization: a case report <a href="https://linearchysiology.org/linearchysiology.org/">I. Dedes; Thessaloniki/GR</a>

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arteries

L. Qu; Shanghai/CN

C. Wissgott, P. Kamusella, C. Lüdtke, R. Andresen; Heide/DE

Endovascular repair of branch-artery involved aneurysm with multi-layer bare stents

P-379	Hepatocellular carcinoma (HCC) with tumor thrombus in the right branch of portal vein treated with transarterial chemoembolization using drug-eluting beads (DEB-TACE): 2-year follow-up <u>U. Akinfeyeu</u> , V. Orehov, V. Dudarau; Minsk/BY
P-380	Transarterial chemoembolization (TACE) for carcinoid liver metastases via dorsal pancreatic artery <u>U. Akinfeyeu</u> , V. Orehov, V. Dudarau; Minsk/BY
P-381	Multiple bilateral neck paragangliomas treated with transarterial embolization using PVA microspheres <u>U. Akinfeyeu</u> , I. Belatsarkouski, V. Dudarau; Minsk/BY
P-382	Computed tomography-guided percutaneous splanchnic neurolysis for pancreatic cancer pain treatment <u>V.D. Shoshiashvili</u> , N.V. Japharidze, I.N. Tatishvili, A.R. Tsalughelashvili, G.A. Mtskerashvili; Tbilisi/GE
P-383	Covered bronchial stent insertion to manage airway obstruction with hemoptysis caused by lung cancer <u>G.S. Jeon</u> <sup>1</sup> , S.A. Lee <sup>2</sup> , D.H. Kim <sup>2</sup> , I.S. Chang <sup>3</sup> ; <sup>1</sup> Sungnam-si/KR, <sup>2</sup> Cheonan-si/KR, <sup>3</sup> Seoul/KR
P-384	Improvement of quality of life using metallic stents in three different stenosis of recurrence in colon cancer <u>A. Kawasaki</u> , T. Taniguchi, K. Uotani, N. Kusunoki, T. Suga, N. Mori, H. Tomimatsu, N. Onishi, M. Nakabayashi, G. Okubo, Y. Nishimoto, S. Noma; Tenri/JP
P-385	HCC, endovascular treatment of pathological shunt between the V. portae and A. hepaticae <u>V. Marinkovic</u> , S. Rusovic, M. Scepanovic, M. Mihajlovic; Belgrade/RS
P-386	A case of transcatheter portal chemoembolization during portal vein occlusion for unresectable hepatocellular carcinoma with marked arterioportal shunts  F. Sugihara <sup>1</sup> , S. Murata <sup>2</sup> , F. Uchiyama <sup>1</sup> , N. Muraishi <sup>1</sup> , E. Tanaka <sup>1</sup> , J. Watari <sup>1</sup> ; 1Kanagawa/JP, <sup>2</sup> Tokyo/JP
P-387	Unexpected complication in a patients submitted to pulmonary radiofrequency ablation <u>B. Parentini</u> , C. Arena, A. Di Giambattista, C. Cappelli, E. Bozzi, R. Cioni, C. Bartolozzi; Pisa/IT
P-388	The use of balloon-occluded percutaneous radio-frequency thermal ablation (RFA) plus transcatheter arterial chemoembolization (TACE) for management of hepatocellular carcinoma with hepatic arteriovenous fistulae: a technical innovation
	<u>F. Pirro</u> , R. lezzi, G. Di Natale, M. Pompili, G.L. Rapaccini, A. Gasbarrini, L. Bonomo; Rome/IT
P-389	TIPSS occlusion as modified Pringle maneuver for juxta-TIPSS tumor ablation <u>U. Pua</u> , S. Punamiya; Singapore/SG
	Peripheral vascular disease intervention
	Scientific Posters
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P-391	Analyzing clinical and cost effectiveness of endovascular treatment in patients with critical ischemia of crural arteries in a tertiary university hospital from 2005 to 2010 <u>T.A. Sandner</u> , C. Degenhart, J. Becker-Lienau, M.F. Reiser, M. Treitl; Munich/DE
P-392	Primary PTFE-covered stenting for focal infrarenal aortic stenosis; midterm results R.C.G. Bruijnen, A.D. Horsch, F.A.B. Grimme, J.A. van Oostayen, M.M.P.J. Reijnen; Arnhem/NL



Excimer laser atherectomy after unsuccessful PTA recanalisation attempt of TASC C and D lesions in femoropopliteal

P-395	Current trends in heparin use in vascular intervention <u>A.C. Durran</u> <sup>1</sup> , C. Watts <sup>2</sup> ; <sup>1</sup> Truro/UK, <sup>2</sup> Salisbury/UK  WITHDRAWN
P-396	Initial experience with a new self-expanding, helical nitinol stent for endovascular treatment of the popliteal artery in patients with chronic critical limb ischemia <u>J.P. Goltz</u> , C.O. Ritter, R. Kellersmann, D. Hahn, R. Kickuth; Würzburg/DE
P-397	3-year results after atherectomy of heavily calcified stenotic lesions of the lower limb <u>P. Minko</u> , S. Jäger, A. Buecker, M. Katoh; Homburg/DE
P-398	Development and assessment of a procedure-specific checklist for superficial femoral artery angioplasty using an endovascular simulator <u>H.A. Hseino</u> , E. Nugent, P. Neary, M.J. Lee, M.F. Given, A. Hill, D. Moneley; Dublin/IE WITHDRAWN
P-399	Efficacy of iliac artery stent placement for claudicators having both iliac and superficial femoral artery lesions <u>S. Ichihashi</u> , W. Higashiura, H. Itoh, S. Sakaguchi, K. Kichikawa; Kashihara, Nara/JP
P-400	Cool excimer laser-assisted angioplasty (CELA) vs tibial balloon angioplasty (TBA) in management of infragenicular tibial arterial occlusion in critical lower limb ischaemia (CLI) TASC DE. A pivotal observational analogy congregate proportional analysis over 48 months "six L trial" S. Sultan, <u>W. Tawfick</u> , N. Hynes; Galway/IE
P-401	Paclitaxel-eluting balloon angioplasty of infrapopliteal arteries: one-year results in a prospective patient cohort <u>P. Jenzewski</u> , P. Zwaka, W. Staab, A. Seif, T. Stoyanovic, J. Lotz, C. Engelke; Goettingen/DE
P-402	The validity of endovascular treatment for chronic total occlusion of unilateral iliac artery in TASC type D N. Miyamoto <sup>1</sup> , R. Kawasaki <sup>1</sup> , T. Fukuda <sup>2</sup> , M. Yamaguchi <sup>3</sup> , M. Omori <sup>1</sup> , K. Sugimura <sup>3</sup> , K. Sugimoto <sup>3</sup> ; <sup>1</sup> Himeji/JP, <sup>2</sup> Suita/JP, <sup>3</sup> Kobe/JP
P-403	Endovascular treatment of iliac artery aneurysms <i>R. Shuto, H. Kiyosue, N. Hongo, S. Tanoue, S. Matsumoto, H. Mori; Oita/JP</i>
P-404	Percutaneous approach to severe ischemic hand disease: technical aspect and results R. Gandini, C.A. Reale, <u>S. Spano</u> , A. Chiaravalloti, D. Morosetti, G. Simonetti; Rome/IT
P-405	Intraluminal recanalization of long infrainguinal chronic total occlusions using the Crosser system R. Gandini, <u>C.A. Reale</u> , S. Spano, V. Da Ros, A. Chiaravalloti, E. Pampana, G. Simonetti; Rome/IT
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P-407	When and where to stop? Real-time microcirculation monitoring during BTK interventions as a potential new option for feedback Z. Bansaghi, K. Farkas, E. Kolossvary; Budapest/HU
P-408	Advanced below-the-knee revascularization techniques <u>G. Cester</u> , L.M. Palena, C. Brigato, F. Kici, I. Alek, M. Manzi; Abano Terme/IT
P-409	A guide to the recanalization of foot arteries: from angiographic anatomy to the angiosome concept <u>G. Cester</u> , L.M. Palena, A. Candeo, I. Alek, M. Manzi; Abano Terme/IT
P-410	UltraSound (US)-guided angio-seal deployment in antegrade femoral arterial access: technical aspects and tips and tricks <u>G. Cester</u> , L.M. Palena, E. Sultato, D. Barra, M. Manzi; Abano Terme/IT

