



# 8<sup>th</sup> ESNR DIAGNOSTIC AND INTERVENTIONAL SPINE COURSE **Sicily SPINE**

Under the patronage of



Course Directors  
**Luigi MANFRÉ**  
**Mario MUTO**



## JUNE 28<sup>th</sup> / 30<sup>th</sup>

Hotel Mercure Excelsior

## JULY 1<sup>st</sup>

Oncology Institute  
of the Mediterranean

# CATANIA - ITALY **2017**

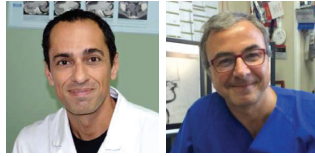


**8<sup>th</sup> ESNR DIAGNOSTIC  
AND INTERVENTIONAL  
SPINE COURSE** Sicily SPINE

**JUNE 28<sup>th</sup> / JULY 1<sup>st</sup>  
CATANIA - ITALY 2017**

Under the patronage of





### Welcome to the 8<sup>th</sup> Diagnostic and Interventional ESNR Spine Course!!

*During last 10 years, there has been and incredible increase of “minimal invasive” procedures for spinal diseases, and a variety of devices has been developed focused on the possibility to perform “minimal surgery”, based on small cut incision, no significant muscles and ligaments damage, maintaining the normal anatomy as intact as possible. The selection of the patients is the key point to obtain the best results for our patients and this cannot be obtain without knowing diagnostic features and clinical evaluation of the patients. This is the reason organizing such as a diagnostic and interventional course mixing knowledge and experience.*

*Imaging guided procedures allow us to perform the best treatment for our patients reducing the risk of complications and malpositioning of the devices. A second great advantage of minimal invasive surgery is the reduction of deep anesthesia (particularly in debilitated or elderly patients). A third advantage of those procedures is surgical time reduction (complex procedures can be performed generally between 30 and 60 minutes), recovery time after surgery (patients is discharged usually between 12 and 48h) and post-op rehabilitation time.*

*For this reason we have this worldwide expert meeting of new minimally invasive techniques in spine treatment, including multiple disciplines such as Neurosurgery, Neuroradiology, Radiology, Radiotherapy, Oncology, Orthopedics, Anesthesia, and Pain Therapy to analyze from different point of view our main topics of the spine pathology as Low Back Pain, Spinal Instability, Spinal Canal Stenosis and Vertebral lesions, briefly analyzing biomechanical and clinical issues, widely evaluating “how-to-do it” and “how to manage”.*

*We deeply hope that all our efforts in assembling so wide variety of Expert will catch up the goal.*

*Enjoy the Congress and Sicily too!!*

Luigi Manfré  
Mario Muto

### Destination Catania

#### The Town



Catania is the second largest municipality of Sicily and one of the 15 metropolitan cities Italian. Catania was originally a Sican settlement, and was later re-founded by the Greeks (Calcedesi) in 729 BC with the name of Κατάνη. It has a long history characterized by various rulers whose remains now enrich the artistic, architectural and cultural heritage. Under the Aragonese dynasty was the capital of the Kingdom of Sicily.

Throughout its history has been repeatedly affected by dramatic eruptions (the most impressive in historical times, is that of 1669) and earthquakes: the most catastrophic occurred in 1693, which destroyed almost the entire city. The two most important natural disasters of late seventeenth century (the eruption of Etna in 1669 and the earthquake of Val di Noto in 1693) were the start of a rebirth, transit to modernity: after this event, in fact, the city was rebuilt by Vaccarini: the baroque old town, unique (Baroque "Bugnato") is a UNESCO World Heritage in 2002.

The town lies at the foot of the Etna, the highest active volcano in Europe, easy to reach with many tourist services available, which offers visitors ever-changing scenarios, covered with snow in wintertime, and "Martians" sightseen during the summer.

### Hands on venue

#### Oncology Institute of the Mediterranean (IOM)



**The Oncology Institute of the Mediterranean (IOM)** is one of the highly-specialized oncology departments existing in Sicily. It comprises a range of initiatives aiming at creating clinical and pre-clinical work of high scientific and critical standards and responding to both therapeutic and research needs in the oncology and non-oncology field. Recently, a newly department dedicated to degenerative and neoplastic spine disease treatment using all minimal invasive, fully X-ray & CT-guided, surgery has also been developed. A close interplay between the clinical and the research activity is what makes it a reference center for clinical and pre-clinical oncology, thus allowing it to offer: patients' admission to hospital and care (**IOM**), the implementation of translational research (**IOM-Research**), the provision of research services and spaces for companies and/or start-up operational units seeking a fertile interaction between research and clinical practice (**IOM-Research and Campus**).

