



ISFH 2024
European Society of Neuroradiology ESNR
International Spine Full Hands-On Course "Europe"
Italy, Catania, April 18th-20th, 2024

And



Advanced Solutions for Spine Interventional and
True Motion Imaging on Open MRI
Italy, Catania, April 21st, 2024

Director of the Course
Prof. Luigi Manfrè

Co-Directors Prof. A. Brook – Prof. Joshua A. Hirsch



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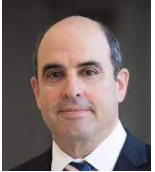
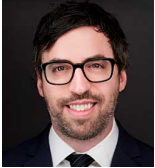
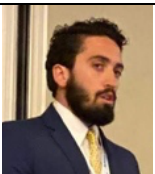
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Advanced Solutions for Spine Interventional
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True Motion Imaging on Open MRI
Italy, Catania, April 21st, 2024
Directors of the Conference
Prof. Luigi Manfrè
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Invited Speakers & Tutors

	Gaied Alenezi Musculoskeletal and spine intervention radiology Consultant Head of radiology Department King Fahad Specialist Hospital, Buraidah, Saudi Arabia.	dr.gaiedalenezi@gmail.com
	Hosam Alqatami Haed Spine Interventional Service, Unit of Neuroimaging and Neurointerventional, Hamad Hospital, Doha, Qatar.	dr_hosam82@hotmail.com
	Giuseppe Barbagallo Chairperson Italy Country Council AOSpine,, Councillor Italian Society of Neurosurgery, Haed Dept Neurosurgery, University of Catania, Policlinico “Rodolico-San Marco”, Catania, (Italy)	gbarbagallo@unict.it
	Salem Bauones Sub-specialty consultant Musculoskeletal and non-vascular interventional radiology Interventional section, Medical Imaging Administration King Fahad Medical City – Riyadh (Saudi Arabia)	sa.bauones@gmail.com
	Doug Beall Haed Interventional Pain Practice (FIPP), Diplomate of the American Academy of Pain Management (DAAPM), Chief of Services, Clinical Radiology of Oklahoma, Oklahoma Spine Hospital, Edmond (Oklahoma, USA)	db@clinrad.org
	Ahmed Bessar Sub-specialty consultant Musculoskeletal and non-vascular interventional radiology Interventional section, Cairo (EGP)	ahmedawadbessar@gmail.com
	Matteo Bellini Haed Spine Interventional Service, Unit of Neuroimaging and Neurointerventional dept of Neurological Sciences Hospital Santa Maria alle Scotte, Siena (Italy)	matteo.bellini@icloud.com