#### **Case Reports**

P-411	Retrieval of a misplaced 13F-dialysis-catheter from the subclavian artery using an undersized 8F-closure-device
	(AngioSeal) with endovascular balloon-fixation of the anchor
	<u>H. Bovenschulte</u> , D.H. Chang, T. Liebig, C. Bangard; Cologne/DE

- P-412 A new vascular access: transgluteal hypogastric artery aneurysm embolization

  <u>R. Barranco Pons</u><sup>1</sup>, J. Dominguez<sup>1</sup>, C. Sancho Calsina<sup>1</sup>, F.M. Gómez<sup>2</sup>, E.S. Escalante Porrua<sup>1</sup>, E. Alba Rey<sup>1</sup>; <sup>1</sup>Barcelona/ES,

  <sup>2</sup>Valencia/ES
- P-413 Percutaneous removal of a displaced angioseal O.A. Harryman, D. Fraser, G. Murphy; Manchester/UK
- P-414 Endovascular stent-graft treatment of a traumatic posterior tibial artery pseudoaneurysm P. Larini, A. Ranalli, <u>L. Buttarelli</u>, E. Epifani, S. Poggesi, C. Marcato, C. Rossi; Parma/IT
- P-415 Symptomatic stenosis of a Lusoria artery: endovascular treatment with the stenting <u>V. Chovanec, M. Lojik, R. Malý, A. Krajina; Hradec Králové/CZ</u>
- P-416 Interventional treatment of cystic adventitial disease <u>J.H. Kim</u>, S.S. Byun; Incheon/KR
- P-417 Aorto-caval fistula formation due to use of the outback re-entry catheter S. Bays, W.C. Liong, P. Lintott, D.R. Warakaulle; Buckinghamshire/UK
- P-418 Transbrachial recanalisation of an occluded brachiocephalic trunk

  <u>F. Mayer</u>, V. Hesselmann, M. Ritter, T. Schoenefeld, T. Niederstadt; Münster/DE
- P-419 Accidental BTK glubran embolization successfully resolved with a carotid filter device <u>J. Urbano</u>, J.M. Cabrera, A. Alonso-Burgos; Madrid/ES

#### **Radiation safety**

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- P-420 A review of the clinical outcomes of implementing optimized radiation dose techniques for temporomandibular joint (TMJ) treatments utilizing C-arm CT

  X. Zhu, A.M. Cahill; Philadelphia, PA/US
- P-421 The effect on operator hand dose of using needle guidance devices during cone-beam CT combined with real-time fluoroscopy-guided puncture procedures

  M.W. Kroes, W.M.H. Busser, F. de Lange, L.J. Schultze Kool, Y. Hoogeveen; Nijmegen/NL
- P-422 Staff doses in interventional radiology. A national survey

  R.M. Sanchez¹, E. Vano¹, J.M. Fernandez¹, F. Rosales², J. Sotil³, J. Ciudad⁴, F. Carrara⁵, M.A. Garcia⁶, M.D.M. Solerˀ, B.

  Ballester³, J. Hernandez⁵, L.C. Martinez¹, J. Gallego¹, J.F. Verdú³, M. Gonzalez de Garay², A. Azpiazu⁶, A. Segarra Medrano³,

  M. Canis², F. Moreno⁵, F. Diaz⁵, J. Palmero⁴, E. Garcia-Hidalgo¹; ¹Madrid/ES, ²Basurto/ES, ³Barcelona/ES, ⁴Valencia/ES,

  ⁵Huelva/ES, ⁶Vitoria-Gasteiz/ES, ⁻Cordoba/ES, åAlicante/ES, ゥLa Laguna/ES
- P-423 Patient dose values in interventional neuroradiology. Impact of a low dose protocol

  E. Vano, D. Martinez-Barrio, J.M. Fernandez, C. Prieto, R.M. Sanchez, D. Cordoba, L. Lopez Ibor, A. Gil, C. Serna; Madrid/ES
- P-424 Experience on the use of SIR-CIRSE guidelines for patient radiation dose management in neuroradiology <u>E. Vano</u>, J.M. Fernandez, R.M. Sanchez, L. Lopez Ibor, A. Gil, C. Serna; Madrid/ES
- P-425 Extremity and eye lens doses in interventional cardiology and radiology procedures

  <u>E. Carinou</u><sup>1</sup>, J. Domienik<sup>2</sup>, L. Donadille<sup>3</sup>, C. Koukorava<sup>1</sup>, S. Krim<sup>4</sup>, D. Nikodemova<sup>5</sup>, N. Ruiz Lopez<sup>6</sup>, M. Sans Merce<sup>6</sup>, L.

