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# General Information & Sponsored Pages

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Welcome Address</td>
</tr>
<tr>
<td>5</td>
<td>Excellence in Interventional Radiology</td>
</tr>
<tr>
<td>6</td>
<td>Dignitaries</td>
</tr>
<tr>
<td>12</td>
<td>The Award of Excellence and Innovation in IR</td>
</tr>
<tr>
<td>15</td>
<td>CIRSE Committees</td>
</tr>
<tr>
<td>16</td>
<td>CIRSE 2014 Faculty</td>
</tr>
<tr>
<td>21</td>
<td>General Information</td>
</tr>
<tr>
<td>23</td>
<td>BTG Charity Run and Football Cup</td>
</tr>
<tr>
<td>25</td>
<td>Technical Exhibition</td>
</tr>
<tr>
<td>26</td>
<td>Satellite Symposia</td>
</tr>
<tr>
<td>36</td>
<td>Learning Centres</td>
</tr>
</tbody>
</table>

# Scientific & Educational Programme *

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>CIRSE Main Themes</td>
</tr>
<tr>
<td>44</td>
<td>CIRSE Session Types</td>
</tr>
<tr>
<td>45</td>
<td>CIRSE Opening and Awards Ceremony</td>
</tr>
<tr>
<td>46</td>
<td>In the Spotlight – Fundamental Courses</td>
</tr>
<tr>
<td>48</td>
<td>In the Spotlight – Hot Topic Symposia</td>
</tr>
<tr>
<td>52</td>
<td>In the Spotlight – Evidence Fora</td>
</tr>
<tr>
<td>54</td>
<td>In the Spotlight – Controversies in IR</td>
</tr>
<tr>
<td>57</td>
<td>CIRSE meets…</td>
</tr>
<tr>
<td>58</td>
<td>Hands-on Workshops</td>
</tr>
<tr>
<td>67</td>
<td>Radiographer Programme</td>
</tr>
<tr>
<td>68</td>
<td>Workshops</td>
</tr>
<tr>
<td>74</td>
<td>CIRSE Scientific Programme Overview</td>
</tr>
<tr>
<td>78</td>
<td>CIRSE Scientific Programme</td>
</tr>
<tr>
<td>118</td>
<td>Posters</td>
</tr>
<tr>
<td>143</td>
<td>Abstracts &amp; Author Index</td>
</tr>
</tbody>
</table>

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Dear Colleagues,

A growing number of medical conditions can now be treated with minimally invasive, image-guided procedures. This is clearly reflected in the CIRSE Annual Congress, and great care is taken to ensure that our programme permits generalists, specialists and sub-specialists alike to stay on top of those latest breakthroughs in the field that are most relevant to their work.

For several years, our programme has been split into six tracks that each focus on core themes in IR. Delegates have reported that this structure allows them to easily create their own tailor-made schedule and focus on the topics that are of most interest to them.

This year, the Scientific Programme Committee has further improved this structure by carefully refining the time schedule. Sessions will now run parallel, making it easier for delegates to seamlessly follow our clinical tracks, and so ensuring that they get the most from the congress.

The Vascular Track will once again be a major focus of the congress, encompassing a wide range of pathologies. More than 50 hours of vascular education will be offered, including 15 Special Sessions, 12 Workshops, 4 Fundamental Courses and more than 10 Hands-on Workshops. Evidence Fora will examine the latest clinical data on endovascular aneurysm repair, while Controversies in SFA treatment and Controversies in BTK treatment will see the most contentious issues openly debated by renowned vascular experts. Coupled with an Interactive Case Session entitled Challenging venous interventions and a Hot Topic Symposium (Treatment of DVT and PE: paradigm shift?), the Vascular Track offers ample learning opportunities for novice and expert alike.
Interventional oncology and transcatheter embolisation are two further areas in which IRs have become more active in recent years. This year, the interventional oncology track will explore many new clinical applications, such as neuroendocrine tumours, and will offer a range of case-based Workshops and Hands-on Workshops, covering the basic skills needed to treat liver, kidney or bone tumours. Embolotherapy, meanwhile, will be comprehensively discussed in a number of key sessions and workshops, including the Controversies in transcatheter embolisation debate and the Interactive Case Session on iatrogenic bleeding.

These three tracks will be complemented by separate tracks dedicated to Neurointerventions, Non-Vascular Interventions and IR Management, and more information about these can be found inside.

It has been many years since CIRSE was last in the UK, and we are delighted to be returning there for the launch of our 30-year anniversary celebrations. Glasgow has a stellar reputation as a conference city, and offers an ideal venue for our ever-growing congress. The city is easy to reach thanks to its three local airports, and the Scottish Exhibition and Conference Centre is a mere three metro stops from Glasgow’s bustling city centre, which offers congress-goers much to see and do in the evenings.

We look forward to welcoming you all to Glasgow for the 29th Annual CIRSE Congress!
SEE MORE.
REACH FURTHER.
TREAT SMARTER.

In Interventional Medicine we're making giant leaps with smaller, increasingly less invasive steps. Today we can pinpoint the problems inside us and journey within blood vessels to deliver ingenious treatments exactly where they're needed most. And as we move from major surgery to minor procedure, BTG's growing family of innovative pioneers has set the standards for others to follow, but we're not stopping there. With relentless curiosity we'll work with clinicians to find elegant new ways to extend our power over disease.

Imagine where we can go.

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Excellence in Interventional Radiology

CIRSE Gold Medallists

2014  J.H. Peregrin
2013  J.J. Bilbao
2012  P.R. Mueller
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.J. Struyven
2003  C.L. Zollkofer
2002  J.H. Göthlin, J.-J. Merland, E.P. Zeitler
2001  E. Boijsen, F. Olbert, F. Pinet
2000  P. Rossi
1999  A.M. Lunderquist
1998  D.J. Allison
1997  R.W. Günther

CIRSE Distinguished Fellows

2014  M.D. Dake, J.G. Moss, D. Siablis
2013  J.B. Spies, B.S. Tan, P.R. Taylor
2011  J.A. Kaufman, L. Machan, A.F. Watkinson
2010  O. Akhan, W.P.T.M. Mali
2009  A.A. Nicholson, A.C. Roberts
2008  K. Mathias, H.P. Rousseau
2007  K.H. Barth, D.A. Keleikis
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  C. L’Herminé, J.-M. Rius, M.R. Dean
2001  J.-M. Bigot, J. Edgren
2000  J.-C. Gaux, L. Horváth
1999  U. Tylén
1998  A.R. Essinger
1997  J.H. Göthlin, J.L. Struyven
1996  M.J. Amiel, P. Rossi
1995  U. Erikson
1994  D.J. Allison
1993  E.P. Zeitler
1992  I.P. Enge, A.M. Lunderquist, F. Olbert
1991  A. Pinet, F. Pinet
1990  A. Baert, L. Di Guglielmo, G. Van Andel

Gruentzig Lecture

2014  P.L. Pereira
2013  A. Holden
2012  A. Gangi
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  E.P.K. Strecker
2003  K.R. Thomson
2002  P.A. Gaines
2001  B.T. Katzen
2000  J.L. Struyven
1999  S. Wallace
1998  R.W. Günther
1997  P. Rossi
1996  J. Rösch
1995  D.J. Allison
1994  E.P. Zeitler

Roesch Lecture

2014  F.C. Carnevale
2013  M. Bezzi
2012  D. Pavčnik
2011  M. Szczerbo-Trojanowska
2010  J.J. 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

Award of Excellence and Innovation in IR

2014  M.G.E.H. Lam, J.F.W. Nijsen, M.A.A.J. van den Bosch
2013  S. Lerouge, G. Soulez
2012  A. Bolia, J.A. Reekers
Jan Peregrin was born on February 3, 1951, in Hradec Králové in what was then Czechoslovakia, to parents who were both physicians. He attended primary school, grammar school and finally, the Medical Faculty of Charles University, graduating in 1975. Immediately after graduation, he started working at the Department of Radiology of the Prague-based Institute for Clinical and Experimental Medicine (IKEM), where he has been employed – with some minor interruptions – ever since.

As a young physician, he pursued a career in diagnostic radiology and passed the Board Examination I in 1978. Very soon, he developed a keen interest in cardiovascular and interventional radiology, which was then just a newly emerging subspecialty. He began to perform not only diagnostic angiography and peripheral balloon angioplasty, but was also involved in coronary angiography and angioplasty. At that time, he trained several Czech interventional cardiologists who later became prominent experts in the field, but he eventually decided to quit cardiology to fully concentrate on both vascular and non-vascular interventional radiological procedures. He passed the Board Examination II in radiology in 1981.

From 1984-1987, he spent three years in Kuwait as Assistant Professor at the newly opened Medical Faculty at the University of Kuwait. He was among the first doctors to perform peripheral angioplasty in Kuwait. The local living conditions and diseases differed greatly from those commonly encountered in Europe, and gave him an excellent opportunity to perform numerous nephrostomies and to percutaneously remove many kidney stones.

Back in Prague, he became Deputy Head in the newly created Department of Diagnostic and Interventional Radiology of IKEM, followed by his subsequent appointment as the Department’s Head. From 1993-2009, he served as an external lecturer at the Faculties of Medicine of Charles University in Prague and in Hradec Králové. In 1998 he was appointed Assistant Professor and in 2008, full Professor of Charles University in Prague.

In Prague, Prof. Peregrin was closely involved in the postgraduate education of interventional radiologists, and was instrumental in organising the eight Prague International Workshops on Interventional Radiology, in collaboration with the Dotter Institute between 1994 and 2002. Largely thanks to his relentless efforts, interventional radiology became a recognised subspecialty of radiology in the Czech Republic with a board examination, and Prof. Peregrin currently serves as its Chief Examiner.

Jan Peregrin is the author and co-author of more than 200 scientific and educational papers and book chapters, as well as the author of numerous papers at scientific and educational congresses.

He has been a CIRSE Member since 1985, and has held several positions within the CIRSE Board since the late 1990s. In 1999, he was the local organiser of the CIRSE Annual Meeting in Prague. In 2005, he was elected Treasurer of CIRSE, followed by his post as Vice-President of CIRSE between 2007 and 2009, culminating is his position as the Society’s President from 2009-2011.

In his free time, he likes reading – particularly fantasy and science-fiction books. His other major interest is rock and blues music of the 1960s. When he was young, he was a competitive table tennis player with a rather high national ranking. Nowadays he still plays in the local veteran table tennis league and also enjoys tennis and skiing.

Jan Peregrin is married to Hana, who is a paediatrician and the mother of their two children: their son is a neurologist, and their daughter graduated from the Faculty of Social Sciences of Charles University and works in the travel industry.
Michael D. Dake is known internationally as a major contributor to the development of vascular stent-grafting and imaging-guided treatments for arterial and venous diseases. Since 2008, Dake has been the Thelma and Henry Doelger Professor in Stanford University’s Department of Cardiovascular Surgery and the Medical Director of the Stanford Catheterization and Angiography Laboratories. Dake’s research is currently focused primarily on endovascular device development, vascular biology, and molecular imaging. Notable recent work from his laboratory includes published reports on in vivo vascular tissue engineering research.

From 2005 to 2008, Dake was the Chair of the Department of Radiology and the Harrison Distinguished Medical Teaching Professor of Radiology at the University of Virginia Health System in Charlottesville. In addition, he held professorial appointments in the Department of Medicine (pulmonary diseases) and Surgery at the School of Medicine. During this time, he led the development of a new research facility for the department with the construction of the state-of-the-art home for its research division, the Snyder Translational Research Building at the Fontaine Research Park.

Dr. Dake initially joined Stanford in 1990 as section chief of Cardiovascular and Interventional Radiology and co-director of the Catheterization and Angiography Laboratories. During his 15 years in that role, his research focused on endovascular device development and management of aortic pathologies. Dake and his team’s landmark research into the use of stent-grafts for the treatment of aortic pathologies, which was detailed in two articles published in the New England Journal of Medicine, dramatically changed the way physicians manage thoracic aortic aneurysms and dissections.

Notable firsts recorded by the IR team he led while at Stanford include: the first published report of endovascular treatment (catheter-directed thrombolysis and stents) of patients with iliofemoral venous obstruction; publication of the first report of carotid artery stent placement; initial publication detailing the use of venous stents for treatment of benign intracranial hypertension; first aortic stent-graft performed in the US; report of the first series of thoracic aortic stent-grafts for management of thoracic aortic aneurysms and subsequently, acute aortic dissection; first report of stent-graft management of isolated iliac artery aneurysms; first publication to describe the use of covered stents to treat neurovascular arterial disease; initial published experience of vertebral artery stent placement; first report of stent-graft use in patients with femoropopliteal arterial disease; first article to report ascending aortic stent-graft placement; and first paper to describe the placement of an aortic stent-graft within an elephant trunk graft to complete repair of a thoracic aneurysm.

Dake is a graduate of Harvard College, where he was voted First Class Marshall by his graduating class, and Baylor College of Medicine in Houston, where he completed an internship, residency and chief residency year in internal medicine. He pursued fellowship training in pulmonary diseases and a residency and chief residency in radiology at the University of California San Francisco, where he was awarded the Elmer Ng, M.D. Award presented to the outstanding graduating resident in diagnostic radiology. He went on to complete subspecialty training in vascular and interventional radiology at UCSF. Dake has mentored over 100 interventional radiology fellows (including 25 international trainees in research programmes of one year or longer). Five of his trainees have been awarded the annual Gary J. Becker Young Investigator Award by the Society of Interventional Radiology (SIR). In addition to being an advisor to numerous governmental, philanthropic, societal and medical device organisations, he currently serves on the editorial boards of six medical journals.

Dake is the author or co-author of more than 250 peer-reviewed articles and the holder of 25 US patents. He is editor of Abrams’ Angiography, the current standard reference text in the field. Throughout his career, he has been recognised with many honours and awards. In 1999, the American Heart Association selected him to deliver the Charles T. Dotter Memorial Lecture. In 2004, he was awarded a Doctor Honoris Causa by the French Republic and the Université de la Méditerranée (Aix-Marseille). In the same year, he was honoured with the Outstanding Alumni Award from UCSF, Department of Radiology. He delivered the SIR’s Dr. Charles T. Dotter Lecture at its 32nd Annual Scientific Meeting in 2007, received the 2012 SIR Foundation Leaders in Innovation Award and is a 2014 recipient of a Gold Medal, the Society’s highest honour given to those who have helped ensure the future of interventional radiology by advancing the quality of medicine and patient care. In 2009, he was named CIRSE’s Josef Roesch Honorary Lecturer. A recipient of Magna and Summa Cum Laude RSNA Scientific Exhibit Awards, he has delivered more than 1,600 invited presentations, including 21 eponymous lectures, and authored 101 book chapters and 512 published abstracts.

CIRSE Opening and Awards Ceremony

Michael D. Dake will be awarded on
Saturday, September 13
14:30-16:00, Main Auditorium
Distinguished Fellow
Jonathan G. Moss

Jon Moss received his initial medical training at the University of Edinburgh, graduating with the title of Bachelor of Medicine, Bachelor of Surgery (MBChB) in 1979. He undertook five years of surgical training before becoming a Fellow of the Royal College of Surgeons of Edinburgh. In 1985, he chose to specialise in radiology, again at Edinburgh, and became a Fellow of the Royal College of Radiologists 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, where he has remained for the last 22 years. His academic and research expertise was formally recognised by the University of Glasgow in 2007, when he was awarded an honorary chair in radiology.

Although still a practising interventionist, he has focused more recently on research and committee work. A past secretary of the British Society of Interventional Radiology (BSIR), Prof. Moss has been instrumental in developing the BSIR national registries which include BIAS, a performance indicator registry for iliac interventions. More recently he oversaw (in collaboration with the Health Foundation and BSIR) the making of a film called “The System”. This aimed to draw attention to patient safety and used IR as the clinical vehicle. In recognition of his exceptional contribution to British interventional radiology, he will be awarded the BSIR Gold Medal 2014 at November’s annual meeting.

He has sat on numerous panels and committees including the UK Working Party for Vascular Access for Dialysis Patients, the Interventional Radiology in Obstetrics & Gynaecology Working Party, the National Renal Audit Vascular Access Implementation Group and the Data Monitoring Committee of the Improve Trial (EVAR for ruptured AAA). He is currently on the Interventional Procedures Panel for the National Institute for Health Research (UK) and the Interventional Procedures Advisory Committee for NICE.

Prof. Moss has written 19 book chapters, 70 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, vascular access and uterine fibroids. He has been involved in a number of grant-funded pivotal studies e.g. REST and ASTRAL trials and is currently joint grant-holder of the FEMME (UAE) trial and chief investigator of the CAVA (venous access) trial.

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 and delivered the Andreas Gruentzig Honorary Lecture in 2011. Prof. Moss is on the editorial board of CVIR and currently chairs the CIRSE Renal Denervation Task Force. He is a member of the CIRSE Research Committee and serves on CIRSE’s Executive Committee in his capacity as co-chair of the Local Host Committee for CIRSE 2014 in Glasgow.

Outside medicine he enjoys the outdoor life, which includes sailing, mountaineering, diving and running. He is a man who seldom sits still, and leads an active life both inside and outside the angiosuite.

CIRSE Opening and Awards Ceremony

Jonathan G. Moss will be awarded on

Saturday, September 13
14:30-16:00, Main Auditorium
Dimitrios Siablis was born and went to school in Megalopoli, a town in southern Greece. After earning his medical degree from the Aristotle University of Thessaloniki in 1975, he subsequently specialised in radiology at St. Andrew’s General Hospital in Patras, a city in western Greece, and was appointed consultant radiologist at the hospital in 1983.

During his tenure in St. Andrew’s General Hospital, Dimitrios Siablis began practicing interventional radiology, sparking his interest in the field and leading him to focus his Ph.D. thesis, which he completed at the University of Patras’ School of Medicine in 1986, on the sub-discipline. In 1988, he attended a 3-month training course in IR at the Vienna General Hospital (Allgemeines Krankenhaus der Stadt Wien) in Austria. In 1996, he was further trained in innovative IR methods as a research fellow in the Department of Interventional Radiology at Guy’s & St. Thomas’ Hospital in London.

In 1989, Dimitrios Siablis was appointed Assistant Professor of Radiology at the University of Patras’ School of Medicine. He began his clinical and academic career at the newly built University Hospital of Patras, where he led the Interventional Radiology Unit, which has remained under his close guidance and supervision throughout his entire career. In 2005, he was both named full professor and appointed Chairman of the Radiology Department, a post he served in until September 2013.

Prof. Siablis’ academic and clinical work has covered an impressive spectrum of vascular and non-vascular interventional procedures, and encompasses training radiology residents, delivering lectures to post-graduate students and supervising Ph.D. candidates.

In addition, Prof. Siablis’ developed a special interest in research, particularly on the endovascular treatment of peripheral arterial disease. He led many pilot projects and clinical studies on the topic, participated as principal investigator in multi-centre clinical trials and authored or co-authored over 130 papers in international peer-reviewed journals. He has also written or co-written multiple book chapters and abstracts, and has delivered over 200 lectures at national and international scientific meetings. Prof. Siablis is considered a pioneer in below-the-knee (BTK) endovascular treatment, as he published the first BTK DES study in 2005, and has contributed to numerous publications in this field. He was twice awarded the CVIR Editor’s Medal for his research, and has served as editor of the Journal of Endovascular Therapy (JEVT) for several years.

Under Prof. Siablis’ leadership, the interventional radiology unit at the University Hospital of Patras became one of the most active university IR departments in Greece. By choosing competent and distinguished partners, he created an interventional team that produced significant research and clinical work that is respected and recognised around the globe. He also established the neuroradiology unit at the hospital, the first such unit in western Greece.

Prof. Siablis has also actively participated in various scientific societies. He was elected both President of the Medical Association of Patras (2004-2011) and General Secretary of the Hellenic College of Radiology (2007-2013) for two consecutive terms, and currently serves as Vice-President of the Hellenic Society of Interventional Radiology and Neuroradiology and as a Member of the Hellenic Society of Radiology. Prof. Siablis is also EBIR-certified and a CIRSE Fellow, having participated in every CIRSE meeting since the 1985 inaugural congress in Vienna.

His dedication to interventional radiology is multi-faceted. Prof. Dimitrios Siablis was among the Greek radiologists who lobbied to have interventional radiology and neuroradiology officially recognised as subspecialties of radiology by the Greek state. In 2009, he was appointed Chairman of the Committee of Subspecialisation in Interventional Radiology and Neuroradiology by the Central Health Council of Greece. The Committee completed its work in 2011, when the two subspecialties were officially recognised within Greece. During his tenure, Prof. Siablis was also appointed chairman of the examination committee that awards subspecialty certification to Greek interventional radiologists.

Prof. Dimitrios Siablis currently lives in Patras with his beloved family, and continues to engage in a variety of scientific and clinical work.
Philippe Pereira was born in November 1959 in Mazingarbe, France. From 1978 to 1984, he studied medicine in Lille, France, followed by a three-year residency in internal medicine (Department of Pneumology) at the University of Lille. He earned his medical degree from the University of Lille in 1987. His doctoral thesis, obtained summa cum laude, was dedicated to the treatment of lung cancers. His military service was completed through a one-year residency in the emergency department of the University of Lille and Maubeuge, after which he started a two-year position as medical assistant, which he pursued in tandem with his post-doc studies in macromolecular biochemistry.

In 1990 he moved to Germany and started his residency in radiology at the Johannes Wesling academic hospital of Minden, advancing to the position of staff radiologist four years later. During this time, he spent several months in the interventional radiology department of the Institut Gustave-Roussy in Paris under the chairmanship of Professor Alain Roche, and visited the Interventional MRI Department of the Brigham and Women’s Hospital in Boston several times.

After acquiring solid experience as a staff radiologist in the 1,300-bed academic hospital in Minden, as well as publishing his first papers (already related to chemoembolisation and invasive diagnostics), Philippe Pereira started his university career in 1995 at the Department of Radiology at the Eberhardt-Karls-University of Tübingen, chaired by Prof. Claus Claussen. He completed his research at the Faculty of Tübingen on Diagnostic and MR-guided interventions of bone marrow diseases, and was subsequently appointed Professor of Radiology in 2001, progressing to Deputy Chairman of the department in 2004. Since 2008, he has been Head of the Department of Radiology, Minimally Invasive Therapies and Nuclear Medicine at SLK-Clinics, Academic Hospitals of the Ruprecht-Karls-University of Heidelberg, and is affiliated to the University of Tübingen as Professor of Radiology and Research Director.

Prof. Pereira’s research focuses on oncologic interventions such as percutaneous thermotherapy, arterial embolisation and the use of image-guided techniques for the treatment of malignancies, especially interventional MR imaging and perfusion studies. His broad repertoire of expertise in interventional radiology includes experience in the invasive diagnosis of functional neuroendocrine tumours, and MR-guided interventions and pain treatments.

Philippe Pereira is an active member of numerous national organisations. Since 1999 he has been on the Executive Committee of the German Society of Interventional Radiology (DeGiR, previously AGiR), as well as several working groups of the German Cancer Society. He is also a member of the S3-guideline panels for colorectal cancer and hepatocellular carcinoma. Internationally, he is actively involved in the Cardiovascular and Interventional Radiological Society of Europe (CIRSE), the European Congress of Interventional Oncology (ECIO), the Interdisciplinary Treatment of Liver Tumors (ITLT), the World Congress of Interventional Oncology (WCIO), the European Society of Gastrointestinal and Abdominal Radiology (ESGAR), and more recently in the Global Embolization Symposium and Technologies (GEST), among others. He has received awards from ECR, RSNA, ESGAR, WCIO and ISMRM.

Following several years of CIRSE Membership, Philippe Pereira became a Fellow of the Society in 2007, and is a member of the European Board of Interventional Radiology. He served on the Executive Committee from 2011 to 2013. Prof. Pereira is now active within CIRSE’s Research Committee and Oncological Alliance Subcommittee, and has been co-ordinating collaboration between CIRSE and the European Institute for Biomedical Imaging Research (EIBIR) for the last 3 years.

Prof. Pereira is a reviewer for CVIR, European Radiology, Radiology, Journal of Hepatology, Investigative Radiology, JVIR and Röntgenfortschritte, amongst others. His research and clinical expertise has been published in many peer-reviewed journals, with more than 220 scientific publications in Radiology, CVIR, Investigative Radiology, JMRI and others, in addition to over 40 book chapters.

Several scientific meetings and symposia have invited Prof. Pereira to deliver keynote speeches, and he continues to play an active role in teaching throughout Europe. Due to his strong interest in biotechnology and medical engineering, he both advises and actively participates in several advisory boards for further development of innovative technologies and study concepts in interventional oncology. He has also succeeded in raising sufficient funds to initiate several clinical studies, particularly in the field of image-targeted liver tumour therapy.

Andreas Gruentzig Lecture

Standard clinical guidelines for interventional oncology: where are we at present?

Sunday, September 14
14:30-15:00, Main Auditorium
Josef Roesch Lecture

Francisco C. Carnevale

Francisco Carnevale was born in Sao Paulo in 1966, and studied medicine at the city’s University of Mogi das Cruzes from 1985 to 1990. In 1991, he began his residency in general and experimental surgery in the Liver Transplantation Department of the University of Sao Paulo’s (USP) medical school.

The possibility of using imaging to treat patients with minimally invasive techniques drew him to interventional radiology. In 1994, Dr. Carnevale completed a clinical fellowship in IR at USP’s hospital, when Dr. Renan Uflacker encouraged him to pursue an IR fellowship in the United States. He did so at several institutions, including the Medical University of South Carolina (under Uflacker’s supervision); Houston’s MD Anderson Cancer Center (with Sydney Wallace); the University of California, San Diego (with Horacio D’Agostino); the University of Pittsburgh (under Albert Zajko’s group); and Chicago’s Children’s Memorial Hospital (under James Donaldson’s guidance).

Profs. Wilfrido Castañeda-Zúñiga and Manuel Maynar invited him to complete a clinical fellowship in Spain in 1996. At the Hospital Nuestra Señora del Piño, he was tutored by Juan Maria Pulido Duque and Elias Gorriz Gomez, and at the Hospital de Gipuzkoa by Mariano De Blas, Santiago Merino and Jose Maria Egaña, whose group performed the first AAA endovascular repairs in Spain for the EUROSTAR project. During this time, Dr. Carnevale built strong relationships with CIRSE members, including Profs. José Ignacio Bilbao and Miguel Angel De Gregorio. He is grateful to all of his mentors, including those not mentioned.

Francisco Carnevale completed his Ph.D. in IR back at USP in 1999, supervised by Mariano De Blas. His thesis on percutaneous treatment of chronic iliac artery occlusion was later published in CVIR.

Dr. Carnevale has served as chief of USP’s IR unit since 2002. He loves both spending time in the interventional suite and teaching. He coordinates introductory and post-graduate coursework, directs the fellowship programme, participates in a wide range of administrative meetings, and has tutored and evaluated over 30 doctoral and master candidates. Having worked hard to build relationships across several disciplines, the IR department is strong in research, education, pre-clinical and clinical studies.

Prof. Carnevale is a leader in the field of prostate embolisation. After collaborating on a pre-clinical study at Boston’s Beth Israel Hospital, he initiated the first clinical study of prostate artery embolisation for benign prostatic hyperplasia at USP in 2008. In 2013, he presented a lecture on this at the U.S. National Institutes of Health, and participated in a consensus meeting on related research needs with the Society of Interventional Radiology (SIR) and the American Urological Association. Prof. Carnevale is the medical monitor and principal investigator of the FDA-approved study on prostate artery embolisation with embosphere® microspheres compared to transurethral resection of the prostate for the treatment of symptomatic benign prostatic hyperplasia, which will involve patients at 12 international centres in Europe and the United States. Other main research areas include vascular liver diseases, biliary interventions, portal hypertension, and adult and paediatric liver transplantation-related procedures.

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A co-founder of the Brazilian Society of Interventional Radiology and Endovascular Surgery and its president from 2009-2010, Dr. Carnevale is now in charge of international relations. He is a member of several other societies, including the Brazilian College of Radiology, the European Society of Radiology, SIR and CIRSE.

The second edition of Radiologia Intervencionista e Cirurgia Endovascular, a vital reference guide on interventional radiology and endovascular surgery edited by Prof. Carnevale and published in 2006, is forthcoming. He has also written 25 book chapters, and authored or co-authored over 30 peer-reviewed articles, with 250 related citations and an “h” index of 9. Dr. Carnevale has served as associate editor for Radiologia Brasileira and CVIR, and as reviewer for several journals, including Journal of Vascular and Interventional Radiology, Liver Transplantation, Journal of Pediatric Transplantation, and Journal of Urology. He has also given over 150 speeches and 100 presentations at congresses.

Prof. Carnevale is married to the lovely Ana Maria, with whom he has two children, Marina and Rafael. He enjoys gardening, climbing fruit trees with his kids, playing with the family’s Dachshund, preparing barbecues and mixing his own caipirinhas. Dr. Carnevale relishes his morning jogs for peaceful moments, to protect his health and to prepare for the day ahead.

Josef Roesch Lecture

Prostatic artery embolisation: familiar concept, new indication and state-of-the-art methods

Tuesday, September 16
14:30-15:00, Main Auditorium
The Award of Excellence and Innovation in IR

The Award of Excellence and Innovation in IR is sponsored by the R.W. Guenther Foundation, and seeks to reward and encourage exceptional research in the field of interventional radiology. The award is presented during the Opening and Awards Ceremony of the CIRSE Annual Meeting, bestowing recognition and a €5,000 prize to the best applicant.

This year, the award will go to a team of IR researchers from Utrecht, the Netherlands, for their innovative work in developing Holmium-166 microspheres, the first radioactive microspheres that can be visualised in vivo on multi-modal imaging.

The winning team
The microspheres were developed by a team at the University Medical Center Utrecht that includes both physicians and physicists. The award will be accepted by Prof. Dr. Maurice van den Bosch, Dr. Johannes Frank Nijsen, and Dr. Marnix Lam.

The innovation
While radioembolisation using Yttrium-90 (Y-90) microspheres has proven effective for treating patients with unresectable colorectal liver metastases, the procedure remains complex and entails significant limitations, namely, that current imaging modalities cannot visualise the microspheres in vivo.

Visualisation of microspheres during and after their administration would significantly simplify the procedure. Holmium-166 microspheres offer that possibility.

Holmium-166 microspheres are comparable to Y-90 microspheres in that they emit beta-particles with radiotherapeutic properties appropriate for therapy. However, in addition, they also emit gamma radiation, which permits nuclear imaging (PET-SPECT). Moreover, they are paramagnetic, which allows visualisation by way of MRI.

This characteristic could help physicians both personalise and improve patient treatment. The innovation permits the radioembolisation team to administer a scout dose of the microspheres, assess SPECT and MRI results to calculate a specific, image-based treatment dose, and adjust the dose to ensure that the tumorous tissue receives the highest possible dose without exceeding the maximum radiation dose tolerated by healthy liver tissue. Similarly, the actual dose distribution could be assessed shortly after the treatment, facilitating better follow-up care. The microspheres could also be administered under real-time MRI guidance, enabling peri-treatment dosimetry.

The new microspheres have been patented in Europe, and a paper on the innovation has been published in The Lancet Oncology.

CIRSE Opening and Awards Ceremony
The team representatives will be awarded on Saturday, September 13
14:30-16:00, Main Auditorium
The winning team is being represented by M. van den Bosch, J.F. Nijsen, and M.G.E.H. Lam.

Maurice van den Bosch
Prof. van den Bosch is Professor of Radiology and Chairman of the Department of Radiology & Nuclear Medicine at the University Medical Center Utrecht (UMC). A Dutch citizen, he completed both his medical degree and his Ph.D. at the University of Utrecht, in 2001 and 2002, respectively. He also holds an M.Sc. in Biomedical Health Services. Dr. van den Bosch completed his residency at UMC in 2006, and was subsequently awarded fellowships in interventional radiology at the Stanford University Medical Center, the Antoni van Leeuwenhoek Hospital and the Academic Medical Center Amsterdam.

Prof. van den Bosch has authored and/or contributed to over 140 published articles, and is the recipient of several awards, including the HC Dirven Foundation Breast Cancer Research Award (2008), the GEST Young Interventionalist Award (2009), and the CVIR Award for Outstanding Service to the Journal (2012).

Johannes F. Nijsen
Dr. Nijsen is an associate professor at UMC, where he has been teaching since 2004. His research focuses on particle-based imaging and therapy of malignancies (liver, brain, head and neck and cervix tumours). He is the lead person in valourisation efforts relating to the group’s development of the holmium microspheres, and is currently also working as Scientific Officer at Quirem Medical BV.

Dr. Nijsen, who is a Dutch national, was trained in biology and medical biology at the University of Amsterdam (from 1990 to 1995), and completed his Ph.D., on radioactive holmium poly(L-lactic acid) microspheres for the treatment of liver malignancies, at the University of Utrecht in 2001.

Marnix G.E.H. Lam
Dr. Lam is a trained nuclear medicine physician and radiologist. He works in the Department of Radiology and Nuclear Medicine at UMC, where he received his Ph.D. in 2009 and also completed his residencies in nuclear medicine and radiology.

Dr. Lam, who is a Dutch citizen, was a Research Fellow of the Dutch Cancer Society (KWF) from 2010 to 2014, which included completing a two-year post-doc research fellowship at Stanford University (Stanford, CA/USA). Since 2013, he is also an Associate Professor of Nuclear Medicine in Utrecht.

His scientific work has largely involved translational research in molecular medicine, with a focus on oncology. His research efforts are aimed at bringing new radiopharmaceuticals to clinical practice, and have already resulted in the introduction of new oncological treatment modalities in the Netherlands.
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Vari A.              |              |
Verhoeven E.         |              |
Vidal V.             |              |
Vilares Morgado P.    |              |
Vilgrain V.           |              |
Vonken E-J.           |              |
Vorwerk D.            |              |
Vos J.A.              |              |
Vrachliotis T.-E.G.   |              |
Wagner H-J.           |              |
Waldenberger P.       |              |
Walser E.M.           |              |
Watkinson A.F.        |              |
Weber J.              |              |
West D.J.             |              |
White S.B.            |              |
Wilkinson J.          |              |
Wilson I.             |              |
Wohlgemuth W.A.       |              |
Wolf F.               |              |
Zangos S.             |              |
Zeleňák K.            |              |
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Rome/IT              |              |
Nuremberg/DE         |              |
Marseille/FR         |              |
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Ingolstadt/DE*       |              |
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Milwaukee, WI/US     |              |
London/UK            |              |
Southampton/UK       |              |
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Martin/SK            |              |
Kilchberg/CH*        |              |

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General Information

CIRSE Central Office
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Austria
Phone: +43 1 904 2003
Fax: +43 1 904 2003 30
info@cirse.org
www.cirse.org

Congress Venue
SECC – Scottish Exhibition and Conference Centre
Exhibition Way
Glasgow G3 8YW
United Kingdom
Phone: +44 141 248 3000
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info@secc.co.uk

Onsite Registration
The registration desks will be located in the exhibition.

Onsite Registration Desk Opening Hours
Friday, September 12 16:00-18:00
Saturday, September 13 07:00-18:00
Sunday, September 14 07:30-18:00
Monday, September 15 07:30-18:00
Tuesday, September 16 07:30-18:00
Wednesday, September 17 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 their badges will be available in the entrance hall. Participants who did not receive their badges before leaving their home country are requested to bring valid ID (e.g. passport, driving license). For onsite registration and payment, the self-registration counter, also located in the registration hall, will be the quickest way to register.

Onsite Registration Fees
CIRSE Member €675
Non-Member €970
Resident* (CIRSE Member) €475
Resident* (Non-Member) €550
Nurse/Radiographer* (CIRSE Member) €440
Nurse/Radiographer* (Non-Member) €550

Day Tickets are only available onsite for the following days:
Tuesday, September 16 €300
Wednesday, September 17 €260

* 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 2014 are only available for those Members who have been in good standing with CIRSE in 2013 and 2014. Individuals who become CIRSE Members in 2014 will be able to benefit from reduced congress fees starting at CIRSE 2015.

Additional Information
All CIRSE 2014 registrants will be able to print out an invoice of the registration using their personal log-in details at www.cirse.org.

Invoices will be issued by:
CIRSE Congress Research Education GmbH,
Neutorgasse 9, 1010 Vienna, Austria

Cancellation of Congress Registration
CIRSE offers all participants the possibility of taking out cancellation insurance with our partner “Europäische Reiseversicherung” (see www.cirse.org).
CIRSE will not provide refunds after a cancellation of registration. All requests for refund have to be issued to the Europäische Reiseversicherung.

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

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 August 1). All participants registered after August 1 will receive their badges at the registration desk upon presentation of a valid ID. 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.

Poster Exhibition Opening Hours
Saturday, September 13 07:30-18:30
Sunday, September 14 07:30-18:30
Monday, September 15 07:30-18:30
Tuesday, September 16 07:30-18:30

Our staff will be glad to assist you during these hours.
CME Credit Allowance
CIRSE 2014 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 2014 is designated for a maximum of 26 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.

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

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

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 15, 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
CIRSE cannot accept any liability for the acts of the suppliers to this meeting or the attendees’ safety while travelling to or from the congress. All participants are strongly advised to carry adequate travel and health insurance, as CIRSE cannot accept liability for accidents or injuries that may occur.

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

Useful Information

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

Students’ Lounge
The Students’ Lounge, located in the exhibition hall, welcomes all participants of the CIRSE 2014 Student Programme. Students can meet, have lunch and find out more about interventional radiology and CIRSE in a relaxed and comfortable environment.

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 ESIRonline.

Public transportation
The Scottish Exhibition and Conference Centre (SECC) can be reached from Glasgow Central station – exit at Exhibition Centre.

All CIRSE 2014 delegates with a full congress registration (scientific badges) will receive a complimentary 5-day SPT Travel Pass for Glasgow’s public transport system.

You will receive your personal ticket upon checking in to the congress at the express lane or when collecting your congress material at one of our onsite registration counters.

Additional travel pass tickets can be purchased for GBP 8.80 from the Kuoni Desk at the congress centre – tickets are subject to availability.

