



TUSCANY SPINE

2nd EDITION



Diagnostic
and Therapeutic
Neuroradiology



PRESIDENTS

Matteo **BELLINI**
Stefano **MARCIA**

27-28-29

OCTOBER 2025

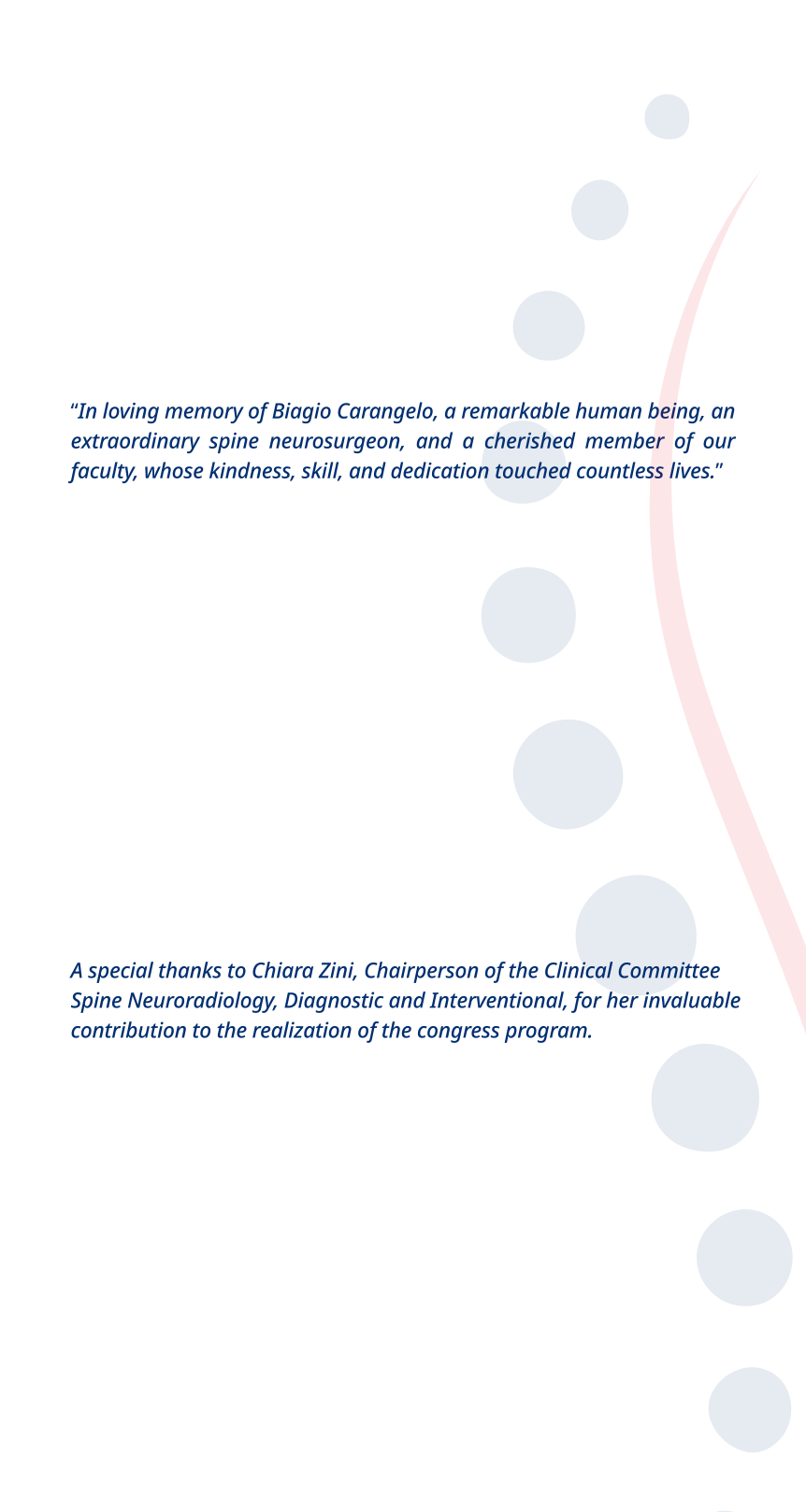
SIENA

Sala Italo Calvino
Palazzo Squarcialupi
Santa Maria della Scala

with the patroge of



Società Italiana di
Radiologia Medica
e Interventistica



"In loving memory of Biagio Carangelo, a remarkable human being, an extraordinary spine neurosurgeon, and a cherished member of our faculty, whose kindness, skill, and dedication touched countless lives."

A special thanks to Chiara Zini, Chairperson of the Clinical Committee Spine Neuroradiology, Diagnostic and Interventional, for her invaluable contribution to the realization of the congress program.

Dear Colleagues,

The second edition of "Tuscany Spine" follows the tradition we started with the first edition: diagnostics and minimally invasive procedures of the spine and peripheral nervous system focused on degenerative, traumatic, neoplastic, and infective pathology, topics covered by the "Top Players" of well-known level expertise.