  Stuelens<sup>4</sup>, F. Vanhavere<sup>4</sup>; <sup>1</sup>Agia Paraskevi/GR, <sup>2</sup>Lodz/PL, <sup>3</sup>Fontenay Aux Roses/FR, <sup>4</sup>Mol/BE, <sup>5</sup>Bratislava/SK, <sup>6</sup>Lausanne/CH



#### **Educational Posters**

P-426	Real-time personal dose feedback as a radiation safety teaching tool
	M.C.M. Grimbergen, C.F.P. van Swol, S.J. Braak, M.J. van Strijen: Nieuwegein/NL

P-427 Improving interventional practice with real time information on staff radiation doses <u>E. Vano</u>, J.M. Fernandez, R.M. Sanchez, J. Gallego, J. Mendez, A. Hernandez-Lezana; Madrid/ES

#### Renal and visceral artery intervention

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- P-428 Multimodal approach in the percutaneous treatment of visceral aneurysms: a single center experience G. Carrafiello, G. Xhepa, F.A. Vizzari, M. De Chiara, G. De Venuto, M. Mangini, F. Fontana, C. Fugazzola; Varese/IT
- P-429 Stent collapse after uncovered abdominal aortic stenting in sub-/acute complicated Stanford type B dissection A. Massmann, M. Katoh, D. Tscholl, R. Seidel, P. Fries, G. Schneider, H.-J. Schaefers, A. Buecker; Homburg/DE
- P-430 Percutaneous ablation of renal cell carcinoma in patients with solitary kidney

  <u>R.F. Grasso</u>, E. Faiella, G. Luppi, F. Giurazza, R. Del Vescovo, R.L. Cazzato, B. Beomonte Zobel; Rome/IT
- P-431 Uncontrolled hypertension and acute left ventricular failure caused by non-specific aortoarteritis: outcomes of endovascular treatment in the acute setting

  <u>P. Jaqia</u>, S. Sharma, G. Gulati, S. Ramakrishnan, R. Juneja, S. Kothari, A. Saxena; Delhi/IN
- P-432 Inferior pancreaticoduodenal artery aneurysms associated with occlusive lesions of the celiac axis: a distinct clinical syndrome diagnosis, treatment options, outcomes and review of the literature

  <u>K. Flood</u>, A.A. Nicholson; Leeds/UK
- P-433 Quantifying increased hepatic arterial flow with test balloon-occlusion of the splenic artery in liver transplant recipients with splenic steal syndrome: quantitative digital subtracted angiography correlation with arterial Doppler parameters

  W. Saad¹, C.L. Anderson¹, A.J. Lippert¹, S. Kumer¹, M. Kowarschik², T. Schmitt¹, U.C. Turba¹, S. Sabri¹, A.W. Park¹, J. Stone¹,
- P-434 Role of Ardian Symplicity system in renal denervation in the treatment of arterial hypertension resistant to conventional therapy

  G. Simonetti, A. Spinelli, R. Gandini, V. Da Ros, E. Gaspari, I. Coco, N. Di Daniele, M. De Francesco, R. Lauro; Rome/IT
- P-435 Treatment of in-stent atheromatous renal artery restenosis in 51 patients

  A.N. Diop, L. Cassagnes, V. Vo Hoang, A.T. Alfidja, E. Dumousset, A. Ravel, P. Chabrot, L. Boyer; Clermont-Ferrand/FR
- P-436 Endovascular treatment of wide-necked saccular renal artery aneurysms: embolization efficacy of IDC-18 and GDC-18 360° coils with balloon remodeling technique <u>T. Yamada</u>, A. Yamashita, A. Harada; Tokyo/JP

#### **Educational Posters**

- P-437 Tips and tricks of transcatheter coil embolization of visceral arterial aneurysms with case presentations of various lesions
  - M. Hirata<sup>1</sup>, H. Tanaka<sup>2</sup>, R. Watanabe<sup>1</sup>, T. Tsuda<sup>2</sup>, T. Mochizuki<sup>2</sup>; <sup>1</sup>Ehime/JP, <sup>2</sup>Toon Ehime/JP
- P-438 Interventional treatment of visceral artery aneurysms
  <u>O.T. Preza</u>, E.D. Avgerinos, C.D. Liapis, N.L. Kelekis, E. Brountzos; Athens/GR

A.H. Matsumoto<sup>1</sup>, J.F. Angle<sup>1</sup>; <sup>1</sup>Charlottesville, VA/US, <sup>2</sup>Forchheim/DE

P-439 Interventional radiology in splenic trauma

A.C. Durran, A. Galea, H. White, J. Hancock, A. Edwards; Truro/UK

#### **Case Reports**

P-440 Segmental arterial mediolysis of superior mesenteric artery: endovascular treatment and 6-month follow-up with cardiatis multilayer stent

F. Petrocelli, U.G. Rossi, M. Dahmane, L. Patrone, G. Gola, C. Ferro; Genoa/IT

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P-442	SILK flow diverter in the treatment of a fusiform splenic artery aneurysm  K. Efinger, B. Danz; Ulm/DE
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P-444	Endovascular treatment of a wide neck common hepatic artery aneurysm with new cardiatis multilayer stent N. Burdi <sup>1</sup> , F. Resta <sup>2</sup> , D. Monaco <sup>1</sup> , M.C. Resta <sup>1</sup> , M. Donatelli <sup>1</sup> , M. Resta <sup>1</sup> ; <sup>1</sup> Taranto/IT, <sup>2</sup> Bari/IT
P-445	Covered stent treatment of life threatening pulmonary artery pseudoaneurysm <u>F. Gabbrielli</u> , M. Krokidis, P. Gkoutzios, T. Sabharwal, A. Adam; London/UK
P-446	Collateral route coil embolization of a gastro-duodenal artery aneurysm  A. Ranalli, <u>L. Buttarelli</u> , F. Franco, S. Poggesi, E. Epifani, P. Larini, C. Rossi; Parma/IT
P-447	Successful embolization of the bleeding iatrogenic renal pseudoaneurysm in a patient with severe iodine allergy using CO2 and a minimal amount of Omniscan as a contrast material Z. Chudacek, M. Hora; Plzen/CZ
P-448	Current management of extrahepatic arterioportal fistulas: report of a case treated with a stent graft <u>C. Cinar</u> <sup>1</sup> , H. Bozkaya <sup>1</sup> , F.H. Besir <sup>2</sup> , I. Oran <sup>1</sup> ; <sup>1</sup> Izmir/TR, <sup>2</sup> Duzce/TR
P-449	A rare cause of obstructive jaundice: endovascular management of superior mesenteric artery (SMA) pseudoaneurysm <u>C. Cinar</u> , H. Bozkaya, I. Oran; Izmir/TR
P-450	Endovascular treatment of ruptured celiac trunk aneurysm  R.B. Soares, A.A. Pereira, M.F. Rossi, M.A. Grüdtner, A.H. Pereira, L.F.M. Costa; Porto Alegre/BR
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P-452	New catheterization method for iatrogenic superior mesenteric artery dissection <u>T. Saguchi</u> ; Tokyo/JP
P-453	The role of transarterial embolization in the management of kidney hypervascular lesions: is it an addition or an alternative to surgery? <u>C. Arena</u> , E. Bozzi, F. Turini, A. Cicorelli, R. Cioni, C. Bartolozzi; Pisa/IT
P-454	Acute ischemic renal failure: percutaneous management  E. Paci, <u>S. Alborino</u> , C. Mincarelli, M. Fichetti, E. Antico; Ancona/IT
P-455	"Have you ever seen?" Acalculous cholecystitis resolving post-mesenteric revascularisation <u>A. Galea</u> <sup>1</sup> , M. Macanovic <sup>1</sup> , A.C. Durran <sup>1</sup> , H. White <sup>2</sup> , A. Edwards <sup>2</sup> , J. Hancock <sup>2</sup> ; <sup>1</sup> Plymouth/UK, <sup>2</sup> Truro/UK
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P-457	Quantitative analysis of digitally subtracted portography before and after portal vein embolization: a feasibility study for predicting subsequent left hepatic hypertrophy <u>C.L. Anderson</u> <sup>1</sup> , W. Saad <sup>1</sup> , G.T. Frey <sup>1</sup> , M. Kowarschik <sup>2</sup> , U.C. Turba <sup>1</sup> , S. Sabri <sup>1</sup> , A.H. Matsumoto <sup>1</sup> , J.F. Angle <sup>1</sup> , W. Evatt <sup>1</sup> ; <sup>1</sup> Charlottesville, VA/US, <sup>2</sup> Forchheim/DE