	Mikael Boesen MD, Ph.D. - Department of Radiology and The Parker Institute, Copenhagen University Hospital, Bispebjerg and Frederiksberg, Denmark (DNK)	mikael.boesen@gmail.com
	Allan Brook Division Head, Neuro-interventional Radiology, Montefiore Medical Center, Professor of Clinical Radiology, Department of Radiology (Neuroradiology), Professor of Clinical Neurological Surgery, The Leo M. Davidoff Department of Neurological Surgery, Albert Einstein College of Medicine, New York City (New York, USA)	Abrook@montefiore.org abrook2214@aol.com
	Ferdinando Caranci President of the Italian Association of Neuroradiology AINR, Prof. Neuroradiology dept, Campania University, Naples (ITA)	ferdinando.caranci@unicampania.it
	J. Levi Chazen, M.D. Incoming President of the American Society of Spine Radiology ASSR. Hospital for Special Surgery New York, NY	jlc2008@med.cornell.edu
	Eros De Vivo Minimal Invasive Spine Dept, Mediterranean Institute for Oncology (IOM), Viagrande-Catania (Italy)	devivoeros@gmail.com
	Jacob Fleming Radiology Resident I Musculoskeletal & Spinal Interventional Radiology, UT Southwestern Medical Center Dallas, Texas (US)	jacobflemingmd@gmail.com
	Maurizio Fornari President Italian Society of Neurosurgery, Head of Neurosurgery dept, Humanitas, Milan (Italy)	Maurizio.fornari@humanitas.it
	Wende Gibbs President of the American Society of Spine Radiology ASSR, Director of Spine Imaging and Intervention, Department of Neuroradiology Barrow Neurological Institute, Phoenix, AZ 85013	wendengibbs@gmail.com
	Joshua A. Hirsch Past President of the American Society of Neuroradiology ASNR, Chief Minimally Invasive Spine Surgery, Director, Interventional Neuroradiology/ Endovascular Neurosurgery, Massachusetts General Hospital, Associate Professor of Radiology, Harvard Medical School, Boston (Massachusetts, USA)	hirsch@snisonline.org jahirsch@mgh.harvard.edu
	Adrian Kastler Subcommittee Spine of the European Society of Neuroradiology ESNR, Assistant Professor of Neuroradiology (diagnostic and Interventional), University Hospital of Grenoble, Grenoble (France)	kastler.radio@gmail.com adriankastler@gmail.com
	Majid Khan Director, Non Vascular Spine Intervention Associate Professor of Radiology and Radiological Science. John Hopkins Medicine. Baltimore, MD, USA	mkhan9@jhmi.edu
	Luigi Manfrè Secretary General of the European Society of Neuroradiology ESNR. , Director of Minimal Invasive Spine Dept, Mediterranean Institute for Oncology (IOM), Viagrande-Catania (Italy)	لمانفري@me.com

	Ossama Mansour President of the Middle Est North Africa Stroke and interventional Neurology or Neurotherapies MENA-SINO. Professor of Clinical and interventional neurology and Neuroradiology. Faculty of Medicine. Alexandria (Egypt)	yassinossama@yahoo.com
	Stefano Marcia Director of Radiology & Neuroradiology dept. Ospedale SS Trinità, Cagliari (Italy)	stemarcia@gmail.com
	Steve Morgan Interventional Radiologist Southmead Hospital Bristol (UK)	stevenmorgan21@hotmail.com
	Mario Muto Honorary Member of the American Society of Neuroradiology ASNR. Honorary Member of the European Society of Neuroradiology ESNR. Heed Dept "Cardarelli Hospital", Naples (ITA)	mutomar2@gmail.com
	Vito Pavone Haed Dept of Orthopedic Surgery Department, University of Catania , Policlinico "Rodolico-San Marco", Catania, (ITA)	vitopavone@hotmail.com
	Tyler Phillips Interventional Spine and Pain Management MSK Radiology Family Medicine Comprehensive Specialty Care, Surgical Hospital of Oklahoma, Oklahoma City, Oklahoma, USA	tp@clinrad.org tphillips804@gmail.com
	Letterio Salvatore Politi Full Professor and Director of the Radiodiagnostics Residency School, Humanitas University; Director of Clinical Affairs of Advanced MRI Center and Attending Neuroradiologist, University of Massachusetts Medical School. Director of Neuroimaging Research, Hematology/Oncology Div. and Radiology Dept., Boston Children's Hospital (Massachusetts, USA)	letterio.politi@childrens.harvard.edu
	Johann Wolfgang Rechmeier Facharzt für Diagnostische Radiologie und Nuklearmedizin Radiologie & Nuklearmedizin RechmeierZentrum für OFFENE MRTRücken und Gelenktherapie & Schilddrüsendiagnostik (Deutscheland)	j.w@rechmeier.eu
	Chaudhry Umair Rashid Chief Consultant Neuroradiologist & Head Department of Neuroradiology & 1st Acute Stroke Centre. President, Neuro Radiology Society, Pakistan. Consultant Neuroradiologist & Head Department of Neuroradiology at Punjab Institute of Neuro Sciences, LGH, Lahore – Pakistan	Dr_umairch@yahoo.com
	Alessandra Splendiani M.D., University Hospital S. Salvatore, L'Aquila. Full Professor of Radiology. Dept. of Radiology University of L'Aquila, L' Aquila (Italy)	alessandra.splendiani@cc.univaq.it alessandra.splendiani@univaq.it
	Kai Vilanova Director MRI Clínica Girona, Director School of MRI-ESMRMB Girona (Spain)	kvilanova@comg.cat
	Chiara Zini Chairperson for Spine of the European Society of Neuroradiology. UO Radiologia , Ospedale Santa Maria Annunziata USL Toscana Centro, Firenze (Italy)	zini.chiara@gmail.com