Tuscany spine is an international meeting supported by prestigious scientific societies such as SIRM, ESNR and AINR.

The main topic of our congress will be "Spine & peripheral nerves: diagnostic and interventional progress". The Organizing Committee has planned this event for sharing different expertise, increasing our knowledge and endorsing multidisciplinary approach on the spine. Only exchanging information and comparing different points of view can reduce pitfalls and build collaboration.

This year, special attention will also be given to the growing role of artificial intelligence (AI) in medical imaging and intervention. From automated image analysis to predictive modeling and precision-guided therapies, AI is rapidly transforming the landscape of neuroradiology and spine care-helping clinicians make faster, more accurate, and more personalized decisions for their patients.

The conference as a live meeting will be able to fulfill both scientific and social expectations through face-to-face sessions and interactive discussions.

Chairpersons and speakers will introduce hot topics in diagnostic and interventional fields proceeding from PNS to muscle skeletal pathologies. We will be discussing innovations and controversial issues in all their aspects: spine problem caused by osteoporosis to degenerative deformities, destructive pathologies, traumas and tumors.

Scientific studies will be evaluated with the participation of high-level scientists from both Italy and different countries around the world.

Hope to meet you all at Palazzo Squarcialupi.

Motoe Pelin

Assuelli

SCIENTIFIC PROGRAM

Monday, October the 27th

08.00 Registration

Welcome Message from the Authorities
Welcome Message from the Presidents

SESSION 1

Degenerative spine disease: diagnostic session

Moderators: ***D. Gambacorta, G. Pellicanò, P. Petruzzi***

09.00 Biomechanics aspects on the degenerative spine disease
M. Muto

09.20 Advanced imaging of the degenerative pathology of the
disco-somatic unit: dynamic evaluation of the spine
A. Splendiani

09.40 Grading systems: disc degeneration, facet arthropathy &
foraminal stenosis. Simplifying for clinical use: Pfirrmann,
Weishaupt, Fujiwara and more ***A.M. Reis***

10.00 Central canal and neuroforaminal stenosis: imaging that
drives decisions ***D. Beall***

10.20 Discussion & case panel: what would you do? Multidisciplinary
real-case imaging rounds with audience interaction
A. Kelekis, M. Formisano

10.40 Discussion

11.00 **Coffee break**

SESSION 2

Peripheral nerve anatomy and pathology

Moderators: ***M. Muto, A.M. Reis, A. Splendiani***

11.20 Advanced evaluation of peripheral nerve of and muscle
C. Asteggiano

11.40 Ultrasound anatomy of brachia plexus and small peripheral
nerves ***C. Zini***

12.00 Normal & abnormal MR evaluation of nerve plexus and
peripheral nerves ***S. Gerevini***

12.20 Foot drop: clinical and electrophysiological evaluation
A. Mignarri

12.40 Discussion

13.00 **Lunch**

Monday, October the 27th

SESSION 3

Degenerative spine disease: radiological, clinical and interventional management

Moderators: **S. Bracco, A. Kelekis, R. Partescano**

- 14.00 Clinical neurodynamic approach in physiotherapy **M. Chini**
14.20 Percutaneous disc minimal invasive treatments: a review of advanced techniques and indications **E. Piane**
14.40 Screw fixation under ct guidance: when and how **N. Amoretti**
15.00 Image-Guided interventions in spinal stenosis **S. Marcia**
15.20 Spinal cord stimulators, FBSS and adjacent level diseases, imaging and intervention **A. Brook**
16:10 Discussion
16.30 **Coffee break**
16.50 Sacroiliac joint dysfunction: injections, RF & fusion. Multimodal strategy including percutaneous fusion: who, when, how **D.T. Nguyen**
17.10 Facet joint syndrome & peripheral nerve disease: the new frontier with US fusion & MR percutaneous guidance techniques **D. Dalili**
17.20 Percutaneous cryoneurolysis for pain palliation: current status and future trends **O. Moschovaki-Zeiger**
17.40 BVA: When? How? Why? **D. Beall**
18.00 Open & percutaneous surgery in the degenerative spine disease: indications & novel minimal invasive solutions **R. Maduri**
18.20 Discussion