Taxis
Taxis will be available in front of the congress centre (SECC). The price to go to the city centre is approximately GBP 5.00.
Have fun and do good!
Take part in the

BTG

CHARITY RUN &
FOOTBALL CUP

Saturday, September 13 at 19:00
Scotstoun Stadium

Joining the fun couldn’t be easier! Sign up by sending a short email with your name and the number of attendees to hinnerth@cirse.org, or register directly on site.

Shuttle busses will take you from the SECC to the stadium (journey time approx. 20 minutes) and will drop you off at various central locations after the event. Changing rooms and showers are available on site.

A delicious buffet will be provided from 19:45 until the end of the Football Cup.

Requested donation from participants:
BTG Charity Run: voluntary donation
Football Cup: €100 per team (minimum amount, limited capacity)

The event supports the Austrian Childhood Cancer Organisation, an independent charity that helps families struggling with childhood cancer. For more information, please visit www.kinderkrebshilfe.at.

CIRSE supports compliance with ethical standards. Therefore, CIRSE emphasises that the present invitation is directed to participants of CIRSE 2014, and recommends that participants who want to take part in the BTG Charity Run and/or Football Cup bear any and all costs in this context (including donations) themselves. Kindly note that participation in the BTG Charity Run and/or Football Cup is NOT included in the CIRSE 2014 registration fee!
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3D print EVAR study / Southend Hospital
Satellite Symposia
(in alphabetical order)

Aachen Resonance

Monday, September 15, 07:40-08:20

SY 1602  ELUTAX SV – indications getting wider  Auditorium 6

Moderator: C. Massa Saluzzo (Pavia/IT)

1602.1 Experience with ELUTAX SV inc Palmar arch stenosis
W. Loan (Belfast/UK)

1602.2 My experience of treating recurrent stenosis in AV fistulae, using the ELUTAX SV DEB
R. Dey (Northampton/UK)

1602.3 My experience of treating supra-aortic lesions with drug-eluting balloons
Z. Vajda (Kaposvár/HU)

1602.4 My experience of treating peripheral lesions with ELUTAX SV
C. Massa Saluzzo (Pavia/IT)

Alphatec Spine

Sunday, September 14, 08:00-08:20

SY 802  Stentoplasty with OsseoFix: a novel solution for the treatment of vertebral compression fractures  Auditorium 7

Moderator: A. Gangi (Strasbourg/FR)

802.1 U. Pua (Singapore/SG)

BARD

Sunday, September 14, 17:30-18:30

SY 1509  To filter or not to filter … let’s debate!  Auditorium 6

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

1509.1 All filters should come out
W.S. Rilling (Milwaukee, WI/US)

1509.2 Retrieval only in selected patients
S.D. Qanadli (Lausanne/CH)

1509.3 The liberal use
I. Wilson (Southampton/UK)

1509.4 The restricted use
S. Black (Ore/UK)

Monday, September 15, 17:30-18:10

SY 2308  Drug coated balloon: clinical evidence and real life experience  Auditorium 5

Moderator: C.I. Mena-Hurtado (New Haven, CT/US)

Programme to be announced.
**BIOTRONIK**

**Saturday, September 13, 13:00-14:00**

**SY 401 Transferring technology into data**

*Auditorium 3*

**Moderator:** F. Airoldi (Milan/IT)

401.1 Pulsar technology – COF/RRF/CR what does it all mean  
M.A. Funovics (Vienna/AT)

401.2 Pulsar data – radial forces and the link to clinical data  
K. Deloose (Dendermonde/BE)

401.3 Pulsar data – real-world experience in long lesions  
M.A. de Gregorio (Zaragoza/ES)

401.4 Lux technology – DRB differences explained  
R. Langhoff (Berlin/DE)

401.5 Lux data – Passeo-18 Lux in an Asian population  
F.G. Irani (Singapore/SG)

401.6 Lux data – review of Passeo-18 Lux data in SFA and BTK  
G. Tepe (Rosenheim/DE)

**Boston Scientific**

**Sunday, September 14, 11:30-12:30**

**SY 1101 Limb intervention: navigating a path through techniques and devices in a drug-eluting era**

*Auditorium 3*

**Moderator:** J. Lammer (Vienna/AT)

1101.1 Decision making in above knee intervention: techniques, devices and outcomes  
R. Langhoff (Berlin/DE)

1101.2 Decision making in below knee intervention: techniques, devices and outcomes  
R. Ferraresi (Milan/IT)

1101.3 Critical review of evidence: what we have and what we need  
T. Albrecht (Berlin/DE)

**Monday, September 15, 11:30-12:30**

**SY 1901 Renal denervation and the Vessix™ global clinical programme. Current learning leading to future horizons**

*Auditorium 2*

**Moderator:** J.G. Moss (Glasgow/UK)

1901.1 The foundations of renal denervation: Vessix bench to bedside  
S. Müller-Hülsbeck (Flensburg/DE)

1901.2 Current evidence in renal denervation: Vessix clinical update  
G.S. Goh (Melbourne/AU)

1901.3 The future for renal denervation: new horizons and the Vessix global clinical programme  
B.T. Katzen (Miami, FL/US)
BTG

Sunday, September 14, 11:30-12:30

**SY 1102 TheraSphere® and DC Bead®: meeting the needs of liver cancer patients and physicians**  
Auditorium 2

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

1102.1 TheraSphere®: low radiation exposure to IR staff: high radiation dose to the tumour  
L. Lenoir (Rennes/BE)

1102.2 BCLC’s experience with Therasphere® in HCC patients  
M. Burrel (Barcelona/ES)

1102.3 TheraSphere®: new and compelling clinical outcome data in mCRC  
J.-F.H. Geschwind (Baltimore, MD/US)

1102.4 Distribution of DC Bead® 100-300µm vs DC BeadM1™ in HCC tumours: histologic analysis following transplant  
A.F. Nicolini (Milan/IT)

Monday, September 15, 14:30-15:30

**SY 2102 Emerging treatment options for high and intermediate risk pulmonary embolism patients**  
Auditorium 2

2102.1 Conservative treatment and IV thrombolysis  
J. Beyer (Dresden/DE)

2102.2 Ultrasound-accelerated thrombolysis with EKOS®: the American experience  
G. Piazza (Boston, MA/US)

2102.3 Ultrasound-accelerated thrombolysis with EKOS®: the European experience  
N. Kucher (Bern/CH)

Cook Medical

Monday, September 15, 11:30-12:30

**SY 1902 Optimise the use of drug-eluting devices**  
Main Auditorium

*Moderator: M.D. Dake (Stanford, CA/US)*

1902.1 Drug-eluting technologies – evidence and treatment algorithms  
K.N. Katsanos (London/UK)

1902.2 How I use drug-eluting technologies in my daily practice  
E. Ducasse (Bordeaux/FR)

1902.3 Cost effective SFA treatment  
K.N. Katsanos (London/UK)

1902.4 Drug-eluting technologies – does TASC need an update?  
F. Fanelli (Rome/IT)

Cordis

Sunday, September 14, 11:30-12:30

**SY 1103 Where do we stand with SFA interventions today?**  
Main Auditorium

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

1103.1 Subintimal angioplasty for the SFA in 2014  
J.A. Reekers (Amsterdam/NL)

1103.2 The evidence for drug coated balloons in the SFA  
F.E. Vermassen (Ghent/BE)

1103.3 Current indications for SFA stenting  
R. Langhoff (Berlin/DE)

1103.4 Outcome measurements after SFA interventions  
M.J.W. Koelemay (Amsterdam/NL)
Covidien

Sunday, September 14, 07:20-08:20
SY 801 Sophisticated SFA treatment decisions: let evidence be your guide

Moderator: R. Langhoff (Berlin/DE)

801.1 Advancing treatment in highly complex lesions
A.G. Schwindt (Münster/DE)

801.2 Evaluating economic value of SF systems for outpatients
Y. Gouëffic (Nantes/FR)

801.3 DCB evidence moving the paradigm
G. Tepe (Rosenheim/DE)

801.4 Insight into drug coated balloons: what’s the difference
A. Micari (Palermo/IT)

Monday, September 15, 07:20-08:20
SY 1601 Latest innovations and new indications for Onyx™ liquid embolic system

Moderator: V. Vidal (Marseille/FR)

1601.1 First experience with Onyx™ 34L liquid embolic system with less tantalum
M. Treitl (Munich/DE)

1601.2 Onyx™ liquid embolic system as an alternative for treatment of gastrointestinal bleedings
J. Urbano (Madrid/ES)

Monday, September 15, 11:30-12:30
SY 1903 Powerful predictability: a new concept in ablation

1903.1 Liver
G. Carrafiello (Varese/IT)

1903.2 Lung
T.J. Vogl (Frankfurt/DE)

1903.3 Kidney
W. Prevoo (Amsterdam/NL)

Gore & Associates

Sunday, September 14, 17:30-18:10
SY 1507 Innovative technologies for challenging peripheral and aortic anatomy: what’s new?

Moderator: J.-P. Schäfer (Kiel/DE)

1507.1 Stenting challenging peripheral anatomy
G. Pratesi (Rome/IT)

1507.2 First clinical experience with the GORE® EXCLUDER® Iliac Branch Endoprosthesis: what have we learned so far?
M.S. Hamady (London/UK)

Monday, September 15, 17:30-18:10
SY 2309 Monitoring, managing and reducing post TIPS HE

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

2309.1 What can the radiologist do in case of refractory post TIPS HE
G.A. Maleux (Leuven/BE)

2309.2 Managing portal pressure and TIPS stent diameters reduces post TIPS HE.
Results from a CT based Italian multicentre trial
F. Schepis (Modena/IT)
InSightec

Sunday, September 14, 13:00-14:00

SY 1201  MR guided focused ultrasound: from head to toe  Auditorium 5

Moderator: M. Bezzi (Rome/IT)

1201.1  Tumour ablation: breast, pancreas, prostate  
A. Napoli (Rome/IT)
1201.2  Pain palliation in bone: tumours and facet  
M. Düx (Frankfurt/DE)
1201.3  Uterine fibroids MRgFUS: familiar concept, new evidence  
M. Matzko (Dachau/DE)

Medtronic

Monday, September 15, 13:00-14:00

SY 2002  Advances in DCB evidence generation: an IN.PACT update  Auditorium 4

Moderator: E. Minar (Vienna/AT)

2002.1  DCB level 1 evidence: results from IN.PACT SFA randomised trial  
A. Micari (Palermo/IT)
2002.2  DCB from randomised trial to real world: the IN.PACT Global Study  
P.A. Gaines (Sheffield/UK)
2002.3  Economic value proposition of IN.PACT DCB in current era  
B. Kearns (Sheffield/UK)
2002.4  IN.PACT technology and pre-clinical evidence  
R. Melder (Santa Rosa, CA/US)

Merit Medical

Saturday, September 13, 13:00-14:00

SY 402  Transarterial chemoembolisation (TACE) with HepaSphere drug-eluting microspheres: see the results  Auditorium 4

Moderator: S. Pluntke (Essen/DE)

402.1  TACE with Irinotecan in VX2 tumoural model  
N. Maeda (Osaka/JP)
402.2  TACE with Irinotecan in the treatment of colorectal metastases to the liver  
P.E. Huppert (Darmstadt/DE)
402.3  TACE with Doxorubicin in the treatment of hepatocellular carcinoma  
K. Malagari (Athens/GR)
402.4  TACE: trends & future opportunities  
S. Pluntke (Essen/DE)

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

SY 1303  Prostatic artery embolisation (PAE) for the treatment of BPH: opportunities and issues  Auditorium 2

Moderator: F.C. Carnevale (São Paulo/BR)

1303.1  PAE: frequent issue, how to solve them?  
A. Rampoldi (Milan/IT)
1303.2  Cuneo experience and Italian Registry  
M. Grosso (Cuneo/IT)
1303.3  PAE: what is next?  
N. Thiounn (Paris/FR)
1303.4  Which patients for PAE?  
M.R. Sapoval (Paris/FR)
Penumbra

**SY 1508** Experience with Penumbra technology embolisation and thrombectomy  
**Auditorium 9**

Moderator: P. Quaretti (Pavia/IT)

1508.1 Ruby™ Coil and Indigo™ System: New tools for embolisation and thrombectomy  
C. Teigen (Fargo, ND/US)

1508.2 Expanding your embolisation practice through utilisation of Ruby™ Detachable Coil Technology  
L.P. Moramarco (Pavia/IT)

**SY 2307** Penumbra thrombectomy technology: Changing the paradigm of peripheral treatment  
**Auditorium 9**

Monday, September 15, 17:30-17:50

2307.1 Penumbra’s secret for endovascular clot management:  
Do we finally have the solution for arterial, venous, and PE clot management?  
J.F. Benenati (Miami, FL/US)

**PharmaCept**

**SY 803** DSM-TACE (EmboCept® S): Effective therapy in liver tumours  
**Auditorium 6**

Moderator: T. de Baère (Villejuif/FR)

803.1 EmboCept® S for DSM-TACE in liver metastases  
T.J. Vogl (Frankfurt/DE)

803.2 Downstaging strategy with DSM-TACE (EmboCept® S) in HCC patients  
A. Orlacchio (Rome/IT)

803.3 The role of Cisplatinum in HCC  
T. de Baère (Villejuif/FR)

**Philips Healthcare**

in partnership with BTG

**SY 403** Towards controlled and reproducible results in interventional therapy.  
Making the difference with Philips Live Image Guidance  
**Auditorium 2**

Moderators: G. Carrafiello (Varese/IT), A. Gangi (Strasbourg/FR)

403.1 A standardised protocol in liver TACE with DC Bead™ combining AlluraClarity, DualPhase XperCT and EmboGuide  
J.-F.H. Geschwind (Baltimore, MD/US)

403.2 Dual Phase CBCT-guided transarterial embolisation: liver, prostate and beyond  
H. Kobeiter (Créteil/FR)

403.3 Imaging outcome in critical limb ischaemia with 2D Perfusion imaging?  
Perspectives on a novel interventional tool to measure treatment success  
J.A. Reekers (Amsterdam/NL)
**Siemens**

Tuesday, September 16, 13:00-14:00

**SY 2801** Getting the most out of your imaging system: tips and tricks from the experts  
**Auditorium 3**

*Moderator: W.A. Wohlgemuth (Regensburg/DE)*

2801.1 Paediatric interventional radiological procedures – practical considerations regarding technique and radiation dose  
W.A. Wohlgemuth (Regensburg/DE)

2801.2 Live on stage image processing session: learn how to utilise DynaCT in everyday IO treatment  
T.F. Jakobs (Munich/DE)

**Sirtex Medical**

Monday, September 15, 13:00-14:00

**SY 2001** SIR-Spheres microspheres® – think about the flow  
**Auditorium 3**

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

2001.1 SIR-Spheres microspheres enable optimal tumour coverage  
P.M. Paprottka (Munich/DE)

2001.2 Flexibility and ease of administration with SIR-Spheres microspheres  
J.I. Bilbao (Pamplona/ES)

2001.3 SIR-Spheres microspheres – a cost-effective option in the oncology world  
R.-T. Hoffmann (Dresden/DE)

**St. Jude Medical**

Sunday, September 14, 13:00-14:00

**SY 1202** Understanding the therapeutic value of the AMPLATZER Vascular Plugs in different clinical applications  
**Auditorium 4**

*Moderator: D. Yu (London/UK)*

1202.1 The AMPLATZER Vascular Plugs: overview of the technology and clinical applications  
C. Ferro (Genoa/IT)

1202.2 The expansive scope of the AMPLATZER Vascular Plugs in hepatological interventions  
D. Yu (London/UK)

1202.3 The significant contribution of the AMPLATZER Vascular Plugs in aortic salvage  
M. Di Primio (Paris/FR)
**Satellite Symposia**

**Straub Medical**

**SY 2802** Mechanical thrombectomy: “Can this standard treatment for arterial occlusions be the solution for venous occlusions, too?”

*Auditorium 4*

Moderator: C. Wissgott (Heide/DE)

2802.1 Straub mechanical debulking in arteries and veins. The working principle and results

P. Minko (Homburg/DE)

2802.2 Endovascular management of acute to chronic arterial occlusions

C. Wissgott (Heide/DE)

2802.3 Successful recanalisation of venous thrombosis with mechanical thrombectomy

T. Heller (Rostock/DE)

2802.4 Treatment of occluded AVFs with Straub mechanical debulking

S. Heller (Prague/CZ)

2802.5 How to continuously identify the thrombus situation in venous occlusions while simultaneously using Aspirex mechanical thrombectomy

L. Spak (Kosice/SK)

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**Surefire Medical**

**SY 2401** The precision of Surefire embolisation: improved targeting, workflow and the intentional affect of Surefire on particle distribution

*Auditorium 7*

Moderator: P.P. Goffette (Brussels/BE)

2401.1 The precision of Surefire embolisation: improved targeting and workflow

A.M. Fischman (New York, NY/US)

2401.2 The precision of Surefire embolisation: intentional affect of Surefire on particle distribution

A. Arepally (Atlanta, GA/US)

---

**Terumo Europe**

**SY 1203** Sustained embolic protection – shifting paradigms in carotid artery stenting?

*Auditorium 2*

Moderator: P. Haage (Wuppertal/DE)

1203.1 The concept of Roadsaver carotid micromesh stent

S. Müller-Hülsebeck (Flensburg/DE)

1203.2 Roadsaver – the optimal solution for all carotid lesions?

My recorded experiences

M. Amor (Essey-les-Nancy/FR)

1203.3 Clinical evidence for Roadsaver carotid stent – the CLEAR-ROAD trial

M. Bosiers (Dendermonde/BE)

1203.4 Future perspectives of micromesh stents

F. Castriota (Cottignola/IT)
Monday, September 15, 13:00-14:00

**SY 2003  Terumo, your long-term partner in interventional oncology: part I**  
*Auditorium 2*

*Moderator: A.F. Watkinson (Exeter/UK)*

2003.1 Review of drug-eluting beads literature in hepatocellular carcinoma  
*M. Burrel (Barcelona/ES)*

2003.2 DEB with irinotecan in the treatment algorithm of CRC liver metastasis. The oncologist approach  
*H. Prenen (Leuven/BE)*

2003.3 DEB with irinotecan: monocentric experience  
to be announced

2003.4 DEB with irinotecan: current clinical practice, possible role and pain management recommendations  
*P.L. Pereira (Heilbronn/DE)*

Tuesday, September 16, 13:00-14:00

**SY 2803  Terumo, your long-term partner in interventional oncology: part II**  
*Auditorium 2*

* Moderator: R. Lencioni (Pisa/IT)*

2803.1 Balloon-occluded transarterial chemoembolisation (B-TACE) using a 1.8-French microballoon catheter for hepatocellular carcinoma: feasibility and safety consideration  
*T. Hasebe (Sakura/JP)*

2803.2 AZUR coils vs fibred coils recanalisation rate: results of an animal study  
*J.-P. Pelage (Caen/FR)*

2803.3 In vivo experimental evaluation of ablation volumes obtained by microwave in the lung and liver with MicroThermX  
*P. Chevallier (Nice/FR), J.-Y. Gaubert (Marseille/FR)*
Radiation Protection Pavilion at CIRSE 2014

» Get a free eye check-up
CIRSE is offering complimentary ophthalmological check-ups (vision testing and lens opacity screening) to members. Pre-register online or book an appointment at the registration counter in the Pavilion!

» Get expert advice
Learn about health hazards linked to high levels of occupational exposure to radiation and how to best protect yourself - consult our best practice guides and information materials, prepared by CIRSE’s internationally recognized Subcommittee.

» Explore state-of-the-art protective technologies
Discuss the latest products for protection and dose management with select industry partners, who will be on hand to address your questions.

The Radiation Protection Pavilion is kindly supported by:
Learning Centres at CIRSE 2014

The Learning Centres at CIRSE 2014 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 2014:

- AngioDynamics
- BARD
- BTG
- Cook Medical
- Covidien
- Straub Medical

Please note that CIRSE is not responsible for the information provided at the Learning Centres.

Learning Centre programmes
(as per printing date)

**AngioDynamics**

**Saturday, September 13**

12:00-13:00  
**Clinical experience with irreversible electroporation (IRE)**  
K.-W. Huang (Taipei/TW), O. Seror (Bondy/FR)

**Sunday, September 14**

12:00-13:00  
**University of Regensburg – clinical experience with NanoKnife (IRE)**  
P. Wiggermann (Regensburg/DE)

13:00-14:00  
**Treating varicose veins with EVLT in your practice**  
M. Whiteley (Guildford/UK)

15:00-16:00  
**Treating varicose veins with EVLT in your practice**  
M. Whiteley (Guildford/UK)

**Monday, September 15**

12:00-13:00  
**Clinical experience with microwave tissue ablation**  
P.L. Pereira (Heilbronn/DE)

13:00-14:00  
**AngioVac, indications for use in the vena cava / iliac vasculature system**  
N. Kucher (Bern/CH)

**En bloc removal of venous thrombi or emboli**  
L. Aklog (Phoenix, AZ/US)
Cook Medical

Saturday, September 13

11:30-12:00
The venous stent experience – how we got started
N. Karunanithy (London/UK), G.J. O’Sullivan (Galway/IE)

12:30-13:00
Pelvic vein embolisation: finally, a solution for a significant clinical problem?
A.J. Lopez (Guildford/UK)

14:00-14:30
A different approach to lung biopsies, “spirotomy”
A. Veltri (Orbassano/IT)

15:00-16:00
Drop in demonstrations: Visit our Learning Centre and get your hand on our products
Cook Medical representatives

Sunday, September 14

09:30-10:00
Biliary drainage; techniques, indications and after care follow up
K.P. van Lienden (Amsterdam/NL)

11:30-12:00
Next steps in BTK treatment
V. Alexandrescu (Marche-en-Famenne/BE), K.N. Katsanos (London/UK)

12:30-13:00
Experience with the new Zenith Alpha Thoracic Endovascular Graft
E. Verhoeven (Nuremberg/DE)

14:00-14:30
Gastrostomy: Ten essentials to support your procedure
T. de Baère (Villejuif/FR)

16:00-17:00
Drop in demonstrations: Visit our Learning Centre and get your hand on our products
Cook Medical representatives

Monday, September 15

09:30-10:00
Biliary transluminal forceps biopsy; a technique to achieve an efficacy rate of >90%
K. Mangat (Birmingham/UK)

11:00-11:30
Haemodynamic and imaging evaluation of the portal vein before TIPS
G.A. Maleux (Leuven/BE)

12:30-13:00
Demonstration session – Zenith Alpha Thoracic
Cook Medical representatives

14:00-14:30
The future of AV fistula management
C. Hohl (Siegen/DE), N. Karunanithy (London/UK)
15:00-16:00
Drop in demonstrations: Visit our Learning Centre and get your hand on our products
Cook Medical representatives

Tuesday, September 16

09:30-10:00
**Biodesign: Putting an innovative biologic graft into the hands of interventional radiologists**
E. Crespo Vallejo (Valladolid/ES), T. Rugenstein (Bloomington, IN/US)

11:00-11:30
**Chait percutaneous cecostomy catheter: Clinical experiences and patient stories**
B. Husberg (Stockholm/SE)

12:30-13:00
**Optimising embolotherapy with detachable coils – explore the possibilities & refine your technique**
F. Fanelli (Rome/IT)

**Covidien**

Covidien Vascular Therapies has developed a dedicated programme in the learning centre with focus on the following areas:

- Use of Onyx™ Liquid Embolic System in peripheral embolisations
- Scientific background on drug coated balloons and anti-restenosis effects
- Treatment of acute iliofemoral deep vein thrombosis with Trellis™ 8 Peripheral Infusion System
- Treatment of varicose veins and chronic venous insufficiency (CVI) with Venefit™ Targeted Endovenous Therapy

Sessions will be run in English with three exceptions that will be in French and Italian.

Saturday, September 13

10:00-11:00 (session in French)
**Onyx™ Liquid Embolic System in endoleaks type II, AVM and haemoptysis**
A. Khalil (Paris/FR), H. Kobeiter (Créteil/FR)

12:00-13:00
**Ask the experts: embolisation using Onyx™ 34 liquid embolic system and Concerto Coils**
I.J. McCafferty (Birmingham/UK), R. Williams (Newcastle-upon-Tyne/UK)

Sunday, September 14

09:30-10:00
**First experience with Onyx™ 34 liquid embolic system with less tantalum**
M. Treitl (Munich/DE)

11:00-12:00
**Scientific background on drug coated balloons and anti-restenosis effects**

12:15-13:15 (session in French)
**Onyx™ Liquid Embolic System in endoleaks type II, AVM and haemoptysis**
A. Khalil (Paris/FR), H. Kobeiter (Créteil/FR)

13:30-14:00
**Concerto coils: a game changer in peripheral embolisation**
J. Golzarian (Minneapolis, MN/US)

15:30-16:30
**Concerto coils for emergencies embolisation**
A.M. Ierardi (Varese/IT)
Monday, September 15

11:00-11:45
Thrombolysis for acute DVT with the Trellis device
S. Black (Ore/UK)

12:00-12:40
Modern management of symptomatic varicose veins
R. Chalmers (Edinburgh/UK)

14:00-14:30
Concerto coils: a game changer in peripheral embolisation
J. Golzarian (Minneapolis, MN/US)

15:30-16:00
First experience with Onyx™ 34 liquid embolic system with less tantalum
M. Treitl (Munich/DE)

Tuesday, September 16

10:00-11:00 (session in Italian)
Concerto coils for emergencies embolisation
A.M. Ierardi (Varese/IT)

Straub Medical

Management of arterial and venous occlusive diseases with mechanical atherothrombectomy

Topics:
- Clinical and economic benefits of mechanical atherothrombectomy
- Indications, treatment specifics and success rates of Rotarex®S and Aspirex®S interventions
- In-vitro demonstration of Rotarex®S and Aspirex®S catheters
- Hands-on: experience the efficiency!

Please register at our booth no. 48.

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A wealth of IR learning
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VASCULAR INTERVENTIONS  INTERVENTIONAL ONCOLOGY  NEUROINTERVENTIONS
TRANSCATHETER EMBOLISATION  NON-VASCULAR INTERVENTIONS  AND MUCH MORE

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<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>CIRSE Main Themes</td>
</tr>
<tr>
<td>44</td>
<td>CIRSE Session Types</td>
</tr>
<tr>
<td>45</td>
<td>CIRSE Opening and Awards Ceremony</td>
</tr>
<tr>
<td>46</td>
<td>In the Spotlight – Fundamental Courses</td>
</tr>
<tr>
<td>48</td>
<td>In the Spotlight – Hot Topic Symposia</td>
</tr>
<tr>
<td>52</td>
<td>In the Spotlight – Evidence Fora</td>
</tr>
<tr>
<td>54</td>
<td>In the Spotlight – Controversies in IR</td>
</tr>
<tr>
<td>57</td>
<td>CIRSE meets…</td>
</tr>
<tr>
<td>58</td>
<td>Hands-on Workshops</td>
</tr>
<tr>
<td>67</td>
<td>Radiographer Programme</td>
</tr>
<tr>
<td>68</td>
<td>Workshops</td>
</tr>
<tr>
<td>74</td>
<td>CIRSE Scientific Programme Overview</td>
</tr>
<tr>
<td>78</td>
<td>CIRSE Scientific Programme</td>
</tr>
<tr>
<td>118</td>
<td>Posters</td>
</tr>
<tr>
<td>143</td>
<td>Abstracts &amp; Author Index</td>
</tr>
</tbody>
</table>
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 six 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**

As always, the major focus of the CIRSE Annual Meeting will be its Vascular Track. The original component of the IR armoury, vascular interventions have expanded to encompass a wide range of pathologies, and form a crucial part of our clinical practice. Four Fundamental Courses will focus on aorto-iliac, carotid, femoro-popliteal and renal artery disease, and a further 15 Special Sessions, 12 Workshops and more than 10 Hands-on Workshops will be dedicated to vascular interventions, providing more than 50 hours of vascular education. This ample programme allows vascular specialists the option of spending the entire congress focusing purely on their chosen specialty. Trials and evidence will form an integral part of this year’s programme, and the hugely popular Evidence Fora will return once more, scrutinising interventions in both the abdominal and thoracic aorta. Additionally, an Interactive Case Session entitled *Challenging venous interventions* will allow participants to get involved in the cases presented, as well as learning from others’ experiences. This year, a Hot Topic Symposium is dedicated to the important vascular issue of Treatment of DVT and PE: paradigm shift? As treatment plans for DVT and PE change, a need to compare approaches emerges. This promises to be a lively debate, with experts sharing their opinions and knowledge on the subject. Following the popularity of BTK and SFA topics at CIRSE 2013, the hottest debates in these areas will be explored in the Special Sessions *Controversies in SFA treatment* and *Controversies in BTK treatment*, where further heated discussions are likely to occur.

**INTERVENTIONAL ONCOLOGY**

Interventional oncology forms an integral part of the CIRSE congress. The discipline has expanded rapidly in recent years, and keeping the IR community abreast of new innovations is crucial. To this end, a number of exciting sessions are planned, to allow IRs of all levels of expertise to broaden their knowledge. Four Fundamental Courses will provide a clear introduction to the topic, with three devoted to hepatic and one to renal interventions. These will be augmented by five dedicated Workshops where cases will be discussed and five Hands-on Workshops that will demonstrate the basic skills needed to treat liver, kidney or bone tumours, giving participants a chance to try out their newly learned skills on phantom models. The programme will not shy away from the difficult questions, and several controversial issues will be addressed. In the Hot Topic Symposium, the role of HIFU will be probed – does it bring added clinical value which is not currently offered by thermal ablative technologies or is it just another IR modality? An Interactive Case Session will examine possible complications of transarterial hepatic treatments and how to minimise their likelihood and impact, while a dedicated Special Session will debate various controversies in liver tumour ablation, such as the future role of HIFU, microwave ablation and IRE. The programme has much more to offer, and this year, as well as addressing the established and still growing role of IR in liver cancer treatment, the Special Sessions will also focus on newer IR applications for other pathologies, such as lung cancers, biliary and pancreatic malignancies and metastatic neuroendocrine tumours.
**CIRSE Main Themes**

**NEUROINTERVENTIONS**

With the further development of devices used for stroke treatment, interventional radiologists play an important role in the diagnosis and treatment of stroke. CIRSE 2014 will support this role, providing the most up-to-date information on image-guided stroke therapies. For the first time, studies and trials will be completed and ongoing trials, as well as closely examining patient selection. To give an outsider’s view on how image-guided therapies are faring, a noted neurologist will join us to discuss the future of acute stroke treatment. Other focus sessions are also planned, including the Special Session *Chronic ischaemia of the brain: revascularisation*, which will discuss management of conditions which can lead to ischaemic stroke. In order to allow delegates to actively participate, an Interactive Case Session *Revascularisation in acute stroke: technical problems and solutions* will be held, allowing audience members to test themselves and learn from their peers. Participants will be able to further enhance their knowledge of neurointerventions at two Hands-on Workshops on stroke therapy and at three case-based discussion Workshops. It is clear that CIRSE 2014 will be a hub for neurointerventions, for both experts and non-experts.

**IR MANAGEMENT**

It has long been acknowledged that clinical engagement is needed if interventional radiological procedures are to remain within the radiological specialty. Radiologists who specialise in image-guided treatments must be prepared to accept clinical responsibility for their patients and ensure a high standard of training and quality assurance. The IR Management Track provides useful information to IRs who wish to strengthen their clinical presence within their hospital. Patient safety is of the utmost importance, and this year, the track will examine this from several angles. Optimal care and the patient’s perspective will be discussed in *Pre-, peri- and post-IR patient care*, which will address such issues as patient selection and informed consent, education, and follow-up. Taking a broader view, *Patient safety and quality assurance in interventional radiology* will investigate how hospitals and health boards can assess patient safety generally, and what role regulatory agencies and professional bodies can play in this process. Tying in with the CIRSE Society’s radioprotection activities, *Practical issues in dose management* will address various radiation hazards and how these can be minimised – both from the performing IR’s perspective and from a management perspective. Education is a key feature of this track, and the two Workshops will highlight central aspects of educating future IRs. CIRSE is delighted to report that the number of EBIR holders continues to grow, and the Workshop Taking the EBIR will provide information on how to prepare for the exam. The Workshop *IR training and accreditation* will give a general overview of the process of IR training and recognition of this training and skill-set.

**NON-VASCULAR INTERVENTIONS**

While receiving far less media attention than fast-moving fields such as interventional oncology, non-vascular interventions remain an important part of every IR’s repertoire, and are crucial to a hospital’s ability to provide state-of-the-art patient care across a range of pathologies. This year’s Non-Vascular Track will ensure many important interventions are addressed in the informal setting of Workshops (five will be offered in 2014). An Interactive Case Session on *Back pain treatment: disc and facet joints* will bring the theory behind the procedures to life, allowing a deeper understanding of the therapies and their possible complications. Four Special Sessions will address the highly sought after skills needed for enteral and parenteral nutrition, biliary interventions, and pancreatitis treatment, as well as the newly emerging field of spine interventions. The spine interventions session will communicate the latest clinical evidence for the treatment of various spine-impacting pathologies, including benign tumours and bone cysts. Preoperative embolisation in the spine, as well as indications, patient selection, tools, techniques, complications and follow-up will be addressed.

**TRANSCATHETER EMBOLISATION**

Paying tribute to the fact that embolotherapy has become an important part of IR, being performed regularly and exclusively by interventional radiologists, CIRSE 2014 will dedicate a great number of hours to the field. The popular *Controversies* format will this year be employed for the embolotherapy track, giving the audience the possibility to follow lively discussions examining both sides of the debate. One of the questions that will be asked at *Controversies in transcatheter embolisation* is whether prostatic artery embolisation is inferior to transurethral resection of the prostate. The value of bariatric gastric artery embolisation as a treatment for obesity will also be debated, as will whether liver hypertrophy is best treated with radioembolisation or portal vein embolisation. All doctors with an interest in embolisation will benefit from this animated discussion. Apart from these, many more sessions will feature interactive and hands-on elements, where delegates can try out a range of tools and technologies. Delegates will also be able to test their knowledge at the Interactive Case Session: *Embolisation in iatrogenic bleeding*. The expanded number of Special Sessions will examine bleeding control in both trauma care and the gastrointestinal tract, as well as vascular malformations, treatment options for fibroids, and the up-and-coming field of benign prostatic hyperplasia embolisation.
CIRSE Session Types

Amazing Interventions
The aim of this session is to present examples of unusual and difficult interventional procedures. Acclaimed experts in interventional radiology will present brief cases of their most unusual and challenging procedures. The emphasis of the session will be to highlight innovative ways that interventional radiologists can solve difficult problems and get out of trouble. It is envisaged that the session will be both educational and entertaining.

“CIRSE meets…” Session
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.

Evidence Fora
Evidence Fora are a type of Special Session focusing on the outcomes of major trials investigating devices or techniques for conditions commonly treated by interventional radiologists. Each forum will consist of several short talks presented by leaders in the field. Each speaker will present the evidence for and against the use of a specific device or technique for the treatment of the disease under evaluation. At the end of the session, the moderator will summarise the evidence presented and provide conclusions regarding the best method of treatment based on the current evidence.

Film Interpretation Quiz
The Film Interpretation Quiz is one of CIRSE’s most popular sessions and will be run as a “last man standing” quiz. The Quiz Master will present the audience with two possible answers to each case – those choosing incorrectly will be eliminated and must sit down, while those who get the answer right will continue to the next case. The last few contestants left standing will be invited onstage for a head-to-head finale.

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

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.

Hands-on Workshops
The participants of Hands-on Workshops can follow live demonstrations of interventional techniques and practice certain procedures under the guidance of a technician and/or instructor.

Hot Topic Symposia
The Hot Topic Symposia aim 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 these sessions will be a round table discussion involving the speakers and the audience.

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.

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

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.

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

Workshops
During Workshops you will have the chance to learn from your colleagues’ expertise in an informal, interactive manner. Workshops will entail individual cases and discussion points with regard to the particular interventional topic. Attendees can contribute their opinions and ask questions in small groups.
CIRSE Opening and Awards Ceremony

Saturday, September 13
14:30-16:00, Main Auditorium

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

Welcome Addresses

CVIR Editor’s Medal Award

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

Distinguished Fellow: M.D. Dake (Stanford, CA/US)
Laudation: R.A. Morgan (London/UK)

Distinguished Fellow: J.G. Moss (Glasgow/UK)
Laudation: J.A. Reekers (Amsterdam/NL)

Distinguished Fellow: D. Siablis (Patras/GR)
Laudation: A. Adam (London/UK)

Gold Medal: J.H. Peregrin (Prague/CZ)
Laudation: D. Vorwerk (Ingolstadt/DE)

Reel Time Band

This energetic, lively band performs contemporary Scottish folk rock, smoothly blending the old with the new. Featuring both bagpipes and an electric guitar, the Reel Time Band plays traditional Scottish folk music with a funky twist, catapulting Celtic classics into the 21st century. Fans of both popular music and traditional ceilidh music will be dazzled by this creative fusion.

The band has performed at a wide range of functions all over Europe, bringing their unique sound to audiences from Athens to Frankfurt. In Scotland, the musicians appear regularly at festivals and a variety of other celebrations, including the prestigious Burns Night at Stirling Castle and the international press launch of the hit Disney/Pixar movie Brave. Performances often include boisterous – and immensely popular – lessons in traditional Scottish ceilidh dance.

The unique sounds of these highly regarded musicians will bring both energy and elegance to this year’s Opening and Awards Ceremony, and with their dancers joining them onstage for the grand finale, this will undoubtedly be a Scottish experience to remember!
The new Fundamental Courses focus on the basic principles of specific areas of interventional radiology, illustrating the procedure step by step. They are designed for newly qualified IRs, radiologists who are still completing their fellowships, IRs who wish to expand their practice into new areas, or those who simply wish to refresh their knowledge on the subject. Questions and discussions are strongly encouraged. Each session lasts one hour. This year, the courses will cover a number of topics from the “Vascular Interventions” and “Interventional Oncology” tracks.