Final Program

Thursday, April 18th, 2024 - morning

IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

08:00 Transfer to Hospital & Registration						
Session 1 Virtual Reality & US-guided procedures						
		ROOM 1a Virtual Reality Tutors:	ROOM 1b Virtual Reality Tutors:	ROOM 2 US guided procedures: cervical Tutors: M. Bellini (ITA)	ROOM 3 US guided procedures: lumbar Tutors: C. Zini (ITA)	ROOM 4 US guided procedures: RFA & Cryoablation Tutors: A. Kastler (FRA)
	09.00 – 10.00	Group A1	Group A2	Group B	Group C	Group D
	10.00 – 11.00	Group B1	Group B2	Group A	Group D	Group C
	11.00 – 12.00	Group C1	Group C2	Group D	Group A	Group B
	12.00 – 13.00	Group D1	Group D2	Group C	Group B	Group A
13:15 – 14:00				Lunch		

Thursday, April 18th, 2024 - afternoon

IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

Session 2 Xray & CT-guided Procedures				
	ROOM 1: X-ray guided procedures Tutors: S. Morgan (UK) C.U.Rashid (PAK)	ROOM 2: X-ray guided procedures Tutors: M. Bellini (ITA) M. Khan (US)	ROOM 3: X-ray guided procedures Tutors: H. Alqatami (QAT) E. De Vivo (ITA)	ROOM 4 CT-Hybrid guided procedures Tutors: L. Manfrè (ITA) G. Alenezi (SA)
14:00 - 15:00	ISI-Discectomy-RFA Cryoablation Group A	Microwaves- Spinal Pump-Neuromodulation – Disc regeneration Group B	Biopsy/Vertebroplasty 1 Group C	Biopsy/Vertebroplasty 2 Group D
15:00 - 16:00	ISI-Discectomy-RFA Cryoablation Group B	Microwaves- Spinal Pump-Neuromodulation – Disc regeneration Group A	Biopsy/Vertebroplasty 1 Group D	Biopsy/Vertebroplasty 2 Group C
Coffee Break 16:00 – 16:30				
16.30 - 17.30	ISI-Discectomy-RFA Cryoablation Group C	Microwaves- Spinal Pump-Neuromodulation – Disc regeneration Group D	Biopsy/Vertebroplasty 1 Group A	Biopsy/Vertebroplasty 2 Group B
17.30 – 18.30	ISI-Discectomy-RFA Cryoablation Group D	Microwaves- Spinal Pump-Neuromodulation – Disc regeneration Group C	Biopsy/Vertebroplasty 1 Group B	Biopsy/Vertebroplasty 2 Group A

Friday, April 19th , 2024 - morning
IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

08:00 Transfer to Hospital				
Session 3 Xray & CT-guided Procedures				
	ROOM 1: X-ray guided procedures Tutors: J.A. Hirsch (US) A. Kastler (FRA)	ROOM 2: X-ray guided procedures Tutors: A. Brook (US) J. Fleming (US)	ROOM 3: X-ray guided procedures Tutors: S. Bauones (SA) S. Morgan (UK) T.Phillips (US)	ROOM 4 CT-Hybrid guided procedures Tutors: L. Manfrè (ITA) G. Alenezi (SA)
09.00 – 10.00	Biopsy/Vertebroplasty 3 Group A	Biopsy/Vertebroplasty 4 Group B	Biopsy/Vertebroplasty 5 Group C	Discectomy-lisis /BVNA /Neuromodulation Group D
10:00 – 11.00	Biopsy/Vertebroplasty 3 Group B	Biopsy/Vertebroplasty 4 Group A	Biopsy/Vertebroplasty 5 Group D	Discectomy-lisis /BVNA /Neuromodulation Group C
Coffee Break 11:00 – 11:15				
11.15 – 12.15	Biopsy/Vertebroplasty 3 Group C	Biopsy/Vertebroplasty 4 Group D	Biopsy/Vertebroplasty 5 Group A	Discectomy-lisis /BVNA /Neuromodulation Group B
12.15 – 13.15	Biopsy/Vertebroplasty 3 Group D	Biopsy/Vertebroplasty 4 Group C	Biopsy/Vertebroplasty 5 Group B	Discectomy-lisis /BVNA /Neuromodulation Group A
13:15 – 14:00 Lunch				