P-458	Interventional management of patients with symptomatic portal hypertension secondary to obstruction of splanchnic veins <u>W. Cwikiel</u> <sup>1</sup> , I. Keussen <sup>2</sup> , A. Semiz-Oysu <sup>3</sup> ; <sup>1</sup> Ann Arbor, MI/US, <sup>2</sup> Lund/SE, <sup>3</sup> Istanbul/TR
P-459	Percutaneous portal vein embolisation for extended hepatic resection: volume gain and achievement of operability in 85 patients
	<u>A. Koops</u> <sup>1</sup> , E. Ramcic <sup>1</sup> , C. Habermann <sup>1</sup> , G. Krupski <sup>2</sup> , G. Adam <sup>1</sup> ; <sup>1</sup> Hamburg/DE, <sup>2</sup> Reinbek/DE
P-460	Nine years' experience in transhepatic angioplasty of portal vein stenosis after liver transplantation in children <u>A.T. Machado</u> , F.C. Carnevale, A.M. Moreira, A.C.B. dos Santos, J.M. Motta-Leal-Filho, G.G. Cerri, U. Tannuri; Sao Paulo/BR
P-461	Percutaneous revascularization of occluded Meso-Rex-Shunts in two cases K. Brechtel, S. Warmann; Tuebingen/DE
P-462	Balloon-occluded retrograde transvenous obliteration (BRTO) of gastric varices in three patients with portal vein thrombosis  L. Kim, S.K. Kim, N. Mani; St Louis, MO/US
P-463	Interventional radiological procedures (IR) in orthotopic liver transplantation (OLT)  A. Polikarpov, P. Tarazov, D. Granov; St. Petersburg/RU
P-464	Comparison of coil embolization and sclerotherapy of collateral veins during balloon occluded retrograde transvenous obliteration: its long-term effect for gastric varix <u>E.J. An</u> <sup>1</sup> , Y.H. Kim <sup>1</sup> , S.H. Kim <sup>1</sup> , I.H. Bae <sup>2</sup> ; <sup>1</sup> Daegu/KR, <sup>2</sup> Chungbuk/KR
P-465	Intrahepatic portosystemic shunts by innovative transhepatic approach MA. Li, <u>Z. Jiang</u> , H. Shan, J. Qian, M. Huang, B. Zhou, K. Zhu, S. Shao; Guangzhou/CN
P-466	Transjugular intrahepatic portosystemic shunt in portomesenteric thrombosis  M. González Leyte, M. Echenagusia Boyra, G. Rodriguez-Rosales, L. Salazar García, F. Camuñez Alonso, A. Echenagusia  Belda; Madrid/ES
P-467	Transjugular intrahepatic portosystemic shunts in liver transplant recipients <u>G. Rodriguez-Rosales</u> , M. Echenagusia Boyra, M. González Leyte, B. Garcia-Granda, F. Camuñez Alonso, A. Echenagusia Belda; Madrid/ES
P-468	Comparison of percutaneous portal vein embolization, portal vein ligation and portal vein occlusion combined with ipsilateral hepatic artery cannula implantation prior to major liver resection <a href="L. Dudás">L. Dudás</a> , O. Hahn, P. Pajor, A. Zsirka-Klein, T. Winternitz, P. Kupcsulik; Budapest/HU
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P-470	Techniques for endovascular shunt reduction in the management of TIPS-induced hepatic encephalopathy <u>J.M. Howard</u> , O. Ezwawah, M. Guiney, M. Ryan, N. McEniff; Dublin/IE
P-471	Trans-TIPS transvenous antegrade obliteration of duodenal varices after failed transjugular intrahepatic portosystemic shunt (TIPS) decompression: technique and a word of caution <u>A.J. Lippert</u> , W. Saad, C.L. Anderson, S. Sabri, S. Kumer, U.C. Turba, A.W. Park, J. Stone, A.H. Matsumoto, J.F. Angle; Charlottesville, VA/US
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P-472	First reported discovery of liver necrosis caused by a successful balloon-occluded retrograde transvenous obliteration (BRTO) for gastric varices

T. Sonomura<sup>1</sup>, W. Ono<sup>2</sup>, M. Sato<sup>1</sup>, N. Kawai<sup>1</sup>, H. Minamiguchi<sup>1</sup>, M. Nakai<sup>1</sup>, A. Ikoma<sup>1</sup>, K. Kishi<sup>1</sup>; <sup>1</sup>Wakayama/JP,

<sup>2</sup>Kishiwada/JP

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P-474	Transcatheter coil embolization of a congenital portosystemic hepatic vein shunt before percutaneous transhepatic portal vein embolization <a href="Y. Nakasone">Y. Nakasone</a> , O. Ikeda, T. Masuda, T. Beppu, H. Baba; Kumamoto/JP
P-475	Successful treatment with duodenal varices using combined sclerotheraphy using percutaneous transhepatic obliteration (PTO) and balloon-occluded retrograde transvenous obliteration (B-RTO) <u>Y. Nakashima</u> , M. Okada, N. Matsunaga, T. Tamesa, T. Yamasaki; Ube/JP
P-476	Recurrent encephalopathy ameliorated by lienorenal shunt reduction <u>D. Jain</u> <sup>1</sup> , S. Baijal <sup>2</sup> , S. Bhatnagar <sup>1</sup> ; <sup>1</sup> New Delhi/IN, <sup>2</sup> Gurgaon/IN
P-477	Acute extensive portal, superior mesenteric and lineal venous thrombosis treated with transcatheter superior mesenteric artery urokinase infusion therapy <u>S. Vannucci</u> , O. Perrone, E. Bozzi, A. Cicorelli, R. Cioni, C. Bartolozzi; Pisa/IT
P-478	Gastric varix draining into portopulmonary venous anastomosis: treatment with percutaneous transhepatic sclerotherapy <u>N. Nishida</u> , H. Matsui, S. Hamamoto, A. Jogo, A. Yamamoto, K. Nakamura, Y. Miki; Osaka/JP
P-479	Transjugular intrahepatic portosystemic shunt (TIPS) in patients with refractory variceal bleeding and portal vein thrombosis. A case report <u>A. Canì</u> <sup>1</sup> , A. Rampoldi <sup>2</sup> , F. Piacentino <sup>1</sup> , C. Pellegrino <sup>1</sup> , F. Fontana <sup>1</sup> , G. Carrafiello <sup>1</sup> , C. Fugazzola <sup>1</sup> ; <sup>1</sup> Varese/IT, <sup>2</sup> Milan/IT
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P-483	latrogenic ureteric injuries: imaging features and role of interventional radiology in management <u>J. Lay;</u> Bolton/UK
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J.W. Kim; Sungnam/KR