**The Essentials of Vascular Interventions**

**Saturday, September 13**

**08:30-09:30, Main Auditorium**

**FC 101 Basic principles of carotid artery intervention**

*Moderator: D. Vorwerk (Ingolstadt/DE)*

101.1 Indications for carotid artery stenting – patient triage
*T.J. Cleveland (Sheffield/UK)*

101.2 How to perform a typical carotid artery stenting procedure
*F. Fanelli (Rome/IT)*

101.3 Tips and tricks for difficult carotid artery stenting procedures
*M. Szczerbo-Trojanowska (Lublin/PL)*

101.4 Managing procedural complications
*E. Brountzos (Athens/GR)*

**10:00-11:00, Main Auditorium**

**FC 201 Basic principles of renal artery intervention**

*Moderator: M. Szczerbo-Trojanowska (Lublin/PL)*

201.1 Current indications for renal percutaneous transluminal angioplasty/stenting
*J.G. Moss (Glasgow/UK)*

201.2 Technique – the typical renal artery percutaneous transluminal angioplasty/stenting procedure
*J.H. Peregrin (Prague/CZ)*

201.3 Current evidence and indications for renal denervation
*M.R. Sapoval (Paris/FR)*

201.4 Technique – renal denervation
*J.A. Reekers (Amsterdam/NL)*

**Monday, September 15**

**08:30-09:30, Main Auditorium**

**FC 1701 Basic principles of aorto-iliac disease treatment**

*Moderator: T. Rand (Vienna/AT)*

1701.1 Treatment triage: which patients are eligible candidates?
*I. Robertson (Glasgow/UK)*

1701.2 Technique – lesions at the aortic bifurcation
*D.K. Tsetis (Iraklion/GR)*

1701.3 Technique – aortic and iliac artery stenoses
*T. Jahnke (Neumünster/DE)*

1701.4 Recanalising the acute and chronic aorto-iliac occlusion
*S.D. Qanadli (Lausanne/CH)*

**10:00-11:00, Main Auditorium**

**FC 1801 Basic principles of femoro-popliteal disease treatment**

*Moderator: R.W. Günther (Aachen/DE)*

1801.1 Treatment triage: which patients are suitable candidates?
*J.-P. Beregi (Nîmes/FR)*

1801.2 Technique – treating TASC A-D lesions
*S. Müller-Hülsbeck (Flensburg/DE)*

1801.3 Role of drug-eluting stents/balloons in the SFA and popliteal artery
*T. Rand (Vienna/AT)*

1801.4 Patient follow-up and indications for re-intervention
*J. Lammer (Vienna/AT)*
The Essentials of Interventional Oncology

**Sunday, September 14**

FC 901 Basic principles of early-stage HCC management

 fun=K. Malagari (Athens/GR)

- 901.1 Diagnostic criteria and staging work-up  
  V. Vilgrain (Clichy/FR)
- 901.2 Role of surgery: resection and transplantation H. Z. Malik (Liverpool/UK)
- 901.3 Radiofrequency ablation: results and complications  
  R. Lencioni (Pisa/IT)
- 901.4 Emerging ablation techniques  
  P.L. Pereira (Heilbronn/DE)

10:00-11:00, Auditorium 2

FC 1001 Basic principles of intermediate-advanced HCC management

Moderator: R. Lencioni (Pisa/IT)

- 1001.1 Clinical management of the intermediate-advanced HCC patient  
  J.-L. Raoul (Marseille/FR)
- 1001.2 Conventional chemoembolisation  
  T. de Baere (Villejuif/FR)
- 1001.3 Chemoembolisation with drug-eluting beads  
  J.-F.H. Geschwind (Baltimore, MD/US)
- 1001.4 Radioembolisation  
  J.I. Bilbao (Pamplona/ES)

**Tuesday, September 16**

FC 2501 Basic principles of renal cancer management

Moderator: X. Buy (Bordeaux/FR)

- 2501.1 Triage of the small renal cancer patient  
  J. Tacke (Passau/DE)
- 2501.2 Ablation: results and complications  
  D.J. Breen (Southampton/UK)
- 2501.3 Surgery: results and complications  
  M. Sullivan (Oxford/UK)
- 2501.4 Patient follow-up and imaging  
  J. Garnon (Strasbourg/FR)

10:00-11:00, Auditorium 4

FC 2601 Basic principles of hepatic colorectal metastases management

Moderator: A. Denys (Lausanne/CH)

- 2601.1 Triage of the metastatic colorectal patient for local treatment  
  G.J. Poston (Liverpool/UK)
- 2601.2 Ablation: results and complications  
  T.F. Jakobs (Munich/DE)
- 2601.3 Intra-arterial chemotherapy: results and complications  
  O. Pellerin (Paris/FR)
- 2601.4 Radioembolisation: results and complications  
  R. Salem (Chicago, IL/US)
The Hot Topic Symposia create a space to address some of the most controversial issues in current IR practice. This year, one such session will be dedicated to the discussion of deep vein thrombosis and pulmonary embolism, asking whether the latest IR techniques for treating these dangerous conditions have led to a rethinking of best clinical practice.

Examining this difficult question will be four of the foremost experts in endovascular treatment of blood clots, who will discuss different aspects of modern practice before taking part in a round-table discussion inviting questions from the audience.

Treatment of DVT and PE: paradigm shift?

What is certain is that DVT and pulmonary embolism represent a serious challenge for modern healthcare provision. Modern lifestyles embrace activities that increase the risks, such as use of oral contraceptives, smoking, long-haul flights, sedentary lifestyles and obesity.

Despite being a vascular condition, DVT and PE present across a broad range of patient groups, including those with no underlying morbidity, and those suffering from seemingly unrelated complaints, such as cancer patients. In such patients, the altered blood chemistry and need for bed rest increases their risk of blood clots dramatically, with approximately 5-10% of cancer patients affected. Thus, management of blood clots is an essential skill for all IRs, even those whose caseloads are predominantly non-vascular.

Currently, roughly 200,000 new cases of DVT are diagnosed each year in the USA (which has a comparable population size to Europe). What is most notable is that it affects both young and old, healthy and unwell, with devastating results: venous thromboembolism is the third biggest cause of cardiovascular mortality after stroke and heart attack.

Post-thrombotic syndrome

More common still is post-thrombotic syndrome (with estimates ranging from 20-70% of DVT patients, depending on the source). This condition arises when the clot is left in place, increasing pressure within the vein and leading to pain, swelling, cramping and skin discolouration. Symptoms can occur up to two years following DVT, and PTS can progress to painful and difficult-to-treat ulcers in 5-10% of DVT patients. Several long-term studies have shown that PTS entails notable medical costs and a marked loss of ability to perform everyday activities, such as standing or working.

Since the 1950s, anticoagulants and bed rest have been widely used to treat DVT. But this treatment fails to prevent post-thrombotic syndrome in more than 70% of ilio-femoral DVTs, and more sophisticated treatment techniques are clearly called for.
The role of IR

A number of image-guided techniques exist for managing DVT and pulmonary embolism, but in the absence of level 1 evidence, it is still unclear which treatment methods are best employed – nor is it fully clear how to correctly select patients for the appropriate therapy.

Acute pulmonary embolism is a major medical emergency, with non-treatment resulting in a mortality rate of approximately 30%. Treatment begins with haemodynamic support for hypotensive patients and administration of anticoagulants, but additional therapies are often called for, such as thrombolytic drugs or embolectomy. These therapies can be delivered under image-guidance, and the possible benefits of doing so will be discussed by Nils Kucher (Bern/CH) in Emerging therapies for pulmonary embolism, who will also examine the role of IVC filter placement.

However, preventative therapies are preferred, where possible, and the three remaining speakers will examine the various treatment options for treating deep vein thrombosis itself, including catheter-directed thrombolysis, thrombectomy, angioplasty and stenting. The latest evidence will be presented by Stephen Kee (Los Angeles, CA/US) in Aggressive treatment of deep vein thrombosis: what the trials have taught us, while Ken Thomson (Melbourne/AU) will closely examine Catheter-directed thrombolysis for DVT: tips, tricks and pitfalls. Finally, session moderator Gerard O’Sullivan (Galway/IE) will discuss the range of thrombectomy devices available in Single session therapy for DVT: devices and patient selection.

These therapies can greatly reduce the devastating impact of DVT and venous thromboembolism, and this Hot Topic Symposium will be the ideal opportunity to learn about the supportive evidence that is emerging and how this information can improve treatment paradigms.

Sunday, September 14, 15:00-16:00, Main Auditorium

HTS 1302 Treatment of DVT and PE: paradigm shift?

Moderators: A.-M. Belli (London/UK), G.J. O’Sullivan (Galway/IE)

1302.1 Emerging therapies for pulmonary embolism
N. Kucher (Bern/CH)

1302.2 Aggressive treatment of deep vein thrombosis: what the trials have taught us
S. Kee (Los Angeles, CA/US)

1302.3 Catheter-directed thrombolysis for DVT: tips, tricks and pitfalls
K.R. Thomson (Melbourne/AU)

1302.4 Single session therapy for DVT: devices and patient selection
G.J. O’Sullivan (Galway/IE)
HOT TOPIC SYMPOSIUM: HIFU

CIRSE’s Hot Topic Symposia are a discussion forum for the most hotly debated issues in current IR practice. One such issue to be tackled at CIRSE 2014 is the role of high-intensity focused ultrasound, and whether it may have benefits beyond those offered by more established ablation modalities. Four invited experts will examine MR-guided HIFU from a variety of clinical perspectives, before taking part in a round-table discussion moderated by Scientific Programme Deputy Chairperson, Christoph Binkert.

HIFU: Just another IR modality?
The necrosis-inducing properties of focused ultrasound have been understood for decades, but it was only recently that it was paired with a suitable image-guidance modality that could provide real-time thermal feedback. New generation MR and ultrasound devices provided this opportunity, and researchers have been eagerly investigating the clinical possibilities.

Currently, MRgHIFU is approved for the treatment of uterine fibroids in Europe, the US, Canada, Asia and Australia. Further research is being conducted on other indications, with clinical trials evaluating HIFU’s role in cancers of the liver, breast, brain, pancreas, bone and prostate.

The possible advantages
While other thermal ablation modalities rely on percutaneous probe insertion, the unique characteristic of HIFU is its non-invasiveness. As acoustic waves pass through tissue, some of that energy is absorbed and converted to heat. By focusing multiple beams on a tiny area, temperatures can be achieved that induce tissue necrosis, allowing benign and malignant growths to be ablated without puncturing the patient’s skin.

This raises interesting clinical possibilities: if proved to be safe and effective, a non-invasive therapy could revolutionise medicine. Not only would it be preferable to both surgical and percutaneous alternatives, it would also broaden the clinical indications for treatment to those currently precluded from these therapies. These are exciting possibilities – but whether they are feasible remains to be seen.

The mechanisms
At the focal spot, a number of phenomena occur: heating, cavitation and coagulation necrosis. Investigating and understanding these mechanisms has allowed doctors to expand the possible applications of HIFU. While cavitation-induced tissue damage was originally avoided due to its unpredictable nature, it is now thought that this can be harnessed to enhance the efficacy of ablation. Other research is being conducted into the use of sub-lethal ultrasound energy for targeted drug delivery, using it to deploy heat-sensitive liposome carriers in the vicinity of the tumour.

While these investigations are at an early stage, current evidence does show that for a number of clinical applications, HIFU appears to be a safe therapy that does not rule out other treatment options, and achieves best results in small tumours (in terms of both clinical benefits and costs).
Novel investigations
While the idea of a non-invasive ablation modality is hugely attractive, evidence for its use is still in its infancy. However, early studies are promising, and it has shown a survival benefit in pancreatic cancer patients — a patient group that suffers the highest case-fatality rate of all cancers, due to the typical late diagnoses and the limited eligibility for surgical resection.

Breast interventions are another area of significant interest, with promising early results. Other research teams are looking to improve HIFU’s efficacy in the liver, by devising a model for respiratory motion compensation, to allow the maximum thermal dose to be deployed to the tumour while preserving adjacent healthy tissue. Yet other groups are devising ways to overcome the typical limitations of HIFU — long treatment times and beam distortion caused by patient habitus.

Consulting the experts
While many of these investigations are being conducted on the use of US-guided HIFU, with the use of contrast-enhanced ultrasound garnering particular interest, this Hot Topic Symposium will be devoted to MR-guided HIFU, and the current status of investigations.

Opening the session will be Andreas Melzer (Dundee/UK), who will guide the audience through *Principles of MR-HIFU: what an IR should know*. Narrowing the focus still further, Matthias Matzko (Dachau/DE) will discuss its use in treating uterine fibroids, and how patients can be best selected for treatment. Alessandro Napoli (Rome/IT) will examine another clinical application, MRgHIFU for painful bone lesions, and whether its role is palliative or potentially curative. Finally, the possibility for non-invasive treatment of prostate cancer will be expanded upon by Rajiv Chopra (Dallas, TX/US), who will ask if the transurethral approach is a safe and viable option. The session will conclude with a round-table discussion led by SPC Deputy Chairperson Christoph Binkert (Winterthur/CH), during which questions from the audience will be taken.

Tuesday, September 16, 15:00-16:00, Main Auditorium

**HTS 2902 HIFU: Just another IR modality?**

*Moderators: A.-M. Belli (London/UK), C.A. Binkert (Winterthur/CH)*

2902.1  *Principles of MR-HIFU: what an IR should know*  
A. Melzer (Dundee/UK)

2902.2  MR-HIFU for uterine fibroids: which patients should be treated?  
M. Matzko (Dachau/DE)

2902.3  MR-HIFU for painful bone lesions: palliation or more?  
A. Napoli (Rome/IT)

2902.4  MR-HIFU for prostate: is the transurethral approach the right one?  
R. Chopra (Dallas, TX/US)
IN THE SPOTLIGHT

CIRSE CONSIDERS THE EVIDENCE

The Evidence Fora allow interventional radiologists to keep pace with the latest developments in the treatment of select conditions. Experts present the most up-to-date research on a particular treatment option, using trials and evidence to support their case. This equips the audience with clear and rigorous information, enabling them to judge what therapy is suitable for their patients, and obtain valuable insights into how the field is progressing.

Among the topics this year are abdominal and thoracic aortic treatments, with presentations and discussions addressing whether practitioners have sufficiently scrutinised the drawbacks and benefits of recent breakthroughs in the field.

Evidence Forum: Abdominal Aorta

The variety of currently available devices is impressive, and recent improvements resolve some of the most criticised aspects of EVAR. The chimney technique, which involves placing a stent or stent-graft parallel to the main aortic stent-graft, uses standard aortic stent-grafts, and so avoids delays inherent in relying on customised stent-grafts. Branched grafts have been praised for involving low mortality, but have also been criticised for their cost and questionable long-term efficiency.

Iliac-branched devices also continue to evolve, with newer, more complex versions including side-branches necessitating a cross-over catheterisation and use of a stent-graft to bridge the gap between the internal iliac artery and the iliac branch, entailing a delicate balancing act of multiple factors.

Endovascular aneurysm sealing may help tip the scales in favour of endovascular repair. Hailed as a potential game-changer for AAA treatment, technological breakthroughs promise to simplify the procedure, broaden applicability, and make it possible to achieve durability with minimal follow-up intervention.

Keeping pace with these developments requires confronting the multiple costs and benefits they involve, including with respect to particular patient groups, as well as differentiating between when the techniques are merely possible and available and when they are appropriate and necessary.

Tuesday, September 16, 08:30-09:30, Main Auditorium

SS 2503 Abdominal aorta – Evidence forum
Moderators: R.A. Morgan (London/UK), B.F. Stainken (Providence, RI/US)

2503.1 Fenestrated versus chimney EVAR for pararenal aortic aneurysms
E. Verhoeven (Nuremberg/DE)

2503.2 Iliac sidebranch graft for aorto-iliac aneurysms
L.B. Lönn (Copenhagen/DK)

2503.3 Trials update for planned and emergency EVAR
R.G. McWilliams (Liverpool/UK)

2503.4 Endovascular aneurysm sealing (EVAS)
O. Pellerin (Paris/FR)

Image courtesy of Dr. Richard McWilliams
Thoracic and Abdominal Aortic Treatments

EVAR was initially hailed as a potentially revolutionary treatment for aortic aneurysms, with many hoping that the minimally invasive procedure would result in reduced morbidity and mortality compared with open surgical repair. But these bright expectations were not realised.

The complex, individually-tailored stent grafts devised for the treatments are expensive, hard to deploy, and prone to both damage and displacement. The need for re-intervention remains a costly problem. New devices and techniques addressing these flaws are being developed at a dizzying pace, and while such progress is welcome, there is a risk that these innovations are being enthusiastically embraced without their benefits and drawbacks having been sufficiently scrutinised. These sessions will take a dispassionate look at the evidence available, providing some much needed clarity.

Evidence forum: Thoracic Aorta

With specialists increasingly using endovascular stent grafts to treat thoracic aortic aneurysms, developments in TEVAR also warrant a closer look. The procedure is rapidly evolving, and new insights into indications and advances in imaging technology are adding to the many issues that specialists need to consider.

Despite considerable progress, serious risks persist. Aortic dissection remains a potential complication, and TEVAR-induced risks still include serious neurologic complications such as paraplegia or paraparesis, intracranial stroke, and spinal cord ischaemia. It is vital for practitioners to be aware of the relevant risk factors, as well as of adjunctive procedures available to reduce some of the risks for select patients, and of relevant treatment options for complications that nonetheless occur.

In the meantime, TEVAR shows particular promise for patients with connective tissue diseases such as Marfan syndrome, who are at especially high risk of dying during open surgery. However, using the procedure on such patients comes with important limitations and risks of its own. The session will impart an overview of the evidence by experts in the field, followed by a panel discussion and an opportunity for the audience to pose questions.

Image courtesy of Dr. Olivier Pellerin

Tuesday, September 16, 10:00-11:00, Main Auditorium

SS 2603 Thoracic aorta – Evidence forum

Moderators: F. Fanelli (Rome/IT), J. Hardman (Bath/UK)

2603.1 TEVAR for thoracic aortic aneurysm and aortic dissection
M.A. Funovics (Vienna/AT)

2603.2 TEVAR for aortic trauma and Marfan syndrome
T. Pfammatter (Zurich/CH)

2603.3 TEVAR induced neurologic and vascular complications
A. Chavan (Oldenburg/DE)

2603.4 Total aortic arch aneurysm exclusion
R.A. Morgan (London/UK)
IN THE SPOTLIGHT

CONTROVERSIES IN IR: SFA AND BTK

As always, this year’s Controversy Sessions provide a forum for spirited discussions on controversial issues that divide the IR community. Featuring three sets of cutting-edge debates each, these sessions will push practitioners to re-think their presumptions by confronting them with the best arguments both for and against particular aspects of superficial femoral artery revascularisation and below-the-knee interventions. The programme also gives a voice to the audience, with the moderator relying on hand-held e-voting devices to gauge its views both immediately before and after the debates.

SFA – what devices deliver best results?

Revascularisation of the superficial femoral artery in peripheral arterial disease offers great potential in reducing morbidity and restoring patients’ quality of life. However, practitioners disagree as to what exact methods yield the best short- and long-term results. Specifically, some interventional radiologists insist that standard percutaneous transluminal angioplasty continues to represent the best option for treating SFA. Others maintain that drug-eluting stents produce better outcomes five years after the procedure.

Similarly, many physicians agree that drug-eluting balloons can be appropriate, but disagree as to whether these are a wise choice in cases involving highly-calcified or longer lesions. Finally, bioabsorbable stents, made of resorbable polymers or metals with or without antiproliferative drug elution, are heralded by some as offering all the advantages and none of the complications of conventional stents, while others caution against what they view as premature exuberance about this new technology.

Saturday, September 13, 11:30-12:30, Main Auditorium

SS 301 Controversies in SFA treatment

Moderator: J. Lammer (Vienna/AT)

301.1 Drug-eluting stents will show better 5-year patency rates than PTA: Pro
K. N. Katsanos (London/UK)

301.2 Drug-eluting stents will show better 5-year patency rates than PTA: Con
N. Chalmers (Manchester/UK)

301.3 Drug-eluting balloons in all SFA lesions: Pro
G. Tepe (Rosenheim/DE)

301.4 Drug-eluting balloons in all SFA lesions: Con
M. Katoh (Krefeld/DE)

301.5 Bioabsorbable stents have a future: Pro
A. Holden (Auckland/NZ)

301.6 Bioabsorbable stents have a future: Con
T. W. I. Clark (Philadelphia, PA/US)
BTK – are new approaches being embraced too quickly?

Over the past 50 years, interventional radiologists have continuously refined below-the-knee interventions, which have become ever more vital in light of longer life-expectancy and rising diabetes rates. But related technological advancements have triggered both progress and controversy. For example, proponents of distal embolic protection devices point out that they can reduce the risk of distal embolisation, a potentially devastating complication. Critics respond that, with quality evidence lacking, the devices themselves are capable of producing serious complications, and with cost a relevant factor, their use cannot be considered reasonable.

In the meantime, there is little doubt that the development of stents coated with anti-restenotic agents has dramatically changed available endovascular therapies. Some interventional radiologists are already convinced that they should be favoured over more traditional endovascular treatments in all short BTK lesions. However, others caution against what they see as a potentially overly-broad application of the technique, urging practitioners to devise more individualised treatment strategies. Finally, practitioners disagree about the extent to which direct source artery revascularisation, an approach based on the so-called angiosome concept, has contributed to progress made in lower extremity preservation. Viewers will benefit from vigorously-presented arguments from both sides of the spectrum.

Sunday, September 14, 10:00-11:00, Main Auditorium

SS 1003 Controversies in BTK treatment

Moderator: H.I. Manninen (Kuopio/FI)

1003.1 Distal embolic protection devices are reasonable: Pro
S. Müller-Hülsbeck (Flensburg/DE)
1003.2 Distal embolic protection devices are reasonable: Con
D.F. Ettles (Hull/UK)
1003.3 Drug-eluting stents in all short BTK lesions: Pro
H. van Overhagen (The Hague/NL)
1003.4 Drug-eluting stents in all short BTK lesions: Con
T. Rand (Vienna/AT)
1003.5 The angiosome concept: Pro
M. Brodmann (Graz/AT)
1003.6 The angiosome concept: Con
K.A. Hausegger (Klagenfurt/AT)
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Interventional radiology has a long history in Israel, and has been in use since the very early days of the specialty, developing in step with the discipline’s blossoming in the USA and Europe.

This academic kinship is long-standing: the late Prof. Alex Rosenberger, one of Israel’s most respected IR pioneers, was one of the founding fathers of CIRSE, as well as being President of the 1986 CIRSE Annual Meeting in Jerusalem.

Established 10 years ago, the Israeli Society of Interventional Radiology (ILSIR) consists of over 55 active members who practice in all fields of IR. These members are spread amongst 21 recognised IR units throughout Israel. About a third of ILSIR members are fellowship trained in the USA, Canada or the UK, and in 2013, a dedicated fellowship in IR was founded.

Several years ago, ILSIR joined the CIRSE family of national societies, and was formally invited by the CIRSE Executive Committee to participate in a CIRSE meets Israel session at CIRSE 2014 in Glasgow. This session will showcase some of the most interesting IR research currently being conducted in Israel – as a country that is known for its start-up companies and technical prestige, it comes as no surprise that this session will be devoted to innovations in IR.

Gabriel Bartal
President, Israeli Society of Interventional Radiology (ILSIR)

The CIRSE meets… programme has 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 countries.
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
Co-ordinators: S. Müller-Hülsbeck (Flensburg/DE), R. Uberoi (Oxford/UK)

Vascular closure devices (VCDs) are commonly utilised to manage arterial puncture sites after therapeutic arterial interventions.

This hands-on workshop will introduce and discuss VCDs currently available on the market in a comprehensive and balanced manner, including indications for use, optimal technique and contraindications, as well as potential complications and their management. Furthermore, many tips and tricks for the proper use of closure devices during daily practice will be shared during the hands-on component. The course will be concluded with a dedicated tutorial of the “preclose” technique for closing large arterial punctures for total percutaneous aortic repair.

Thanks to the opportunity to try currently available closure devices first-hand, all participants should be able to understand their various principles and indications by the end of the workshop.

Learning objectives
– To become familiar with the currently available vascular closure devices for peripheral and aortic interventions
– To understand when and how to successfully use a vascular closure device
– To know when not to use a vascular closure device and how to avoid complications
– To gain experience with the “preclose” technique required for total percutaneous treatment of aortic aneurysms

CD-HoW 1
Saturday, September 13
11:15-12:45

Instructors: S. Anthony (Oxford/UK), L. Marques (Flensburg/DE), J.P. Schäfer (Kiel/DE)

Location
HoW Room 1

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
• Abbott Vascular
• Cordis, a Johnson & Johnson Medical Company
• St. Jude Medical
Embolisation: materials and tools
Co-ordinators: A. Martínez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)

This series of hands-on workshops provides an overview of current embolisation materials and techniques.

In each workshop session a brief introduction is followed by participants rotating between 4-6 tabletop demonstrations. The workshops may be attended as a series or individually. Participants will engage informally with instructors and try out various embolic materials on anatomical and flow models. The emphasis of the sessions is a hands-on practical approach. Participants can handle and/or deliver embolisation with mechanical, liquid or particulate embolic agents (according to the session). This course is intended for those with limited experience with embolisation or those wishing to refresh their knowledge.

Learning objectives
- To understand the basic principle of embolisation
- To become familiar with common embolic agents
- To be able to choose an appropriate embolic agent
- To know how to correctly prepare and deliver the chosen agent
- To understand how to avoid non-target embolisation and other complications

EMT-HoW 1  Saturday, September 13
Coils & plugs  11:15-12:45

EMT-HoW 2  Saturday, September 13
Coils & plugs  16:00-17:30

Instructors: T.J. Cleveland (Sheffield/UK), F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU), H.I. Manninen (Kuopio/ FI), M. Treitl (Munich/DE), S.B. White (Milwaukee, WI/US)

EMT-HoW 3  Saturday, September 14
Liquid agents  11:15-12:45

EMT-HoW 4  Saturday, September 14
Liquid agents  16:00-17:30


EMT-HoW 5  Sunday, September 15
Particulate agents  16:00-17:30

Instructors: L. Brody (New York, NY/US), R. Lopez-Benitez (Bern/CH), S. McPherson (Leeds/UK), I. Wilson (Southampton/UK), S. Zangos (Frankfurt/DE)

Location
HoW Room 2

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
- Boston Scientific
- Cook Medical
- Covidien
- GEM S.r.l.
- Penumbra
- PharmaCept
- Sirtex
- St. Jude Medical
- Terumo Europe
IVC filters are widely used across Europe. All feature technical advantages and drawbacks that make them more or less difficult to retrieve or convert.

The workshop will start with a 10-minute introduction focused 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 and conversion.

Learning objectives
- To understand the basic technical features of IVC filters and be able to choose an appropriate device
- To practise the step-by-step technique for implantation and removal
- To learn technical tips and tricks
This popular series of workshops comprises a one-hour round-table discussion with experts in the field, delivering key knowledge and practical tips, followed by one hour of hands-on experience using high-fidelity simulators.

Each session is aimed at delegates with a specific level of experience (core, intermediate or advanced). The round-table discussions are themed around learning objectives which relate to a specific clinical or procedural topic.

The delivery of each session is flexible to respond to delegates’ interests, and emphasis is placed on small group teaching allowing close interaction with the expert faculty. Equipment and devices will be available to demonstrate deployment technique.

**PTP-HoW 1**
**Saturday, September 13**
Basic principles of EVAR deployment

*Session organiser: R.G. McWilliams (Liverpool/UK)*
*Instructors: M. de Haan (Maastricht/NL), F. Pozzi-Mucelli (Trieste/IT), U. Shaikh (Liverpool/UK), G. Soulez (Montreal/CA)*

**Learning objectives**
- To be able to identify cases suitable for EVAR
- To learn how to properly plan an EVAR procedure
- To learn how to optimise device deployment
- To learn how to successfully catheterise the contralateral limb
- To learn how to manage completion endoleaks
- To perform a bifurcated EVAR procedure on a simulator

**PTP-HoW 2**
**Sunday, September 14**
The role of endovascular treatment in the diabetic foot

*Session organiser: M.G. Manzi (Abano Terme/IT)*
*Instructors: M. di Primio (Paris/FR), R. Gandini (Rome/IT), P.E. Huppert (Darmstadt/DE), L. Palena (Abano Terme/IT)*

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

**PTP-HoW 3**
**Monday, September 15**
Diagnosis and treatment of acute aortic syndromes

*Session organisers: T.J. Cleveland (Sheffield/UK), M.S. Hamady (London/UK)*
*Instructors: N. Burfitt (London/UK), D. Ettles (Hull/UK), N. Karunanithy (London/UK), S. McPherson (Leeds/UK)*

**Learning objectives**
- To learn how to diagnose and classify acute aortic syndromes
- To learn how to recognise and avoid diagnostic pitfalls
- To understand the medical management of acute aortic syndromes
- To learn when to intervene in acute aortic syndromes
- To learn technical tips and tricks to minimize the risk of intra-procedural complications
- To learn how to properly follow up with patients suffering from acute aortic syndromes

**PTP-HoW 4**
**Tuesday, September 16**
Basic principles of peripheral arterial intervention

*Session organiser: S. Chakraverty (Dundee/UK)*
*Instructors: J. Atchley (Portsmouth/UK), R. Bhat (Dundee/UK), S. Ingram (Edinburgh/UK), R. Miles (Plymouth/UK)*

**Learning objectives**
- To learn the optimal approach for peripheral arterial interventions
- To understand which catheters and wire combinations are likely to be effective
- To become familiar with techniques for crossing arterial stenoses
- To become familiar with techniques for crossing arterial occlusions
- To perform peripheral arterial angioplasty / stenting on a simulator

**Location**
Simulator Gallery

*Please note that participants need to register in advance at an extra cost of €75.*

This Hands-on Workshop is kindly supported by:
- Mentice
- Simbionix
Renal denervation

Co-ordinators: F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU)

Transcatheter renal denervation is a therapy for patients with treatment-resistant hypertension, a condition that leads to a higher risk of major cardiovascular events.

In this workshop an overview of sympathetic nervous system anatomy, physiology and physiopathology will be followed by a description of the technical aspects of renal denervation. During the hands-on part of the course, participants will learn how to use currently available devices in order to become familiar with the procedure and be able to compare their characteristics. Experienced tutors will be present in an informal setting to discuss technical tips and tricks, getting you ready to start your renal denervation practice.

Learning objectives
– To understand treatment-resistant hypertension and its relationship with the sympathetic nervous system
– To understand the principles of patient selection
– To learn how to start a renal denervation practice
– To understand the technical aspects of renal denervation
– To be familiar with the principles and handling of a variety of devices
– To receive the latest research data

RD-HoW 1  Sunday, September 14
17:00-18:30

Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

RD-HoW 2  Monday, September 15
11:15-12:45

Instructors: J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), A. Schmid (Erlangen/DE), E.-J. Vonken (Utrecht/NL)

RD-HoW 3  Monday, September 15
17:00-18:30

Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

RD-HoW 4  Tuesday, September 16
11:15-12:45

Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

Location
HoW Room 1

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
• Boston Scientific
• Cordis, a Johnson & Johnson Medical Company
• Medtronic RDN
• ReCor Medical
• St. Jude Medical
Stroke therapy
Co-ordinators: H. van Overhagen (The Hague/NL), J. Weber (St. Gallen/CH)

An increasing number of interventional radiologists are involved in intra-arterial therapy for acute cerebral stroke. There is increasing evidence that urgent restoration of cerebral circulation by mechanical thrombectomy is one of the most important factors determining the fate of patients with acute ischaemic stroke.

In 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-known experts in the field.

Learning objectives
– To introduce the principles of mechanical thrombectomy in patients with embolic stroke
– To get to a standardised technique in a step-by-step manner
– To become familiar with four typical devices and their handling
– To get an impression of how it works from training with the flow model
– To discuss technical and clinical problems

ST-HoW 1
Saturday, September 13
13:00-14:30
Instructors: J. Gerber (Dresden/DE), W. Kurre (Stuttgart/DE), J.A. Vos (Nieuwegein/NL)

ST-HoW 2
Sunday, September 14
13:00-14:30
Instructors: J. Gerber (Dresden/DE), W. Kurre (Stuttgart/DE), J.A. Vos (Nieuwegein/NL)

Location
HoW Room 4

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
• Covidien
• Penumbra
• phenox
**Hands-on Workshops**

**Main Programme**

**Hands-on Workshops**

**Tumour ablation: tips and tricks**
Co-ordinators: T.K. Helmberger (Munich/DE), A.D. Kelekis (Athens/GR)

The hands-on workshop on tumour ablation provides five sessions which include introductory interactive case discussions and practical training in the basic principles of all currently available ablation systems. The case discussions will highlight indications and contraindications, as well as complications and ways to avoid or minimise them.

Participants will then have the opportunity to get familiar with the equipment and the procedure itself, to practice ablation using various systems under the guidance of international ablation experts and to perform ultrasound-guided ablation on in vitro models.

By the end of the workshop participants, even those with little or no experience in tumour ablation, will be familiar with a range of ablation techniques and be aware of tips and tricks for safe and efficacious clinical application.

**TA-HoW 1**
Liver
13:00-14:30
Instructors: D.K. Filippidis (Athens/GR), P.L. Pereira (Heilbronn/DE), V. Valek (Brno/CZ)

**TA-HoW 2**
Liver
16:00-17:30
Instructors: L. Crocetti (Pisa/IT), S. Roy-Choudhury (Birmingham/UK), C.T. Sofocleous (New York, NY/US)

**TA-HoW 3**
Thyroid gland
13:00-14:30
Instructors: J.H. Baek (Seoul/KR), C. Rountas (Larissa/GR), F. Stacul (Trieste/IT)

**Learning objectives:**
- To understand the most appropriate indications for thyroid gland ablation according to present guidelines
- To understand how to avoid or minimise the most commonly encountered complications
- To be aware of tips and tricks for safe and efficacious clinical application
- To become familiar with ultrasound-guided thyroid ablation

**TA-HoW 4**
Monday, September 15
Bone and soft tissue
13:00-14:30
Instructors: S. Marcia (Cagliari/IT), C. Trumm (Munich/DE), G. Tsoumakidou (Strasbourg/FR)

**Learning objectives**
- To understand the most appropriate indications for bone tumour ablation according to present guidelines and to know how to choose the right ablation technique for each lesion
- To understand the contraindications for local bone ablation techniques
- To understand how to enhance the efficacy of a specific ablation technique by adjuvant techniques and how to avoid or minimise the most commonly encountered complications
- To become familiar with ultrasound-guided soft tissue ablation

**TA-HoW 5**
Tuesday, September 16
Kidney
13:00-14:30
Instructors: G. Carrafiello (Varese/IT), C.S. Georgiades (Nicosia/CY), S.M. Tutton (Milwaukee, WI/US)

**Learning objectives**
- To understand the most appropriate indications for renal tumour ablation according to present guidelines and to know how to choose the right ablation technique for each lesion
- To understand how to enhance the efficacy of a specific ablation technique by adjuvant techniques and how to avoid or minimise the most commonly encountered complications
- To become familiar with ultrasound-guided renal ablation

**Location**
HoW Room 3

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
- AngioDynamics
- Boston Scientific
- Covidien
- Galil Medical
- GE Healthcare
- HS Hospital Service S.p.A.
- NeuWave Medical
- Olympus Surgical Technologies Europe
- RF Medical Co., Ltd.
- Siemens Ultrasound
- STARmed
- Terumo Europe
Varicose veins
Co-ordinators: J.A. Brookes (London/UK), K.D. McBride (Dunfermline/UK)

Endovenous treatment of symptomatic varicose veins has become more and more accepted throughout Europe. IRs are well suited to perform these therapies as they have the required skills, but unfortunately many are not yet familiar with the available techniques and devices.

This hands-on workshop gives an opportunity to gain familiarity with the most commonly used techniques and devices for endovenous therapy, including the handling of different fibres and probes and the corresponding generators. Participants will learn how to best access the vein with ultrasound guidance, how to apply tumescent anaesthesia and how to use the appropriate devices. In addition there will be the opportunity to gain insightful advice from expert users.

Learning objectives
– To learn about the different methods for endovenous treatment
– To obtain practical experience with different devices
– To receive hands-on training in ultrasound-guided venous access
– To learn the technique of tumescent anaesthesia

VV-HoW 1
Tuesday, September 16
11:15-12:45

Instructors: D. Carradice (Hull/UK), I. Franklin (London/UK), D. Greenstein (Harrow/UK), A. Komarek (Ried im Innkreis/AT), A. Milne (Kirkcaldy/UK), L. Oguzkurt (Adana/TR), A. Szabo (Budapest/HU)

VV-HoW 2
Tuesday, September 16
16:00-17:30

Instructors: D. Carradice (Hull/UK), I. Franklin (London/UK), D. Greenstein (Harrow/UK), A. Komarek (Ried im Innkreis/AT), A. Milne (Kirkcaldy/UK), L. Oguzkurt (Adana/TR), A. Szabo (Budapest/HU)

Location
HoW Room 2

Please note that participants need to register in advance at an extra cost of €75.

This Hands-on Workshop is kindly supported by:
• AngioDynamics
• Covidien
• F Care Systems
• Olympus Surgical Technologies Europe
• Siemens Ultrasound
• Vascular Insights
Certify your Expertise
in Interventional Radiology

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please visit our website at www.cirse.org/ebir

European Board of Interventional Radiology
c/o CIRSE
Neutorgasse 9, 1010 Vienna, Austria
ebir@cirse.org
www.cirse.org/ebir
Workshops for radiographers

Interventional radiology is very much a team effort. Optimal patient care can only be delivered if the physician and the other team members, such as radiographers, are well trained and highly professional in what they do.

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

Both EFRS workshops take place in Auditorium 5.