Friday, April 19th , 2024 - afternoon
IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

Session 4 Xray & CT-guided Procedures				
	ROOM 1 X-ray guided procedures Tutors: J.A. Hirsch (US) A. Brook (US)	ROOM 2 X-ray guided procedures Tutors: J. Fleming (US) A. Kastler (FRA)	ROOM 3: X-ray guided procedures Tutors: S. Bauones (SA) S. Morgan (UK) T. Phillips (US)	ROOM 4 CT-Hybrid guided procedures Tutors: L. Manfrè (ITA) G. Alenezi (SA)
14:00 – 15:00	Advanced Augmentation techniques - Tumor ablation Group A	Spacer Group B	Advanced Augmentation techniques Group C	Spacer Group D
15:00 – 16:00	Advanced Augmentation techniques - Tumor ablation Group B	Spacer Group A	Advanced Augmentation techniques Group D	Spacer Group C
Coffee Break 16:00 – 16:30				
16.30 – 17.30	Advanced Augmentation techniques - Tumor ablation Group C	Spacer Group D	Advanced Augmentation techniques Group B	Spacer Group A
17.30 – 18.30	Advanced Augmentation techniques - Tumor ablation Group D	Spacer Group C	Advanced Augmentation techniques Group A	Spacer Group B

Saturday, April 20th , 2024 morning
IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

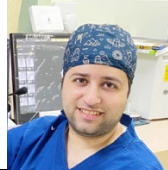
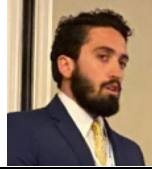
07:15 Transfer to Hospital				
Session 5 Xray & CT-guided Procedures				
	ROOM 1: X-ray guided procedures Tutors: S. Morgan (UK) O. Mansour (EGP)	ROOM 2: X-ray guided procedures Tutors: D. Beall (US) E. De Vivo (ITA)	ROOM 3: X-ray guided procedures Tutors: A. Bessar (EGP) M. Muto (ITA) M. Khan (US)	ROOM 4 CT-Hybrid guided procedures Tutors: L. Manfrè (ITA) G. Alenezi (SA)
08.00 – 09.00	Advanced Augmentation techniques: Kyphoplasty Group A	Advanced Augmentation Stents - SAIF Group C	BVNA Basivertebral Nerve ablation - Tumor ablation Group B	Microfixation: Facets & SIJ Group D
09:00 - 10.00	Advanced Augmentation techniques: Kyphoplasty Group B	Advanced Augmentation Stents - SAIF Group D	BVNA Basivertebral Nerve ablation - Tumor ablation Group A	Microfixation: Facets & SIH Group C
Coffee Break 11:00 – 11:15				
10.15 - 11.15	Advanced Augmentation techniques: Kyphoplasty Group C	Advanced Augmentation Stents - SAIF Group A	BVNA Basivertebral Nerve ablation - Tumor ablation Group D	Microfixation: Facets & SIJ Group B
11.15 – 12.15	Advanced Augmentation techniques: Kyphoplasty Group D	Advanced Augmentation Stents - SAIF Group B	BVNA Basivertebral Nerve ablation - Tumor ablation Group C	Microfixation: Facets & SIJ Group A
12:15 – 13:00 Lunch				

Saturday, April 20th , 2024 afternoon
IOM Institute of Oncology for Mediterranean area – simultaneous Rooms