Tuesday, October the 28th

SESSION 4

Vertebral traumatic and osteoporotic fractures

Moderators: **M. Citone, J.A. Hirsch, S. Masala**

- 08.30 Imaging of spinal cord trauma **G. Lazzarotti**
- 08.50 Classification systems for vertebral fractures: which to use when - practical use in treatment planning **C. Zini**
- 09.10 Osteoporotic vertebral fractures: risk stratification & medical management fracture cascade, fragility risk, mortality predictors, antiresorptive & anabolic therapy **C. Caffarelli**
- 09.30 Bone cement techniques: materials, delivery, safety. PMMA, calcium phosphate, cannula types, leakage risk, and cement viscosity **A. Kelekis**
- 09.50 Sacral fractures & augmentation: when and how. Imaging recognition, SI involvement, sacroplasty, and fixation options **L. Manfrè**
- 10.10 Discussion
- 10.30 **Coffee break**
- 10.50 Vertebroplasty and kyphoplasty: indications & level of evidence **F. Ardura**
- 11.10 Vertebral augmentation: comparison between different techniques **S. Masala**
- 11.30 Vertebral reconstruction in complex spinal compression fractures **A. Cianfoni**
- 11.50 Surgical management of vertebral trauma: open & minimally invasive approaches. Burst fractures, posterior fixation, expandable cages, short - vs long - segment stabilization **M. Teli**
- 12:10 Managing fragility fractures - IR, NCH, ortho roundtable. Shared cases, workflow decisions, and handling complications together **J. Jennings, E. Piane**
- 12.30 Discussion
- 13.00 **Lunch**

SESSION 5

AI: Innovations in spinal diagnostic and intervention

Moderators: **F. Ardura, A. Brook, S. Morgan**

- 14.00 AI in spine procedural safety: prediction, real-time monitoring & workflow optimization. Deep-learning risk models, intra-op alert systems, post-hoc QA analytics **A. Isaac**
- 14.15 Lessons from across the pond. A Neiman Fellow discusses how to get paid for AI **J.A. Hirsch**
- 14.30 Computer assisted virtual-augmented reality in spinal surgery **G. Maestretti**
- 14.45 Discussion

Wednesday, October the 29th

SESSION 6

08.30 Oral communications

09.30 Discussion

SESSION 7 Vertebral tumors

Moderators: **G. Maestretti, S. Marini, M.A. Mazzei**

09.40 Imaging of spine bone tumors **D. Albano**

09.55 Biopsy techniques in spine tumors: indications, methods & safety considerations CT-guided biopsy, open biopsy, risks, and how biopsy results guide management

O. Moschovaki-Zeiger

10.10 Role of percutaneous electrochemotherapy: a novel treatment of spinal metastases **A. Manca**

10.25 Minimally Invasive Interventions: vertebroplasty, kyphoplasty, and ablative techniques indications in metastatic tumors, technique overview, comparative benefits, and complications **J. Jennings**

10.40 A novel prospective in the treatment of the aggressive spinal hemangioma **A. Cianfoni**

10.55 The role of hematologist: indications and level of evidence **A. Gozzetti**

11.10 Discussion

11.20 **Coffee break**

SESSION 8 Infections

Moderators: **A. Cerase, S. Chibbaro, O. Moschovaki-Zeiger**

11.30 Imaging features of infectious vs inflammatory spondylitis: how to tell the difference. MRI and CT findings in pyogenic, tuberculous, and autoimmune spondylitis. Red flags and mimickers **M.A. Mazzei**

11.50 Image-Guided interventions in pyogenic spondylitis: biopsy, drainage, and more. Percutaneous biopsy, abscess drainage, epidural collections, and CT-/fluoro-guided treatment procedure **M. Bellini**

12.10 Spine infectious diseases: a call for multidisciplinary guidelines **D. Albano**

12.30 Discussion

SESSION 9 Complications

Moderators: **A. Cianfoni, A. Manca, A. Spinelli**

12.40 Imaging red flags: early detection of procedure-related complications hematoma, infection, cement embolism, nerve irritation, malpositioned hardware **S. Morgan**

13.00 Imaging of the postoperative spine **A. Cerase**

13.20 Final discussion and CME test

FACULTY

Domenico **Albano** (Milano, Italy)
Nicolas **Amoretti** (Nice, France)
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Margherita **Di Stefano** (Siena, Italy)
Marzio **Formisano** (Massa e Carrara, Italy)
Ernesto **Piane** (Siena, Italy)

GENERAL INFORMATION

Congress Venue

Italo Calvino Room
Complesso Museale Santa Maria della Scala
Piazza del Duomo 1, Siena

Registration Fee

The Registration Fee includes: congress kit, certificate of attendance, access to the scientific sessions, coffee break and working breakfast.

• AINR/SIRM/ESNR MEMBERS	€ 200,00 + IVA 22% (€ 244,00)
• NON MEMBERS	€ 400,00 + IVA 22% (€ 488,00)
• RESIDENT	€ 200,00 + IVA 22% (€ 244,00)

CME Credits

Provider E&C srl n. 6931

Event n. 459666 n. 20 CME credits for:

Physical Medicine and Rehabilitation
Oncology
Neurosurgery
Orthopedics and Traumatology
Anesthesia and Intensive Care
Neuroradiology
Diagnostic Radiology

Learning Objective: application in everyday practice of the principles and procedures of evidence-based practice.

Organizing Secretariat

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