



# Artificial Intelligence in Thoracic Oncology

From Problem to Solution

Trieste 25<sup>th</sup>-26<sup>th</sup> May 2026



## INTRODUCTION

*This is an interdisciplinary event dedicated to the integration of artificial intelligence in thoracic oncology. The meeting brings together experts from various fields to address key topics such as early diagnosis, AI-guided surgery, precision medicine, ethical implications, and the use of AI in clinical departments and patient follow-up. International speakers contribute global perspectives and cutting-edge expertise, highlighting the clinical relevance of adopting AI in thoracic oncology. It is a gathering of specialists from very different disciplines, aiming to explain how AI is transforming therapeutic and organizational approaches in thoracic cancer care, paving the way for a new paradigm.*

## 25th MAY – AFTERNOON

**12.30 - 13.15 REGISTRATION**

**13.15 - 13.30 WELCOME ADDRESS**

**13.30 - 15.50 SESSION 1**


### Early diagnosis and staging of lung cancer: from problem to solution with AI

**Chair:** M. Cortale (Trieste)

**Moderators:** P.L. Filosso (Modena) – M. Benvenuti (Brescia) - C. Spagno (Trieste) - F. Zanconati (Trieste)

Keynote lecture

**13.30-14.00 Advances in Peripheral Bronchoscopy: The New Era of Robotics, AI, and 3D Image Guidance**

Speaker: R. Casal – 

**14.00-14.20 AI-powered lung cancer screening: efficiency, limitations and clinical impact**

Speaker: E. Baratella (Trieste)

**14.20-14.40 From biopsy to operating room: how AI-guided CT planning informs surgical decisions**

Speaker: D. Tosi (Pietra Ligure, SV)

**14.40-15.00 AI-assisted ROSE (Rapid On-Site Evaluation): sample optimization and faster decision-making**

Speaker: J. Guarize (Milano)

**15.00-15.20 Early diagnosis, staging, and digital biomarkers in lung cancer: how AI is redefining the landscape**

Speaker: N. Fusco (Milano)

**15.20-15.50 Discussion:** P. Scanagatta (Lecco) – P. Ferrari (Cagliari) - J. Vannucci (Roma) - P. Geri (Trieste)

15.50 -16.20 COFFEE BREAK

## 16.20 - 18.20 SESSION 2

### Implementation, regulatory, and ethical aspects of AI in thoracic oncology

**Chair:** A. Terminella (Catania)

**Moderators:** S. Lovadina (Trieste) – G. Aprile (Udine)

Keynote lecture

16.20-16.50 **Real-world AI: clinical adoption experiences from major oncology centers**

Speaker: TBD – 🗣️

16.50-17.10 **Integrating AI in hospital workflows: challenges, models, and professional outlook**

Speaker: A. Palleschi (Milano)

17.10-17.30 **Cost-effectiveness of AI in oncology: sustainable models**

Speaker: M. Meregaglia (Milano)

17.30-17.50 **Ethics of AI in medicine: between alien intelligence and human responsibility**

Speaker: R. Crisci (L'Aquila)

17.50-18.20 **Discussion:** M. Infante (Verona) – C. Lopez (Lecce) – E. Arbore (Trieste)

## 26th MAY – MORNING

## 08.30 - 10.50 SESSION 3

### Lucent Study: how AI contributes to therapeutic and surgical planning

**Chair:** F. Venuta (Roma)

**Moderators:** A. Droghetti (Candiolo) – A. Gonfiotti (Florence)

Keynote lecture

08.30-08.55 **From Pixels to Scalpel: Integrating AI Across Thoracic Surgery and Pathology**

Speaker: S. Aguir – N. Piton 🗣️

Keynote lecture

08.55-09.20 **From Anatomy to Action: AI-Assisted Decision Pathways in Thoracic Oncology Surgery**

Speaker: A. Obeso – 🗣️

09.20-09.40 **AI and personalized surgical treatment: predictive analysis on real-world data**

Speaker: L. Bertolaccini (Milan)

09.40-10.00 **Thoracic surgery and AI: towards real-time intraoperative analysis**

Speaker: A. Bertani (Palermo)