Session 6 US, Xray guided Procedures & Practical Exam (for EDiSR interventional Diploma)				
	ROOM 1 X-ray guided procedures/Robotic assisted Tutors: S. Morgan (UK) O. Mansour (EGP)	ROOM 2 X-ray guided procedures Tutors: D. Beall (US) M. Muto (ITA) S. Marcia (ITA)	ROOM 3 MRI guided Procedures & Weight Bearing MRI Tutors: A. Bessar (EGP) L. Manfrè (ITA) M. Khan (US)	ROOM 4 EDiSR Diploma Tutors: ESNR Spine Committee
13:00 - 13:45	Augmentation II Group A	Augmentation II & Spacer Group C	Group B	Group D
13:45 - 14:30	Augmentation II Group B	Augmentation II & Spacer Group D	Group A	Group C
14.30 - 15.15	Augmentation II Group C	Augmentation II & Spacer Group A	Group D	Group B
15.15 – 16.00	Augmentation II Group D	Augmentation II & Spacer Group B	Group C	Group A
Closing remarks				

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Prof. Luigi Manfrè

Invited Tutors

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	Hosam Alqatami Haed Spine Interventional Service, Unit of Neuroimaging and Neurointerventional, Hamad Hospital, Doha, Qatar.
	Salem Bauones Sub-specialty consultant Musculoskeletal and non-vascular interventional radiology Interventional section, Medical Imaging Administration King Fahad Medical City – Riyadh (Saudi Arabia)
	Doug Beall Haed Interventional Pain Practice (FIPP), Diplomate of the American Academy of Pain Management (DAAPM), Chief of Services, Clinical Radiology of Oklahoma, Oklahoma Spine Hospital, Edmond (Oklahoma, USA)
	Ahmed Bessar Sub-specialty consultant Musculoskeletal and non-vascular interventional radiology Interventional section, Cairo (EGP)
	Matteo Bellini Haed Spine Interventional Service, Unit of Neuroimaging and Neurointerventional dept of Neurological Sciences Hospital Santa Maria alle Scotte, Siena (Italy)
	Allan Brook Division Head, Neuro-interventional Radiology, Montefiore Medical Center, Professor of Clinical Radiology, Department of Radiology (Neuroradiology), Professor of Clinical Neurological Surgery, The Leo M. Davidoff Department of Neurological Surgery, Albert Einstein College of Medicine, New York City (New York, USA)
	Eros De Vivo Minimal Invasive Spine Dept, Mediterranean Institute for Oncology (IOM), Viagrande-Catania (Italy)

	Jacob Fleming Radiology Resident Musculoskeletal & Spinal Interventional Radiology, UT Southwestern Medical Center Dallas, Texas (US)
	Wende Gibbs President of the American Society of Spine Radiology ASSR, Chief Minimally Invasive Spine. Haed of Neuroradiology, Barrow Neurological Institute, Phoenix (Arizona, USA)
	Joshua A. Hirsch Past President of the American Society of Neuroradiology ASNR, Chief Minimally Invasive Spine Surgery, Director, Interventional Neuroradiology/ Endovascular Neurosurgery, Massachusetts General Hospital, Associate Professor of Radiology, Harvard Medical School, Boston (Massachusetts, USA)
	Adrian Kastler Subcommittee Spine of the European Society of Neuroradiology ESNR, Assistant Professor of Neuroradiology (diagnostic and Interventional), University Hospital of Grenoble, Grenoble (France)
	Majid Khan Director, Non Vascular Spine Intervention Associate Professor of Radiology and Radiological Science. John Hopkins Medicine. Baltimore, MD, USA
	Luigi Manfrè Secretary General of the European Society of Neuroradiology ESNR. , Director of Minimal Invasive Spine Dept, Mediterranean Institute for Oncology (IOM), Viagrande-Catania (Italy)
	Ossama Mansour President of the Middle Est North Africa Stroke and interventional Neurology or Neurotherapies MENA-SINO. Professor of Clinical and interventional neurology and Neuroradiology. Faculty of Medicine. Alexandria (Egypt)
	Stefano Marcia Director of Radiology & Neuroradiology dept. Ospedale SS Trinità, Cagliari (Italy)
	Steve Morgan Interventional Radiologist Southmead Hospital Bristol (UK)
	Mario Muto Honorary Member of the American Society of Neuroradiology ASNR. Honorary Member of the European Society of Neuroradiology ESNR. Heed Dept "Cardarelli Hospital", Naples (ITA)
	Tyler Phillips Interventional Spine and Pain Management MSK Radiology Family Medicine Comprehensive Specialty Care, Surgical Hospital of Oklahoma, Oklahoma City, Oklahoma, USA
	Chaudhry Umair Rashid Chief Consultant Neuroradiologist & Head Department of Neuroradiology & 1st Acute Stroke Centre. President, Neuro Radiology Society, Pakistan. Consultant Neuroradiologist & Head Department of Neuroradiology at Punjab Institute of Neuro Sciences, LGH, Lahore – Pakistan