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P-489	Clinical safety and effectiveness of "option" inferior vena cava filter <u>K. Yeddula</u> , S.M. Brannan, S. Ganguli, G.M. Salazar, B. Somarouthu, R. Oklu, T.G. Walker, A.C. Waltman, <u>S.P. Kalva</u> , S. Wicky;  Boston, MA/US
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P-494	Influence of pressure changes produced by respiratory movements and Valsalva's maneuver in inferior vena cava diameter in patients with IVC filter. Prospective study in 20 patients A. Laborda, M.A. Martinez Barca, E. Peña, P. Alcubierre, R. Fernandez, C. Serrano, J. Aramayona, I. De Blas, M.A. de Gregorio; Zaragoza/ES
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P-498	Management of pelvic varicosities with ultrasound-guided foam sclerotherapy without antegrade embolization S. Yilmaz, K. Ceken, E. Alimoglu, T. Sindel; Antalya/TR
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P-501	Long-term results of percutaneous transluminal angioplasty for anastomotic stenosis of hepatic vein after living donor liver transplantation  M. Yabuta, T. Shibata, T. Shibata, H. Isoda, K. Togashi; Kyoto/JP
P-502	IVC filter retrieval: closing the loop <u>N. Hamour</u> , S. Alzaabi, R.J. Owen; Edmonton, AB/CA
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P-507	Adrenal venous sampling: tips for technical success <u>S. Kubo</u> <sup>1</sup> , M. Ishii <sup>2</sup> , E. Aoki <sup>2</sup> ; <sup>1</sup> Kyoto/JP, <sup>2</sup> Otsu/JP
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P-511	Endovenous laser ablation and foam sclerotheraphy of incompetent perforating veins of thigh: a prospective short-term analysis of 17 cases with chronic venous insufficiency <u>E. Aksungur</u> , K. Aikimbaev; Adana/TR
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P-513	New frontiers in the endovascular management of iliofemoral deep vein thrombosis <i>C.M. Patel, <u>A.D.S. Shawyer</u>, D.G. Ranatunga, C. Papadopoulos, I. Renfrew, N.I. Fotiadis; London/UK</i>
P-514	Congenital anomalies of the IVC and their relevance to interventional radiology <u>M. Malaki</u> ; Birmingham/UK
P-515	Spectrum of congenital and acquired abnormalities of the inferior vena cava: what an interventional radiologist should know <u>G. Ananthakrishnan</u> <sup>1</sup> , R. White <sup>2</sup> , T. Sudarshan <sup>2</sup> , R. Kasthuri <sup>1</sup> ; <sup>1</sup> Glasgow/UK, <sup>2</sup> Dundee/UK
	Case Reports
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P-517	Gastric varices embolization via left inferior phrenic vein and adrenal vein <u>Y. Kodama</u> , Y. Sakurai, T. Fukuda, S. Tatsumoto, T. Kin, H. Shida, T. Matsui, JH. Kang, K. Tsuji, H. Maguchi; Sapporo/JP
P-518	Transvenous removal of intracaval cement deposition after vertebroplasty <u>K. Efinger</u> , B. Danz; Ulm/DE
P-519	Endovascular closure of a mesenterico-caval venous bypass using an amplatzer vascular plug <u>T. Rohou</u> , E. Quehen, K. Boudjema; Rennes/FR
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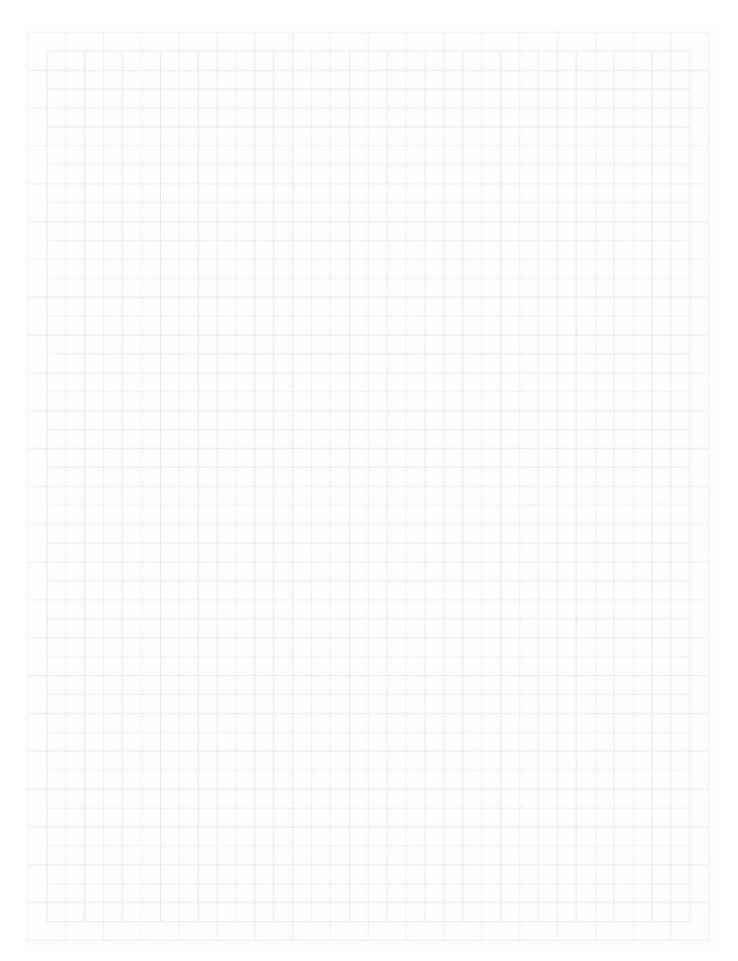
<u>C. Cinar</u>, H. Bozkaya, I. Oran; Izmir/TR