Sunday, September 14
11:30-12:30
RWS 1104 EFRS Workshop 1
Core team in interventional radiology: a way to optimise radiological procedures
1104.1 D. Pekarovič (Ljubljana/SI)
1104.2 M. Klavžar (Ljubljana/SI)

Co-authors: D. Kuhelj (Ljubljana/SI), U. Zdešar (Ljubljana/SI)

Learning objectives
After participating in this workshop, attendees will be familiar with:
• the role of different professions in interventional radiology (radiologist, radiographer, medical physicist and service engineer)
• common communication issues, as well as suggestions on how to avoid these
• how to set up a programme to ensure efficient patient management, including radiation safety for patients and staff
• practical examples of efficient workflow with emphasis on using team effort to optimise output

Monday, September 15
11:30-12:30
RWS 1904 EFRS Workshop 2
The current role of IR radiographers: an Irish perspective
1904.1 M. Maher (Dublin/IE)
1904.2 T. Herlihy (Dublin/IE)

Learning objectives
After participating in this workshop, attendees will be familiar with:
• the current role progression situation for IR radiographers in Ireland
• underlying reasons behind this system of role progression
• structuring plans required to facilitate radiographer role progression
• consequences of role progression – both positive and negative
• current changes in IR that could precipitate radiographer role progression in IR

A series of two workshops organised in co-operation with the
Workshops

Saturday, September 13

16:15-17:15

**WS 601** Varicose vein ablation: case-based discussion  
*F. Boyvat (Ankara/TR), D.J. West (Stoke-on-Trent/UK)*

1. To learn how to assess a patient with varicose veins
2. To learn how to approach multiple reflux areas
3. To learn how to combine different treatment techniques
4. To learn how to deal with difficult vein punctures

**WS 602** Complex supra-aortic interventions: case-based discussion  
*K. Mathias (Hamburg/DE), D. Vorwerk (Ingolstadt/DE)*

1. To learn how to plan a complex intervention (imaging)
2. To learn about the different access sites
3. To learn how to protect the brain
4. To learn how to combine interventional and surgical techniques

**WS 603** Gastro-intestinal bleeding: case-based discussion  
*A.N. Chatziioannou (Athens/GR), V. Vidal (Marseille/FR)*

1. To learn about work-up and patient selection for GI-embolisation
2. To learn techniques for embolisation of upper GI-haemorrhage
3. To learn techniques for embolisation of lower GI-haemorrhage
4. To learn about pitfalls and complications when embolising GI-haemorrhage

**WS 604** New approaches for AVM and AVF: lessons from neurointervention – case-based discussion  
*A.C. Januel (Toulouse/FR), L. Spelle (Paris/FR)*

1. To learn which lessons we have learned on brain pial AVM and dural AVF management
2. To learn the recent approaches in AVM and DAVF management
3. To understand the impact of recent tools on AVM and DAVF management
4. To understand the impact of recent approaches and concepts on AVM and DAVF management

**WS 605** Interventions in renal transplants: case-based discussion  
*M. Januszewicz (Warsaw/PL), U. Patel (London/UK)*

1. To describe indications for urinary intervention in transplant
2. To describe indications for vascular procedure in renal transplant
3. To present technical tricks in the transplant patient
4. To discuss potential complications and bail-out strategies

**WS 606** Advanced lung ablation: case-based discussion  
*J. Palussière (Bordeaux/FR), W. Prevoo (Amsterdam/NL)*

1. To present different ablation technology benefits and drawbacks
2. To explain what tumours are difficult to ablate
3. To describe complications and avoidance technique in lung ablation
4. To present specificity of follow-up imaging according to technology used
17:30-18:30

WS 701 Dialysis access interventions: case-based discussion  
S.P. D’Souza (Preston/UK), M. Roček (Prague/CZ)  
Auditorium 2  
1. To learn how to manage acutely thrombosed dialysis access  
2. To learn when to use covered stents  
3. To learn how to manage central vein occlusion  
4. To learn how to manage the non-maturated dialysis access

WS 702 Lines, catheters and ports: case-based discussion  
K.P. van Lienden (Amsterdam/NL), T.-E.G. Vrachliotis (Athens/GR)  
Auditorium 10  
1. To learn about relevant venous anatomy  
2. To learn the techniques of various intravenous access  
3. To compare various types of intravenous catheters, including high pressure resistant catheters  
4. To show cases representative for periprocedural complications and long-term failure

WS 703 Vascular malformation management: case-based discussion  
M. Köcher (Olomouc/CZ), I.J. McCafferty (Birmingham/UK)  
Auditorium 4  
1. To learn how to evaluate high-flow malformation before and after embolisation  
2. To learn how to embolise high-flow malformations  
3. To learn how to evaluate venous malformations before and after therapy  
4. To review complications of sclerotherapy and how to avoid them

WS 704 Flow modification techniques: lessons from neurointervention – case-based discussion  
J. Du Plessis (Edinburgh/UK), T. Liebig (Cologne/DE)  
Auditorium 9  
1. To learn how the flow modification concept has been developed in cerebral aneurysm treatment  
2. To learn about extrasaccular flow modification  
3. To learn about intrasaccular flow modification  
4. To understand the impact of flow modification techniques in cerebral aneurysm treatment

WS 705 Interventions after liver transplantation: case-based discussion  
M.C. Burgmans (Leiden/NL), J.B. Karani (London/UK)  
Auditorium 6  
1. To describe indications for biliary intervention in transplant  
2. To describe indications for portal vein intervention  
3. To present technical tricks in the transplant patient  
4. To discuss potential complications and bail-out strategies

WS 706 IR training and accreditation  
E. Brountzos (Athens/GR), M.J. Lee (Dublin/IE)  
Auditorium 8  
1. To learn about the structure of IR training programmes  
2. To learn about the CIRSE and SIR curricula  
3. To learn about accreditation systems for IR  
4. To learn about CME in IR
Sunday, September 14

16:15-17:15

**WS 1401 Chronic total occlusion interventions: case-based discussion**  
*M. Düx (Frankfurt/DE), T. Jargiello (Lublin/PL)*  
Auditorium 8

1. To describe standard techniques for crossing total occlusions  
2. To understand the use of re-entry devices to cross lesions  
3. To learn when to use high pressure balloons, stents, drug-eluting stents or balloons after crossing  
4. To learn how to manage complications

**WS 1402 Endoleak management: case-based discussion**  
*R. Iezzi (Rome/IT), R.G. McWilliams (Liverpool/UK)*  
Auditorium 3

1. To learn how to select the endoleak which needs management  
2. To learn the proper endovascular approach  
3. To learn the proper percutaneous approach  
4. To learn how to refer endoleaks to one of the two main options

**WS 1403 Trauma: case-based discussion**  
*M. Grosso (Cuneo/IT), F. Wolf (Vienna/AT)*  
Auditorium 4

1. To learn about imaging work-up and patient selection for IR  
2. To learn techniques for embolising solid organ trauma  
3. To learn techniques for embolising trauma of extremities and supra-aortic vessels  
4. To learn about pitfalls and complications of trauma embolisation

17:30-18:30

**WS 1404 New concepts and tools for acute stroke revascularisation: case-based discussion**  
*C.P. Stracke (Essen/DE), A.S. Turk (Charleston, SC/US)*  
Auditorium 7

1. To learn about new acute stroke treatment concepts  
2. To learn about new revascularisation tools  
3. To learn how and when we can use these recent tools in combination  
4. To learn the impact of recent tools and concepts on stroke treatment

**WS 1501 DVT treatment: case-based discussion**  
*G.J. O’Sullivan (Galway/IE), K.R. Thomson (Melbourne/AU)*  
Auditorium 2

1. To learn the indication: who, when and how  
2. To learn different access routes for endovascular treatment in specific situations  
3. To learn when to continue with thrombolysis, implant stent, or use mechanical thrombectomy  
4. To learn about complications of endovascular therapy

**WS 1502 IVC filters: case-based discussion**  
*M.-F. Giroux (Montreal/CA), R. Uberoi (Oxford/UK)*  
Auditorium 4

1. To learn about indications for placement and removal  
2. To learn about filter placement in the vena cava (including SVC)  
3. To learn how to cope with tilt at implantation  
4. To learn how to cope with difficult retrieval
WS 1503  **UFE: case-based discussion**  
P.N.M. Lohle (Tilburg/NL), A.M. Madureira (Porto/PT)

1. To learn how to select appropriate patients for UAE  
2. To learn about anatomical variants  
3. To learn about variation in technique according to anatomical variants  
4. To learn to recognise and manage complications

WS 1504  **Complicated portal hypertension management: case-based discussion**  
G.M. Richter (Stuttgart/DE), I.K. Tesdal (Friedrichshafen/DE)

1. To describe the technique and indications for TIPS  
2. To present the techniques and indications for RTBO  
3. To present technical tricks for successful access to liver vessels  
4. To discuss potential complications and bail-out strategies

**Monday, September 15**

16:15-17:15

WS 2201  **Complex lower limb interventions: case-based discussion**  
L. Boyer (Clermont-Ferrand/FR), R. Gandini (Rome/IT)

1. To learn about indications and patient selection  
2. To understand access for treatment for difficult or complex aorto-iliac and SFA lesions  
3. To learn endovascular techniques for treatment of stenosis and occlusions including stents, stentgrafts, cutting balloons  
4. To learn outcomes following interventions including follow-up

WS 2202  **Catheterisation techniques with microcatheters: case-based discussion**  
A.H. Mahnken (Marburg/DE), F. Pozzi-Mucelli (Trieste/IT)

1. To learn about all microcatheter types available  
2. To learn about available microguidewires  
3. To learn how to deal with tortuous anatomy  
4. To learn about the device limitations

WS 2203  **Basic principles of Y-90: case-based discussion**  
J.J. Bilbao (Pamplona/ES), R. Salem (Chicago, IL/US)

1. To learn how to select the patient (indications and contraindications for radioembolisation of liver tumours)  
2. To learn how to work with the radionuclide department: practical tools and issues  
3. To learn how to prepare the abdominal vasculature and indications for cone-beam CT  
4. To learn how to deliver the spheres and monitor the procedure

WS 2204  **Renal interventions: case-based discussion**  
L. Monfardini (Milan/IT), G. Tsoumakidou (Strasbourg/FR)

1. To describe different techniques and procedures of renal thermal ablation  
2. To learn the imaging modalities for renal ablation  
3. To discuss the best indications and results of thermal ablation  
4. To learn tips and tricks to increase success and limit complications
17:30-18:30

WS 2301 The challenging diabetic foot: case-based discussion
S. Ingram (Edinburgh/UK), K.N. Katsanos (London/UK)

1. To learn assessing the suitability for endovascular treatment
2. To understand imaging assessment and the angiosome concept in treatment planning
3. To learn the techniques for endovascular treatment for multi-level disease
4. To learn about distal pedal and foot angioplasty including retrograde digital access

WS 2302 Visceral artery aneurysms: case-based discussion
P.P. Goffette (Brussels/BE), K. Zeleňák (Martin/SK)

1. To learn about imaging of visceral artery aneurysms (VAA) and indications for management
2. To learn about different devices including coils, flow diverters, covered stents and others
3. To discuss the technical methods used for treating VAA
4. To discuss potential complications and bail-out strategies in VAA management

WS 2303 Advanced approaches in Y-90: case-based discussion
W.S. Rilling (Milwaukee, WI/US), M. van den Bosch (Utrecht/NL)

1. To discuss unusual indications and complex cases of radioembolisation
2. To discuss difficult cases, complex vascular anatomies and complications
3. To demonstrate where radioembolisation was successfully combined with other IR techniques
4. To discuss how to optimise Y-90 use and patient turnover in a busy clinical practice

WS 2304 GI-stenting: case-based discussion

1. To discuss indications for GI stenting
2. To learn how to select a stent in a specific clinical condition
3. To discuss the technique of upper and lower GI stenting
4. To discuss how to deal with complications in upper and lower GI stenting

Tuesday, September 16

16:15-17:15

WS 3001 TIPS and BRTO: case-based discussion
K. Kichikawa (Nara/JP), S. Punamiya (Singapore/SG)

1. To learn the basic and unusual techniques of TIPS
2. To demonstrate TIPS failure and procedural complications
3. To learn when BRTO is indicated
4. To demonstrate cases representative of basic and complicated procedures
WS 3002  Haemoptysis: case-based discussion  
P. Minko (Homburg/DE), J. Pollak (New Haven, CT/US)  
1. To learn how to manage haemoptysis in multicystic fibrosis disease  
2. To learn how to manage arterio-pulmonary aneurysms and pseudoaneurysms  
3. To learn how to delineate and deal with the spinal artery  
4. To understand the available embolic materials (including beads, coils and liquid embolic agents)  

WS 3003  New technologies in liver tumour ablation: case-based discussion  
Y. Arai (Tokyo/JP), D.K. Filippidis (Athens/GR)  
1. To learn how to choose the technology and the approach according to tumour characteristics  
2. To learn about novel approaches in imaging guidance for liver tumour ablation  
3. To learn about limitations and complications of different ablative modalities  
4. To learn about how to assess tumour response to treatment  

WS 3004  Taking the EBIR  
K.A. Hausegger (Klagenfurt/AT), P. Reimer (Karlsruhe/DE)  
1. To learn about the structure of the CIRSE IR Curriculum  
2. To learn about the structure of EBIR and the entry criteria  
3. To learn the evaluation principles of the exam  
4. To learn how to prepare for the exam  

WS 3101  Complex EVAR interventions: case-based discussion  
J.F. Benenati (Miami, FL/US), T. Pfammatter (Zurich/CH)  
1. To learn proper patient selection and imaging in treatment planning  
2. To understand device selection for difficult anatomy, i.e. short neck, tortuosity  
3. To describe fenestrated stentgrafts, t-branch and hybrid techniques for juxta and para-renal aneurysms  
4. To learn specific tricks and tips  

WS 3102  Management of ENT bleeding: case-based discussion  
A.M. Al-Kutoubi (Beirut/LB), G. Mühlenbruch (Würselen/DE)  
1. To learn relevant arterial anatomy  
2. To learn about embolisation agents and microcatheter techniques  
3. To learn how to avoid complications  
4. To demonstrate idiopatic traumatic and other causes of ENT bleeding  

WS 3103  Advanced TACE: case-based discussion  
K. Malagari (Athens/GR), O. Matsui (Kanazawa/JP)  
1. To learn if and how preprocedural imaging can predict a difficult TACE  
2. To learn what is needed to perform a successful TACE (skills, equipment, devices)  
3. To learn how to manage difficult cases and complications  
4. To learn how to assess tumour response after TACE
### CIRSE Scientific Programme Overview

#### Main Programme

<table>
<thead>
<tr>
<th>Time</th>
<th>Saturday Sep 13</th>
<th>Sunday Sep 14</th>
</tr>
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<tbody>
<tr>
<td>08:00</td>
<td>FC 101: Basic principles of carotid artery intervention</td>
<td>FC 901: Basic principles of early-stage HCC management</td>
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<tr>
<td>09:00</td>
<td>FC 201: Basic principles of renal artery intervention</td>
<td>FC 1001: Basic principles of intermediate-advanced HCC management</td>
</tr>
<tr>
<td>10:00</td>
<td>SS 102: Embolic agents: when, where and how</td>
<td>IC 1002: Challenging venous interventions</td>
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<td>11:00</td>
<td>SS 201: Controversies in transcatheter embolisation</td>
<td>SS 103: Spine interventions</td>
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<td>12:00</td>
<td>SS 301: Controversies in SFA treatment</td>
<td>SS 104: Bleeding: hepatospleno-GI tract</td>
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<td>13:00</td>
<td>SS 302: Trauma: bleeding control</td>
<td>SS 105: Acute stroke: diagnostic and therapeutic concepts</td>
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<td>SS 303: Bone pain in cancer patients</td>
<td>SS 1005: Chronic ischaemia of the brain: revascularisation</td>
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<td>SS 304: Complicated portal hypertension management</td>
<td>SS 902: Renal denervation</td>
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<td>SS 305: Interventional acute stroke treatment: trials update and outlook</td>
<td>SS 903: Spine interventions</td>
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<td>HoW: Closure devices</td>
<td>SS 1004: Treatment options for BPH</td>
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<td>HoW: Principles to practice: education and simulation skills training</td>
<td>SS 905: Acute stroke: diagnostic and therapeutic concepts</td>
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<td>THE ROLE OF ENDOVASCULAR TREATMENT IN THE DIABETIC FOOT</td>
<td>SS 1003: Controversies in BTK treatment</td>
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<td>Satellite Symposia - Boston Scientific - BTG - Cordis</td>
<td>SS 904: Bleeding: hepatospleno-GI tract</td>
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<td>RWS 1104: Core team in interventional radiology: a way to optimise radiological procedures</td>
<td>SS 1002: Renal denervation</td>
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<td>SY: Covidien</td>
<td>SS 906: Chronic ischaemia of the brain: revascularisation</td>
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<td>SY: Alphatec SpinePharmaCept</td>
<td>SS 904: Bleeding: hepatospleno-GI tract</td>
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**VASCULAR INTERVENTIONS**

- FC 101: Basic principles of carotid artery intervention
- FC 201: Basic principles of renal artery intervention
- SS 102: Embolic agents: when, where and how
- SS 201: Controversies in transcatheter embolisation
- SS 301: Controversies in SFA treatment
- SS 302: Trauma: bleeding control
- SS 303: Bone pain in cancer patients
- SS 304: Complicated portal hypertension management
- SS 305: Interventional acute stroke treatment: trials update and outlook
- HoW: Closure devices
- HoW: Principles to practice: education and simulation skills training
- HoW: Embolisation: materials and tools / Coils & plugs
- HoW: Embolisation: materials and tools / Liquid agents
- HoW: Principles to practice: education and simulation skills training / Basic principles of EVAR deployment
- HoW: Principles to practice: education and simulation skills training / The role of endovascular treatment in the diabetic foot

**NEUROINTERVENTIONS**

- FC 101: Basic principles of carotid artery intervention
- FC 201: Basic principles of renal artery intervention
- SS 102: Embolic agents: when, where and how
- SS 201: Controversies in transcatheter embolisation
- SS 301: Controversies in SFA treatment
- SS 302: Trauma: bleeding control
- SS 303: Bone pain in cancer patients
- SS 304: Complicated portal hypertension management
- SS 305: Interventional acute stroke treatment: trials update and outlook
- HoW: Closure devices
- HoW: Principles to practice: education and simulation skills training
- HoW: Embolisation: materials and tools / Coils & plugs
- HoW: Embolisation: materials and tools / Liquid agents
- HoW: Principles to practice: education and simulation skills training / Basic principles of EVAR deployment
- HoW: Principles to practice: education and simulation skills training / The role of endovascular treatment in the diabetic foot

**TRANSCATHETER EMBOLISATION**

- FC 101: Basic principles of carotid artery intervention
- FC 201: Basic principles of renal artery intervention
- SS 102: Embolic agents: when, where and how
- SS 201: Controversies in transcatheter embolisation
- SS 301: Controversies in SFA treatment
- SS 302: Trauma: bleeding control
- SS 303: Bone pain in cancer patients
- SS 304: Complicated portal hypertension management
- SS 305: Interventional acute stroke treatment: trials update and outlook
- HoW: Closure devices
- HoW: Principles to practice: education and simulation skills training
- HoW: Embolisation: materials and tools / Coils & plugs
- HoW: Embolisation: materials and tools / Liquid agents
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**INTERVENTIONAL ONCOLOGY**

- FC 101: Basic principles of carotid artery intervention
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**IR MANAGEMENT**

- FC 101: Basic principles of carotid artery intervention
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- SS 102: Embolic agents: when, where and how
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- HoW: Principles to practice: education and simulation skills training / The role of endovascular treatment in the diabetic foot
Saturday, September 13

08:30-09:30

FC 101 **Fundamental Course**

**Main Auditorium**

**Basic principles of carotid artery intervention**

*Moderator: D. Vorwerk (Ingolstadt/DE)*

101.1 Indications for carotid artery stenting – patient triage  
*T.J. Cleveland (Sheffield/UK)*

101.2 How to perform a typical carotid artery stenting procedure  
*F. Fanelli (Rome/IT)*

101.3 Tips and tricks for difficult carotid artery stenting procedures  
*M. Szczesny-Trojanowska (Lublin/PL)*

101.4 Managing procedural complications  
*E. Brountzos (Athens/GR)*

08:30-09:30

SS 102 **Special Session**

**Auditorium 2**

**Embolic agents: when, where and how**

*Moderators: M.H. Öztürk (Trabzon/TR), J.-P. Pelage (Caen/FR)*

102.1 Coils and plugs – indication and technique  
*M. Pech (Magdeburg/DE)*

102.2 Gelatin foam and particles: classification, indication and technique  
*K. Zeleňák (Martin/SK)*

102.3 Liquid embolic agents: technique, results and complications  
*W.A. Wohlgenuth (Regensburg/DE)*

102.4 Sclerosant agents: indication, technique and endpoints  
*J.P. Burnes (Clayton/AU)*

08:30-09:30

SS 103 **Special Session**

**Auditorium 3**

**Enteral tubes, enteral and parenteral nutrition**

*Moderators: M. Krokidis (Cambridge/UK), H.-U. Laasch (Manchester/UK)*

103.1 Percutaneous gastrostomy  
*N. McEniff (Dublin/IE)*

103.2 Percutaneous direct jejunostomy and gastrojejunostomy  
*H. van Overhagen (The Hague/NL)*

103.3 Cecostomy  
*A.M. Cahill (Philadelphia, PA/US)*

103.4 Parenteral nutrition  
*B. Gebauer (Berlin/DE)*

08:30-09:30

SS 104 **Special Session**

**Auditorium 4**

**Visceral IR**

*Moderators: P.P. Goffette (Brussels/BE), P. Vilares Morgado (Porto/PT)*

104.1 Clinical and imaging assessment of mesenteric ischaemia  
*K. Schürmann (Dortmund/DE)*

104.2 Management of acute mesenteric ischaemia  
*J. Raupach (Hradec Králové/CZ)*

104.3 Management of chronic mesenteric ischaemia  
*L.P. Lawler (Dublin/IE)*

104.4 Treatment of visceral artery aneurysms  
*M.S. Hamady (London/UK)*
08:30-13:00  
PTP-HoW 1  Hands-on Workshop  
Principles to practice: education and simulation skills training /  
Basic principles of EVAR deployment  
Co-ordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK)  
Session organiser: R.G. McWilliams (Liverpool/UK)  
Instructors: M.W. de Haan (Maastricht/NL), F. Pozzi-Mucelli (Trieste/IT), U. Shaikh (Liverpool/UK),  
G. Soulez (Montreal/CA)  
PTP 1.1 Group 1 (08:30-11:10)  
PTP 1.2  Group 2 (10:20-13:00)  

10:00-11:00  
FC 201  Fundamental Course  
Basic principles of renal artery intervention  
Moderator: M. Szczerbo-Trojanowska (Lublin/PL)  
201.1 Current indications for renal percutaneous transluminal angioplasty/stenting  
J.G. Moss (Glasgow/UK)  
201.2 Technique – the typical renal artery percutaneous transluminal angioplasty/stenting procedure  
J.H. Peregrin (Prague/CZ)  
201.3 New evidence and indications for renal denervation  
M.R. Sapoval (Paris/FR)  
201.4 Technique – renal denervation  
J.A. Reekers (Amsterdam/NL)  

10:00-11:00  
SS 202  Special Session Controversy  
Controversies in transcatheter embolisation  
Moderator: T. de Baère (Villejuif/FR)  
202.1 Prostate artery embolisation is inferior to transurethral resection of the prostate: Pro  
M. Harris (Southampton/UK)  
202.2 Prostate artery embolisation is inferior to transurethral resection of the prostate: Con  
N. Hacking (Southampton/UK)  
202.3 Bariatric gastric artery embolisation: Pro  
A. Arepally (Atlanta, GA/US)  
202.4 Bariatric gastric artery embolisation: Con  
R.C. Stuart (Glasgow/UK)  
202.5 Radioembolisation is superior to portal vein embolisation for liver hypertrophy: Pro  
R. Salem (Chicago, IL/US)  
202.6 Radioembolisation is superior to portal vein embolisation for liver hypertrophy: Con  
A. Denys (Lausanne/CH)
10:00-11:00

**SS 203 Special Session**

*Interventional oncology: improving results through advanced technologies*

_Moderators: P.L. Pereira (Heilbronn/DE), H. Rousseau (Toulouse/FR)_

- **203.1 Stereotaxy and robotic assistance**
  - R. Bale (Innsbruck/AT)

- **203.2 PET-CT**
  - C.T. Sofocleous (New York, NY/US)

- **203.3 Fusion imaging**
  - M.J.L. van Strijen (Nieuwegein/NL)

- **203.4 Magnetic resonance navigation**
  - A. Gangi (Strasbourg/FR)

10:00-11:00

**SS 204 Special Session**

*Metastatic neuroendocrine tumours*

_Moderators: L. Crocetti (Pisa/IT), F. Orsi (Milan/IT)_

- **204.1 Clinical and pathological aspects of metastatic neuroendocrine tumours**
  - J.W. Valle (Manchester/UK)

- **204.2 Systemic and radionuclide therapies**
  - F. Forrer (St. Gallen/CH)

- **204.3 Chemoembolisation and bland embolisation**
  - B.A. Radeleff (Heidelberg/DE)

- **204.4 Radioembolisation**
  - R.J. Lewandowski (Chicago, IL/US)

10:00-11:00

**ICS 205 Interactive Case Session**

*Revascularisation in acute stroke: technical problems and solutions*

- **205.1 to be announced**
- **205.2 I.Q. Grunwald (Oxford/UK)**

11:15 -12:45

**CD-HoW 1 Hands-on Workshop**

*A closer look at closure devices*

_Co-ordinators: S. Müller-Hülsbeck (Flensburg/DE), R. Uberoi (Oxford/UK)_

_Instructors: S. Anthony (Oxford/UK), L. Marques (Flensburg/DE), J.P. Schaefer (Kiel/DE)_

11:15 -12:45

**EMT-HoW 1 Hands-on Workshop**

*Embolisation: materials and tools / Coils & plugs*

_Moderators: A. Martínez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)_

_Instructors: T.I. Cleveland (Sheffield/UK), F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU), H.J. Manninen (Kuopio/Fl), M. Treil (Munich/DE), S.B. White (Milwaukee, WI/US)_
11:30-12:30

SS 301 Special Session Controversy
Controversies in SFA treatment

Moderator: J. Lammer (Vienna/AT)

301.1 Drug-eluting stents will show better 5-year patency rates than PTA: Pro
K.N. Katsanos (London/UK)

301.2 Drug-eluting stents will show better 5-year patency rates than PTA: Con
N. Chalmers (Manchester/UK)

301.3 Drug-eluting balloons in all SFA lesions: Pro
G. Tepe (Rosenheim/DE)

301.4 Drug-eluting balloons in all SFA lesions: Con
M. Katoh (Krefeld/DE)

301.5 Bioabsorbable stents have a future: Pro
A. Holden (Auckland/NZ)

301.6 Bioabsorbable stents have a future: Con
T.W.I. Clark (Philadelphia, PA/US)

11:30-12:30

SS 302 Special Session
Trauma: bleeding control

Moderators: J.V. Patel (Leeds/UK), M. Schoder (Vienna/AT)

302.1 Infrastructure and logistics for adequate trauma treatment
O.M. van Delden (Amsterdam/NL)

302.2 Embolisation in the unstable patient
S.J. McPherson (Leeds/UK)

302.3 Stent and stent-grafting in the trauma patient
T. Sabharwal (London/UK)

302.4 Predictors of failure and success of embolisation for traumatic bleeding
S.J. Park (Daejeon/KR)

11:30-12:30

SS 303 Special Session
Bone pain in cancer patients

Moderators: G.C. Anselmetti (Turin/IT), W.A. Clark (Ramsgate/AU)

303.1 Non-IR treatment options
M. Fallon (Edinburgh/UK)

303.2 Ablation and embolisation
X. Buy (Bordeaux/FR)

303.3 Cementoplasty and osteosynthesis
F. Deschamps (Villejuif/FR)

303.4 HiFU
A. Napoli (Rome/IT)
11:30-12:30
SS 304 Special Session
Complicated portal hypertension management
Auditorium 3

Moderators: J.I. Bilbao (Pamplona/ES), S. Punamiya (Singapore/SG)

304.1 Indications and current evidence for TIPS
   P.E. Huppert (Darmstadt/DE)
304.2 Treatment of portal vein obstruction
   I. Keussen (Lund/SE)
304.3 Interventional management of hypersplenism
   T. Tanaka (Kashihara/JP)
304.4 Indications and current evidence for BRTO
   M. Darcy (St. Louis, MO/US)

11:30-12:30
SS 305 Special Session
Interventional acute stroke treatment: trials update and outlook
Auditorium 4

Moderators: A. Krajina (Hradec Kralove/CZ), J. Tacke (Passau/DE)

305.1 Studies on image-guided patient selection
   K.A. Hausegger (Klagenfurt/AT)
305.2 Completed stroke treatment studies and trials
   G. Schroth (Bern/CH)
305.3 Ongoing stroke treatment studies and trials
   D. Vorwerk (Ingolstadt/DE)
305.4 The future of acute stroke treatment: the neurologist’s view
   H.S. Markus (Cambridge/UK)

13:00-14:00
Satellite Symposia

BIOTRONIK
Merit Medical
Philips Healthcare (in partnership with BTG)

For the detailed programmes please refer to pages 27, 30 and 31.
### CIRSE Opening and Awards Ceremony

**Main Auditorium**

**Chairperson:** A.-M. Belli (London/UK)

**Welcome Addresses**

**CVIR Editor’s Medal Award**

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

**Distinguished Fellow:** M.D. Dake (Stanford, CA/US)  
Laudation: R.A. Morgan (London/UK)

**Distinguished Fellow:** J.G. Moss (Glasgow/UK)  
Laudation: J.A. Reekers (Amsterdam/NL)

**Distinguished Fellow:** D. Siablis (Patras/GR)  
Laudation: A. Adam (London/UK)

**Gold Medal:** J.H. Peregrin (Prague/CZ)  
Laudation: D. Vorwerk (Ingolstadt/DE)

### Hands-on Workshops

#### EMT-HoW 2

Embolisation: materials and tools / Coils & plugs

- **Co-ordinators:** A. Martínez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)
- **Instructors:** T.J. Cleveland (Sheffield/UK), F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU), H.I. Manninen (Kuopio/FI), M. Treitl (Munich/DE), S.B. White (Milwaukee, WI/US)

#### TA-HoW 2

Tumour ablation: tips and tricks / Liver

- **Co-ordinators:** T.K. Helmberger (Munich/DE), A.D. Kelekis (Athens/GR)
- **Instructors:** L. Crocetti (Pisa/IT), S. Roy-Choudhury (Birmingham/UK), C.T. Sofocleous (New York, NY/US)

### Workshops

#### WS 601

Varicose vein ablation: case-based discussion

- **601.1** D.J. West (Stoke-on-Trent/UK)  
- **601.2** F. Boyvat (Ankara/TR)

#### WS 602

Complex supra-aortic interventions: case-based discussion

- **602.1** D. Vorwerk (Ingolstadt/DE)  
- **602.2** K. Mathias (Hamburg/DE)
16:15-17:15  
**WS 603 Workshop**  
**Gastro-intestinal bleeding: case-based discussion**  
Auditorium 3

603.1  V. Vidal (Marseille/FR)  
603.2  A.N. Chatziioannou (Athens/GR)

16:15-17:15  
**WS 604 Workshop**  
**New approaches for AVM and AVF: lessons from neurointervention – case-based discussion**  
Auditorium 7

604.1  A.C. Januel (Toulouse/FR)  
604.2  L. Spelle (Paris/FR)

16:15-17:15  
**WS 605 Workshop**  
**Interventions in renal transplants: case-based discussion**  
Auditorium 5

605.1  U. Patel (London/UK)  
605.2  M. Januszewicz (Warsaw/PL)

16:15-17:15  
**WS 606 Workshop**  
**Advanced lung ablation: case-based discussion**  
Auditorium 8

606.1  J. Palussière (Bordeaux/FR)  
606.2  W. Prevoo (Amsterdam/NL)

16:15-17:15  
**FP 607 Free Paper Session**  
**Randomized trials in IR**  
Auditorium 10

**Moderators:** A. Gangi (Strasbourg/FR), P.L. Pereira (Heilbronn/DE)

607.1  Drug-coated balloon (DCB) angioplasty versus conventional angioplasty for the treatment of the superficial femoral artery (SFA) and PI segment in PAD patients: first interim results of the FREERIDE study  
K.-L. Schulte, B. Fernandez-Tresguerres, R. Langhoff; Berlin/DE, Bonn/DE

607.2  BIOLUX P-II: a randomized clinical trial of Passeo-18 Lux DRB vs. POBA for the treatment of infrapopliteal artery lesions  

607.3  Fibered platinum coils vs vascular plugs in pelvic varices embolization for the treatment of pelvic congestion syndrome: 1-year follow-up randomized study  
A. Laborda, M. Sanchez Ballester, I. De Blas, M.A. de Gregorio; Zaragoza/ES

607.4  Randomised controlled trial of Particles used in Uterine fibroid Embolisation (PURE) – non-spherical polyvinyl alcohol (Contour PVA; Boston Scientific, USA) versus calibrated hydrogel microspheres with polyzene coating (Embozene; CeloNova Biosciences, USA): interim results  
B. Das, J. Manyonda, A.-M. Belli; London/UK

607.5  Pre-procedure and post-procedure administration of Oxycodone improves pain management after uterine fibroid embolization  

607.6  DENER-HTN trial: a prospective randomized control trial of the efficacy of renal artery denervation in resistant hypertension  
M.R. Sapoval, M. Monge, H. Pereira, The DenerHTN investigators; Paris/FR

607.7  Randomised trial comparing Hickman lines with ports for chemotherapy: a pilot study to inform a larger trial  
J.G. Moss, R. Kashturi, J. Paul, O. Wu, E. McCartney, M. Ritchie, J. Dixon; Glasgow/UK
17:30-18:30

WS 701 Workshop
Dialysis access interventions: case-based discussion

701.1 S.P. D’Souza (Preston/UK)
701.2 M. Roček (Prague/CZ)

17:30-18:30

WS 702 Workshop
Lines, catheters and ports: case-based discussion

702.1 T.-E.G. Vrachliotis (Athens/GR)
702.2 K.P. van Lienden (Amsterdam/NL)

17:30-18:30

WS 703 Workshop
Vascular malformation management: case-based discussion

703.1 M. Köcher (Olomouc/CZ)
703.2 I.J. McCafferty (Birmingham/UK)

17:30-18:30

WS 704 Workshop
Flow modification techniques: lessons from neurointervention – case-based discussion

704.1 J. Du Plessis (Edinburgh/UK)
704.2 T. Liebig (Cologne/DE)

17:30-18:30

WS 705 Workshop
Interventions after liver transplantation: case-based discussion

705.1 M.C. Burgmans (Leiden/NL)
705.2 J.B. Karani (London/UK)

17:30-18:30

WS 706 Workshop
IR training and accreditation

706.1 E. Brountzos (Athens/GR)
706.2 M.J. Lee (Dublin/IE)
Sunday, September 14

07:20-08:20
Satellite Symposium
Covidien

For the detailed programme please refer to page 29.

08:00-08:20
Satellite Symposia
Alphatec Spine
PharmaCept

For the detailed programmes please refer to pages 26 and 31.