**OPERATIONAL UNITS:** Medical Oncology, Oncohaematology, Autologous Bone Marrow Transplantation, Palliative Care and Paediatric Pain, General Surgical Oncology, Breast and Reconstructive Surgery, Thoracic Surgery, Neurosurgery-Minimal Invasive Spine Surgery, Urology, ENT Maxillofacial Surgery.

**IOM Foundation** is a nonprofit organization that began as a result of the propensity to research of the Oncology Institute of the Mediterranean in Viagrande. It aims to pursue and disseminate scientific research in the field of oncology, to engage in cancer prevention and in raising public awareness of early detection of cancer, as well as to promote training in oncology.

**Rem Radiotherapy** operates within the Department of the IOM; it is a private facility dealing with radiotherapy, nuclear medicine and diagnostic imaging.

14.00 Opening session and welcome

*L. Manfrè, F. Basile, A. Beltramello, M. Buscema, R. Lagalla, C. Privitera, A. Rovira, M. Muto.*

**Moderators:** *A. Krainik, L. Manfrè*

14:30 Keynote lecture: Anatomy, biomechanics and clinical evaluation of SI joint  
*B. Stuesson*

15.00 Spine imaging at 3T: is it really better? *A. Rovira*

15.20 The growing spine *M. Brayda Bruno*

15.40 New data from literature on VP treatment *S. Marcia*

16.00 Spine imaging in spine pain: what to look for *M. Thurnher*

16.20 *Coffee break*

16.40 Pharmacological management of the Spine Pain *P. De Negri*

17.00 EOS: advantage and limits *G. Grillea, M. Bartolo*

17.20 A lecture to listen: Gd Deposition. Is it really a problem? *C. Quattrocchi*

17.40 Keynote lecture: How to organize and manage a spine intervention unit *C. Cho*

18.00 Discussion

**Moderators:** *E. Fiumara, P. Vilela*

- 08.30 The aging spine *M. Brayda Bruno*
- 08.50 Imaging cervical degenerative pain *J. Go*
- 09.10 Percutaneous cervical treatment *A. Brook*
- 09.30 Imaging of Degenerative thoraco-lumbar spine *P. Vilela*
- 09.50 Minimal invasive treatment for lumbar herniated disk *J. Hirsch*
- 10.10 Dynamic evaluation of the spine *M. Muto*
- 10.30 Discussion
  
- 10.45 *Coffee break*

**Moderators:** *A. Kastler, M. Midiri*

- 11.00 Neurolysis in back pain management *A. Kastler*
- 11.20 CSF dynamic imaging evaluation *B. Ertl Wagner*
- 11.40 Spinal cord ischemia *P. Gailloud*
- 12.00 DTI of spine *L. Politi*
- 12.20 Spinal vascular malformations *P. Gailloud*
- 12.40 Discussion
  
- 13.00 *Lunch*

**Moderators:** *C. Cho, G. Galvano*

- 15.30 Diagnostic approach to spine metastasis *P. Sundgren*
- 15.50 Clinical and oncologic management of spine metastasis *D. Giuffrida*
- 16.10 RT of spine metastasis *V. Ravo*
- 16.30 Surgery of spine metastasis *C. Schonauer*
- 16.50 Minimally invasive treatments for spine metastasis *A. Brook*
- 17.10 Cryoablation for spine tumors *S. Masala*
- 17.30 Headache of cervical spine origin: what can we do? *A. Kastler*
- 17.50 Percutaneous cervical facet distraction and fusion. DTrax experience *P.P. Menchetti*
- 18.10 Discussion



### SALA ERICE

**Moderators:** *G. Barbagallo, M. Bonetti*

- 08.30 Diagnosis of primary spine tumors *R. Izzo*
- 08.50 Intramedullary cord tumors *J. Go*
- 09.10 Non-neoplastic spinal cord pathology *N. Bargallo*
- 09.30 Technical approaches for spine intervention *A. Cianfoni*
- 09.50 Multiple Myeloma: diagnostic update and percutaneous treatment *S. Brandelik*
- 10.10 Percutaneous treatment of primary spine tumors *A. Cianfoni*
- 10.30 Discussion
  
- 10.45 *Coffee break*

**Moderators:** *R. Battaglia, C. Calli*

- 11.00 Imaging pediatric spine pain *A. Rossi*
- 11.20 Update on Cranio-cervical junction and cervical vertebral trauma *R. Izzo*
- 11.40 Update on thoracolumbar trauma *C. Calli*
- 12.00 Surgical treatment of spine trauma *C. Schonauer*
- 12.20 Mini invasive treatment of spine trauma *N. Francaviglia*
- 12.40 MR imaging of peripheral nerves *R. Gasparotti*
- 13.00 Discussion