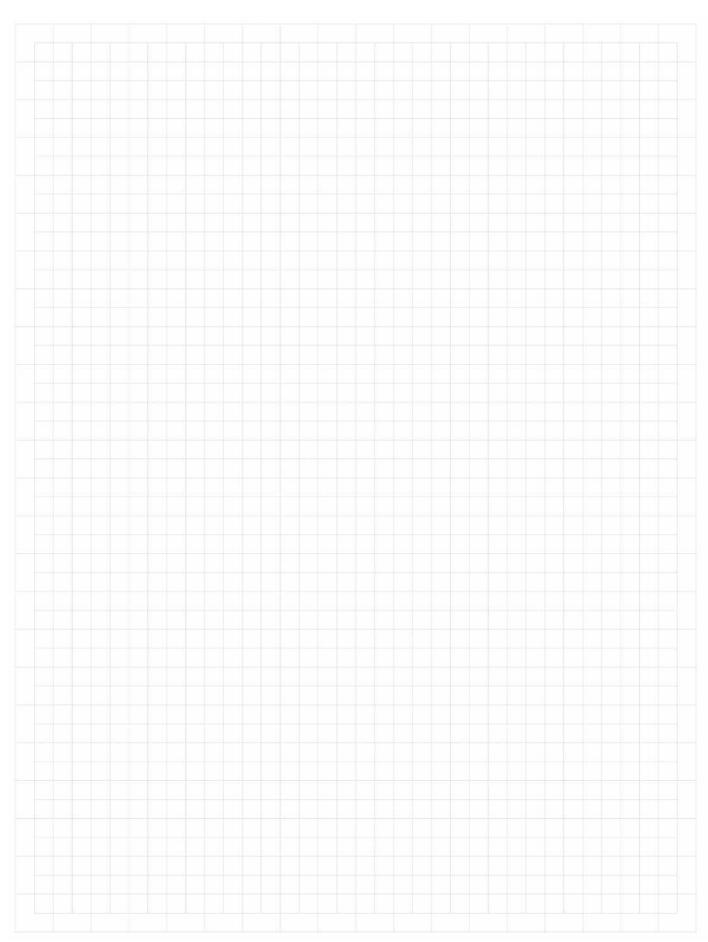
P-521	Recurrent right extremity venous thrombosis after insertion of stent in the common iliac vein of the left lower extremity <u>B.S. Roh;</u> Iksan/KR
P-522	Have you ever seen that dilatation of preexisting venous collateral pathways as a possible treatment option in patients with Budd–Chiari syndrome XW. Han, WG. Zhang, PX. Ding, G. Wu, JZ. Ren, Z. Li, J. Ma; Zhengzhou/CN
P-523	Congenital aneurysmal dilatation of intrahepatic inferior vena cava treated by percutaneous balloon angioplasty <u>J.H. Kim</u> , S.S. Byun; Incheon/KR
P-524	Bilemia: an unusual complication after transjugular liver biopsy <u>I. Díez Miranda</u> , M. Pérez Lafuente, A. González Fernández, A. Gelabert-Barragán, A. Romero, A. Segarra; Barcelona/ES
P-525	Stenting across right atrium for treatment of thrombosis in superior and inferior vena cava in a patient of liver cancer after right hepatectomy <i>Z. Jiang, S. Shao, <u>H. Shan, MA. Li</u>; Guangzhou/CN</i>
P-526	Pericardial perforation during central venous catheter placement. Optimal treatment? <u>P. Kisza</u> , J. Sambol; Newark, NJ/US
P-527	Challenging cava duplication during IVC filter placement J.F.C. Vasconcelos, V. Martins, D. Brandão, J. Ferreira, S. Braga, R. Gouveia, G. Vaz; Vila Nova De Gaia/PT
P-528	Ultrasonographic-guided balloon dilation of the vena hepatica after pediatric liver transplantation <u>W. Uller</u> , S. Schleder, H. Gößmann, B. Knoppke, C. Stroszczynski, E.M. Jung; Regensburg/DE
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P-530 P-531	Scientific Posters  Sonographic-guided percutaneous liver biopsies in children
	Scientific Posters  Sonographic-guided percutaneous liver biopsies in children  P. Govender, M. Jonas, A.I. Alomari, H.M. Padua, B. Dillon, G. Chaudry; Boston, MA/US  C-arm cone-beam CT combined with a new electromagnetic navigation system for the guidance of percutaneous needle biopsies: initial clinical experiences
P-531	Scientific Posters  Sonographic-guided percutaneous liver biopsies in children  P. Govender, M. Jonas, A.I. Alomari, H.M. Padua, B. Dillon, G. Chaudry; Boston, MA/US  C-arm cone-beam CT combined with a new electromagnetic navigation system for the guidance of percutaneous needle biopsies: initial clinical experiences  R. Kickuth, J.P. Goltz, C. Reichling, W. Kenn, D. Hahn, C.O. Ritter; Wuerzburg/DE  Glubran 2 Seal: an experimental arterial closure device in endovascular interventional radiological procedures
P-531 P-532	Scientific Posters  Sonographic-guided percutaneous liver biopsies in children  P. Govender, M. Jonas, A.I. Alomari, H.M. Padua, B. Dillon, G. Chaudry; Boston, MA/US  C-arm cone-beam CT combined with a new electromagnetic navigation system for the guidance of percutaneous needle biopsies: initial clinical experiences  R. Kickuth, J.P. Goltz, C. Reichling, W. Kenn, D. Hahn, C.O. Ritter; Wuerzburg/DE  Glubran 2 Seal: an experimental arterial closure device in endovascular interventional radiological procedures  S. Vannucci, O. Perrone, A. Del Corso, I. Bargellini, F. Turini, A. Cicorelli, R. Cioni; Pisa/IT  Implementing a modified World Health Organisation surgical safety checklist for interventional radiology procedures
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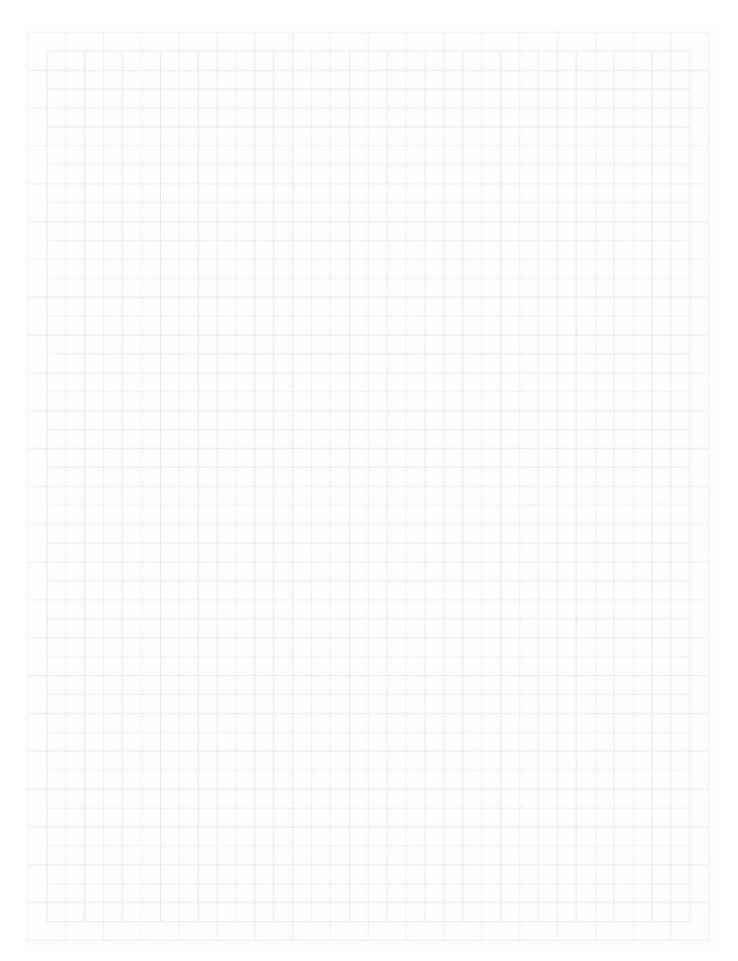
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	Y. Sakuhara, D. Abo, Y. Hasegawa, T. Shimizu, H. Shirato, S. Terae; Sapporo/JP
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P-540	Treatment of symptomatic simple cysts or seromas by percutaneous hypertonic NaCl and bleomycin sclerotherapy <u>V.D. Souftas</u> , E. Vranou, A. Chatzistefanou, A. Iordanidis, S. Grigoriadou, P. Prassopoulos; Alexandroupolis/GR
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P-541	Vascular anatomy of the parathyroid gland and its relevance to interventional radiology <u>C. Kaufman</u> <sup>1</sup> , C.E. Ray, Jr. <sup>2</sup> , D. Kumpe <sup>2</sup> , F.S. Keller <sup>3</sup> ; <sup>1</sup> Boston, MA/US, <sup>2</sup> Aurora, CO/US, <sup>3</sup> Portland, OR/US
P-542	Liver abscess: the role of interventional radiology <u>C.E. Ray</u> , Jr. <sup>1</sup> , J. Oppenheimer <sup>2</sup> , R. Gupta <sup>1</sup> , P. Rochon <sup>1</sup> , K. Kondo <sup>1</sup> , J. Durham <sup>1</sup> ; <sup>1</sup> Golden, CO/US, <sup>2</sup> Palo Alto, CA/US
P-543	Treatment of orbital venous and lymphatic malformations with percutaneous sclerotherapy <u>G.K. Chiramel</u> , S.N. Keshava, V. Moses, S. David, S. Sen; Vellore/IN
	Case Reports
P-544	Creation by interventional radiology of a tracheo-oesophageal fistula for phonation after loss of the primary post-operative fistula <a href="#">A.G. Ryan</a> , M. Pienaar, M. Sadadcharam, M. Donnelly; Waterford City/IE
P-545	CT-guided drainage of interlobular fissure empyema <u>A. Maratsos</u> , N. Economopoulos, G. Stathis, S. Argentos, C. Kontopoulou, E. Alexopoulou; Athens/GR
P-546	Endovascular removal of an embolised patent ductus arteriosus amplatzer occluding device in a 42-year-old woman <u>C. Cinar;</u> Izmir/TR
P-547	Sclerotherapy using Trombojet for balloon-occluded retrograde transvenous obliteration (BRTO): a case report <u>C.H. Kang</u> , J.R. Juhn; Busan Si/KR
P-548	Treatment of liver hydatid cyst complicated with biliary-cutaneous fistula