08:30-09:30
FC 901 Fundamental Course
Basic principles of early-stage HCC management
Main Auditorium

Moderator: K. Malagari (Athens/GR)

901.1 Diagnostic criteria and staging work-up
V. Vilgrain (Clichy/FR)

901.2 Role of surgery: resection and transplantation
H.Z. Malik (Liverpool/UK)

901.3 Radiofrequency ablation: results and complications
R. Lencioni (Pisa/IT)

901.4 Emerging ablation techniques
P.L. Pereira (Heilbronn/DE)

08:30-09:30
SS 902 Special Session
Renal denervation
Auditorium 2

Moderators: J.A. Reekers (Amsterdam/NL), R.E. Schmieder (Erlangen/DE)

902.1 Renal denervation: evidence before SYMPLICITY HTN-3
T.F. Antonios (London/UK)

902.2 Renal denervation: SYMPLICITY HTN-3 evidence: overview
M.J. Lee (Dublin/IE)

902.3 New devices, new opportunities?
A. Schmid (Erlangen/DE)

902.4 Renal denervation: beyond hypertension
J.G. Moss (Glasgow/UK)

902.5 Summary
R.E. Schmieder (Erlangen/DE)
08:30 - 09:30

SS 903 Special Session Auditorium 5
Spine interventions

Moderators: F. Deschamps (Villejuif/FR), A.D. Kelekis (Athens/GR)

903.1 Osteoid osteoma and osteoblastoma
A. Gangi (Strasbourg/FR)

903.2 Aneurysmal bone cyst
M. Muto (Naples/IT)

903.3 Pre-operative embolisation
A.G. Ryan (Waterford City/IE)

903.4 Aggressive haemangioma
S.M. Tutton (Milwaukee, WI/US)

08:30 - 09:30

SS 904 Special Session Auditorium 3
Bleeding: hepato-spleno-GI tract

Moderators: P.K. Ellis (Belfast/UK), K. Kichikawa (Nara/JP)

904.1 Embolisation and BRTO for gastric or ectopic varices: technique and results
H. Kiyosue (Yufu/JP)

904.2 Acute upper gastro-intestinal bleeding: from imaging to endovascular treatment
R. Uberoi (Oxford/UK)

904.3 Acute lower gastro-intestinal bleeding: from imaging to endovascular treatment
L. Defreyne (Ghent/BE)

904.4 Spleen trauma management: when and how to embolise
P.E. Bize (Lausanne/CH)

08:30 - 09:30

SS 905 Special Session Auditorium 4
Acute stroke: diagnostic and therapeutic concepts

Moderators: K.A. Hausegger (Klagenfurt/AT), C.P. Stracke (Essen/DE)

905.1 "One-stop shop" angio stroke imaging: benefits
T. Engelhorn (Erlangen/DE)

905.2 Direct thromboaspiration/adapt technique
A.S. Turk (Charleston, SC/US)

905.3 Direct distal thromboaspiration combined with stent retrievers
G. Gal (Odense/DK)

905.4 New generation stent retrievers: any improvement?
A. Bonafé (Montpellier/FR)

08:30 - 13:00

PTP-HoW 2 Hands-on Workshop Simulator Gallery

Principles to practice: education and simulation skills training / The role of endovascular treatment in the diabetic foot

Co-ordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK)
Session organiser: M.G. Manzi (Abano Terme/IT)
Instructors: M. Di Primio (Paris/FR), R. Gandini (Rome/IT), P.E. Huppert (Darmstadt/DE), L.M. Palena (Abano Terme/IT)

PTP 2.1 Group 1 (08:30-10:40)
PTP 2.2 Group 2 (09:40-11:50)
PTP 2.3 Group 3 (10:50-13:00)
10:00-11:00  
**FC 1001**  
**Fundamental Course**  
Basic principles of intermediate-advanced HCC management  
Auditorium 2

Moderator: R. Lencioni (Pisa/IT)

- 1001.1 Clinical management of the intermediate-advanced HCC patient  
  J.-L. Raoul (Marseille/FR)
- 1001.2 Conventional chemoembolisation  
  T. de Baère (Villejuif/FR)
- 1001.3 Chemoembolisation with drug-eluting beads  
  J.-F.H. Geschwind (Baltimore, MD/US)
- 1001.4 Radioembolisation  
  J.I. Bilbao (Pamplona/ES)

10:00-11:00  
**ICS 1002**  
**Interactive Case Session**  
Challenging venous interventions  
Auditorium 3

- 1002.1 S.O. Trerotola (Philadelphia, PA/US)
- 1002.2 M.W. de Haan (Maastricht/NL)

10:00-11:00  
**SS 1003**  
**Special Session Controversy**  
Controversies in BTK treatment  
Main Auditorium

Moderator: H.I. Manninen (Kuopio/FI)

- 1003.1 Distal embolic protection devices are reasonable: Pro  
  S. Müller-Hülsbeck (Flensburg/DE)
- 1003.2 Distal embolic protection devices are reasonable: Con  
  D.F. Ettles (Hull/UK)
- 1003.3 Drug-eluting stents in all short BTK lesions: Pro  
  H. van Overhagen (The Hague/NL)
- 1003.4 Drug-eluting stents in all short BTK lesions: Con  
  T. Rand (Vienna/AT)
- 1003.5 The angiosome concept: Pro  
  M. Brodmann (Graz/AT)
- 1003.6 The angiosome concept: Con  
  K.A. Hausegger (Klagenfurt/AT)

10:00-11:00  
**SS 1004**  
**Special Session**  
Treatment options for BPH  
Auditorium 4

Moderators: N. Hacking (Southampton/UK), P. Vilares Morgado (Porto/PT)

- 1004.1 Non-IR treatment options: surgical and medical  
  M. Harris (Southampton/UK)
- 1004.2 Prostate artery embolisation: indications and results  
  F.C. Carnevale (São Paulo/BR)
- 1004.3 Prostate artery embolisation: technique  
  M.A. de Gregorio (Zaragoza/ES)
- 1004.4 Prostate artery embolisation: difficult arterial anatomy  
  J. Golzarian (Minneapolis, MN/US)
SS 1005  Special Session  
**Chronic ischaemia of the brain: revascularisation**  

*Moderators: K. Mathias (Hamburg/DE), C. Stroszcynski (Regensburg/DE)*

1005.1  Carotid stenting today: standard practice or increasingly infrequent?  
P. Brennan (Dublin/IE)

1005.2  Intracranial stenting after the SAMMPRIS study: dead or alive?  
H. Henkes (Stuttgart/DE)

1005.3  How to avoid peri-interventional stroke, haemorrhage and hyperperfusion  
G. Schroth (Bern/CH)

1005.4  Management of hyperperfusion syndrome  
E.M. Arsava (Ankara/TR)

CD-HoW 2  Hands-on Workshop  
**A closer look at closure devices**  

*Co-ordinators: S. Müller-Hülsbeck (Flensburg/DE), R. Uberoi (Oxford/UK)  
Instructors: S. Anthony (Oxford/UK), L. Marques (Flensburg/DE), J.P. Schaefer (Kiel/DE)*

Emt-HoW 3  Hands-on Workshop  
**Embolisation: materials and tools / Liquid agents**  

*Co-ordinators: A. Martínez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)  
Instructors: A. Alonso-Burgos (Madrid/ES), D. Miller (Jacksonville, FL/US), J.V. Patel (Leeds/UK), L. Spelle (Paris/FR)*

For the detailed programmes please refer to pages 27 and 28.

RWS 1104  EFRS Workshop  
**Core team in interventional radiology: a way to optimise radiological procedures**  

1104.1  D. Pekarovič (Ljubljana/SI)

1104.2  M. Klavžar (Ljubljana/SI)

For the detailed programmes please refer to pages 30 and 32-34.
Main Programme

Sunday, September 14

13:00-14:30

**ST-HoW 2 Hands-on Workshop**

*Stroke therapy*

Co-ordinators: H. van Overhagen (The Hague/NL), J. Weber (St. Gallen/CH)
Instructors: J. Gerber (Dresden/DE), W. Kurre (Stuttgart/DE), J.A. Vos (Nieuwegein/NL)

13:00-14:30

**TA-HoW 3 Hands-on Workshop**

*Tumour ablation: tips and tricks / Thyroid gland*

Co-ordinators: T.K. Helmberger (Munich/DE), A.D. Kelekis (Athens/GR)
Instructors: J.H. Baek (Seoul/KR), C. Rountas (Larissa/GR), F. Stacul (Trieste/IT)

14:30-15:30

**Satellite Symposium**

*Merit Medical*

For the detailed programme please refer to page 30.

14:30-16:00

**Honorary Lecture / Hot Topic Symposium**

14:30-15:00

**HL 1301 Andreas Gruentzig Lecture**

*Main Auditorium*

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

Laudation: A. Gangi (Strasbourg/FR)

1301.1 Standard clinical guidelines for interventional oncology: where are we at present?
P.L. Pereira (Heilbronn/DE)

15:00-16:00

**HTS 1302 Treatment of DVT and PE: paradigm shift?**

*Main Auditorium*

Moderators: A.-M. Belli (London/UK), G.J. O’Sullivan (Galway/IE)

1302.1 Emerging therapies for pulmonary embolism
N. Kucher (Bern/CH)

1302.2 Aggressive treatment of deep vein thrombosis: what the trials have taught us
S. Kee (Los Angeles, CA/US)

1302.3 Catheter-directed thrombolysis for DVT: tips, tricks and pitfalls
K.R. Thomson (Melbourne/AU)

1302.4 Single session therapy for DVT: devices and patient selection
G.J. O’Sullivan (Galway/IE)

16:00-17:30

**EMT-HoW 4 Hands-on Workshop**

*Embolisation: materials and tools / Liquid agents*

Co-ordinators: A. Martinez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)
Instructors: A. Alonso-Burgos (Madrid/ES), D. Miller (Jacksonville, FL/US),
J.V. Patel (Leeds/UK), L. Spelle (Paris/FR)
**WS 1401** Workshop  
Chronic total occlusion interventions: case-based discussion  
16:15-17:15  
Auditorium 8  
1401.1 M. Düx (Frankfurt/DE)  
1401.2 T. Jargiełło (Lublin/PL)

**WS 1402** Workshop  
Endoleak management: case-based discussion  
16:15-17:15  
Auditorium 3  
1402.1 R.G. McWilliams (Liverpool/UK)  
1402.2 R. Iezzi (Rome/IT)

**WS 1403** Workshop  
Trauma: case-based discussion  
16:15-17:15  
Auditorium 4  
1403.1 M. Grosso (Cuneo/IT)  
1403.2 F. Wolf (Vienna/AT)

**WS 1404** Workshop  
New concepts and tools for acute stroke revascularisation: case-based discussion  
16:15-17:15  
Auditorium 7  
1404.1 C.P. Stracke (Essen/DE)  
1404.2 A.S. Turk (Charleston, SC/US)

**FP 1405** Free Paper Session  
Biliary interventions  
16:15-17:15  
Auditorium 9  
Moderators: W. Cwikiel (Lund/SE), M.E. Giménez (Buenos Aires/AR)

1405.1 Percutaneous transhepatic endoscopic holmium laser lithotripsy for intrahepatic and choledochal biliary stones  
A.M. Ierardi, M. Petrillo, F. Fontana, C. Floridi, F. Piacentino, G. Xhepa, M. De Chiara, G. Carrafiello; Varese/IT, Naples/IT

1405.2 Eighteen years of experience in radiologic–endoscopic management of difficult bile duct stones: lessons learned  
A. Cannavale, M. Corona, P. Lucatelli, G. Fanello, F. Cereatti, C. Cirelli, A. D’Adamo, F.M. Salvatori, F. Fanelli, F. Fiocca; Rome/IT

1405.3 Bioabsorbable biliary stent in the treatment of benign biliary strictures: follow-up of more than two years  

1405.4 Endoluminal radiofrequency ablation with subsequent stenting in biliary, pancreatic duct, and portal vein occlusions  
M. Mizandari, N. Habib, T. Azrumeleshvili; Tbilisi/GE, London/UK

1405.5 Is percutaneous biliary drainage effective in lowering serum bilirubin for initiating chemotherapy?  

1405.6 Transhepatic vs transperitoneal approach for percutaneous cholecystostomy  
A.E. Helmy, N. Shaida, T.C. See; Cambridge/UK
FP 1406 Free Paper Session  
**Auditorium 10**  
**GI interventions and biopsies**

**Moderators:** P.A.M.S. Almeida (Viseu/PT), H. van Overhagen (The Hague/NL)

1406.1 Use of the Hunter device in children  
**Z. Farhat**, J. Amaral, P.R. John, D.A. Parra, M. Temple, B. Connolly; Toronto/CA

1406.2 Percutaneous liver biopsy post-Fontan operation: a single pediatric institutional experience  
**A.K. Guzman**, K. Dodds, J. Rychik, E. Rand, G. Krishnamurthy, M.S. Keller, A. McIntosh, D.J. Goldberg, A.M. Cahill; Philadelphia, PA/US

1406.3 *Effect of bariatric embolization on various appetite-driving hormones of obesity*  
**C.R. Weiss**1, A. Arepally2, T. Moran1, C. Hu1, J. Singh1, H.-Q. Mao1, T.-H. Wang1, D.L. Kraitchman1; 1Baltimore, MD/US, 2Atlanta, GA/US

1406.4 Irradiation vs. conventional self-expandable metal stents for the treatment of unresectable esophageal cancer: a multicenter randomized controlled trial  
**H.-D. Zhu**, J.-H. Guo, G.-J. Teng; Nanjing/CN

1406.5 Dual-centre UK-based experience in colorectal stenting over 7 years  
**W. Sprenger De Rover1, W. Al-Obaydi1, R. Balamurugan2, R. Singh1; 1Derby/UK, 2Chesterfield/UK

1406.6 Use of transnasal approach for gastroduodenal stenting  
**S. Punamiya**; Singapore/SG

16:15-17:15  
FP 1407 Free Paper Session  
**Auditorium 5**  
**TEVAR and EVAR**

**Moderators:** A. Chavan (Oldenburg/DE), L.B. Lönn (Copenhagen/DK)

1407.1 Scalloped TEVAR in challenging aortic arch anatomy: short- and medium-term results of a single-centre experience  
**A. Alsafi**, C. Bicknell, N. Rudarakanancha, E. Kashef, R. Gibbs, M. Jenkins, M.S. Hamady; London/UK

1407.2 Fenestrated and branched stent grafting for post-dissection thoracoabdominal aortic aneurysms  
**K. Oikonomou**, A. Katsargyris, R. Wolfgang, E. Verhoeven; Nuremberg/DE

1407.3 *Aortic reconstruction with fenestrated and branched stent grafts after previous open or endovascular aortic surgery*  
**A. Katsargyris**, K. Oikonomou, R. Wolfgang, E. Verhoeven; Nuremberg/DE

1407.4 Cerebral microembolization and silent cerebral infarction with thoracic endovascular aortic repair  

1407.5 When not to use the Multilayer Flow Modulator: lessons learned from using it outside indications for use in 38 cases  
**S. Sultan**, M. Sultan, N. Hynes; Galway/IE

1407.6 Aortic arch endografting using brachiofemoral wire technique (platform)  
**S. Raz**, D. Silverberg, E. Atar, D. Planer*, M. Goodman*; 1Herzelia/IL, 2Ramat Gan/IL, 3Petah Tikva/IL, 4Jerusalem/IL
FP 1408  Free Paper Session  Auditorium 6
Combined therapy (ablation and embolisation)

Moderators: M. Katoh (Krefeld/DE), G. Mauri (San Donato Milanese/IT)

1408.1 Survival rates after radiofrequency ablation and combined radiofrequency and
drug-eluting bead transarterial chemoembolization in inoperable hepatocellular carcinoma
M.C. Burgmans, J. Schaapman, R. Wolterbeek, C.S.P. van Rijswijk, M. Coenraad, A.R. van Erkel; Leiden/NL

1408.2 Bridging and downstaging in hepatocellular carcinoma for liver transplant: a retrospective study
F. Veloso Gomes1, M. Correia2, H. Rio Tinto2, E. Coimbra2; 1Faro/PT, 2Lisbon/PT

1408.3 Local hepatic tumor control in patients undergoing transarterial lipiodol embolization followed by
microwave ablation
R. Seidel, A. Maissmann, P. Fries, G.K. Schneider, A. Buecker; Homburg/DE

1408.4 Transarterial chemoembolization and thermal ablation combination therapy in HCC prior to liver transplant
T.G. Van Ha, M. Ginsburg, R. Vasani, B.S. Funaki; Chicago, IL/US

1408.5 Single-step treatment with combined radiofrequency and embolization in hepatocellular carcinoma: a 12-year
prospective study
J. Urbano, J. Cabrera, A. Alonso-Burgos; Madrid/ES

1408.6 Outcome of RFA combined with chemoradiation in managing inoperable NSCLC patients in Bangladesh
M.R. Hassan, A.S. Murshed; Dhaka/BD

AI 1409  Amazing Interventions  Main Auditorium

Co-ordinator: R.A. Morgan (London/UK)
Panelists: A.M. Cahill (Philadelphia, PA/US), T. de Baère (Villejuif/FR), A. Gangi (Strasbourg/FR),
G.J. O’Sullivan (Galway/IE), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE),
M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

RD-HoW 1 Hands-on Workshop  HoW Room 1
Renal denervation

Co-ordinators: F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU)
Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE),
M.R. Sapoval (Paris/FR), E. J. Vonken (Utrecht/NL)

WS 1501 Workshop  Auditorium 2
DVT treatment: case-based discussion

1501.1 G.J. O’Sullivan (Galway/IE)
1501.2 K.R. Thomson (Melbourne/AU)

WS 1502 Workshop  Auditorium 4
IVC filters: case-based discussion

1502.1 M.-F. Giroux (Montreal/CA)
1502.2 R. Uberoi (Oxford/UK)
17:30-18:30  WS 1503  Workshop  UFE: case-based discussion
  Auditorium 3
  1503.1  P.N.M. Lohle (Tilburg/NL)
  1503.2  A.M. Madureira (Porto/PT)

17:30-18:30  WS 1504  Workshop  Complicated portal hypertension management: case-based discussion
  Auditorium 7
  1504.1  I.K. Tesdal (Friedrichshafen/DE)
  1504.2  G.M. Richter (Stuttgart/DE)

17:30-18:30  FP 1505  Free Paper Session  Clinical practice
  Auditorium 8
  Moderators: E. Esteban Hernández (Valencia/ES), C.L. Zollikofer (Kilchberg/CH)
  1505.1  Pre-emptive analgesia for percutaneous microwave ablation of liver tumors under moderate sedation
           A. Vari, R. Argiro', M. Rosignuolo, M. Corona, A. D'Adamo, M. Bezzi; Rome/IT
  1505.2  Value of pre-treatment MRI findings to predict the outcome of MRgFUS in ablating uterine fibroids. How much NPV do we need to predict clinical success?
           I. Mindjuk, M. Matzko; Dachau/DE
  1505.3  Impact on patient safety and satisfaction of implementation of an outpatient clinic in interventional radiology (IPSI-POLI study)
           J. Lutjeboer, M.C. Burgmans, A.R. van Erkel; Leiden/NL
  1505.4  How good are we in teaching CT-guided interventions?
           M. Pradella1, T. Heye1, C.G. Trumm2, M. Takes1, A. Kircher1, C.J. Zech1; 1Basel/CH, 2Munich/DE
  1505.5  Systematic review of aspirin, ticlopidine, clopidogrel, aspirin plus clopidogrel, and aspirin plus ticagrelor for prevention of cardiovascular events in patients with peripheral arterial disease: a Bayesian network meta-analysis of randomized controlled trials
           K.N. Katsanos1, S. Spiliopoulos2, A. Diamantopoulos1, M. Krokidis3, D. Karnabatidis4, D. Siablis5; 1London/UK, 2Patras/GR, 3Cambridge/UK
  1505.6  Anti-Müllerian hormone levels before and after uterine artery embolization: a preliminary report
           B. McLucas1, W.D. Voorhees II2; 1Beverly Hills, CA/US, 2West Lafayette, IN/US
FP 1506 Free Paper Session Auditorium 10
Special vascular IR oncology


1506.1 C-arm cone-beam CT-guided selective intraarterial chemotherapy in locally advanced lung cancer
S. Yilmaz, M. Ozdogan, N. Oz, M. Cevener, A. Kargi, A. Yildiz; Antalya/TR

1506.2 Can we trust arterial calcium stimulation with hepatic venous sampling as a precise tool to locate insulinomas preoperatively?
S. Lombardo Galera, J. Zurera Tendero, J.J. Espejo Herrero, I. Bravo Rey, M. Canis López; Cordoba/ES

1506.3 Tumor degradation after complete tumor response following transarterial ethanol ablation for hepatocellular carcinoma
S.C.-H. Yu; Hong Kong/HK

1506.4 Palliative embolootherapy for GI hemorrhage from malignant neoplasms
J.C. Andrews, C.J. Fleming, A. Stockland; Rochester, MN/US

1506.5 Improving survival and the quality of life in HCC patients with portal vein thrombosis using radio-interventional techniques
R. D'Angelo, F. Somma, R. Galasso, F. Izzo, V. Albino, F. Fiore; Naples/IT

1506.6 I-131-lipiodol therapy in local disease control and survival in patients with advanced hepatocellular carcinoma (HCC): an observational study
S.S. Shivalingappa, I. Subbanna, K.G. Kallur, S. Malige; Bangalore/IN

Satellite Symposia

Gore & Associates
Penumbra

For the detailed programmes please refer to pages 29 and 31.

Satellite Symposium
BARD

For the detailed programme please refer to page 26.
Monday, September 15

07:20-08:20
Satellite Symposium
Covidien

For the detailed programme please refer to page 29.

07:40-08:20
Satellite Symposium
Aachen Resonance

For the detailed programme please refer to page 26.

FC 1701 Fundamental Course
Main Auditorium

Basic principles of aorto-iliac disease treatment

Moderator: T. Rand (Vienna/AT)

1701.1 Treatment triage: which patients are eligible candidates?
I. Robertson (Glasgow/UK)

1701.2 Technique – lesions at the aortic bifurcation
D.K. Tsetis (Iraklion/GR)

1701.3 Technique – aortic and iliac artery stenoses
T. Jahnke (Neumünster/DE)

1701.4 Recanalising the acute and chronic aorto-iliac occlusion
S.D. Qanadli (Lausanne/CH)

SS 1702 Special Session
Auditorium 5

Vascular trials update

Moderators: J. Lammer (Vienna/AT), P. Saari (Kuopio/FI)

1702.1 Carotid
S. Macdonald (Sunnyvale, CA/US)

1702.2 Thoracic aortic aneurysm
H. Rousseau (Toulouse/FR)

1702.3 Femoro-popliteal segment
E. Atar (Petah Tikva/IL)

1702.4 Infraoplitile segment
S. Sharma (Delhi/IN)

SS 1703 Special Session
Auditorium 2

Pancreatitis

Moderators: O. Akhan (Ankara/TR), A. Keeling (Dublin/IE)

1703.1 State-of-the-art imaging and staging/grading systems
T.L. Bollen (Nieuwegein/NL)

1703.2 Endoscopic and surgical treatment options
D.F. Martin (Manchester/UK)

1703.3 Percutaneous management
M. Ryan (Dublin/IE)

1703.4 Treatment of vascular complications
R. Jackson (Newcastle-upon-Tyne/UK)
SS 1704  Special Session  Auditorium 3
Biliary and pancreatic malignancies: treatment options

Moderators: F. Florio (San Giovanni Rotondo/IT), A. Hatzidakis (Iraklion/GR)

1704.1 Intrahepatic cholangiocarcinoma: interventional treatment
G. Carrafiello (Varese/IT)

1704.2 Hilar cholangiocarcinoma: intraluminal therapies
V. Válek (Brno/CZ)

1704.3 Pancreatic tumours: irreversible electroporation
R.C.G. Martin (Louisville, KY/US)

1704.4 Pancreatic tumours: high intensity focused ultrasound
Z. Meng (Shanghai/CN)

SS 1705  Special Session  Auditorium 4
Treatment options for fibroids

Moderators: T.J. Kroencke (Augsburg/DE), J.B. Spies (Washington, DC/US)

1705.1 Non-IR treatment options: surgical and medical
I. Manyonda (London/UK)

1705.2 UAE: evidence
J.-P. Pelage (Caen/FR)

1705.3 UAE: pain and complication management
V. Bérczi (Budapest/HU)

1705.4 High intensity focused ultrasound
M. Matzko (Dachau/DE)

IVC-HoW 1  Hands-on Workshop  HoW Room 4
IVC filters

Co-ordinators: O. Pellerin (Paris/FR), T. Sabharwal (London/UK)
Instructors: I. Ahmed (London/UK), F.G. Barral (Saint Etienne/FR), P. Gkoutzios (London/UK),
M.K. Glynos (Athens/GR), T.B. Kinney (San Diego, CA/US), S. Moser (London/UK), A. Shaw (London/UK),
B.S. Tan (Singapore/SG), R. Uberoi (Oxford/UK), I. Wilson (Southampton/UK)

PTP-HoW 3  Hands-on Workshop  Simulator Gallery
Principles to practice: education and simulation skills training / Diagnosis and treatment of acute aortic syndromes

Co-ordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK)
Session organisers: T.J. Cleveland (Sheffield/UK), M.S. Hamady (London/UK)
Instructors: N. Burfitt (London/UK), D.F. Ettles (Hull/UK), N. Karunanithy (London/UK),
S.J. McPherson (Leeds/UK)

PTP 3.1 Group 1 (08:30-10:40)
PTP 3.2 Group 2 (09:40-11:50)
PTP 3.3 Group 3 (10:50-13:00)
**Monday, September 15**

**Main Programme**

10:00-11:00  
**FC 1801**  
**Fundamental Course**  
**Basic principles of femoro-popliteal disease treatment**  
**Main Auditorium**

Moderator: R.W. Günther (Aachen/DE)

- **1801.1** Treatment triage: which patients are suitable candidates?  
  J.-P. Beregi (Nîmes/FR)

- **1801.2** Technique – treating TASC A-D lesions  
  S. Müller-Hülsbeck (Flensburg/DE)

- **1801.3** Role of drug-eluting stents/balloons in the SFA and popliteal artery  
  T. Rand (Vienna/AT)

- **1801.4** Patient follow-up and indications for re-intervention  
  J. Lammer (Vienna/AT)

10:00-11:00  
**SS 1802**  
**Special Session**  
**Venous forum**  
**Auditorium 3**

Moderators: P.M. Crowe (Birmingham/UK), J.H. Peregrin (Prague/CZ)

- **1802.1** Pelvic congestion syndrome  
  A. Basile (Catania/IT)

- **1802.2** Endothermal treatment of varicose veins  
  L. Oguzkurt (Adana/TR)

- **1802.3** Non-endothermal treatment of varicose veins  
  M. Åkesson (Malmö/SE)

- **1802.4** Management of central venous obstruction  
  P. Haage (Wuppertal/DE)

10:00-11:00  
**ICS 1803**  
**Interactive Case Session**  
**Back pain treatment: disc and facet joints**  
**Auditorium 5**

- **1803.1** G.C. Anselmetti (Turin/IT)
- **1803.2** A.D. Kelekis (Athens/GR)

10:00-11:00  
**SS 1804**  
**Special Session**  
**Controversies in liver tumour ablation**  
**Auditorium 2**


- **1804.1** Will radiofrequency ablation replace surgery for small liver metastases?  
  A. Gillams (London/UK)

- **1804.2** Will microwave ablation replace radiofrequency ablation?  
  M. Bezzi (Rome/IT)

- **1804.3** Is there a role for irreversible electroporation in the liver?  
  O. Seror (Bondy/FR)

- **1804.4** Is high intensity focused ultrasound in the liver clinically acceptable?  
  F. Orsi (Milan/IT)
10:00-11:00

SS 1805 Special Session
Patient safety and quality assurance in interventional radiology

Moderators: A. Adam (London/UK), D.K. Tsetis (Iraklion/GR)

1805.1 What is quality assurance? Lessons from radiation oncology
L.M. Kenny (Brisbane/AU)

1805.2 The role of regulatory agencies: do they help or do they hinder?
J. Wilkinson (London/UK)

1805.3 How CIRSE can improve patient safety in IR
A.-M. Belli (London/UK)

1805.4 Quality improvement guidelines in interventional oncology
T. de Baère (Villejuif/FR)

11:15-12:45

RD-HoW 2 Hands-on Workshop
Renal denervation

Co-ordinators: F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU)
Instructors: J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), A. Schmid (Erlangen/DE), E.-J. Vonken (Utrecht/NL)

11:30-12:30

Satellite Symposia
Boston Scientific
Cook Medical
Covidien

For the detailed programmes please refer to pages 27-29.

13:00-14:00

Satellite Symposia
Medtronic
Sirtex Medical
Terumo Europe

For the detailed programmes please refer to pages 30 and 32-34.

13:00-14:30

IVC-HoW 2 Hands-on Workshop
IVC filters

Co-ordinators: O. Pellerin (Paris/FR), T. Sabharwal (London/UK)
Monday, September 15

13:00-14:30
TA-HoW 4 Hands-on Workshop  
Tumour ablation: tips and tricks / Bone & soft tissue

Co-ordinators: T.K. Helmberger (Munich/DE), A.D. Kelekis (Athens/GR)
Instructors: S. Marcia (Cagliari/IT), C. Trumm (Munich/DE), G. Tsoumakidou (Strasbourg/FR)

14:30-15:30
Satellite Symposium
BTG

For the detailed programme please refer to page 28.

14:30-16:00
FI 2101 Film Interpretation Quiz
Main Auditorium

Co-ordinators: S. Macdonald (Sunnyvale, CA/US), O.M. van Delden (Amsterdam/NL)

16:00-17:30
EMT-HoW 5 Hands-on Workshop  
Embolisation: materials and tools / Particulate agents

Co-ordinators: A. Martínez de la Cuesta (Pamplona/ES), E.M. Walser (Galveston, TX/US)
Instructors: L. Brody (New York, NY/US), R. Lopez-Benitez (Bern/CH), S.J. McPherson (Leeds/UK),
I. Wilson (Southampton/UK), S. Zangos (Frankfurt/DE)

16:15-17:15
WS 2201 Workshop
Complex lower limb interventions: case-based discussion

2201.1 R. Gandini (Rome/IT)
2201.2 L. Boyer (Clermont-Ferrand/FR)

16:15-17:15
WS 2202 Workshop
Catheterisation techniques with microcatheters: case-based discussion

2202.1 F. Pozzi-Mucelli (Trieste/IT)
2202.2 A.H. Mahnken (Marburg/DE)

16:15-17:15
WS 2203 Workshop
Basic principles of Y-90: case-based discussion

2203.1 J.I. Bilbao (Pamplona/ES)
2203.2 R. Salem (Chicago, IL/US)

16:15-17:15
WS 2204 Workshop
Renal interventions: case-based discussion

2204.1 L. Monfardini (Milan/IT)
2204.2 G. Tsoumakidou (Strasbourg/FR)
FP 2205 Free Paper Session Auditorium 6
Peripheral arterial disease

Moderators: M.D. Dake (Stanford, CA/US), L. Kamper (Wuppertal/DE)

2205.1 Relative importance of plantar arch integrity to crural runoff and angiosome-directed revascularization in predicting limb salvage in critical limb ischemia

2205.2 Wound healing outcomes and health-related quality-of-life changes in the ACHILLES trial: 1-year results from a prospective randomized controlled trial of infrapopliteal balloon angioplasty versus sirolimus-eluting stenting in patients with ischemic peripheral arterial disease
K.N. Katsanos1, S. Spiliopoulos2, A. Diamantopoulos1, D. Scheinert3; 1London/UK, 2Patras/GR, 3Leipzig/DE

2205.3 Randomized clinical trial favors the use of drug-coated balloons over plain balloons for post-dilatation of nitinol stents in SFA and PI segments to lower restenosis rate
D. Kieselbach1, J. Tacke2; 1Bonn/DE, 2Passau/DE

2205.4 Angioplasty and stenting for radiation-induced carotid stenosis: a comparative study with atherosclerotic stenosis in 6-year clinical outcome and in-stent restenosis

2205.5 Randomized trials for endovascular treatment of infrainguinal arterial disease: systematic review and meta-analysis (part 1: above the knee)
S. Jens, A.P. Conijn, M.J.W. Koelmaey, S. Bipat, J.A. Reekers; Amsterdam/NL

2205.6 Outcomes of endovascular first strategy in critical limb ischemia

2205.7 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 of the 3 year follow up results
M. Werk1, T. Albrecht1, D.-R. Meyer1, Ö. Gögebakan1, A. Behne1, U. Dietz2, G. Eschenbach1, H. Hartmann1, C. Lange1, B. Schnorr1, H. Stiepani1, G. Biondi Zoccai3, E.L. Hänninen1; 1Berlin/DE, 2Wiesbaden/DE, 3Rome/IT

FP 2206 Free Paper Session Auditorium 8
Cryo- and brachytherapy

Moderators: E.P. Efstatopoulos (Athens/GR), L.M. Kenny (Brisbane/AU)

2206.1 Efficacy and safety of image-guided cryoablation for stage 1 renal cell carcinoma: long-term results of a prospective study
C.S. Georgiades1, M. Lessne2, R. Rodriguez2; 1Nicosia/CY, 2Baltimore, MD/US, 3San Antonio, TX/US

2206.2 Determination and classification of hemorrhagic complications of percutaneous cryoablation for renal cancer from a prospective 5-year study
C.S. Georgiades1, M. Lessne2, R. Rodriguez2; 1Nicosia/CY, 2Baltimore, MD/US, 3San Antonio, TX/US

2206.3 Comparison of transarterial chemoembolization with radiofrequency ablation versus transarteral chemoembolization followed by stereotactic body radiation therapy for hepatocellular carcinoma
C. Ahuj1, Y. Kharoti1, M. Chadha1, J. McLarty1, J.A. Kaufman1, K. Farsad1, C. Marquez2, K.J. Kolbeck1; 1Shreveport, LA/US, 2Portland, OR/US

2206.4 Percutaneous renal cryoablation: feasibility under local anesthesia
E. de Kerviler1, A. Coffin1, C. de Bazelaire, P. Meria, P. Mongiat-Artus, F. Desgrandchamps; Paris/FR

2206.5 Portal vein stenting combined iodine-125 seeds implanted followed by transcatheter arterial chemoembolization in the treatment of hepatocellular carcinoma with portal vein tumor thrombus

2206.6 Unresectable hepatocellular carcinoma: management with CT-guided high-dose-rate brachytherapy
F. Colletti1, N. Schreiber, B. Gebauer; Berlin/DE
FP 2207  Free Paper Session  Auditorium 9
Vertebraplasty and cementoplasty

Moderators: G.C. Anselmetti (Turin/IT), M. Muto (Naples/IT)

2207.1 Pain relief in VCF patients after treatment with a novel device: study results
H.P. Hatten, Jr.; Vero Beach, FL/US

2207.2 Percutaneous long bone cementoplasty of the limbs: experience in 51 non-surgical patients
R.L. Cazzato, X. Buy, O. Eker, T. Fabre, J. Palussière; Bordeaux/FR

2207.3 VERTOS V: sham RCT for chronic osteoporotic vertebral compression fractures
D. Carli, P.N.M. Lohle; Tilburg/NL

2207.4 Percutaneous osteosynthesis plus cementoplasty for consolidation of impending pathological fracture of the proximal femur: 4 years’ experience
F. Deschamps, T. de Boère; Villejuif/FR

2207.5 Pericutaneous stabilization of metastatic disease of the acetabulum
M.P. Hartung, D. King, J.C. Neilson, S.B. White, S.M. Tutton; Milwaukee, WI/US

2207.6 Effect of percutaneous vertebraplasty in the treatment of painful Schmorl nodes
P. Li, G.-J. Teng; Nanjing/CN

FP 2208  Free Paper Session  Auditorium 10
TIPS

Moderators: M. Darcy (St. Louis, MO/US), P.E. Huppert (Darmstadt/DE)

2208.1 TIPS for refractory ascites in cirrhosis: a single-center experience using 8- and 10-mm diameter expanded-polytetrafluoroethylene covered stent
A. Luca, R. Mircaglia, L. Maruzzelli, G. Vizzini, S. Caruso, F. Tuzzolino; Palermo/IT

2208.2 Early, unexpected liver failure after TIPS placement in cirrhotic patients with good liver function (MELD ≤ 12): incidence, outcome, and prognostic factors
A. Luca, R. Mircaglia, L. Maruzzelli, G. Vizzini, S. Caruso, F. Tuzzolino; Palermo/IT

2208.3 VIATORR stent grafts do not self-expand to their nominal diameters in cirrhotic livers: good news from a computed tomography-based Italian multicentric study
F. Schepis1, F. Vizzutti2, G. Marzocchi1, P. Quaretti3, A. Rampoldi4, R. Agazzi5, R. Golﬁeri6, A. Luca7, F. Fanelli8, C. Caporalii, S. Colopi1, M. De Santis1, L. Rega2, U. Arena2, I. Fiorino2, L.P. Moramarco2, A. Airoldi2, R. Nani2, M. Renzulli9, C. Mosconi9, R. Bruno1, S. Fagiuoli2, A. Cannavale6, T. Di Maina1, E. Villa1; 1Modena/IT, 2Florence/IT, 3Pavia/IT, 4Milan/IT, 5Bergamo/IT, 6Bologna/IT, 7Palermo/IT, 8Rome/IT

2208.4 Electromagnetically navigated TIPS procedure: phantom and in vivo evaluation

2208.5 Correlation of initial technical outcome and long-term patency to associated costs in the treatment of portal hypertension with a stent and a stent graft TIPS device

2208.6 Transjugular intrahepatic portosystemic shunt flow reduction with adjustable polytetrafluoroethylene-covered balloon-expandable stents using “sheath control technique”
RD-HoW 3  Hands-on Workshop  HoW Room 1
Renal denervation
Co-ordinators: F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU)
Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

WS 2301  Workshop  Auditorium 2
The challenging diabetic foot: case-based discussion
2301.1  K.N. Katsanos (London/UK)
2301.2  S. Ingram (Edinburgh/UK)

WS 2302  Workshop  Auditorium 4
Visceral artery aneurysms: case-based discussion
2302.1  K. Zeleňák (Martin/SK)
2302.2  P.P. Goffette (Brussels/BE)

WS 2303  Workshop  Auditorium 8
Advanced approaches in Y-90: case-based discussion
2303.1  W.S. Rilling (Milwaukee, WI/US)
2303.2  M. van den Bosch (Utrecht/NL)

WS 2304  Workshop  Auditorium 3
GI-stenting: case-based discussion
2304.1  T. Sabharwal (London/UK)
2304.2  J. Phillips-Hughes (Oxford/UK)

FP 2305  Free Paper Session  Auditorium 10
Embolisation in the abdomen
Moderators: B.T. Katzen (Miami, FL/US), A. Krajina (Hradec Králové/CZ)
2305.1  Splenic artery embolization for blunt splenic injury: impact on immune function
D.W. De Boo¹, H. Kavnoudias¹, P. Foley², P. Cameron¹, K.R. Thomson¹, S.M. Lyon¹; ¹Melbourne/AU, ²Canberra/AU
2305.2  Transarterial embolization of renal arteries before transplantation in patients with polycystic kidney disease: long-term results
F. Petritti¹, F. Cornelis, A.-S. Lasserre, E. Tricaud, M. Bouzagrou, Y. Lebras, N. Grenier; Bordeaux/FR
2305.3  Emborrhoid – embolization of the hemorrhoidal arteries: a new concept in the treatment of hemorrhoidal disease
V. Vidal¹, M.R. Sapova², G. Louis³, O. Pellerin², V. De Parades², J. Sielezneff², J.-M. Bartoli²; ¹Marseille/FR, ²Paris/FR
2305.4  Selective embolization strategy for non-variceal duodenal bleeding: is empiric embolization really required?
S. Hur¹, H.J. Jae¹, M. Lee¹, H.-C. Kim¹, J.W. Chung¹, J.D. Kim², Y.H. So¹; ¹Seoul/KR, ²DaeJeon/KR
2305.5  Spontaneous and successful live birth pregnancy after uterine artery embolization for women with uterine fibroid: 109 live births
J.M. Pisco, M. Duarte, F. Cirurgião, M. Forjaz, T. Bilhim, H. Río Tinto, L. Fernandes, J.A. Pereira, A.G. Oliveira; Lisbon/PT
2305.6  Clinical application of FlightPlan for Liver for the treatment of hepatocellular carcinoma
S.-M. Joo, K.-H. Lee; Seoul/KR
104  Monday, September 15

17:30-18:30

FP 2306  Free Paper Session
MRFUS (HIFU) & IRE

Auditorium 7

Moderators: A. Basile (Catania/IT), R.C.G. Martin (Louisville, KY/US)

2306.1 Ablation of colorectal liver metastases by irreversible electroporation: results of the COLDFIRE-I ablate-and-resect study

2306.2 Irreversible electroporation fails to demonstrate efficacy in a prospective multicenter phase II trial on lung malignancies
J. Jürgens1, F. Deschamps2, K. Uhde1, L. Tselikas2, O. Kosiek1, J. Ricke1, T. de Baère2; 1Magdeburg/DE, 2Villejuif/FR

2306.3 Magnetic resonance-guided focused ultrasound surgery of primary pancreatic and hepatic cancer: a totally non-invasive treatment
F. Zaccagna, F. Boni, L. Bertaccini, C. Palla, M. Anzidei, A. Napoli, C. Catalano; Rome/IT

2306.4 Non-invasive focal therapy of organ-confined prostate cancer: phase I study using magnetic resonance-guided focused ultrasound technology and excision pathology for efficacy assessment
M. Anzidei, A. Napoli, F. Boni, C. Palla, L. Bertaccini, A. Leonardi, C. Catalano; Rome/IT

2306.5 Magnetic resonance-guided focused ultrasound surgery of bone metastases: from primary pain palliation to local tumour control
V. Noce, F. Zaccagna, F. Boni, C. Palla, L. Bertaccini, A. Napoli, C. Catalano; Rome/IT

2306.6 Findings on computed tomography after irreversible electroporation of malignant liver tumors

17:30-17:50
Satellite Symposium
Penumbra

For the detailed programme please refer to page 31.