10.00-10.20 **Air leaks and early discharge: can AI support postoperative decisions?**

Speaker: F. Zaraca (Bolzano)

10.20-10.50 **Discussion:** G.L. Pariscenti (Milan) – A. Denegri (Cuneo) – F. Guerrera (Torino)

10.50-11.20 COFFEE BREAK

## 11.20 - 13.50 SESSION 4

### Precision medicine and personalized AI-supported follow-up

**Chair:** M. Nosotti (Milan)

**Moderators:** F. Puglisi (Aviano-Udine) – V. Gregorc (Candiolo) - P. Ermacora (Gorizia) - M. Lucchi (Pisa)

**11.20-11.40 Therapie target nel NSCLC oncogene-addicted: AI per la selezione ottimale del paziente**

Speaker: A. Bearz (Aviano)

**11.40-12.00 NSCLC senza driver molecolari: AI e approcci agnostici personalizzati**

Speaker: F. Grossi (Genoa)

**12.00-12.20 Clinical efficacy data in tumors expressing RET, MET, KRAS, BRAF, ROS1, and NTRK**

Speaker: G. Pelizzari (Udine)

**12.20-12.40 Therapeutic options in NSCLC without targetable mutations: current opportunities**

Speaker: A. Del Conte (Cittadella-Camposampiero)

**12.40-13.00 Perioperative and neoadjuvant therapeutic strategies in NSCLC**

Speaker: M. Tiseo (Parma)

**13.00-13.20 AI-guided radiotherapy: dose personalization and response prediction**

Speaker: A. Magli (Trieste)

**13.20-13.50 Discussion:** F. Cortiula (Udine) – M. Macerelli (Udine)

## **13.50 -14.00 CLOSING SESSION – Synthesis Session & GET TOGETHER**

**Conclusions and future perspectives**

**Final remarks by session Chairs**

**26th MAY – AFTERNOON**

## **14.00 - 14.40 REGISTRATION**

### **NURSING SESSION**

## **14.40 - 16.40 AI and robotics in wards and operating rooms: what nurses expect**

**Chair:** A. Zuin (Udine)

**Moderators:** M. Grassi (Trieste) – G.P. Dolci (Ferrara)

**14.40-15.00 The use of Artificial Intelligence in the onboarding and training of nurses in Surgery**

Speaker: N. Viti (Trieste)

**15.00-15.20 VIBE Coding & Artificial Intelligence in Thoracic Surgery: the new language of the nursing team**

Speaker: S. Grisan (Trieste)

**15.20-15.40 The use of Artificial Intelligence in the monitoring and enhancement of nursing handovers**

Speaker: G. Rodella (Novara)

**15.40-16.00 Nursing ethics in the age of automation and AI: preserving the care relationship**

Speaker: L. Serafini (Trieste)

**16.00-16.20 Discussion:** F.L. Barra (Novara) - K. Scala (Trieste)

## **16.40 CLOSING REMARKS**

### **SCIENTIFIC COORDINATORS**

Maurizio Cortale, Director, Department of Thoracic Surgery, Trieste

Alessandra Guglielmi, Head of SC Oncology, Department of Oncology, Trieste

### **LOCAL SCIENTIFIC AND ORGANIZING COMMITTEE**

Enrico Arbore, Department of Thoracic Surgery, Trieste

Angela Dicorato, Department of Oncology, Trieste

Stefano Lovadina, Department of Thoracic Surgery, Trieste

Valentina Orlando, Department of Oncology, Trieste

## **OFFICIAL LANGUAGE**

Italian

## **CONGRESS VENUE**

Hotel Savoia

Riva del Mandracchio, Trieste

## **CME CREDITS**

The event will be accredited for the following Professions:

- Medical Surgeon\_Disciplines: Oncology, Thoracic Surgery, Pathological Anatomy
- Nurse

## **ORGANIZING SECRETARIAT SEGRETERIA ORGANIZZATIVA**

Meeting srl

Via Villalta, 32 – 33100 Udine

Tel. 0432 1790500

[lucent@meetingsrl.eu](mailto:lucent@meetingsrl.eu)

[www.meetingsrl.eu](http://www.meetingsrl.eu)