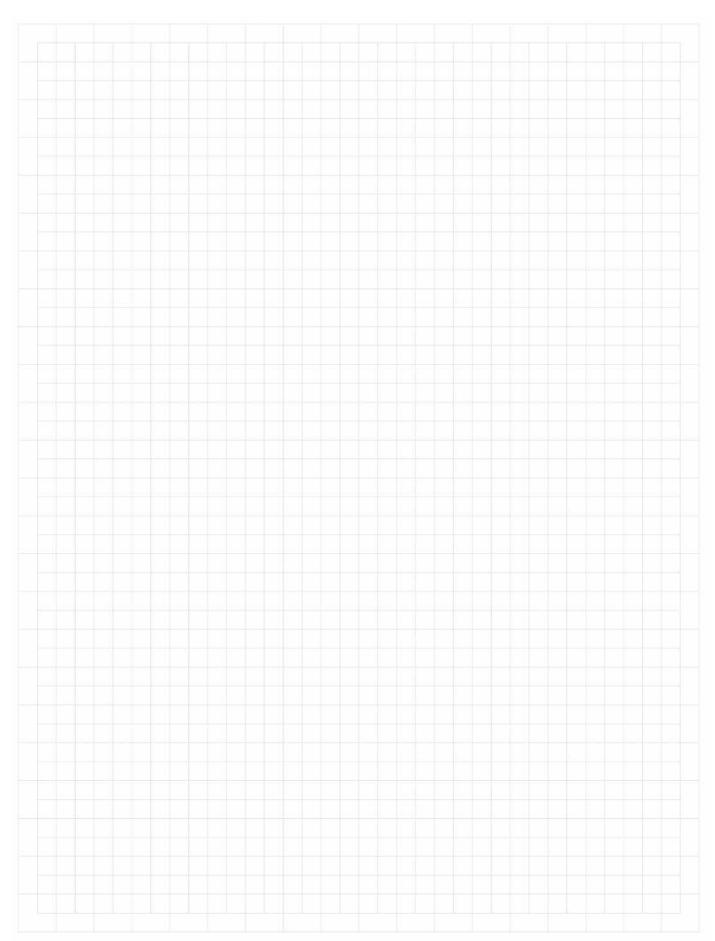






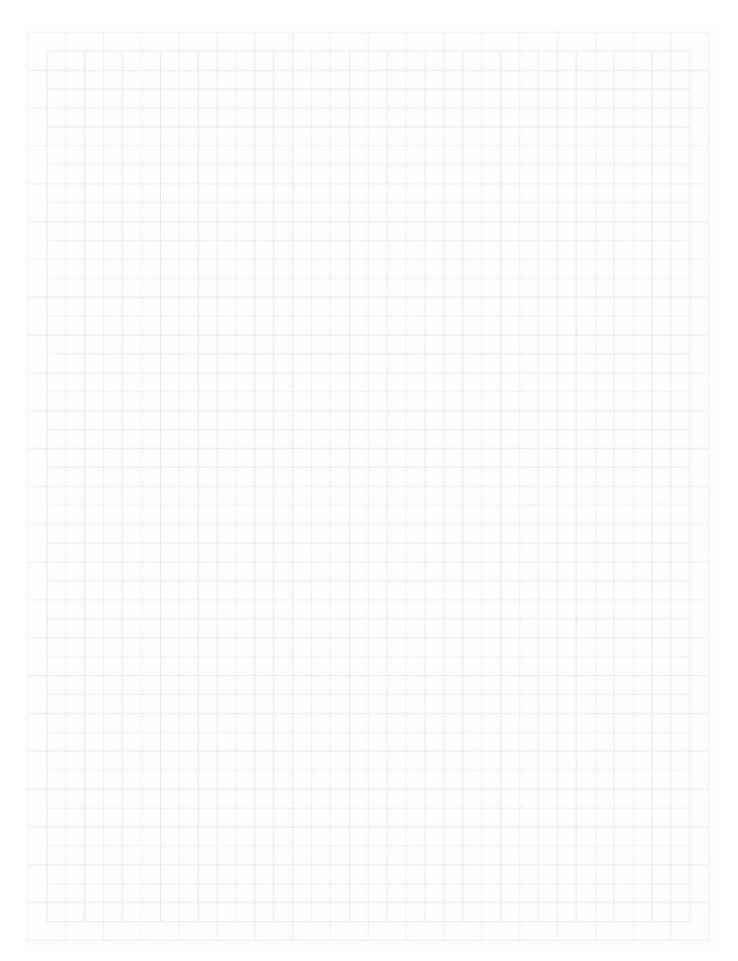


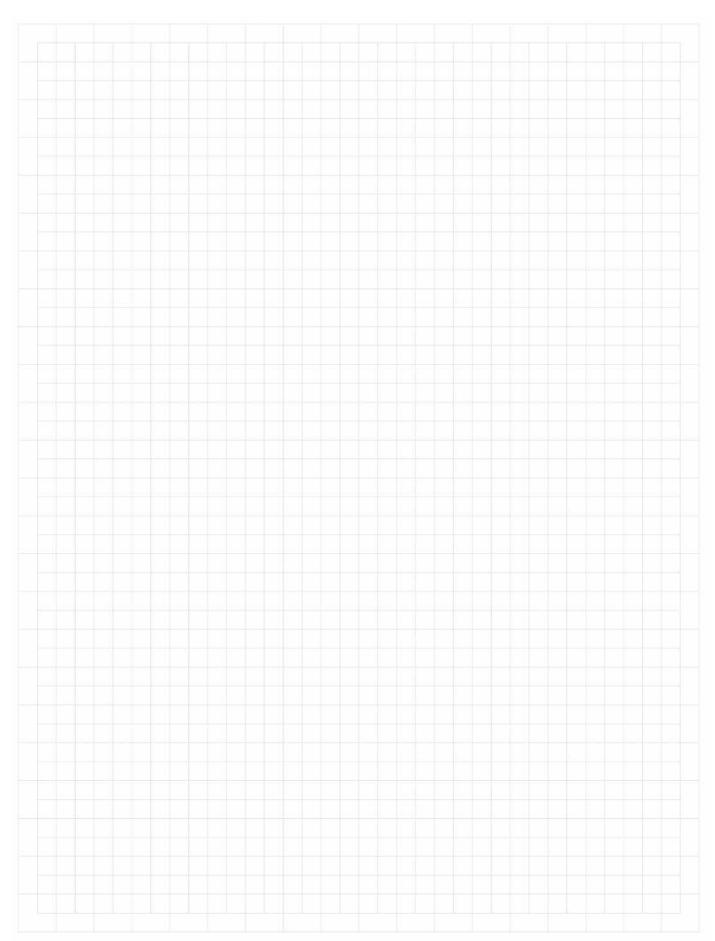






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