17:30-18:10
Satellite Symposium
BARD
Gore & Associates

For the detailed programmes please refer to pages 26 and 29.
Tuesday, September 16

08:00-08:20  
**Satellite Symposium**  
**Surefire Medical**

For the detailed programme please refer to page 33.

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08:30-09:30  
**FC 2501**  
**Fundamental Course**  
**Basic principles of renal cancer management**  
**Auditorium 2**

*Moderator: X. Buy (Bordeaux/FR)*

2501.1 Triage of the small renal cancer patient  
*J. Tacke (Passau/DE)*

2501.2 Ablation: results and complications  
*D.J. Breen (Southampton/UK)*

2501.3 Surgery: results and complications  
*M. Sullivan (Oxford/UK)*

2501.4 Patient follow-up and imaging  
*J. Garnon (Strasbourg/FR)*

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08:30-09:30  
**SS 2502**  
**Special Session**  
**Acute lower limb ischaemia**  
**Auditorium 3**

*Moderators: D.F. Ettles (Hull/UK), D. Karnabatidis (Patras/GR)*

2502.1 Epidemiology, clinical presentation and imaging  
*A. Buecker (Homburg/DE)*

2502.2 Morbidity, mortality, limb loss rates and patient selection  
*G.S. Goh (Melbourne/AU)*

2502.3 Thrombolysis: evidence and technique  
*D.O. Kessel (Leeds/UK)*

2502.4 Mechanical thrombectomy: evidence and technique  
*H.-J. Wagner (Berlin/DE)*

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08:30-09:30  
**SS 2503**  
**Special Session**  
**Abdominal aorta – Evidence forum**  
**Main Auditorium**

*Moderators: R.A. Morgan (London/UK), B.F. Stainken (Providence, RI/US)*

2503.1 Fenestrated versus Chimney EVAR for pararenal aortic aneurysms  
*E. Verhoeven (Nuremberg/DE)*

2503.2 Iliac sidebranch graft for aorto-iliac aneurysms  
*L.B. Lönn (Copenhagen/DK)*

2503.3 Trials update for planned and emergency EVAR  
*R.G. McWilliams (Liverpool/UK)*

2503.4 Endovascular aneurysm sealing (EVAS)  
*O. Pellerin (Paris/FR)*
08:30-09:30  
SS 2504 Special Session  
Vascular malformations: state-of-the-art management  
Auditorium 4

Moderators: I.J. McCafferty (Birmingham/UK), B. Peynircioglu (Ankara/TR)

2504.1 Vascular malformation (VM) classification, clinic and typical imaging features  
G. Soulez (Montreal/CA)

2504.2 Technique and material for low-flow VMs  
J.P. Burnes (Clayton/AU)

2504.3 Technique and material for high-flow AVMs  
P. Waldenberger (Linz/AT)

2504.4 Special considerations in paediatric VMs  
A.M. Barnacle (London/UK)

08:30-09:30  
SS 2505 Special Session  
IR clinical specialty  
Auditorium 5

Moderators: D.A. Kelekis (Athens/GR), M.J. Lee (Dublin/IE)

2505.1 Key requisites for the IR practice  
I. Robertson (Glasgow/UK)

2505.2 Demonstrating quality through data  
P. Reimer (Karlsruhe/DE)

2505.3 IR: multidisciplinary team  
A. Adam (London/UK)

2505.4 IR: stand-alone  
C.R. Hamilton (Houston, TX/US)

08:30-10:00  
IVC-HoW 3 Hands-on Workshop  
IVC filters  
HoW Room 4

Co-ordinators: O. Pellerin (Paris/FR), T. Sabharwal (London/UK)  
Instructors: I. Ahmed (London/UK), F.G. Barral (Saint Etienne/FR), P. Gkoutzios (London/UK),  
M.K. Glynos (Athens/GR), T.B. Kinney (San Diego, CA/US), S. Moser (London/UK),  
A. Shaw (London/UK), B.S. Tan (Singapore/SG), R. Uberoi (Oxford/UK), I. Wilson (Southampton/UK)

08:30-13:00  
PTP-HoW 4 Hands-on Workshop  
Principles to practice: education and simulation skills training /  
Basic principles of peripheral arterial intervention  
Simulator Gallery

Co-ordinators: D.O. Kessel (Leeds/UK), I. Robertson (Glasgow/UK)  
Session organiser: S. Chakraverty (Dundee/UK)  
Instructors: J. Atchley (Portsmouth/UK), R. Bhat (Dundee/UK), S. Ingram (Edinburgh/UK),  
R. Miles (Plymouth/UK)

PTP 4.1 Group 1 (08:30-10:40)  
PTP 4.2 Group 2 (09:40-11:50)  
PTP 4.3 Group 3 (10:50-13:00)
10:00-11:00
**FC 2601 Fundamental Course**  
**Fundamental Course**  
**Basic principles of hepatic colorectal metastases management**  
Moderator: A. Denys (Lausanne/CH)

2601.1 Triage of the metastatic colorectal patient for local treatment  
G.J. Poston (Liverpool/UK)

2601.2 Ablation: results and complications  
T.F. Jakobs (Munich/DE)

2601.3 Intra-arterial chemotherapy: results and complications  
O. Pellerin (Paris/FR)

2601.4 Radioembolisation: results and complications  
R. Salem (Chicago, IL/US)

10:00-11:00
**SS 2602 Special Session**  
**Chronic critical limb ischaemia**  

2602.1 Clinical presentation and wound management  
V. Bérczi (Budapest/HU), Z.R. Szeberin (Budapest/HU)

2602.2 Drug therapy: salvage or adjunctive  
M. Bratby (Oxford/UK)

2602.3 Patency vs. clinical success of revascularisation  
S. Spiliopoulos (Rion/GR)

2602.4 Procedural complications and their management  
H.I. Manninen (Kuopio/FI)

10:00-11:00
**SS 2603 Special Session**  
**Thoracic aorta – Evidence forum**  
Moderators: F. Fanelli (Rome/IT), J. Hardman (Bath/UK)

2603.1 TEVAR for thoracic aortic aneurysm and aortic dissection  
M.A. Funovics (Vienna/AT)

2603.2 TEVAR for aortic trauma and Marfan syndrome  
T. Pfammatter (Zürich/CH)

2603.3 TEVAR induced neurologic and vascular complications  
A. Chavan (Oldenburg/DE)

2603.4 Total aortic arch aneurysm exclusion  
R.A. Morgan (London/UK)

10:00-11:00
**ICS 2604 Interactive Case Session**  
**Embolisation in iatrogenic bleeding**  
Moderator: A. Krajina (Hradec Králové/CZ)

2604.1 A. Krajina (Hradec Králové/CZ)

2604.2 A.F. Watkinson (Exeter/UK)
10:00-11:00

CM 2605  
CIRSE meets Israel: Innovations in IR  
Moderators: G. Bartal (Kfar-Saba/IL), A.-M. Belli (London/UK)

2605.1 Advances and innovations in tumour ablation: from Israel with love  
N. Goldberg (Jerusalem/IL)
2605.2 Novel endovascular solutions to arch, peri-renal and abdominal aortic aneurysms  
E. Atar (Petah Tikva/IL)
2605.3 Advances in endovascular simulation  
G. Bartal (Kfar-Saba/IL)

11:15-12:45

RD-HoW 4  
Hands-on Workshop  
Renal denervation  
Co-ordinators: F. Fanelli (Rome/IT), G.S. Goh (Melbourne/AU)  
Instructors: J.G. Moss (Glasgow/UK), J.A. Reekers (Amsterdam/NL), A. Saleh (Munich/DE), M.R. Sapoval (Paris/FR), E.-J. Vonken (Utrecht/NL)

VV-HoW 1  
Hands-on Workshop  
Varicose veins  
Co-ordinators: J.A. Brookes (London/UK), K.D. McBride (Dunfermline/UK)  
Instructors: D. Carradice (Hull/UK), I. Franklin (London/UK), D. Greenstein (Harrow/UK), A. Komarek (Ried im Innkreis/AT), A. Milne (Kirkcaldy/UK), L. Oguzkurt (Adana/TR), A. Szabó (Budapest/HU)

11:30-12:30

SS 2701  
Special Session  
NSCLC and lung metastases: treatment options  
Moderators: G. Carrafiello (Varese/IT), C.T. Sofocleous (New York, NY/US)

2701.1 Surgery for NSCLC: patient selection  
A.J.B. Kirk (Glasgow/UK)
2701.2 Stereotactic radiation therapy of NSCLC: indications and results  
L.M. Kenny (Brisbane/AU)
2701.3 Ablation of NSCLC: indications and results  
D.E. Dupuy (Providence, RI/US)
2701.4 Ablation of pulmonary metastases: indications and results  
A. Gillams (London/UK)
SS 2702 Special Session  Pedal angioplasty  Auditorium 3

Moderators: C. Cousins (Cambridge/UK), H. Lindgren (Helsingborg/SE)

2702.1 Imaging, indication, and patient selection  
D. Karnabatidis (Patras/GR)
2702.2 Dedicated material and procedural patient management  
H. Kobeiter (Créteil/FR)
2702.3 Technique and complication management  
M.G. Manzi (Abano Terme/IT)
2702.4 Digital artery access for foot artery recanalisation  
L.M. Palena (Abano Terme/IT)

SS 2703 Special Session  Haemodialysis access management  Auditorium 2

Moderators: F.G. Irani (Singapore/SG), M. Roček (Prague/CZ)

2703.1 Endovascular treatment of immature fistulas  
C. Hohl (Siegen/DE)
2703.2 Stent-grafts: current evidence in grafts and native fistulas  
Z.J. Haskal (Charlottesville, VA/US)
2703.3 Drug-eluting balloons: current evidence  
R.B. Shoenfeld (West Orange, NJ/US)
2703.4 Paediatric dialysis: state-of-the-art interventions  
S. Sierre (Buenos Aires/AR)

SS 2704 Special Session  Practical issues in dose management  Auditorium 5

Moderators: W. Jaschke (Innsbruck/AT), R.W. Loose (Nuremberg/DE)

2704.1 Radiation hazards: skin injuries, cataract and neoplasms  
M. Rehani (Vienna/AT)
2704.2 How to implement a radiation protection safety culture in your department  
E.P. Elstatopoulos (Athens/GR)
2704.3 Education and training in fluoroscopy-guided procedures: what, who and how  
G. Paulo (Coimbra/PT)
2704.4 How to optimise angiographic equipment settings for radiation protection  
G. Bartal (Kfar-Saba/IL)

12:00-14:00  Satellite Symposia
Siemens  
Straub Medical  
Terumo Europe

For the detailed programmes please refer to pages 32-34.
13:00-14:30  
**TA-HoW 5 Hands-on Workshop**  
**Tumour ablation: tips and tricks / Kidney**  
*Co-ordinators: T.K. Helmberger (Munich/DE), A.D. Kelekis (Athens/GR)  
Instructors: G. Carrafiello (Varese/IT), C.S. Georgiades (Nicosia/CY), S.M. Tutton (Milwaukee, WI/US)*

14:30-16:00  
**Honorary Lecture / Hot Topic Symposium**

14:30-15:00  
**HL 2901 Josef Roesch Lecture**  
*Main Auditorium*  
**Moderator: A.-M. Belli (London/UK)**  
**Laudation: J.-P. Pelage (Caen/FR)**

2901.1 Prostatic artery embolisation: familiar concept, new indication and state-of-the-art methods  
*F.C. Carnevale (São Paulo/BR)*

15:00-16:00  
**HTS 2902 HIFU: Just another IR modality?**  
*Main Auditorium*  
**Moderators: A.-M. Belli (London/UK), C.A. Binkert (Winterthur/CH)**

2902.1 Principles of MR-HIFU: what an IR should know  
*A. Melzer (Dundee/UK)*

2902.2 MR-HIFU for uterine fibroids: which patients should be treated?  
*M. Matzko (Dachau/DE)*

2902.3 MR-HIFU for painful bone lesions: palliation or more?  
*A. Napoli (Rome/IT)*

2902.4 MR-HIFU for prostate: is the transurethral approach the right one?  
*R. Chopra (Dallas, TX/US)*

16:00-17:30  
**SY 2903 Satellite Symposium**  
**Auditorium 2**  
**The role of Lipiodol TACE**  
**Moderators: W.S. Rilling (Milwaukee, WI/US), R. Salem (Chicago, IL/US)**

2903.1 A critical appraisal of staging and treatment allocation systems: BCLCC vs Hong Kong  
*R. Lencioni (Pisa/IT)*

2903.2 How I do Lipiodol TACE in HCC? The opinion of a panel of experts  
*T. de Baère (Villejuif/FR)*

2903.3 Results of Lipiodol TACE in HCC: evidence based from 40 years of practice and over 1000 publications  
*Y. Arai (Tokyo/JP)*

17:00-18:00  
**VV-HoW 2 Hands-on Workshop**  
**Varicose veins**  
*Co-ordinators: J.A. Brookes (London/UK), K.D. McBride (Dunfermline/UK)  
Instructors: D. Carradice (Hull/UK), J. Franklin (London/UK), D. Greenstein (Harrow/UK),  
A. Komarek (Ried im Innkreis/AT), A. Milne (Kirkcaldy/UK), L. Oguzkurt (Adana/TR),  
A. Szabó (Budapest/HU)*
16:15-17:15  
**WS 3001 Workshop**  
TIPS and BRTO: case-based discussion  
Auditorium 3  
3001.1 K. Kichikawa (Nara/JP)  
3001.2 S. Punamiya (Singapore/SG)  

16:15-17:15  
**WS 3002 Workshop**  
Haemoptysis: case-based discussion  
Auditorium 4  
3002.1 P. Minko (Homburg/DE)  
3002.2 J. Pollak (New Haven, CT/US)  

16:15-17:15  
**WS 3003 Workshop**  
New technologies in liver tumour ablation: case-based discussion  
Auditorium 2  
3003.1 D.K. Filippiadis (Athens/GR)  
3003.2 Y. Arai (Tokyo/JP)  

16:15-17:15  
**WS 3004 Workshop**  
Taking the EBIR  
Auditorium 6  
3004.1 K.A. Hausegger (Klagenfurt/AT)  
3004.2 P. Reimer (Karlsruhe/DE)  

16:15-17:15  
**FP 3005 Free Paper Session**  
Tumour ablation  
Auditorium 5  
**Moderators:** L. Monfardini (Milan/IT), F. Orsi (Milan/IT)  

3005.1 Radiofrequency ablation for chondroblastoma: a safe and effective technique or just a mirage?  
3005.2 Percutaneous radiofrequency ablation for children with small lung metastases  
F. Deschamps, T. de Boere; Villejuif/FR  
3005.3 Microwave ablation of liver metastases from colorectal cancer: an Italian multicenter study  
G. Poggi, L. Solbiati, M.F. Meloni, M. Bezzel, B. Montagna, D. Gasparini, L. Carata, F. Antonella, C. Gazzera, R. Grasso, C.L. Mezzoldo, A. Noto, S. Sartori, F. Stacul; 1Pavia/IT, 2Busto Arsizio/IT, 3Monza/IT, 4Rome/IT, 5Udine/IT, 6Lecce/IT, 7Chieti/IT, 8Tunin/IT, 9Taranto/IT, 10Cosenza/IT, 11Ferrara/IT, 12Trieste/IT  
3005.4 Immediate post-liver tumor ablation biopsy can predict local tumor progression  
3005.5 Lung metastases of colorectal carcinoma: percutaneous radiofrequency ablation under C-arm cone-beam CT guidance  
3005.6 Single-center experience of radiofrequency ablation, cryoablation, and transarterial embolization of adrenal metastasis  
R.F. Grasso, G. Luppi, E. Faiella, F. Giurazza, R.L. Cazzato, S. Mercurio, B. Beomonte Zobel; Rome/IT
FP 3006  Free Paper Session  
Venous lysis and stenting  

**Moderators:** M.W. de Haan (Maastricht/NL), R.W. Günther (Aachen/DE)

**3006.1** Hybrid treatment with angiographic catheter in massive pulmonary embolism: mechanical fragmentation and fibrinolysis  
S. Pieri, A. Paolo; Rome/IT

**3006.2** Transvenous SVC biopsy during SCV stenting in patients with SVC-obstructing intrathoracic malignancy  
F. Kovacs¹, W. Sprenger De Rover², G. Pollock¹, P.M. Bungay¹, P. Thurlley³; ¹Derby/UK, ²Nottingham/UK

**3006.3** Pulmonary embolism response to fragmentation, embolectomy, and catheter thrombolysis (PERFECT): initial results from a prospective multicenter registry  

**3006.4** Deep blue something: catheter-directed thrombolysis of iliofemoral vein thrombosis – a single-center experience  
P. Staunton, S. McHugh, D. Moneley, A.L. Leahy, M.F. Given, F. McGrath, A. Keeling, P. Naughton, M.J. Lee; Dublin/IE

**3006.5** Aggressive endovascular treatment of deep vein thrombosis: PEARL registry outcomes demonstrate favorable improvement over published reports  
M.J. Garcia¹, R.A. Lookstein², A. Amin³, L. Blitz⁴, D. Leung⁵, E. Simoni⁶; ¹Newark, DE/US, ²New York, NY/US, ³Reading, PA/US, ⁴Pompton Plains, NJ/US, ⁵Hershey, PA/US, ⁶Providence, RI/US

**3006.6** Endovascular management of chronic deep venous thrombosis: clinical and imaging outcomes  
C.J. Grilli, C. Wrigley, D. Leung, G. Kimbiris, K. Lie, D. Agriantonis, M.J. Garcia; Newark, DE/US

FP 3007  Free Paper Session  
TACE  

**Moderators:** K. Malagari (Athens/GR), M.B. Matson (London/UK)

**3007.1** Transarterial chemoembolization with irinotecan drug-eluting beads in patients with unresectable colorectal liver metastases refractory to multiple lines of standard systemic therapy: our single-center multidisciplinary study  
A. Guerra, R. Iezzi, M. Nestola, A. Posa, E.G.M. Antonuccio, L. Bonomo; Rome/IT

**3007.2** Chemoembolization of hepatocellular carcinoma with M1 drug-eluting beads: safety and effectiveness  
A.F. Nicolini, S. Crespi, A. Bellobuono, M. Triolo, L. Martinetti, M. Lavarone, A. Sangiovanni; Milan/IT

**3007.3** Anatomical and functional imaging methods to assess c-TACE efficacy in a hepatocellular carcinoma animal model  

**3007.4** Transcatheter arterial chemoembolisation of intermediate stage hepatocellular carcinoma with drug-eluting beads under cone-beam computed tomography control  
P. Popovic, M. Garbajs, M. Stabuc, D. Nuredini, P. Kavcic, D. Kuhelj; Ljubljana/SI

**3007.5** Hepatic metastases from uveal melanoma treated with transarterial drug-eluting beads loaded with irinotecan  

**3007.6** DEB-TACE for unresectable hepatocellular carcinomas: results from a tertiary cancer care centre in India  
FP 3008 Free Paper Session
Experimental work (transarterial)

Moderators: M. Maynar (Santa Cruz De Tenerife/ES), M. Rossi (Rome/IT)

3008.1 Pharmacokinetics and antitumor efficacy of chemoembolization using novel 40-μm irinotecan-loaded microspheres in a rabbit liver tumor model
T. Tanaka¹, H. Nishiofuku¹, Y. Hukuoka¹, T. Sato¹, T. Masada¹, J. Ren², C.W. Gilbert², K. Kichikawa¹; ¹Kashihara/JP, ²San Antonio, TX/US

3008.2 Feasibility, safety and efficacy of intra-arterial delivery of autologous bone marrow-derived stem cells in treating diabetes mellitus
S. Sharma, S. Kumar, P. Jagia, G.S. Gulati, B. Bhargava, S. Mohanty; Delhi/IN

3008.3 Initial evaluation of the arterial recanalization and ischemic effect after embolization of the uterine artery with a new degradable microsphere in a sheep model
J. Bengtsson¹, L. Keusser¹, E. Karlstam², D. Gavier-Widén², W. Cwikiel¹; ¹Lund/SE, ²Uppsala/SE

3008.4 Liver percutaneous isolated localized perfusion: interim results of the first-in-man trial
G.A. Maleux¹, P.P. Goffette¹, L. Defreyne¹, S. Heye¹, J.J. Fierens², E.J. Bartholomé³, K. Geboes¹, M. Van den Eynde², E. Van Cutsem¹; ¹Leuven/BE, ²Brussels/BE, ³Gent/BE

3008.5 Next generation multimodal-visible embolization particles: a feasibility study in rabbit and pig animal models
J. Budjan, E. Appel, T. Nguyen, S. Diehl, S. Schönberg, C. Reis, S. Bartling; Mannheim/DE

3008.6 Automatic 3D detection of prostatic arteries using cone-beam computed tomography during prostatic arterial embolization: a feasibility study
M. Chiaradia¹, J. Mayer¹, A. Campeggi¹, L. Novelli¹, M. Bouanane¹, A. De La Taille¹, A. Radoelli², H. Kobeiter¹; ¹Créteil/FR, ²Best/NL

WS 3101 Workshop
Complex EVAR interventions: case-based discussion

17:30-18:30
3101.1 J.F. Benenati (Miami, FL/US)
3101.2 T. Pfammatter (Zurich/CH)

WS 3102 Workshop
Management of ENT bleeding: case-based discussion

17:30-18:30
3102.1 A.M. Al-Kutoubi (Beirut/LB)
3102.2 G. Mühlenbruch (Würselen/DE)

WS 3103 Workshop
Advanced TACE: case-based discussion

17:30-18:30
3103.1 O. Matsui (Kanazawa/JP)
3103.2 K. Malagari (Athens/GR)
17:30-18:30  
**FP 3104 Free Paper Session**  
Radioembolisation  
Auditorium 5

*Moderators: B.F. Stainken (Providence, RI/US), B.S. Tan (Singapore/SG)*

3104.1 Feasibility of combining capecitabine and temozolomide with yttrium-90 radioembolization (CapTemY90) for intermediate-grade metastatic neuroendocrine tumors  

3104.2 Radioembolization for hepatocellular carcinoma using yttrium-90 resin microspheres: general experiences in Korea  
Y.H. Kim1, **E. Chung**1, G.M. Kim1, C.W. Kim1, H.J. Chun1, D.I. Kwon1, K.-H. Lee1, J.Y. Won1, J.K. Kim1, J.W. Chung1, Korean Radioembolization Association1; 1Seoul/KR, 2Busan/KR

**3104.3 Prospective randomized comparison of selective internal radiotherapy versus transarterial chemoembolization for the treatment of hepatocellular carcinoma**  

**3104.4 Carcinoembryonic antigen response after initial single- or multi-session radioembolization for colorectal cancer: analysis of cumulative delivered radioactivity and dose**  
**D. Goldin**1, S. Reich2, D. George2, L. Bahoura2, S. Emerson2, J. Campbell2, M. Savin2; 1Charleston, SC/US, 2Royal Oak, MI/US

**3104.5 Radioembolization for portal vein tumor thrombosis using yttrium-90 resin microspheres: general experiences in Korea**  

**3104.6 Prospective, randomized study of coiling vs surefire infusion system in Y-90: clinical outcomes in HCC patients – subgroup analysis of safety and efficacy from the COSY Trial**  
**A.M. Fischman**1, S.C. Lewis1, R. Patel1, E. Kim1, F.S. Nowakowski1, R.A. Lookstein1, A. Arepally1; 1New York, NY/US, 2Atlanta, GA/US

17:30-18:30  
**FP 3105 Free Paper Session**  
IR oncology and versus non-IR therapies  
Auditorium 6

*Moderators: J. Garnon (Strasbourg/FR), W.A. Wohlgemuth (Regensburg/DE)*

3105.1 Usefulness of RENAL nephrometry scoring system for predicting outcomes of percutaneous ablation: comparison between radiofrequency ablation and microwave ablation  
**C. Floridi**1, W. Prevoo2, E. Macchi1, M. Petrillo1, A.M. Ierardi1, F. Fontana1, G. Carrafiello1, Varese/IT, 2Amsterdam/NL

**3105.2 Retrospective comparison between renal tumors treated with radiofrequency ablation and laparoscopic partial nephrectomy – theatre time, hospital stay length, complications and treatment results**  

**3105.3 Radiofrequency ablation versus non-anatomical resection: long-term results in 580 patients with a single small hepatocellular carcinoma of ≤3cm**  
**T.W. Kang**, H. Rhim; Seoul/KR

**3105.4 Negative-balance isolated pelvic perfusion for uterine cervical cancer**  

**3105.5 Robot-assisted partial nephrectomy versus percutaneous radiofrequency ablation for the treatment of small renal cell carcinoma**  
**M. Pantelidou**1, K.N. Katsanos1, B. Challacombe1, P.M. Kitrou2, M. Brown1, A. Adam1; 1London/UK, 2Patras/GR

**3105.6 Effect of liver cirrhosis on portal vein embolization before right hepatectomy in patients with primary liver cancer**  
17:30-18:30

FP 3106 Free Paper Session
Filters and ports
Auditorium 7

Moderators: S.B. Babu (Plymouth/UK), S. Frei (St. Gallen/CH)

3106.1 Percutaneous re-positioning of displaced port catheters in patients with dysfunctional central venous port systems
A. Massmann, P. Jagoda, N. Kranzhoefer, A. Buecker; Homburg/DE

3106.2 Local low-dose thrombolysis for safe and effective treatment of venous port catheter thrombosis
P. Jagoda, T. Probst, A. Rostam, N. Kranzhoefer, G.K. Schneider, A. Buecker, A. Massmann; Homburg/DE

3106.3 Managing malfunctioning ports: revise or replace?
W.M. Pabon-Ramos, R.A. Ruberte Thiele; Durham, NC/US

3106.4 Intermediate-term experience with the ALN optional filter in a large US tertiary institute – deployment, safety, and retrievability
R.C. Zvavanjanja, L. Sedrak, N. Clark, A.M. Cohen; Houston, TX/US

3106.5 Optional vena cava filter placement and 3 months retrievability: results of the PREPIC 2-randomized multicenter trial
O. Pellerin1, F.G. Barral2, O. Sanchez1, G. Meyer1, P. Mismetti2, M.R. Sapoval3; 1Paris/FR, 2Saint Etienne/FR

3106.6 Suprarenal vena cava filter placement and removal: technical and clinical outcomes
O. Pellerin1, F.G. Barral2, B. Hag Mohamed Ali2, G. Amouyal1, M.R. Sapoval3; 1Paris/FR, 2Saint Etienne/FR

17:30-18:30

FP 3107 Free Paper Session
Aortic interventions
Auditorium 8

Moderators: F. Fanelli (Rome/IT), R.G. McWilliams (Liverpool/UK)

3107.1 Endovascular aneurysm repair versus open repair for patients with a ruptured abdominal aortic aneurysm: a systematic review and meta-analysis
S.C. van Beek, A.P. Conijn, M.J.W. Koellemay, R. Balm; Amsterdam/NL

3107.2 Endovascular repair of acute and chronic aortic type B dissections: impact on aortic remodeling and clinical outcome
A. Cannavale, F. Fanelli, M. Corona, P. Lucatelli, C. Cirelli, A. D’Adamo, F.M. Salvatori; Rome/IT

3107.3 Acute kidney injury in ruptured abdominal aortic aneurysms: an underestimated problem
S.C. van Beek, D.A. Legemate, A. Vahl, C.S.C. Bouman, L. Vogt, W. Wisselink, R. Balm; Amsterdam/NL

3107.4 Complications and secondary interventions following Nellix sac-anchoring endoprosthesis for abdominal aortic aneurysm repair
S. Ameli-Renani, A. Weller, I. Loftus, M. Thompson, R.A. Morgan; London/UK

3107.5 Endovascular repair of mycotic aortic aneurysms: experience in a tertiary centre

3107.6 Morphological determinants of EVAR failure with chimney and periscope grafts
M.J. Glenck1, G. Puispen1, F. Pecoraro2, M.L. Lachat1, T. Frauenfelder1, T. Pfammatter1; 1Zurich/CH, 2Palermo/IT

17:30-18:30

FP 3108 Free Paper Session
Experimental work (new techniques)
Auditorium 9

Moderators: A.H. Mahnken (Marburg/DE), G. Sandbaek (Oslo/NO)

3108.1 Experimental study on treatment of transplanted VX2 tumor of rabbit with intratumoral ozone injection
J. Yang, Q. Wei; Shanghai/China

3108.2 New intravascular elution device for the interventional radiological treatment of pancreatic neoplasm: in vitro and in vivo early results
R. Lopez-Benitez1, G.M. Cruise2, M.J. Constant2, J. Reheveshagen1, Y. Wu2; 1Bern/CH, 2Tustin, CA/US

3108.3 Evaluation of the cooling effect of liver vessels in microwave ablation: an experimental pig liver model
K.I. Ringel6, C. Latat1, C. Rieder1, F. Wacker1, H.-J. Raatshen1; 1Hannover/DE, 2Bremen/DE

3108.4 Retrospective computer simulation can predict magnetic resonance imaging and clinical outcomes following ultrasound-guided irreversible electroporation of the prostate
F. Cornelis1, G. Srimathveeravalli2, J. Coleman3, S.B. Solomon2; 1Bordeaux/FR, 2New York, NY/US

3108.5 Time-resolved perfusion imaging in the angio suite: comparison of a new flat-panel detector-based assessment of tumor perfusion with CT perfusion in rabbit VX2 tumors
J. Jürgens1, N. Schulz1, M. Seidensticker1, C. Wybranski1, S. Streit1, J. Brauner1, Y. Kyriakou2, J. Rieck1, O. Dudeck1; 1Magdeburg/DE, 2Forchheim/DE

3108.6 Effect of substituting sterile water with 50% isovue as the delivery medium for SIR-spheres: improved percentage delivery and decreased administration time
C. Chao, M.C. Soulen, J.J. Mondschein, M. Dagli, D. Sudheendra, S.W. Stavropoulos; Philadelphia, PA/US
Wednesday, September 17

08:30-09:30
SS 3201 Special Session
Image fusion for vascular interventions
Auditorium 5

Moderators: D.A. Brisbois (Liège/BE), D.D. Liermann (Herne/DE)

3201.1 Fundamentals and rationale for image fusion
H. Kobeiter (Créteil/FR)

3201.2 Zero contrast intervention: a realistic ambition?
M. Das (Maastricht/NL)

3201.3 Fusion for peripheral artery disease
A. Holden (Auckland/NZ)

3201.4 Fusion for endovascular prosthesis placement
A.M.H. Sailer (Maastricht/NL)

08:30-09:30
SS 3202 Special Session
Combination therapies of liver tumours
Auditorium 3

Moderators: J.I. Bilbao (Pamplona/ES), L. Solbiati (Busto Arsizio/IT)

3202.1 Ablation and transarterial therapy
H. Rhim (Seoul/KR)

3202.2 Ablation with systemic therapies
N. Goldberg (Jerusalem/IL)

3202.3 Combining transarterial and systemic therapies
J.-F.H. Geschwind (Baltimore, MD/US)

3202.4 Ablation with immunotherapy
C. Gouttefangeas (Tuebingen/DE)

08:30-09:30
SS 3203 Special Session
Biliary interventions
Auditorium 4

Moderators: B.S. Tan (Singapore/SG), O.M. van Delden (Amsterdam/NL)

3203.1 Percutaneous treatment of malignant hilar lesions
P. Vilares Morgado (Porto/PT)

3203.2 Treatment of benign strictures, including roux loop approach
M. Krokidis (Cambridge/UK)

3203.3 Percutaneous treatment of bile duct stones
P.A.M.S. Almeida (Viseu/PT)

3203.4 Percutaneous cholecystostomy and gallbladder stone management
J. Phillips-Hughes (Oxford/UK)
10:00-11:00  SS 3301 Special Session  Auditorium 5

**IVC filters**

**Moderators:** J. Egge (Haugesund/NO), R. Uberoi (Oxford/UK)

3301.1 Current evidence  
_N. Ptohis (Athens/GR)_

3301.2 Unusual locations for IVC filter placement  
_A.C. Roberts (La Jolla, CA/US)_

3301.3 Complications of IVC filter placement  
_T.B. Kinney (San Diego, CA/US)_

3301.4 Difficult IVC filter retrieval  
_C.A. Binkert (Winterthur/CH)_

10:00-11:00  ICS 3302 Interactive Case Session  Auditorium 6

**Complications in transarterial hepatic treatments**

3302.1  
P.L. Pereira (Heilbronn/DE)

3302.2  
R.J. Lewandowski (Chicago, IL/US)

10:00-11:00  SS 3303 Special Session  Auditorium 3

**Pre-, peri- and post IR patient care**

**Moderators:** A. Adam (London/UK), D.K. Tsetis (Iraklion/GR)

3303.1 Pre-operative assessment and preparation  
_K.S. Koulia (Athens/GR)_

3303.2 IR relevant sedation and analgesia techniques  
_A. Vari (Rome/IT)_

3303.3 IR relevant locoregional techniques  
_M.D. Stoneham (Oxford/UK)_

3303.4 Post-interventional patient management  
_T.J. Cleveland (Sheffield/UK)_

11:30-12:30  MM 3401 Morbidity & Mortality Conference and Closing  Auditorium 3

**Co-ordinators:** A. Hatzidakis (Iraklion/GR), A.F. Watkinson (Exeter/UK)

3401.1 Recurrent intra-abdominal haemorrhage and interventional management of a relentless false aneurysm  
_I. Wilson (Southampton/UK)_

3401.2 A rather unusual complication of a biliary drainage case  
_M. Glynos (Athens/GR)_

3401.3 Large AV fistula in neurofibromatosis: evolution and treatment challenges  
_M.A. Hanif (Mid Essex/UK)_

3401.4 An uncommon occurrence of pseudoaneurysm after iatrogenic rupture of the brachiocephalic vein in a haemodialysis patient  
_L. Oguzkurt (Adana/TR)_

3401.5 Is the brain the target organ of any life-threatening complication during carotid stenting?  
_M. Rossi (Rome/IT)_

3401.6 Fatal ablation  
_F. Orsi (Milan/IT)_
Posters

Aortic intervention

Scientific Posters

P-1 Acute aortic syndrome: is routine cardiac-gated CTA necessary? D. Saunders, B. Adams, S. Puppala; Leeds/UK

P-2 Covered endovascular reconstruction of aortic bifurcation: a haemodynamically proven technique for treating extensive aortoiliac occlusive disease P. Goverde1, K. Lauwers1, F.A.B. Grimme2, M. Reijnierse; 1Antwerp/BE, 2Arnhem/NL

P-3 Onyx embolization in the management of type I endoleaks R. Chung, R. Das, R.A. Morgan; London/UK

P-4 Promoting false lumen thrombosis after TEVAR in type B aortic dissections by selectively excluding true lumen reentry points M. Wojtaszek, R. Maciag, K. Korzeniowski, O. Rowinski; Warsaw/PL

P-5 Regional cooperation improves survival in ruptured abdominal aortic aneurysms S.C. van Beek, J. Reimerink, A. Vahl, W. Wisselink, J.A. Reekers, D.A. Legemate, R. Balm; Amsterdam/NL

Educational Posters

P-6 MD-CT imaging of spinal cord vascular network before and after endovascular repair of the descending thoracic aorta: what the interventional radiologist needs to know U.G. Rossi, P. Rigamonti, M.A. Politi, P. Reganati, C. Uggetti, M. Cariati; Milan/IT

P-7 Tips and tricks for optimal EVAR planning in “hostile” necks U.G. Rossi, P. Rigamonti, C. Redaelli Spreafico, E.C. Resta, D.F. Candito, M. Cariati; Milan/IT

P-8 Use of non-fluoroscopic, intra-aortic balloon occlusion for acute severe haemorrhage K. Khanna, L. Childs, D.E. Low; London/UK

Case Reports

P-9 A novel technique utilising trans-IMA (inferior mesenteric artery) SAFARI (subintimal arterial flossing with antegrade–retrograde intervention) method for re-entry into the true lumen during subintimal aortic revascularisation for long segment aorto-iliac occlusive disease G.W.L. Tan, U. Pua, L.H.H. Quek; Singapore/SG

P-10 Atrial septal defect closure device to salvage an aortic rupture patient C.S. Georgiades, G. Georghiou, M. Soteriou; Nicosia/CY

P-11 Capture and repositioning of an erroneously positioned abdominal aortic stent U.G. Rossi1, M. Dahmane2, C. Ferro2, M. Cariati1; 1Milan/IT, 2Genoa/IT

P-12 Endovascular rescue of the narrowed extra-anatomical aortic bypass graft leading to heart failure in a patient with Takayasu’s arteritis J.H. Kim1, J.H. Park1, S.S. Byun1, C.K. Lee2; 1Incheon/KR, 2Bucheon/KR

P-13 Endovascular treatment of recurrent type I endoleak F.L. Ruales, P. Escudero, C.A. Diaz; Medellin/CO

P-14 Intimal angiosarcoma of the descending aorta that caused heart failure: treatment with endovascular stent grafting N. Alishev, M. Barburuglu, B. Acunas, M. Ugurlucan, U.I. Alpagut; Istanbul/TR

P-15 Percutaneous retrieval of embolized atrial septal occluder device from the abdominal aorta C. Khouri Chalouhi, F. Melchiorre, M. Mantechiani, T. Donati, M. Crippa, G.P. Cornalba; Milan/IT

P-16 Repair of an ascending aortic pseudoaneurysm caused by vomiting using Gore Excluder stent grafts M. Hennessy, S. Chandramohan; Glasgow/UK
P-17 Type II endoleak embolization after endovascular aortic repair (EVAR) using direct percutaneous puncture of the endoleak sac via the vertebral arch pedicle


Biliary intervention

Scientific Posters

P-18 Iatrogenic hemobilia: a new arteriographic feature and interventional management


P-19 Percutaneous biliary drainage in a tertiary referral center: safety and efficacy

K.A. Pennycooke, P. Thanaratnam, S. Shaikh, M.F. Given, A. Keeling, M.J. Lee; Dublin/IE

P-20 Percutaneous dual stent placement for advanced malignant hilar obstruction: Y versus criss-cross configuration


P-21 Percutaneous dual stent placement for malignant hilar obstruction: comparison between T and criss-cross configuration


P-22 Study on application value of percutaneous transhepatic choangio biopsy in the pathologic diagnosis of anastomotic stenosis after choangiojejunostomy for malignant obstructive jaundice in 24 cases

T.-F. Li, X.-W. Han, Z. Li; Zhengzhou/CN

P-23 Usefulness and safety of biliary percutaneous transluminal forceps biopsy: our experience

F.A. Vizzari, D. Laganà, G. Carrafiello, A.M. Ierardi, D. Lumia, N. Lucchina, C. Fugazzola; Varese/IT

Educational Posters

P-24 Endobiliary biopsy in patients with biliary steno-occlusion: technical advantages and limitations

D.F. Candido, S. Brambilla, C. Redaelli Spreafico, E.C. Resta, U.G. Rossi, M. Cariati; Milan/IT

P-25 Endoluminal ablation for malignant biliary duct stenosis

T. Andrašina, V. Bernard, J. Panek, J. Hlavsa, J. Boudny, V. Válek; Brno/CZ

P-26 Interventional procedures in common liver transplant-related vascular and non-vascular complications

L.-M. N.J. Boucher, T. Cabrera, C.I. Torres, K. Muchantef, F.A. Toonsi, S. Cooper, P.P. Rao, K. Ho, D.A. Valenti; Montreal, QC/CA

P-27 Percutaneous management of bile leaks and iatrogenic strictures associated with laparoscopic cholecystectomy and biliary reconstructive surgery

A. Erbahceci Salik, F. Islim, D. Akinc; 1Istanbul/TR, 2Ankara/TR

P-28 Percutaneous treatment of extrahepatic bile duct stones assisted by balloon sphincteroplasty and occlusion balloon: the “A” to “Z” of the technique

P. Rigamonti, U.G. Rossi, F. Alberghini, P. Torcia, F. Melchiorre, G. Comalbo, M. Cariati; 1Milan/IT, 2Rome/IT

P-29 Sphincteroplasty technique for biliary stone removal via the PTBD tract: results of a single-center study of 695 patients


Case Reports

P-30 Biliary stent placement for the management of acute obstructive jaundice secondary to uncovered gastroduodenal stent placement

S.H. Kwon, J.H. Oh, S.W. Park, T.S. Seo; Seoul/KR

WITHDRAWN
**Biopsy and drainage**

**Scientific Posters**

P-31  Cone beam CT-guided percutaneous core biopsy of mediastinal masses: safety and accuracy in 21 patients  

P-32  Cone beam CT (CBCT) is a safe and effective single imaging technique to guide percutaneous biopsies  
A. Cannavale, C. Cirilli, M. Corona, P. Lucatelli, A. Widerk, A. D’Adamo, F.M. Salvatori, F. Fanelli; Rome/IT

P-33  Flow mechanics of common body fluids, the catheters that drain them, and the stopcocks that intervene  
M.M. Marshed1, H. Aryafar2, K. Nakamoto3, M.T. Guumondson1, H. Aryafar1; 1San Diego, CA/US, 2Los Angeles, CA/US

P-34  Percutaneous CT fluoroscopy-guided abdominal and pelvic abscess drainage: comparison of one-step and Seldinger techniques  
K. Kajiwara, T. Yamagami, M. Ishikawa, K. Awai; Hiroshima/JP

P-35  Preliminary clinical experience with a dedicated robotic system for CT-guided biopsies of thoracic and abdominal lesions  
M. Anzidei, R. Argiro1, A. Porfiri, F. Boni, A. Napoli, M. Bezzì, C. Catalano; Rome/IT

P-36  Radiology-guided forceps biopsy and airway stenting in severe airway stenosis  
Z.-M. Li, X.-W. Han, G. Wu, K. Ren; Zhengzhou/CN

P-37  Tract embolization with ultrasound-guided percutaneous liver biopsy in patients without coagulopathy: does it make a difference?  
R. Arya, P. Nene, J. Xiao, R. Vilvendhan; Boston, MA/US

P-38  Transjugular renal biopsy using a 19-gauge Quick-Core blunt-tip needle  

**Educational Posters**

P-39  Can mediastinal tumors be diagnosed by CT-guided percutaneous biopsy with registration of prior PET/CT images?  