### SALA POSIDONE

**Moderators:** *G. Grasso, M.P. Pappalardo*

- 11.00 ESI. Are they still usefull? *J. Hirsch*
- 11.20 RF and Cryoablation of the facet joint *S. Marcia*
- 11.40 Sacral painful diseases: diagnosis and treatment *L. Manfrè*
- 12.00 Spinal canal stenosis: an overview *M. Muto*
- 12.20 Training program in spine intervention in USA *B. Georgy*
- 12.40 US guided Spine procedures *M. Bellini*
- 13.00 Discussion
  
- 13.20 *Lunch*
  
- 14.30 Invited Lecture "The secrets of Etna"- Dr. Boris Behncker  
*Vulcanologist - National Geophysical and Vulcanology Institute - Etno Observatory -  
Section of Catania*

### SALA ERICE

**Moderators:** *G. Iacopino, C. Cristaudo*

- 15.00 Presentation and discussion of clinical diagnostic cases *R. Izzo, M. Longo, G. Pellicanò*
- 15.20 Diagnostic approach to porotic spine disease *C. Calli*
- 15.40 Trigeminal neuralgia: percutaneous treatment *S. Pakbaz*
- 16.00 Up-date on MS protocol *T. Yousry*
- 16.20 Spine infection. Multimodality approach *A. Bozzao*
- 16.40 Spine Biopsy *G. Pellicanò*

### SALA POSIDONE

**Moderators:** *S. Cicero, F. Ventura*

- 15.00 Presentation and discussion of clinical interventional cases *A. Cianfoni, C. Cho, B. Georgy*
- 15.20 VP treating porotic fractures: how to avoid complications *G. Anselmetti*
- 15.40 Management of hypervascular spine lesions *Z. Kulcsar*
- 16.00 New trends in Percutaneous lumbar fixation *L. Manfrè*
- 16.20 Interspinous Spacer: pros & cons *S. Marcia*
- 16.40 Spinal cord stimulator *S. Pakbaz*
- 17.00 New insights into cell/biomaterial based disc therapy *S. Becker*
- 17.20 Discussion
  
- 18.00 Final test

## I.O.M. - HANDS ON SESSION

09.00 - 12.00

16.00 - 18.30 Hands on disk, facet and vertebral body treatment

**Tutors:** *B. Georgy, L. Manfrè, S. Marcia, M. Muto*

09.00

Anatomical and technical approach for vertebral treatment *M.Muto*

09.30

Anatomical and technical approach for disk and facet treatment

*B. Georgy, L. Manfrè, S. Marcia*

10.00 - 13.00 Hands on session 1

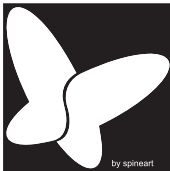
14.00 - 16.30 Hands on session 2

Giancarlo  
Giuseppe  
Nuria  
Marcello  
Francesco  
Roberto  
Stefan  
Matteo  
Alberto  
Matteo  
Alessandro  
Simone  
Marco  
Allan  
Massimo  
Cem  
Charles  
Alessandro  
Salvatore  
Concetto  
Pasquale  
Ettore  
Natale  
Gianluca  
Roberto  
Bassem  
Philippe  
Dario  
John  
Giovanni  
Giovanni  
Joshua A.  
Gerardo  
Roberto  
Adrian  
Alexandre

**ANSELMETTI** (Italy)  
**BARBAGALLO** (Italy)  
**BARGALLO** (Spain)  
**BARTOLO** (Italy)  
**BASILE** (Italy)  
**BATTAGLIA** (Italy)  
**BECKER** (Germany)  
**BELLINI** (Italy)  
**BELTRAMELLO** (Italy)  
**BONETTI** (Italy)  
**BOZZAO** (Italy)  
**BRANDELIK** (Germany)  
**BRAYDA BRUNO** (Italy)  
**BROOK** (U.S.A.)  
**BUSCEMA** (Italy)  
**CALLI** (Turkey)  
**CHO** (U.S.A.)  
**CIANFONI** (Switzerland)  
**CICERO** (Italy)  
**CRISTAUDO** (Italy)  
**DE NEGRI** (Italy)  
**FIUMARA** (Italy)  
**FRANCAVIGLIA** (Italy)  
**GALVANO** (Italy)  
**GASPAROTTI** (Italy)  
**GEORGY** (U.S.A.)  
**GILLOUD** (Switzerland)  
**GIUFFRIDA** (Italy)  
**GO** (U.S.A.)  
**GRASSO** (Italy)  
**GRILLEA** (Italy)  
**HIRSCH** (U.S.A.)  
**IACOPINO** (Italy)  
**IZZO** (Italy)  
**KASTLER** (France)  
**KRAINIK** (France)