**Chiara Zini**

Chairperson for Spine of the European Society of Neuroradiology. UO Radiologia ,
Ospedale Santa Maria Annunziata
USL Toscana Centro, Firenze (Italy)



IWBIS 2024

Advanced Solutions for Spine Interventional and True Motion Imaging on Open MRI Italy, Catania, April 21st, 2024

*Director of the Course
Prof. Luigi Manfrè*

Co-Directors Prof. A. Brook – Prof. Joshua A. Hirsch

Sunday, April 21st, 2024
UNA Hotel, Catania

9:00	Subscriptions		
9:00	<i>Opening ceremony and Authorities address</i> T.Yoursy (UK), President of the European Society of Neuroradiology ESNR J. Levi Chazen (USA), President of the American Society of Spine Radiology ASSR, L. Manfrè (ITA), Director of the Meeting and Hands-On Course, Chair for Spine ESNR Moderators: J. Levi Chazen (US) – L. Manfrè (ITA) – T. Yousry (UK)		
9:20-9:40	Lecture 1	The Spine and the Pain: an MRI up-to-date	W. Gibbs (USA)
9:40-10:00	Lecture 2	The role of Weight-Bearing MRI for minimally-invasive spine surgery procedures: current status and future perspectives	L. Manfrè (ITA)
10:00-10:20	Lecture 3	Imaging of the lumbar spine using the G-scan – from clinical research to clinical practice	M. Boesen, (DNK)
10:20-10:40	Lecture 4	Applications of Weight-Bearing MRI Spine in Sports Trauma	K. Vilanova, (SPA)
10:40-11:00	<i>Coffee break</i>		
	Moderators: M. Bellini (ITA) – F. Caranci (ITA) - V. Pavone (ITA)		
11:10-11:30	Lecture 5	The advantages of Open MRI in Periradicular therapy (PRT) procedures	J.W. Rechmeier (DEU)
11:30-11:50	Lecture 6	The added value of Spine Weight Bearing MRI: past, present and future	A. Splendiani (ITA)
11:50-12:10	Lecture 7	Analysis and Evaluation of Cervical Spine Modifications with automatic 3D Imaging segmentation	L.S. Politi (ITA)
12:10-12:30	Lecture 8	Weight-Bearing in Egypt: our experience	A. Bessar (EGP)
12:30-13:30	<i>Lunch</i>		
	Moderators: G. Barbagallo (ITA) - M. Fornari (ITA) - L. Manfrè (ITA)		
13:30-13:50	Lecture 9	Neuromodulators: controlling the Pain	A. Brook (USA)
13:50-14:10	Lecture 10	Tumor Treatments: Control and Cure	J. Levi Chazen (USA)
14:10-14:30	Lecture 11	Spine Instability, LSCS & Pain: Micro-fixation & BVA	L. Manfrè (ITA)
14:30-14:50	Lecture 12	Spine Instability: surgical treatment	M. Fornari (ITA)
15:00	<i>Closing remarks</i>		