P-40  CT-guided interventional strategies for the management of intra-/peri-pancreatic collections in pancreatitis  
S. Kumar, A. Gupta, R. Yadav; Lucknow/IN

P-41  CT-guided transthoracic biopsy of lung mass: technique, complications and factors affecting the occurrence of complications  
A.R. Aktas, E. Gozlek, B. Degirmenci, M. Kayan, O. Yilmaz, N. Unlu; Isparta/TR

P-42  GPS: guiding procedures safely using navigation systems in interventional radiology  
M.R. Akhtar1, H. du Preez2, N. Khan3; 1London/UK, 2Huddersfield/UK

P-43  Management of symptomatic lymphoceles after renal transplant: emerging minimally invasive approaches  
D. Wells1, K. Kondo2, M. Smith3, R. Gupta4, C.E. Ray, J.R., J. Durham1, M. Gipson5; 1Aurora, CO/US, 2Chicago, IL/US

P-44  Pictorial review: percutaneous image-guided drainage procedures  

P-45  Radiation dosage as a function of lesion and patient morphology in CT-guided liver biopsy  
C. Ajuha, H. Poonawala, M. Chadha; Shreveport, LA/US

P-46  Trans-sternal percutaneous CT-guided needle biopsy for mediastinal and pulmonary lesions: how and when  
H. Fujisawa, K. Matsunari, K. Watanabe, N. Hashizume, T. Kushihashi; Kanagawa/JP

**Case Reports**

P-47  CT-guided puncture navigated by gyroscope-equipped smartphone  
M. Hirata, H. Tanaka, N. Fukuyama, N. Kawaguchi, T. Mochizuki; Toon Ehime/JP
| Poster Number | Title                                                                                     | Authors                                                                                       | Institutions                              |
|---------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| P-49          | Cryoablation of extra-abdominal desmoid tumours: a report of 11 cases                      | G. Tsoumakidou, J. Garnon, M.A. Thenint, J.P. Bergerat, A. Gangi; Strasbourg/FR                  |                                          |
| P-50          | Doxycycline sclerotherapy in children with lymphatic malformations                         | M. Teixidor Vinas, P.A. Patel, A.M. Barnacle, D.J. Roebuck; London/UK                           |                                          |
| P-51          | Effectiveness of ultrasound-guided platelet rich plasma (PRP) injections after needle tenotomy in the treatment of chronic tendinopathies: a prospective study | J.-C. Brichaux; Bayonne/FR                                                                       |                                          |
| P-52          | Feasibility and effects of transcatheter arterial embolization for frozen shoulder refractory to non-surgical management | Y. Okuno; Tokyo/JP                                                                             |                                          |
| P-53          | New robot system Maxio for performing minimally invasive spine interventions with CT       | S. Zangos, K. Eicher, B. Schulz, E. Mbalisike, C. Czerny, T.J. Vogl; Frankfurt/DE                |                                          |
| P-54          | Preoperative transarterial embolization of malignant spinal tumors: how does it make a difference? | G. Anil, P. Gahlot, N.S. Kumar, K. Yeong, L. Tan; Singapore/SG                                     |                                          |
| P-55          | Survival and cost comparison of kyphoplasty and percutaneous vertebroplasty using German claims data | P. Brasseur¹, A. Lange², S. Braun²; ¹Tolochenaz/CH, ²Hannover/DE                                |                                          |
| P-56          | Technical outcome, complications and effective patient dose of percutaneous CT fluoroscopy-guided screw placement for the fixation of unstable injuries of the posterior pelvic ring | F.F. Strobl¹, S.M. Haeussler³, P.M. Patrakka³, R.T. Hoffmann³, T.A. Sandner³, M.F. Reiser³, C.G. Trumm³; ¹Munich/DE, ²Dresden/DE |                                          |
| P-57          | Transcatheter arterial embolization as a treatment for mild-to-moderate knee osteoarthritis | Y. Okuno; Tokyo/JP                                                                             |                                          |
| P-58          | Vertebral augmentation with titanium T6 endoprosthesis: a preliminary experience           | E. Piras, S. Marini, S. Marcia; Cagliari/IT                                                      |                                          |
| P-60          | Distension arthrography in the treatment of adhesive capsulitis of the shoulder            | M. Golli, A. Zrig, M. Cheguirim, W. Mnari, M. Maatouk, B. Hmida, W. Harzallah, R. Salem, M. Zrig; Monastir/TN |                                          |
| P-61          | Facet joint syndrome: the role of the radiologist from diagnosis to treatment              | H. Brot¹, T. Tancredi¹, D. Fournier¹, T. Bouziane¹; ¹Sion/CH, ²Tournai/BE                         |                                          |
| P-62          | Percutaneous radiofrequency thermoablation of osteoid osteoma: how I do it                 | M. Golli, M. Zrig, A. Zrig, W. Mnari, M. Maatouk, B. Hmida, W. Harzallah, R. Salem; Monastir/TN |                                          |
| P-63          | Preoperative embolization of spinal tumors                                                | T. Dionísio, B. Gonçalves, H. Duarte, A. Machado Carvalho, M.J. Sousa; Porto/PT                  |                                          |
| P-64          | Aneurysmal bone cyst of the cervicothoracic spine treated with cryoablation               | J. Griaudze, J.J. Gemmte, V. Vadlamudi; Ann Arbor, MI/US                                        |                                          |
| P-65          | C-arm CT robotic-guided sclerotherapy of an aneurysmal bone cyst using a 2-needle technique | G. Widmann, P. Schullian, R. Bale; Innsbruck/AT                                                 |                                          |
P-66 Diffusion-weighted MRI demonstrates partial tumor response following palliative embolization of extra-axial plasmocytomas
P.N. Kaposi, G. Mikala, L.R. Kozák, T. Györke, I. Kalina, G. Rudas, V. Bérczi; Budapest/HU

P-67 Kummell’s disease treated with vertebroplasty
H.-D. Zhu, G. Deng, S.-C. He, G.-I. Teng; Nanjing/CN

P-68 Percutaneous radiofrequency ablation of osteoblastoma of the C2 vertebra in a 7-year-old girl
A.A. Nassef, H.G. Khira; Cairo/EG

Clinical practice development

Scientific Posters

P-69 Assessing patient awareness of interventional radiology
D. Heister1, E. Olson1, K. Richman2, I. Newton2; 1San Diego, CA/US, 2La Jolla, CA/US

P-70 Experience with clinical skills-based simulation and a process for improvement

P-71 Exploring attitudes towards the Cancer And Venous Access (CAVA) study – a qualitative study of patient and clinical staff attitudes to venous access devices for the delivery of long-term chemotherapy and participation in randomised controlled trials
M. Ritchie, J.G. Moss, R. Shaw; Glasgow/UK

P-72 Islet cell transplantation; investigation of technique and post-operative complications in Newcastle upon Tyne
A. Zahed1, R. Jackson2; 1Bristol/UK, 2Newcastle upon Tyne/UK

P-73 Role of interventional radiology in trauma care: a single-center experience
N.Y. Yim1, H.O. Kim1, J.K. Kim1, Y.T. Kim1, Y.J. Kang1, S.H. Kim1; 1Gwangju/KR, 2Mokpo/KR

P-74 Safety and effectiveness of Wirsung duct percutaneous interventions – drainage, endoluminal biopsy, balloon dilatation, stenting, endoluminal RFA and stenting and balloon-assisted percutaneous descending litholapaxy (BAPDL)
M. Mizandari1, N. Habib2; 1Tbilisi/GE, 2London/UK

P-75 Vascular intervention in trauma: a teaching hospital experience

P-76 Vessel catheterization with the new steerable microcatheter Direxion compared with standard microcatheters: a prospective preclinical trial of safety and effectiveness
O. Dudeck; Magdeburg/DE

Educational Posters

P-77 Sciatic nerve block to facilitate lower limb endovascular revascularisation
S. Quigley, I. Reed, K. Khanna, T. Egan, D.E. Low; London/UK

Case Reports

P-78 Direct puncture embolization under CBCT guidance of postoperative chylous leakage
C. Floridi1, W. Prevoo2, F. Piacentino1, M. Petrillo3, G. Carrafiello1; 1Varese/IT, 2Amsterdam/NL, 3Naples/IT

Dialysis intervention and venous access

Scientific Posters

P-79 Radiation risk and role of routine chest X-ray after ultrasound and fluoroscopy-guided central venous portcatheter implantation
V. Chovanec, M. Rek, O. Renc, J. Raupach, P. Zak, L. Slovacek, R. Malý, A. Krajina; Hradec Králové/CZ

P-80 Randomised trial comparing Hickman lines with ports for chemotherapy: a pilot study to inform a larger trial
J.G. Moss, R. Kasthuri, J. Paul, O. Wu, E. McCartney, M. Ritchie, J. Dixon; Glasgow/UK
P-81 Thromboaspiration of arteriovenous hemodialysis graft thrombosis using Desilets-Hoffman sheath: a single-center experience

P-82 Ultrasound-guided supraclavicular brachial plexus block for analgesia during the treatment of failed hemodialysis fistulas by interventional radiology
M. Gedikoglu1, C. Andic2, H.E. Eker2, I. Guzelmansur2, L. Oguzkurt3; 1Adana/TR, 2Hatay/TR

P-83 Venous outflow stenosis: a single entity or is the cephalic arch different?
A.J. Jackson, E.L. Aitken, R. Kasthuri, D.B. Kingsmore; Glasgow/UK

Educational Posters

P-84 Doppler ultrasonography of arteriovenous fistulae in hemodialysis patients: far more than just for diagnosis
J.R. Fortuño, E. Criado, A. Alguersuari, J.F. Falco-Fages, J. Perendreu, J. Branera; Sabadell/ES

P-85 Image-guided permanent central venous catheters: evaluation of complications and strategies using different accesses
M.D. Ferrer-Puchol, E. Esteban Hernández, P. Montesinos García, E. Taberner López, R. Ramiro Gandía, A. Cervera Araez, E. García Oliver, N. Übeda Morant; Alzira/ES

P-86 Malfunction of arteriovenous dialysis shunt in patients with ipsilateral pacemaker: endovascular treatment considerations
F. Petrocelli1, M. Dahmane1, L. Patrone1, G. Gola1, G. Bovio1, U.G. Rossi2, C. Ferro1; 1Genoa/IT, 2Milan/IT

P-87 No access? Strategies for achieving venous access in long-term haemodialysis patients

P-88 Safety of transhepatic route of permanent catheter in patients receiving hemodialysis
A. Uçar, G. Yildirim, E. Agolli, A. Sulovari; Istanbul/TR

Embolotherapy (excluding oncology)

Scientific Posters

P-89 ACE multicenter study: preliminary results with the Penumbra RubyTM Coil in the peripheral vasculature

P-90 Cone beam CT: an essential adjunct to prostatic artery embolisation for benign prostatic hypertrophy? Experience from the first UK trial
D. Flowers, T.J. Bryant, L.M. Ingram, J. Dyer, M. Harris, B. Somani, N. Hacking; Southampton/UK

P-91 Deliverability, efficacy of occlusion and acute histopathological evaluation of novel radiopaque embolic microspheres (OccuRad) in a rabbit auricular artery model
R. Abraham, S. Kehoe, C. Daly, D. Boyd; Halifax, NS/CA

P-92 Embolic effects of transcatheter mesenteric arterial embolization with microspheres of the small bowel in a dog model

P-93 Embolization of a wide-neck aneurysm using N-butyl cyanoacrylate-ethanol-lipiodol under balloon inflation: occlusive potency of the mixture and its adhesion characteristics to the balloon
M. Sato, F. Tanaka, H. Sanda, N. Kawai; Wakayama/JP

P-94 Embolotherapy of trauma-associated pelvic arterial hemorrhage: feasibility of superselective catheterization in heavily injured patients
N.Y. Yin1, H.O. Kim1, S.H. Kim1, J.K. Kim1, Y.T. Kim2; 1Gwangju/KR, 2Mokpo/KR

P-95 Evaluation of renal artery embolization for the management of post-partial nephrectomy bleeding
A. Dmytriy, R. Rendon, C. Lightfoot; Halifax, NS/CA
P-96 Fibered platinum coils vs vascular plugs in pelvic varices embolization for the treatment of pelvic congestion syndrome: 1-year follow-up randomized study
A. Laborda, M. Sanchez Ballesat, I. De Blas, M.A. de Gregorio; Zaragoza/ES

P-97 Initial evaluation of hemodynamic changes in the liver during B-TACE using double-balloon catheters

P-98 Oral–perioral and orbital–periorbital vascular malformations sclerotherapy in children
S.M. Nihayah, J. Amaral, P.R. John; Toronto, ON/CA
WITHDRAWN

P-99 Preoperative superselective transarterial embolization of renal tumors: a method to improve perioperative outcomes in partial nephrectomy
Y.-T. Lin, S.-W. Hung, C.-K. Yang, Y.-C. Ou, C.C.-C. Chen; Taichung/TW

P-100 Reverse medical microplug: a new embolic material for hepatic arterial skeletonization
O. Pellerin1, G.A. Maleux2, A. Boronat1, C. Déari1, J. Golzarian3, M.R. Sapoval1; 1Paris/FR, 2Leuven/BE, 3Minneapolis, MN/US

P-101 Safety and efficacy of transarterial embolization of the vesical arteries in refractory hemorrhagic cystitis
N.G. Macias, M. Burrel, M. Barrufet, F.M. Gómez, J. Guitar, X. Montañá; Barcelona/ES

P-102 Advantages of using Amplatzer Vascular Plug 4 in percutaneous embolisation of lung sequestration
U.G. Rossi1, P. Rigamonti1, F. Petrocelli2, C. Ferro2, M. Cariati1; 1Milan/IT, 2Genoa/IT

P-103 Treatment of pulmonary arteriovenous malformations by fibered interlock detachable coils: safety, efficacy, and reperfusion rate
S. Tantawi, G. Soulez, P. Gilbert, M.-F. Giroux, M. Faughnan, S. Larrivié, V.L. Oliva, É. Thérassé; Montreal, QC/CA

P-104 Use of HydroCoil for embolization of pulmonary arteriovenous malformation to prevent recanalization

Educational Posters

P-105 Bleomycin–lipiodol embolization of giant hepatic hemangiomas: is it really effective?
Z. Bayrakoglu, N. Alishev, F. Bicer, G. Yildirim, B. Acunas; Istanbul/TR

P-106 Dual-lumen Scepter balloon for flow control in the treatment of extracranial arteriovenous malformations
J. Grauzede, J.J. Gemmete, D.M. Williams; Ann Arbor, MI/US

P-107 Onyx embolisation of renal angiomyolipomas
A. Shaw, K.N. Katsanos, A. Parthipun, I. Ahmed, T. Sabharwal; London/UK

P-108 Percutaneous embolisation in the management of intractable postpartum haemorrhage
M.D. Ferrer-Puchol1, E. Esteban Hernandez2, C. Lanciego2, J.J. Ciampi Dopazo2, R. Ramiro Gandía1; 1Alzira/ES, 2Toledo/ES

P-109 Prostatic artery embolization – where does it stand in the management of the end point?
L. Fernandez, B. Bilhim, H. Rio Tinto, J.A. Pereira, M. Duarte, J.M. Pisco; Lisbon/PT

Case Reports

P-110 Aberrant ovarian artery originating from the iliolumbar artery
J.M. Lee1, J. Ohm2; 1Bucheon/KR, 2Daejeon/KR

P-111 Concomittant transarterial and transvenous embolization of a complex pelvic AVM using a new embolic agent Squid®-12 and detachable coils
A. Erbahceci Salik, F. Islim, A. Akgul, B.E. Cil; Istanbul/TR

P-112 Double balloon-assisted glue injection for renal arteriovenous malformation: introducing a new method for the treatment of vascular lesion supplied by multiple arteries

P-113 Embolization for massive bleeding from buttock ulcer caused by untreated pelvic AV malformation to achieve successful gluteoplasty
K. Kuntelia; Tbilisi/GE
P-114 Embolization of a type II endoleak using image fusion technique
O. Francois, J. De Coster; Aalst/BE

P-115 Embolization via a percutaneous transhepatic approach for portal venous laceration caused by blunt hepatic injury

P-116 Embolotherapy of a bronchial artery aneurysm presenting as life-threatening mediastinal hematoma
J.H. Kim1, J.H. Park1, S.S. Byun1, C.K. Lee2; 1Incheon/KR, 2Bucheon/KR

P-117 Endovascular coil embolization for steal syndrome in a hemodialysis patient with brachioaxillary arteriovenous graft
J.H. Kim1, J.H. Park1, S.S. Byun1, C.K. Lee2; 1Incheon/KR, 2Bucheon/KR

P-118 Endovascular embolization of a ruptured bronchial artery aneurysm in a patient with Ehlers–Danlos syndrome type IV
M. Leyva Vásquez-Caicedo, J.V. Mendez Montero, J.E. Armijo Astrain; Madrid/ES

P-119 Endovascular embolization of intralobar pulmonary sequestration in an adult female
P. Popovic, J. Avsenik; Ljubljana/SI

P-120 Giant right main pulmonary artery aneurysm from a gunshot wound treated with coil embolization
A. Kumar, J. Yoon, P. Kisza, S.G. Contractor; Newark, NJ/US

P-121 Percutaneous direct-puncture embolization using glue under manual compression of the drainage vein for a superficial forehead arteriovenous malformation (AVM)
M. Inoue1, S. Nakatsuka2; 1Kanagawa/JP, 2Tokyo/JP

P-122 Percutaneous transvenous catheter embolization of a right lung metastatic tumor
J.E. Armijo Astrain, M. Leyva Vásquez-Caicedo, J.V. Mendez Montero; Madrid/ES

P-123 Sandwich coil embolization of a pulmonary artery pseudoaneurysm secondary to metastatic breast cancer
F. Pozzi-Mucelli, R. Pozzi Mucelli, L. De Paoli, R. Adovasio, M.A. Cova; Trieste/IT

P-124 Giant right main pulmonary artery aneurysm from a gunshot wound treated with coil embolization
A. Kumar, J. Yoon, P. Kisza, S.G. Contractor; Newark, NJ/US

P-125 Percutaneous transvenous cannulation of the thoracic duct and cisterna chyli for the embolisation of a lymphocele
W.M. Pabon-Ramos; Durham, NC/US

P-126 Transhepatic arterial cannulation and embolization of hepatic artery pseudoaneurysm
S. Puniamo; Singapore/SG

P-127 Transhepatic arterial cannulation and embolization of hepatic artery pseudoaneurysm
S. Puniamo; Singapore/SG

P-128 Transvenous embolization of a pseudoaneurysm secondary to metastatic breast cancer
N. Ptohis, S. Lechareas, L. Poulou, M. Pagoni, G. Karydas, V. Georgountzos; Athens/GR

P-129 Uretero-arterial fistulae: a case series
J. Monzon, A. Alsafi, E. Kashef, M.S. Hamady; London/UK

P-130 Usefulness of 0.010-inch microcatheter and microcoils in embolizing lower gastrointestinal haemorrhage – sometimes you need to go further
J.E. Armijo Astrain, M. Leyva Vásquez-Caicedo, J.V. Mendez Montero; Madrid/ES

**EVAR and TEVAR**

**Scientific Posters**

P-131 Advanced EVAR techniques (CHIMney, Periscope, Sandwich graft; CHIMPS) for juxtarenal abdominal aortic aneurysms (ju-AAA) – midterm results: a single-center experience
F. Pozzi-Mucelli, R. Pozzi Mucelli, L. De Paoli, R. Adovasio, M.A. Cova; Trieste/IT
Educational Posters

P-132 Diagnosis of endoleaks and reintervention with Endologix stent graft
D. Wells1, M. Smith1, M. Gipson1, C.E. Ray, Jr.2, J. Durham1, K. Kondo1, O. Jazaeri1, J. Greenberg1, D. Kuwayama1, R. Gupta1; 1Aurora, CO/US, 2Chicago, IL/US

P-133 Thoracic endovascular aortic repair (TEVAR) for the treatment of acute aortic syndrome: post-operative imaging, complications and secondary interventions
S. Ameli-Renani, R. Das, R. Chung, L. Mailli, M. Gonsalves, R.A. Morgan; London/UK

Case Reports

P-134 Chronic type B dissection – endovascular repair with branched device
R.S. Cunha; Rio de Janeiro/BR

P-135 Deliberate stent-graft extension and endotacking straightens the hyperangulated aortic neck during endovascular aneurysm repair
K. Morgan Bates, A. Chaudhuri; Bedford/UK

P-136 Management of bronchial compression due to thoracic aortic aneurysm using endovascular and endobronchial stent placement
M.I. Generalov, B.V. Fadin, S.D. Chernyshov, V.E. Sherstobitov, A.A. Tarkhanov, D.N. Maystrenko; Saint-Petersburg/RU

P-137 Periarterial fibrosis post-endovascular aortic aneurysm repair: spontaneous improvement of periartorial fibrosis following the treatment of type II endoleak
S.-Y. Song1, J.Y. Oh2; 1Seoul/KR, 2Guri Si/KR

P-138 Post-surgery AAA revascularization: endovascular treatment
U.G. Rossi, P. Rigamonti, F. Alberghini, A. Settembrini, P. Mingazzini, M. Cariati; Milan/IT

P-139 TEVAR and EVAR complications: a single-center experience
V. Kovacevic, D. Sagic, Z. Antonic, B. Petrovic, D. Radak; Belgrade/RS

Experimental work in IR

Scientific Posters

P-140 A new experimental model and application of endograft for lethal hemorrhage of juxtahepatic inferior vena cava injury in a swine model
K. Idoguchi1, M. Yamaguchi1, K. Sofue1, T. Okada1, E. Ueshima1, N. Katayama1, A. Muradi1, K. Sugimoto1, T. Iseri1, A. Hayashi1, K. Mie1, T. Matsuoka1; 1Kobe/JP, 2Tokyo/JP, 3Osaka/JP

P-141 Bioinert properties of coronary nanostructured carbon-coated stents
I.B. Kovalenko, M.I. Boyarintsev, M. Filatov; Belgorod/RU

P-142 Comparing the visual-spatial skills of the interventional radiology team
M.A. Ghouri, S. Rozvi, D. Birchall; Newcastle upon Tyne/UK

P-143 Evaluation of the plasmatic and parenchymal elution kinetics in a domestic pig model using irinotecan-loaded drug-eluting beads

P-144 Idarubicin-loaded TANDEM® for chemoembolization of HCC: in vitro loading and release and in vivo pharmacokinetics
B. Gui1, A. Schmitt2, S. Reinhardt2, T. Pohl2, M. Wendremaire2, A. Denys3, J. Blümmler3, M. Boulin3; 1Montpellier/FR, 2Dijon/FR, 3San Antonio, TX/US, 4Lausanne/CH

P-145 Initial evaluation of the performance of a developed accelerometer-based assisting device for CT-guided interventions
N. Ito1, C. Wilkmann2, P. Isfort2, H.-S. Na2, T. Schmitz-Rode2, P. Bruners2; 1Tokyo/JP, 2Aachen/DE

P-146 Intraarterial therapy using a novel vascular disrupting agent dissolved in iodized oil in a hepatocellular carcinoma (HCC) model
Y.I. Kim1, J.W. Chung1, M. Lee1, J.S. Park1, S.J. Kim1, H.J. Jae1; 1Seoul/KR, 2Yong In/KR
P-147 Multipolar radiofrequency ablation of adrenal gland with bipolar ablation device: ex vivo and in vivo experimental studies in porcine and bovine models

P-148 Pilot study of percutaneous isolated pancreas perfusion chemotherapy: pharmacokinetic and histological assessment in a pig model

P-149 Pre-clinical evaluation of the caterpillar device for peripheral embolisation in a porcine model
  W. Allen, L. Mullins, M.K. Razavi, F. Shari, C. Forde; 1Galway/IE, 2Orange, CA/US

P-150 Translational experience in the treatment of duchenne muscular dystrophy (DMD) by intra-arterial mesoangioblasts (MABs) transplantation: from a toxicity study in 10 beagle dogs to the first phase-1 study in 5 dystrophic children
  M. Venturini, G. Cossu, M. Colombo, F. De Cobelli, A. Del Maschio; Milan/IT

WITHDRAWN

Educational Posters

P-151 Usefulness of 3D/3D fusion technology in image-guided procedures: a step-by-step display of its creation and a review of its utilization in various scenarios

Case Reports

P-152 Closing neo-esophageal pleural fistula with Amplatzter ASD closure device – it works!
  S. Kulkarni, A.M. Polnaya, N.S. Shetty, A. Jana, S.S. Patil, K.B. Gala, A. Kumar, M. Thakur; Mumbai/IN

P-153 Mission creep with Angioseal: what else can we do?
  W. Sprenger De Rover, W. Al-Obaydi, S. Whitaker, H. White, S. Travis; Nottingham/UK

GI tract intervention

Scientific Posters

P-154 Efficacy of transcatheter arterial embolization for colonic diverticular hemorrhage

P-155 Endovascular thromboaspiration in acute superior mesenteric artery thromboembolic occlusion
  U.G. Rossi, P. Rigamonti, F. Petrocelli, M. Dahmane, C. Ferro, M. Cariati; 1Milan/IT, 2Genoa/IT

P-156 Percutaneous radiologic gastrostomy using the one-anchor technique in patients with a history of partial gastrectomy

P-157 Pharmacokinetics of gelatin sponge particles in a rabbit VX2 liver tumor model of hepatic arterial embolization
  Y.W. Zhang; Dalian/CN

P-158 Treatment of esophagopleural fistulae using covered retrievable expandable metallic stents

Educational Posters

P-159 Celiac ganglion neurolysis: an underused palliative procedure

P-160 Colonic stenting: everything that a resident needs to know
  J.R. Fortuño, J.F. Falco-Fages, E. Criado, A. Alguersuari, J. Perendreu, J. Branera; Sabadell/ES

P-161 Percutaneous radiological gastrostomy: from “A” to “Z”
  U.G. Rossi, P. Rigamonti, F. Torcia, F. Alberghini, F. Petrocelli, M. Cariati; 1Milan/IT, 2Rome/IT, 3Genoa/IT

P-162 Single-puncture pull-through gastrostomy tube: a step-by-step review
  C. Kaufman, K. Quencer, H.R. Mojibian; New Haven, CT/US
Case Reports

P-163 Endovascular treatment of a gastric arteriovenous malformation (AVM): a rare cause of upper gastrointestinal bleed (UGIB)
S. Ilyas, N. Shaida, B. Koo; Cambridge/UK

P-164 Percutaneous transhepatic approach to fundal varices and embolisation
V. Marinkovic, M. Scepanovic, M. Mihajlovic, S. Rusovic; Belgrade/RS

P-165 Successful transcatheter embolization of a superior mesenteric arteriovenous fistula: comprehensive imaging assessment and 3-year follow-up
A.S. Awad, I.Y. Wassal, I.A. Shehata, A.A. Nassef; Cairo/EG

P-166 Unusual cause of massive colonic haemorrhage successfully treated with embolisation of the splenic artery
S. Ameli-Renani, S. Mahalingam, K. Burney; London/UK

Gynaecological intervention (including UFE)

Scientific Posters

P-167 Antero-retrograde sclerotherapy in the treatment of vulvo-perineal varicosity
F. Colucci, S. Giuliani, S. Pillon, V. Miele, L. de’Medici; Rome/IT

P-168 Do apparent pretreatment diffusion coefficient measurements predict the response to uterine artery embolisation for adenomyosis?

P-169 MRgFUS treatment of uterine fibroids: three years of experience
F. Ciolina, F. Boni, C. Palla, F. Zaccagna, A. Napoli, C. Catalano; Rome/IT

P-170 Potentially relevant MRI findings in patients who became pregnant after uterine artery embolization for symptomatic fibroids: comparison with myomectomy

P-171 Pre-procedure and post-procedure administration of Oxycodone improves pain management after uterine fibroid embolization

P-172 Prophylactic internal iliac balloon placement prior to caesarean section in patients with placenta accreta
P.J. Nicholson, K. James, J. Murphy, F. Moloney, L. Spence, J. Buckley, D. Tuite; Cork/IE

P-173 Radial versus femoral artery access for uterine fibroid embolization
Y. Khairutdinov1, I. Vorontsov2, E. Kravchenko2, O. Tsygankova2; 1Moscow/RU, 2Omsk/RU

P-174 Radiation dose and contrast reduction during uterine fibroid embolization using 3D MRA guidance versus conventional 2D technique
N.D. Nadkarni1, V.S. Dravid2, A. Syal2, A. Gupta1; 1Paoli, PA/US, 2Bryn Mawr, PA/US

P-175 Randomised controlled trial of Particles used in Uterine fibRoid Embolisation (PURE) – non-spherical polyvinyl alcohol (Contour PVA; Boston Scientific, USA) versus calibrated hydrogel microspheres with polyzene coating (Embozene; CeloNova Biosciences, USA): interim results
R. Das, I. Manyonda, A.-M. Belli; London/UK

P-176 Role of prophylactic occlusion balloons in patients with morbidly adherent placenta to prevent postpartum haemorrhage and caesarean hysterectomy: a systematic review and meta-analysis
M. Teixidor Vinas, R. Das, A.-M. Belli; London/UK

P-177 Selective pelvic arterial embolization in the management of postpartum hemorrhage
H. Kondo, Y. Tanahashi, M. Kanematsu, S. Goshima, K. Sakurai, Y. Noda, H. Kawada; Gifu/JP

P-178 Transbrachial approach for uterine leiomyoma embolization
S. Pieri, A. Paolo, B. Sessa, M.G. Buquicchio, V. Miele; Rome/IT
Transcatheter arterial embolization for intractable postpartum bleeding: long-term results

Usefulness of ovarian protection by selective coil embolization of utero-ovarian anastomosis before uterine artery embolization

The effect of uterine artery embolization using gelatin sponge particles on ovarian function
Y. Song, J.R. Juhn; 1Chang Won/KR, 2Busan/KR

Uterine artery embolization in cervical and cesarean scar ectopic pregnancies
T.H. Balli, E. Aksungur, E. Akgul, I. Ürünsak, A.B. Güzel; Adana/TR

Angiographically treated ruptured aneurysm of the uterine artery in a pregnant patient

Infected necrotic fibroid: a rare complication of uterine artery embolization
J.T. Soares, J. Ressurreição, T. Pereira; Portugal: Vila Nova Da Gaia/PT

Particulate embolisation-induced ovarian failure for endometriosis: a novel approach to a challenging condition
J. Coyne, D. Beckett; Bournemouth/UK

Placental chorioangioma embolization with glue: 2 cases
J. Soussan, U. Scemama, F. Bretelle, J.-B. Haumont; Marseille/FR
Educational Posters

P-196 Anterolateral thigh flap: anatomic variations and preoperative imaging technique for surgical planning
T. De Beule, W. Van Deun, J. Vranckx, G.A. Maleux, S. Heye; Leuven/BE

P-197 Contrast-enhanced ultrasound in interventional radiology – the mover and shaker
D. Penha, E. Guedes Pinto, A. Costa, E. Coimbra; Amadora/PT

P-198 Leap Motion Controller implementation for touchless PACS integration in the interventional radiology suite

Case Reports

P-199 Aortic intramural hematoma with extension into pulmonary arteries and hemopericardium
C. Kaufman1, K. Quencer1, H. Song2, J.A. Kaufman3; 1New Haven, CT/US, 2Portland, OR/US

P-200 Primitive superior vena cava tumor mimicking thrombosis
F. Cousin, D. Henroteaux, P.-J. Bruyère; Liège/BE

P-201 Segmental arterial mediolysis: a case requiring prompt imaging diagnosis and image-guided intervention
R. Fernando, N.I. Fotiadis, B. Robertson; London/UK

Neuro and carotid intervention

Scientific Posters

P-202 Balloon dilatation and thrombus extraction for the treatment of cerebral venous sinus thrombosis
T.-F. Li, S. Shui, X.-W. Han; Zhengzhou/CN

P-203 Clinical treatment result of carotid artery stenting in Japan: comparsion of periprocedual ischemic complication by embolic protection devices
K. Takayama1, K. Myochin1, T. Wada2, H. Nakagawa2, K. Kichikawa2, S. Kurokawa1; 1Yao City/JP, 2Nara/JP

P-204 Mechanical thrombectomy in acute ischemic stroke: predictors of clinical outcomes

P-205 Optical frequency domain imaging provides useful endoluminal microstructural information in patients treated with carotid angioplasty with stenting
M. Jeromel; Ljubljana/SI

P-206 Preoperative endovascular balloon-assisted embolization with glubran and lipiodol of high-flow head and neck arteriovenous malformations: preliminary results
F. Melchiorre, M. Montechiari, C. Khouri Chalouhi, F. Allevi, G. Colletti, U.G. Rossi, M. Cariati, G.P. Cornalba; Milan/IT

Educational Posters

P-207 Endovascular management of symptomatic, vulnerable, and inflamed carotid plaques: a 1-year single-center experience
R. Gandini, D. Morosetti, A. Chiaravalloti, E. Salvatori, G. Lorenzi, G. Simonetti; Rome/IT

P-208 Intracranial atheromatous disease treatment with the Wingspan stent system: evaluation of clinical and procedural outcomes and restenosis rate in a single-center series of 21 consecutive patients with acute and mid-term results
R. Gandini, A. Chiaravalloti, D. Morosetti, G. Lorenzi, E. Salvatori, G. Simonetti; Rome/IT

P-209 Intravascular ultrasound-assisted carotid artery stenting: preliminary results of a randomized controlled trial involving 60 patients
R. Gandini, D. Morosetti, A. Chiaravalloti, E. Salvatori, G. Lorenzi, G. Simonetti; Rome/IT

P-210 Virtual histology-intravascular ultrasound as a diagnostic alternative for morphological characterization of carotid plaque: comparison with histology and high-resolution magnetic resonance findings
R. Gandini, E. Salvatori, D. Morosetti, A. Chiaravalloti, G. Lorenzi, G. Simonetti; Rome/IT
Case Reports

P-211 Common carotid artery stenting with Atrium covered stent following inadvertent catheterisation of the right common carotid artery
C. Kachramanoglou, T. Hampton, D. Evans, D. Huang, C.J. Wilkins, P. Sidhu, H. Rashid, T. Ammar; London/UK

P-212 Endovascular treatment of a traumatic direct carotid–cavernous fistula with flow-diverter stents in addition to stent-assisted coiling
O. Ergun, S. Berk Ergun, H.A. Durmaz, C. Gurdal, B. Hekimoglu; Ankara/TR

P-213 Extraction of a lost coil using a stent retriever device
E.R. Gizewski, A.E. Grams, W. Poewe; Innsbruck/AT

P-214 Intracerebral pial arteriovenous fistula with an associated feeding artery aneurysm: a rare case report
S. Keskin, E. Gökmen, O. Koc, Ş.L. Cengiz; Konya/TR

P-215 Management of delayed coil migration with flow-diverter stent
M. Gök1, C. Cinar2, H. Bozkaya2, I. Orn2; 1Kars/TR, 2Izmir/TR

P-216 Spontaneous carotid–superior petrosal sinus arteriovenous fistula in a patient with Marfan’s syndrome
R. Shimada, H. Kiyosue, S. Tanoue, H. Mori; Oita/JP

P-217 Successful treatment for central retinal artery occlusion (CRAO) – carotid artery stenting (CAS) followed by local thrombolysis of the ophthalmic artery
M. Lewandowski, A. Modrzejewski, I. Kossuth, J. Gorączy; Szczecin/PL

Oncologic intervention

Scientific Posters

P-218 A prognostic score for survival of salvage patients after Y-90 radioembolization of liver metastases from colorectal carcinoma
R. Damm, R. Seidensticker, M. Seidensticker, K. Mohnike, H. Amthauer, M. Pech, J. Ricke; Magdeburg/DE
WITHDRAWN

P-219 Angled cool-tip electrode for radiofrequency ablation of small superficial subcapsular tumors in liver

P-220 Chemoembolization of extrahepatic collateral arteries for hepatocellular carcinoma in the caudate lobe of liver

P-221 Clinical effectiveness of Y-90 transarterial radioembolization in liver metastases
R. D’Angelo, R. Galasso, F. Somma, L. Aloj, S. Lastoria, F. Fiore; Naples/IT

P-222 Cone-beam CT vs CT in lung ablation procedure: which is faster?