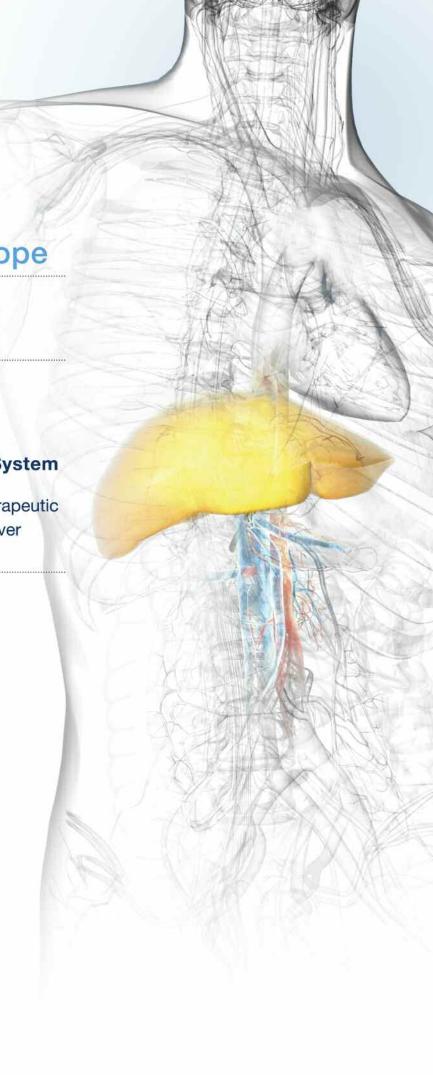
University of Pittsburgh Medical Center Phase III Clinical Trial Results

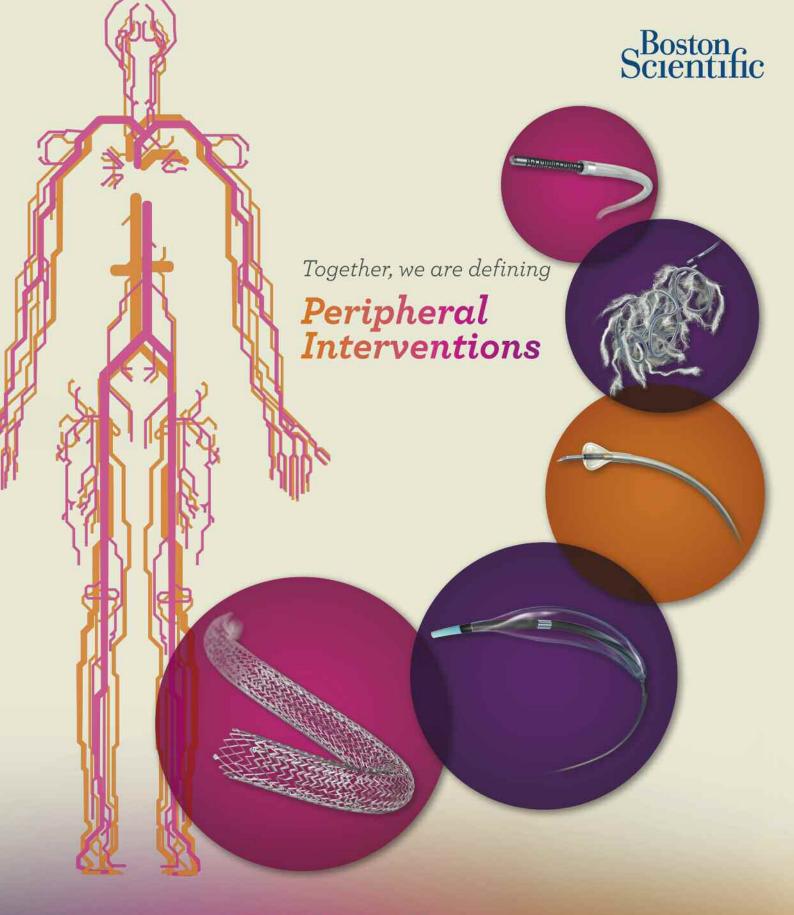
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