Zsolt	<b>KULCSAR</b>	(Switzerland)
Roberto	<b>LAGALLA</b>	(Italy)
Marcello	<b>LONGO</b>	(Italy)
Luigi	<b>MANFRE'</b>	(Italy)
Stefano	<b>MARCIA</b>	(Italy)
Salvatore	<b>MASALA</b>	(Italy)
Pier Paolo	<b>MENCHETTI</b>	(Italy)
Massimo	<b>MIDIRI</b>	(Italy)
Mario	<b>MUTO</b>	(Italy)
Maria	<b>PAPPALARDO</b>	(Italy)
Sean	<b>PAKBAZ</b>	(U.S.A.)
Gianni	<b>PELLICANO'</b>	(Italy)
Letterio	<b>POLITI</b>	(Italy)
Carmelo	<b>PRIVITERA</b>	(Italy)
Carlo Cosimo	<b>QUATTROCCHI</b>	(Italy)
Vincenzo	<b>RAVO</b>	(Italy)
Andrea	<b>ROSSI</b>	(Italy)
Alejandro	<b>ROVIRA CANELLA</b>	(Spain)
Claudio	<b>SCHONAUER</b>	(Italy)
Pia	<b>SUNDGREN</b>	(Sweden)
Bengt	<b>STURESSON</b>	(Sweden)
Majda	<b>THURNHER</b>	(Austria)
Fausto	<b>VENTURA</b>	(Italy)
Pedro Luis Miguez Ferro	<b>VILELA</b>	(Portugal)
Tarek	<b>YOUSRY</b>	(England)
Birgit Ertl	<b>WAGNER</b>	(Germany)

## Gold sponsor



## Silver sponsor

TECHLAMED

AC.TA. SRL

D FINE / SIAD HEALTHCARE

STRYKER ITALIA SRL

THIEBAUD SURGICAL

MEDICAL CONCEPTS HEALTHCARE SRL

SIEMENS HEALTHCARE SRL

ACACIA SRL

AB MEDICA S.p.A.

ASPITALIA SRL

ECHOS ITALIA SRL

HD - HOSPITAL DEVICE

MEDTRONIC ITALIA S.p.A

ALFAMED SRL

SI BONE

A.B. PHARM SRL

CLINIFARM DI FAVARA G. & C. SAS

### How To Get To Catania

#### BY TRAIN

You can easily get to Catania by any Italian station.

We heartily recommend you to refer to Trenitalia online service on [www.trenitalia.it](http://www.trenitalia.it)

#### BY PLANE

You can also easily get to Catania by plane landing in "Vincenzo Bellini" Fontanarossa airport. We suggest you to have a look on the airport web site ([www.aeroporto.catania.it](http://www.aeroporto.catania.it)) to know real-time flights.

#### BY SEA

You can reach Catania by sea thanks to:

Naples -> Catania ship by Tirrenia ([www.tirrenia.it](http://www.tirrenia.it) - TTT Lines: [www.tttlines.it](http://www.tttlines.it))

Genova -> Palermo ship by Grandi Navi Veloci - Passeggeri, Mercè e Crociere ([www1.gnv.it](http://www1.gnv.it))  
and keep on by car on the A19 Palermo- Catania highway, until km 19.

#### BY CAR

For vehicles coming from Milan the best way is the A1 Naples-Milan highway, keep on Salerno - Reggio Calabria highway until the highway exit for Villa San Giovanni. Then board a ship to Sicily.

Messina- Catania: A18 highway, until km 18

Palermo- Catania: A19 highway, until km 195

We heartily suggest you to refer on the online service of Highway society ([www.autostrade.it](http://www.autostrade.it)) to be always updated on the highway situation.



**GET THE APP** myCatania

upload this app on: <http://www.mycatania.info/it>



# 8<sup>th</sup> ESNR DIAGNOSTIC AND INTERVENTIONAL SPINE COURSE **Sicily SPINE**



## ORGANIZATIVE SECRETARY

E&C<sub>srl</sub>  
eventi  congressi

Via Gabetto, 8 - 80026 Casoria (NA)  
Ph. 081 198.103.98 - Mob. 349.73.98.399  
segreteria@eventiecongressi.net

[www.eventiecongressi.net](http://www.eventiecongressi.net)

 E&C - Eventi & Congressi