P-223 Cryotherapy combined with intra-arterial chemoembolization in advanced cancer patients: feasibility and clinical gains
J.H. Kim; Gunpo/KR

P-224 Early changes in apparent diffusion coefficient and contrast enhancement after cryoablation of renal tumors
E. de Kerviler, F. Mantagui, A. Coffin, C. de Bazelaire; Paris/Fr

P-225 HCC treatment with 40-µm drug-eluting microspheres: early results
R. Nani, C. Villa, R. Agazzi; Bergamo/IT

P-226 In vitro characterization of drug-eluting HepaSphere designed for chemoembolization
N. Maeda, K. Osuga, K. Tanaka, K. Kishimoto, M. Nakamura, Y. Ono, H. Higashihara, N. Tomiyama; Suita/JP

P-227 Intraarterial lutetium dotatate receptor therapy for neuroendocrine tumors
S. Yilmaz, A. Yildiz, M. Ozdogan, M. Cevener, A. Kargi; Antalya/TR

P-228 Irreversible electroporation for non-thermal tumor ablation in the clinical setting: a systematic review of safety and efficacy
**P-229** Microwave ablation of pancreatic tumors
* N. Lucchini1, A.M. Ierardi1, M. Petrillo2, C. Floridi1, E. Duka1, F.A. Vizzari1, G. Carrafiello1, C. Fugazzola1; 1Varese/IT, 2Naples/IT

**P-230** Percutaneous CT-guided cryoablations of renal masses: a safe and effective treatment
* G-A. Kock, A. Montauban van Swijndregt, B. Lagerveld; Amsterdam/NL

**P-231** Percutaneous hepatic perfusion (chemosaturation) of cholangiocarcinoma with second-generation hemofiltration system: a technical note

**P-232** Pre-transplant transarterial chemoembolization in an outpatient setting: a single-center retrospective review

**P-233** Radial versus femoral artery access for transarterial chemoembolization
* Y. Khairutdinov, V. Tsukan, A. Arablinskiy; Moscow/RU

**P-234** Radiofrequency ablation in fibromatosis: a new modality of treatment for the treatment of prostate cancer in 1008 patients: a 7-year single-center experience
* V.A. Solovov, M.O. Vozdvizhenskii, Y.S. Matyash, D.V. Fesenko, R.Z. Khametov; Samara/RU

**P-236** Selective internal radiotherapy (SIRT) using resin yttrium–90 microspheres for chemotherapy-refractory metastatic colorectal cancer: a UK cost-effectiveness analysis

**P-237** Selective internal radiotherapy (SIRT) using resin yttrium–90 microspheres for chemotherapy-refractory metastatic colorectal cancer: an Italian cost-effectiveness analysis
* B. Pennington1, K. Sennfält2, M. Cosimelli3, R. Golfieri4; 1Sheffield/UK, 2Sydney/AU, 3Rome/IT, 4Bologna/IT

**P-238** Single-center experience with percutaneous CT-guided cryoablation of renal neoplasms

**P-239** Transarterial chemoembolization of hepatocellular carcinoma with 70–150 μm doxorubicin-loaded drug-eluting beads
* K.B. Marashi, M.A. Cura, J.D. Sacks, J.D. Meler; Dallas, TX/US

**P-240** Transcatheter arterial chemoembolization using HepaSphere microspheres™: preliminary results of a monocentric study
* F. Pedrazzini, A. Antonietti, A. Balderi, D. Sortino, E. Roberto, C. Vinay, M. Grosso; Cuneo/IT

**P-241** Unresectable neuroendocrine liver metastases treated by transcatheter intraarterial therapy: results of a Japanese multicenter study
* O. Ikeda1, Y. Sato2, Y. Baba1, T. Yasumoto1, K. Osuga1, D. Abo1, H. Gobara1, K. Yamakado1, S. Hirota2, T. Minami2; 1Kumamoto/JP, 2Nagoya/JP

**P-242** Virtual thermometry software during cone-beam CT-guided pulmonary radiofrequency ablation: advantages of a new tool
* R.L. Cazzato1, F. Texeira Jr.1, R.F. Grassi2, V. Catena3, N. Alberti3, X. Buy4, J. Palussière5; 1Bordeaux/FR, 2Rome/IT

**P-243** Visualization of lipiodol-marked renal tumor under fluoroscopy for percutaneous cryoablation

**Educational Posters**

**P-244** CT-guided percutaneous cryoablation: everything the radiologist needs to know
* E. de Kerviler, C. de Margerie, C. de Bazelaire, A. Coffin; Paris/FR

**P-245** Delirium following chemoembolization: the role of inflammation in post-embolization syndrome
* C.E. Ray, Jr1, D. Wells2, J. Alisky2, J. Minocha1, M.-G. Knuttilen3, R.C. Gaba1, J.T. Bui1; 1Chicago, IL/US, 2Aurora, CO/US
P-246 Extrahepatic collateral blood supply to hepatocellular carcinoma (HCC): the anatomical and imaging features of extrahepatic collateral arteries and procedural complications related to transcatheter arterial chemoembolization (TACE) through these arteries

S. Kanasaki1, T. Hirose1, Y. Hamanaka1, K. Fumoto1, S. Ota2, A. Furukawa1; 1Kyoto/JP, 2Otsu/JP

Case Reports

P-247 Bilateral prostatic artery embolization for intractable hematuria in prostate cancer

J. M. Gimenez, J. M. Kably, P. Okolo, G. Narayanam; Miami, FL/US

P-248 Biliary stricture as a complication of transcatheter arterial chemoembolization after hemihepatectomy: a report of 3 cases

D. Flowers, C. Mansbridge, J. Coyne, T. J. Bryant, B. Studman, T. Armstrong, D. J. Breen, N. Hacking; Southampton/UK

P-249 HIFU therapy for pancreatic cancer: 3-year follow-up

V. A. Solovoy; Samara/RU

P-250 Multiple minimvasive interventional procedures of renal cell carcinomas and pancreatic metastasis in a patient with a solitary kidney

R. F. Grassi1, F. Orsi2, G. Luppi1, E. Faieila, F. Giurazza, R. L. Cazzato1, S. Mercurio1, B. Beomonte Zobel1; 1Rome/IT, 2Milan/IT

P-251 Post-transplantation diaphragmatic recurrence of hepatocellular carcinoma treated with chemoembolization

C. García Alba, J. Cazejust, B. Bessoud, Y. Menu; Paris/FR

P-252 Radiofrequency ablation of adrenal metastases of hepatocellular carcinoma in a post-liver transplant patient complicated by vascular injury managed endovascularly

D. Jain, A. K. Kapoor, A. H. Khandelwal, V. Jain, S. S. Bajjal; Gurgaon/IN

Others

Scientific Posters

P-253 Catheter-directed embolization of extracranial high-flow arteriovenous malformations with Onyx: safety, efficacy, and long-term outcomes

T. De Beule1, J. Vanckx1, I. Fourneau, S. Heye, G. A. Maleux; Leuven/BE

P-254 CT-assisted sympathectomy as an additional minimally invasive therapeutic option in primary focal plantar hyperhidrosis

F. Scheer1, P. Wiggermann2, P. Kamusella1, C. Wissgott1, R. Andresen1; 1Heide/DE, 2Regensburg/DE

P-255 Effectiveness and safety of a pneumatic compression device for hemostasis of femoral catheterization

J. H. Kwon, S. W. Kim, Y. H. Han; Goyang-si/KR

P-256 Efficacy and safety of ExoSeal vascular closure device positioned under ultrasound guidance: a 6-month single-center prospective registry

R. F. Grassi, G. Luppi, E. Faieila, R. L. Cazzato, F. Giurazza, S. Mercurio, B. Beomonte Zobel; Rome/IT

P-257 Endovascular embolisation as a primary treatment for spinal dural arteriovenous fistulae: a 10-year retrospective review

J. G. McGarry, J. Thornton, P. Brennan, A. O'Hare, S. Looby; Dublin/IE

P-258 Evaluation of medical students’ knowledge of interventional radiology (IR) before and after adoption of the CIRSE undergraduate IR curriculum

K. A. Pennycooke, S. Shaikh, S. S. Alnafisee, M. J. Lee; Dublin/IE

P-259 Frequency and risk factors of innominate artery stent fractures

E. Dósa1, B. Nemes, V. Bérczi, H. Sarkadi, K. Hüttl; Budapest/HU

P-260 Image-guided percutaneous treatment of chylous leaks: a single-center experience of 30 patients

E. Santos Martin, K. M. McCluskey, C. J. Friend, R. Bandi, K. Ching, V. Gavriloic; Pittsburgh, PA/US

P-261 Left axillary artery access for angiography: indications and outcomes in current practice

R. D. White1, A. Wells2, S. Chakraverty2, J. G. Houston1, R. Bhat2, M. Flett2, J. Zealley1; 1Cardiff/UK, 2Dundee/UK

P-262 Patient radiation doses and reference levels in interventional radiology: a national approach in Korea

P-263 Role of interventional radiology in management and prevention of complications with islet transplantation after pancreatic surgery: a 13-year single-center experience on 1634 patients
G. Agostini, M. Venturini, F. Morelli, A. Palmisano, F. De Cobelli, A. Del Maschio; Milan/IT

P-264 Strategy for the treatment of spontaneous isolated visceral artery dissection

P-265 Effectiveness of bronchial artery embolisation for haemoptysis in a cystic fibrosis population
N. Shaida, S. Ilyas, M. Krokidis, C. Cousins; Cambridge/UK

P-266 Treatment of benign cystic thyroid nodules with ethanol ablation: comparison of ethanol retention and aspiration
H.S. Park¹, J.H. Baek¹, E.J. Ha², J.H. Lee¹, Y.K. Shong¹, W.B. Kim¹, T.Y. Kim¹; ¹Seoul/KR, ²Suwon/KR

P-267 Ultrasound-guided PICC placement: evaluation of economic and non-economic repositioning costs at an academic medical center

Educational Posters

P-268 A new university radiology 'app' for medical students and junior doctors
M.S. Shaikh, M.J. Lee, K.A. Pennycooke, M. Mirza; Dublin/IE

P-269 Anesthetics, analgesics, and sedatives: a pocket guide
E. Guedes Pinto, D. Penha, A. Costa; Amadora/PT

P-270 High-frequency jet ventilation for CT-guided radiofrequency ablation of lung and solid organs: is it an unnecessary luxury?
A. Alsafi, A. Zia, E. Kashef, M.S. Hamady, R.H. Thomas; London/UK

P-271 How to perform safe spinal and pelvic thermal ablations
G. Tsoumakidou, J. Garnon, I. Enescu, M.A. Thenint, F. Bing, A. Gangi; Strasbourg/FR

P-272 Interpretation of blood flow patterns in femoral pseudoaneurysm
WITHDRAWN

P-273 Non-surgical treatment of benign thyroid nodules: management strategies according to nodule composition
E.J. Ha¹, J.H. Baek², H.S. Park²; ¹Suwon/KR, ²Seoul/KR

P-274 Paracentesis-induced circulatory dysfunction: a primer for the interventional radiologist
A. Lindsay¹, C.E. Ray, Jr.², J.T. Bui², J. Minocha², R.C. Gaba², M.-G. Knuttinen²; ¹Aurora, CO/US, ²Chicago, IL/US

P-275 Percutaneous fluoroscopic guidewire manipulation of malfunctioning peritoneal dialysis catheters
S.H. Kwon, J.H. Oh, S.W. Park; Seoul/KR

P-276 Pictorial review of transcatheter management of submassive pulmonary emboli using ultrasound-accelerated thrombolysis
S. Pol, H.M. Ireland, J. Gordon-Smith, C. Hay; Edinburgh/UK

P-277 Safe and efficient treatment of peripheral vascular malformations: the twin butterfly needle technique
A. Pantos; London/UK

P-278 Safety in interventional radiology – time to shake things up!
F. Rawf, A. Alsafi, A. Zia, A. Darzi, C. Bicknell, M.S. Hamady; London/UK

P-279 Training in interventional radiology: developing hands-on courses in an animal cathlab
A. Laborda, C. Serrano, R. Fernández-Parmá, C. Lahuerta, M.A. de Gregorio; Zaragoza/ES

P-280 Transcatheter embolization of visceral artery pseudoaneurysms
O. Ikeda, S. Inoue, Y. Tamura, Y. Nakasone, Y. Yamashita; Kumamoto/JP

P-281 Understanding regression analyses – a primer
C.E. Ray, Jr., R.C. Gaba, J. Minocha, M.-G. Knuttinen, J.T. Bui; Chicago, IL/US
**Case Reports**

P-282 Intraoperative angiography and endovascular treatment of massive bleeding during open necrosectomy following heterotopic pancreas transplantation  
*M. Gawlitza*, M. Bartels, T.-O. Petersen, J. Fuchs, M. Moche; Leipzig/DE

P-283 Low-invasive percutaneous treatment of pancreas divisum-induced recurrent pancreatitis by pancreatic duct drainage and subsequent balloon dilatation of Wirsung and Santorini ducts  
*M. Mizandari*, N. Habib, G. Asatiani, G. Nemsadze; 1Tbilisi/GE, 2London/UK

P-284 Mechanical thrombus aspiration in a case of massive pulmonary thromboembolism  
*M. Bossalini*, F.C. Bodini, B. Rossi, E. Michieletti; Piacenza/IT

P-285 Three cases of recanalization after arterial embolization with NBCA-lipiodol for traumatic hemorrhage  

P-286 Unusual case of acute internal carotid artery (ICA) bleeding which presented as a late complication of radiotherapy  
*I.U. Din*, I. Ahmed, I. Sherman, S. Lea; Liverpool/UK

**Peripheral vascular disease intervention**

**Scientific Posters**

P-287 A 100-case single-center experience with OUTBACK-assisted subintimal recanalization  

P-288 A previously undefined accessory great saphenous vein: an ultrasonogrophy study  
*S. Deniz*, D. Unal, E. Hatipoglu, M. Gedikoglu, L. Oguzkurt; Adana/TR

P-289 Acute thrombosis of covered stents in the peripheral arteries: an underestimated phenomenon  

P-290 Belgian remedy registry: 1-year results of bioabsorbable stents in superficial femoral artery lesions  
*P. Goverde*, K. Lauwers, H. Schoe, F.E. Vermassen; 1Antwerp/BE, 2Genk/BE, 3Ghent/BE

P-291 BILUX P-II: a randomized clinical trial of Passeo-18 Lux DRB vs. POBA for the treatment of infrapopliteal artery lesions  

P-292 Covered stents for the treatment of aorto-iliac occlusive disease  
*F.A.B. Grimme*, P. Kasprzak, P. Goverde, M. Reijnen; 1Arnhem/NL, 2Regensburg/DE, 3Antwerp/BE

P-293 Differentiation of superficial femoral artery restenosis with optical coherence tomography (OCT)  
*M. Brodmann*, A. Dor, T. Gary, H.A. Deutschmann, E. Pilger, P. Eller; Graz/AT

P-294 Drug-coated balloon (DCB) angioplasty versus conventional angioplasty for the treatment of the superficial femoral artery (SFA) and PI segment in PAD patients: first interim results of the FREERIDE study  
*K.-L. Schulte*, B. Fernandez-Tresguerres, R. Langhoff; 1Berlin/DE, 2Bonn/DE

P-295 Endovascular treatment with percutaneous transluminal angioplasty in patients with Buerger’s disease  
*L. Oguzkurt*, M. Gedikoglu, N. Koca, A. Andic; Adana/TR

P-296 Evaluation of infrapopliteal blood flow changes during endovascular revascularization using 2D X-ray perfusion software: a pilot study  
*M. Meeks*, J. Mayer, P. Desgranges, Y. Ketsakin, J.-F. Deux, H. Kobeiter; 1Best/NL, 2Creteil/FR

P-297 Exercise or intervention? Contrasting non-surgical options in the management of claudicants  
*T.M. Aherne*, S. McHugh, M.J. Lee, A.L. Leahy, D. Moneley; 1Dublin/IE

P-298 Feasibility of direct imaging of perfusion in the foot in patients with critical limb ischemia  
*S. Jens*, M.J.W. Koellemay, H.A. Marquering, J.A. Reekers; Amsterdam/NL

P-299 Lower limb amputation and the fate of the contralateral limb in patients with critical limb ischemia (CLI)  
P-300 Percutaneous thrombosuction for acute lower limb ischemia
A. Katsargyris, K. Oikonomou, B. Möhner, R. Wolfgang, M. Pedraza de Leistl, E. Verhoeven; Nuremberg/DE

P-301 Prospective, multicenter Tack optimized balloon angioplasty (TOBA) study for femoropopliteal arteries using the Tack IT Endovascular SystemTM: preliminary results
C. Wissgott1, C. Luedtke1, O. Lorenzen2, F. Scheer1, P. Kamusella1, R. Andresen1; 1Heide/DE, 2Hamburg/DE

P-302 Randomized trials for endovascular treatment of infrainguinal arterial disease: systematic review and meta-analysis (part 2: below the knee)
S. Jens, A.P. Conijn, M.J.W. Koellemay, S. Bipat, J.A. Reekers; Amsterdam/NL

P-303 Safety and efficacy of ticagrelor in patients with critical limb ischemia and high on-clopidogrel platelet reactivity: initial experience from a platelet function test-guided individualized antiplatelet therapy study
S. Spiliopoulos1, K.N. Katsanos2, P.M. Kitrou1, A. Diamantopoulos1, I. Ahmed1, P. Gkoutzios1, N. Karunanithy1, K.N. Katsanos1; 1London/UK

P-304 To identify the source and journal of publication for studies on endovascular interventions in lower limb peripheral arterial disease over the past 5 years
P.N. Thanaratnam, E. Carmody, R.J. Lee, D.M. Lee, S.S. Alnafisee, M.J. Lee; Dublin/IE

P-305 Ultrasonography-guided retrograde tibial artery access in patients with failed antegrade recanalization of femoropopliteal and crural artery occlusions
D. Unal, S. Deniz, C. Andic, E. Hatipoglu, L. Oguzkurt; Adana/TR

P-306 Ultrasound-accelerated vs. standard catheter-directed thrombolysis in patients with acute and subacute limb ischemia: a single-center retrospective experience in 102 patients
M.B. Schernthaner1, S.L. Samuels2, P. Biegler2, J.F. Benenati2, H. Uthoff2; 1Vienna/AT, 2Miami, FL/US

P-307 Use of a new hybrid nitinol ring stent (TIGRIS) in the popliteal artery
A. Parthipun1, P.M. Kitrou2, A. Diamantopoulos1, I. Ahmed1, P. Gkoutzios1, N. Karunanithy1, K.N. Katsanos1; 1London/UK, 2Patras/GR

Educational Posters

P-308 A beginner’s guide to vascular stents
K. Khanna, S. Quigley, O.S. Jaffer; London/UK

P-309 Drug-eluting stent placement in the bifurcation and trifurcation of the tibial arteries: how I do it

P-310 Illustrated complications of peripheral arterial intervention: identification and management

P-311 Infrared thermographic imaging based on the angiosome concept as a screening modality for below-the-knee arterial insufficiency
H.J. Shim1, J.S. Shin2, B.K. Kwak1; 1Seoul/KR, 2Goyang-si, Gyeonggi-do/KR

P-312 Introduction of J guidewire as a deformable guide for ultrasound-guided antegrade access during lower limb angiographies
B. Shaygi; Exeter/UK

Case Reports

P-313 Acute lower limb ischaemia in a patient with bilateral persistent sciatic arteries
S. Ilyas, N. Hilliard, M. Gohel, B. Koo; Cambridge/UK

P-314 Contrast-enhanced ultrasound (CEUS)-guided direct percutaneous thrombin injection for a type II endoleak in an enlarging internal iliac aneurysm
M.A. Husainy, P. Sidhu, D. Huang; London/UK

P-315 Crossing over the abyss – should we do this more often?
W. Sprenger De Rover, W. Al-Obaydi, F. Kovacs, G. Pollock, J. Kirk; Derby/UK

P-316 Endovascular management of accidentally separated balloon-expandable stent from its balloon catheter at the aortic bifurcation
P. Celtikci, O. Ergun, H.A. Durmaz, E. Birgi, B. Hekimoglu; Ankara/TR
P-317 Jetstream atherectomy for the treatment of heavily calcified SFA occlusions using a “no guidewire” technique
T. Balázs, R. Bažík, I.P. Vulev; Bratislava/SK

P-318 Transradial cardiac catheterization in a patient with primary Raynaud’s phenomenon – complication and treatment
N.C. Figueroa, B. Baker, R.T. Gandhi, B.T. Katzen; Miami, FL/US

Radiation Safety

Scientific Posters

P-319 Analysis of radiation dose in varicocele embolization using a latest-generation C-arm: what is the hereditary risk?
A. Gioppo, F. Melchiore, R. Azzeroni, G. Cornalba; Milan/IT

P-320 Interventional neuroradiology procedures – diagnostic reference levels and occupational exposure: a Portuguese department analysis
G. Paulo, I. Cardoso, S. Pereira, J. Santos; Coimbra/PT

P-321 Radiation dose considerations and the methods of dose reduction in prostate artery embolisation for benign prostatic hypertrophy: experience from the first UK trial
D. Flowers, J. Coyne, T.J. Bryant, L.M. Ingram, J. Dyer, M. Harris, B. Somani, N. Hacking; Southampton/UK

Renal and visceral artery intervention

Scientific Posters

P-322 DENER-HTN trial: a prospective randomized control trial of the efficacy of renal artery denervation in resistant hypertension
M.R. Sapoval, M. Monge, H. Pereira, The DenerHTN investigators, M. Azizi; Paris/FR

P-323 Endovascular treatment of renal artery aneurysms: a single-center experience based on 44 aneurysms
R. Maciag, M. Wojtaszek, K. Korzeniowski, M. Januszewicz, O. Rowinski; Warsaw/PL

P-324 Isolated spontaneous celiac trunk dissection: diagnosis and management

P-325 One-year and preliminary 18-month efficacy and safety results from the REDUCE-HTN trial
E. Wyffels1, U. Hoppe1, I. Ott1, J. Diaz-Cartelle4, M. Mazor4; 1Aalst/BE, 2Salzburg/AT, 3Munich/DE, 4Natick, MA/US

P-326 Percutaneous embolization of iatrogenic renal vascular injuries
A.M. Ierardi1, E. Duka1, M. Petrillo2, C. Floridi1, F. Piacentino1, E. Kehagias1, D.K. Tsetis1, G. Carrafiello1; 1Varese/IT, 2Naples/IT, 3Iraklion/GR

P-327 Renal angiomyolipoma: a systematic review of transarterial embolisation
T.E. Murray, M.J. Lee; Dublin/IE

P-328 Safety and efficacy of sympathetic renal artery denervation using a multi-electrode renal artery denervation catheter in patients with drug-resistant hypertension: results of two first-in-human, multicenter studies
C. Tsiofis1, S.G. Worthley2; 1Athens/GR, 2Adelaide/AU

P-329 Novel method for performing percutaneous transluminal renal angioplasty (PTRA) under non-contrast MRA guidance overlaid on fluoroscopy image

P-330 Transradial access for complex interventions below the diaphragm
S. Kondrashin, V. Koblikov; Moscow/RU

P-331 Visceral artery aneurysms: management, treatment, and outcome in a tertiary care centre over one decade
M.B. Pitton, R. Kloeckner, S. Schotten, E. Dapp, C. Düber; Mainz/DE
WITHDRAWN
Educational Posters

P-332 Acute adrenal haemorrhage – silent killer or massive murderer?
W. Sprenger De Rover, F. Kovacs, J. Kirk, P. Thurlay, M. De Nunzio, P.M. Bungay; Derby/UK

P-333 Percutaneous CT-guided cryoablation (CRYO) of 112 renal tumours in 102 patients: pearls and pitfalls
J. Zhong, S. Burbridge, J. Smith, T.M. Wah; Leeds/UK

P-334 Splenic artery aneurysm: what the interventional radiologist needs to know about various endovascular techniques
P. Rigamonti1, U.G. Rossi1, P. Torcia2, A. Cotroneo3, C. Ferro4, F. Melchiorre5, G. Cornalba6, M. Cariati7; 1Milan/IT, 2Rome/IT, 3Chieti/IT, 4Genoa/IT

Case Reports

P-335 Catastrophic renal artery aneurysm rupture in a pregnant woman
S. Quigley, K. Khanna, I. Renfrew; London/UK

P-336 Delayed presentation of a renal transplant artery pseudoaneurysm: management with transcatheter embolisation using thrombin
S. Ameli-Renani, R. Das, A. Bagul, G.J. Munneke, U. Patel; London/UK

P-337 Percutaneous CT-guided ethanol sympathicolysis for the treatment of resistant arterial hypertension
F. Streitparth, B. Gebauer, P. Freyhardt, P. Nickel, R.W. Günther; Berlin/DE

P-338 Percutaneous thrombin embolization of an pancreatico-duodenal artery pseudoaneurysm after failure of endovascular treatment
G. Barbiero, M. Battistel, A. Susac, D. Miotto; Padua/IT

P-339 Retrieval of unraveled detachable coil system using myocardial biopsy forceps
M. Okada1, M. Yasui2, S. Katayama2, N. Matsunaga1; 1Ube/JP, 2Tokuyama/JP

P-340 Successful management with transcatheter arterial particle embolization in a case of infantile hepatic hemangioendothelioma with consumptive coagulopathy
A. Uçar, E. Agolli, A. Sulovari; Istanbul/TR

P-341 Transcatheter renal arterial embolization for symptomatic autosomal dominant polycystic kidney disease (ADPKD)
Y. Ishimaru1, N. Kawaguchi1, H. Miki1, H. Tanaka2, T. Mochizuki2; 1Matsuyama, Ehime/JP, 2Ehime/JP

TIPS and portal vein intervention

Scientific Posters

P-343 Accuracy of indirect portosystemic gradient measurement as a surrogate to direct measurement
S. Tulin-Silver, H.W. Charles, S. Sigal; New York, NY/US

P-344 Analysis of clinical outcome, prognostic factors and associated costs of transjugular intrahepatic portosystemic shunt for the treatment of portal hypertension in liver cirrhosis: comparison between a stent and a stent-graft device

P-345 Effect of transjugular intrahepatic portosystemic shunt on renal function
B.K. Erly, M.J. Sands, W. Carey, C. Shah, J. Bullen, B. Kapoor; Cleveland, OH/US

P-346 Embolization of percutaneous transhepatic portal venous access tract with N-butyl cyanoacrylate
J.H. Won; Suwon/KR

P-347 Experience in portal vein embolization for extensive liver resection
D. Aydevich, D. Yurlevich, O. Kozak, Z. Labunets, I. Kulinkovich; Minsk/By
<table>
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<tbody>
<tr>
<td>P-348</td>
<td>Extrahepatic portal vein puncture with hemorrhage in the transjugular intrahepatic portosystemic shunt: treatment with covered stent</td>
<td>J.-B. Zhao, F. Chao, H.X. Xiaofeng, Z. Qing-le, L. Yan-hao, Y. Chen</td>
<td>Guangzhou/CN</td>
</tr>
<tr>
<td>P-351</td>
<td>Percutaneous transhepatic variceal embolization followed by partial splenic embolization for acute esophagogastric variceal massive hemorrhage</td>
<td>X. Duan, X.-W. Han, J. Ren</td>
<td>Zhengzhou/CN</td>
</tr>
<tr>
<td>P-355</td>
<td>Three-dimensional volume flow measurements in transjugular intrahepatic portosystemic shunts in patients referred to interventional radiology for shunt evaluation and/or revision</td>
<td>P. Novelli, S. Pinter, O. Kripfgans, B. Fowlkes, J. Rubin</td>
<td>Ann Arbor, MI/US</td>
</tr>
<tr>
<td>P-359</td>
<td>Is there still a role for parallel transjugular intrahepatic portosystemic shunt (TIPS)?</td>
<td>P. Rigamonti, U.G. Rossi, C. Ferri, G. Cornaiboa, M. Cariati</td>
<td>Milan/IT, Genoa/IT</td>
</tr>
<tr>
<td>P-360</td>
<td>IVUS-guided direct intrahepatic portocaval shunt (DIPS): from the original to the current state</td>
<td>M. Horikawa, B.D. Petersen, K. Farsad, K.J. Kolbeck, F.S. Keller, J.A. Kaufman</td>
<td>Portland, OR/US</td>
</tr>
</tbody>
</table>

**Case Reports**

<table>
<thead>
<tr>
<th>Case Reports</th>
<th>Title</th>
<th>Authors</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-364</td>
<td>A case of gastric varix successfully treated with balloon-occluded retrograde transvenous obliteration (B–RTO) via the left pericardiophrenic vein</td>
<td>R. Morita, T. Hasegawa, W. Sakai</td>
<td>Obihiro City/JP, Sapporo City/JP</td>
</tr>
<tr>
<td>P-365</td>
<td>Balloon-occluded retrograde transvenous obliteration for gastric varices without gastrorenal/gastrocaval shunt</td>
<td>M. Maruno, H. Kiyosue, S. Tanoue, S. Matsumoto, H. Mori</td>
<td>Yufu/JP</td>
</tr>
</tbody>
</table>
P-366 Balloon-occluded retrograde transvenous obliteration of esophageal varices via the azygos vein

P-367 Balloon-occluded retrograde transvenous obliteration of gastric varix with multiple draining veins performed with temporal occlusion of the pericardiohepatic vein with a micro-balloon

P-368 Spontaneous hemoperitoneum due to the rupture of the paraumbilical vein varix successfully treated with balloon-occluded retrograde transvenous obliteration
R. Morita1, T. Hasegawa2, W. Saka3; 1Obihiro City/JP, 2Sapporo City/JP

P-369 TIPSS revision by direct stent-graft puncture using percutaneous transhepatic approach
E.M. Aldulaigan, S.A. Qazi, M. AL Moaiqel; Riyadh/SA

P-370 Transjugular intrahepatic portosystemic shunt for portal stent occlusion
M. Okada1, Y. Nakashima2, T. Ishikawa2, N. Matsunaga2; 1Ube/JP, 2Hofu/JP

P-371 Multicenter experience of the newly designed covered metallic ureteral stent for malignant ureteral occlusion: comparison with double J stent insertion

P-372 Pathological findings of enhancing nodules in post-cryoablation site of renal cell carcinomas and results of repeat cryoablation
K. Shimizu, T. Mogami, K. Michimoto, Y. Kameoka, T. Tokashiki, N. Kurata, J. Harada; Chiba/JP

P-373 Safety and yield of real-time ultrasound-guided percutaneous renal biopsy using an automatic 16-gauge Tru-cut needle in 372 consecutive native kidneys
J.R. Fortuño, A. Alguersuari, E. Criado, J.F. Falco-Fages, A. Mateos, S. De Lamo, E. Garcia; Sabadell/ES

P-374 Short-, medium-, and long-term outcomes of prostatic arterial embolization for patients with benign prostatic hyperplasia refractory to medical therapy: 600 cases
J.M. Pisco, L. Campos Pinheiro, T. Bilhim, H. Rio Tinto, M. Duarte, J.A. Pereira, A.G. Oliveira, L. Fernandes; Lisbon/PT

P-375 Super-selective arterial embolisation for post-traumatic high flow priapism: a multi-centre review
U.G. Rossi1, P. Rigamonti1, A. Rampoldi1, G. de Caro2, G. Cornoalba3, M. Mpariti1; 1Milan/IT, 2Genoa/IT

P-376 Accordion sign in the transplant ureter: ramifications during balloon dilation of strictures

P-377 The safety and efficacy of prostatic arterial embolization with Bead Block for patients with refluxatory benign prostatic hyperplasia – a pilot study

P-378 Ureteral rendezvous: technique and results
M. Corona, C. Zini, P. Lucatelli, A. D’Adamo, G.P. Ricciuti, F.M. Salvatori; Rome/IT

P-379 Retrograde ureteral catheterization following cystectomy in patients with an ileal conduit: technique and outcome
S. Ilyas, N. Shaida, B. Koo, A. Winterbottom; Cambridge/UK

P-380 Transplant kidney ureteral strictures: when and how to intervene

P-381 Bilateral ureteric balloons for the treatment of ureteric leak
J. Patel, K. Patatas, E.D. Lehmann; London/UK

P-382 Inadvertent insertion of a ureteric stent into the inferior vena cava (IVC)
U.J. Ding, R. Davis, P. Kumar; Liverpool/UK
P-383 Percutaneous treatment of a postoperative ureteral-aneurysmal sac fistula created after abdominal aortic rupture surgery
V.D. Souftas, P. Korodimos, M. Kosmidou, A. Mpantis, G. Georgiadis, P. Prassopoulos; Alexandroupolis/GR

P-384 Urethral recanalization after traumatic transection using the rendezvous approach and a radiofrequency guidewire
C.R. Weiss, A. Borowski, J.P. Gearhart, S.E. Mitchell; Baltimore, MD/US

Venous intervention and IVC filters

Scientific Posters

P-385 3D computer modeling of the Celect IVC filter for clinical simulation
J.D. Dowell, M. Schickel, S. Ghadiali; Columbus, OH/US
WITHDRAWN

P-386 A single-incision technique for placement of the chemoports in the medial pocket after making the vertical incision via the axillary vein
T.-S. Seo1, M.G. Song1, Y.H. Kim1, S.B. Cho1, H.H. Chung2, S.H. Lee2; 1Seoul/KR, 2Ansan/KR

P-387 Balloon-occluded retrograde transvenous obliteration using sodium tetradecyl sulfate foam: intermediate-term result

P-388 Fluoroscopy-guided endovenous sclerotherapy into varicose tributaries using a microcatheter followed by endovenous laser ablation for incompetent saphenous vein: comparison between liquid and foam sclerotherapy
S.W. Park, J.S. Chang, J.H. Oh; Seoul/KR

P-389 Phlebographic classification of anatomic variants in the right spermatic vein confluence: 23 years of work
S. Pieri, A. Paolo, M. Domenico; Rome/IT

P-390 Pulmonary arteriovenous malformations: percutaneous embolisation using Amplatzer Plug IV
A. Balderi, A. Antonietti, F. Pedrazzini, C. Vinay, D. Sortino, E. Peano, M. Grosso; Cuneo/IT

P-391 Recurrent postsurgical varicocele embolization: anatomic reasons for surgical failure
K. Pyra, T. Jargiello, M. Szczepan-Trojanowska, M. Sojka; Lublin/PL

P-392 Retrospective review of 367 implantations of Option retrievable inferior vena cava filter at a single healthcare system
W. Wang, T. An, E.K. Moon; Cleveland, OH/US
WITHDRAWN

Educational Posters

P-393 A simplified algorithmic approach for the treatment of chronic Budd–Chiari syndrome: review of 75 cases
S. Punamiya; Singapore/SG

P-394 Lower extremity deep venous thrombosis in the pediatric patient – state of the art
C.E. Ray Jr1, M.-G. Knuttilinen1, R.C. Gaba1, J. Minocha1, J.T. Bul1, S. Vedantham2, N. Goldenberg3, J. Durham4;
1Chicago, IL/US, 2St. Louis, MO/US, 3Tampa, FL/US, 4Aurora, CO/US

Case Reports

P-395 Is there a path through? Innovative use of Outback re-entry device to treat venous obstruction
A. Parthipan, K.N. Katsanos, N. Karunananth; London/UK

P-396 Sharp recanalization of the inferior vena cava in Budd–Chiari syndrome
E.M. Aldulaigan, S.A. Qazi, M. AL Moaiqel; Riyadh/SA

P-397 Successful treatment of duodenal varices combining transvenous balloon occlusion and endoscopic injection sclerotherapy
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