



Ospedale Niguarda

Sistema Socio Sanitario



Regione
Lombardia

ACADEMY IN ADVANCED THORACIC SURGERY

From thoracic oncology prevention
to minimally invasive and robotic
surgery

**THEORETICAL-PRACTICAL COURSE WITH
LIVE SURGERY AND TECHNOLOGICAL
INTEGRATION**



SCIENTIFIC DIRECTOR

Gianluca Pariscenti, MD

Director of Thoracic Surgery – Niguarda



DATES

October 26 – 28, 2026



VENUE

ASST Grande Ospedale Metropolitano Niguarda
Milan, Italy



FORMAT

Theoretical-practical with live surgery,
interactive sessions and clinical case discussions



**INNOVATION
TECHNOLOGY
TRAINING
PREVENTION**



ORGANIZED BY



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From Thoracic Oncology Prevention to Minimally Invasive and Robotic Surgery

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Project Overview

Thoracic surgery is today one of the most advanced and rapidly evolving fields in specialist medicine. The introduction of minimally invasive techniques, the expansion of robotic surgery, and the integration of increasingly sophisticated technologies have profoundly transformed the management of pulmonary and mediastinal diseases.

Within this evolving landscape, there is a growing need to develop structured educational pathways capable of transferring practical, up-to-date expertise aligned with technological innovation and current clinical demands.

This project proposes the development of an **Advanced Academy in Thoracic Surgery** at Niguarda Hospital in Milan, with the objective of establishing a comprehensive and modern educational model integrating prevention, innovation, and clinical practice.

The initiative aims to connect, in an organic and coherent way, the different stages of the healthcare pathway: from prevention to diagnosis, from patient selection to surgical technique, through to the appropriate and informed use of advanced technologies.

Rationale and Focus on Prevention

One of the core pillars of the Academy will be **thoracic oncology prevention**, now recognized as a key driver in reducing mortality related to lung cancer.

The course will address, in a structured manner, the principal components of prevention, including:

- **Screening programs**

- **Early diagnosis strategies**
- **Risk stratification models**
- **The role of health education and territorial prevention programs**

Special emphasis will be placed on strategies developed by **Regione Lombardia**, with focus on organizational models and integrated pathways connecting hospital-based and community care.

The program will also include discussion of **international models**, with particular attention to Asian and Chinese experiences, characterized by a high degree of integration between public healthcare, technology, and large-scale prevention programs.

This comparison will provide an important opportunity to reflect on the evolution of healthcare systems and on the potential application of innovative models within the Italian context.

Course Objectives

The overarching goal of the Academy is to provide participants with advanced training in modern thoracic surgery, integrating clinical expertise, surgical technique, and technological innovation.

Specific objectives include:

- **Enhancing competencies in pulmonary resections**
- **Developing intraoperative decision-making skills**
- **Deepening expertise in minimally invasive and robotic approaches**
- **Understanding the impact of technology on surgical outcomes**

The course is also designed to promote a multidisciplinary approach and encourage dialogue among specialists, contributing to professional development and improvement in quality of care.

Technological Integration in the Educational Pathway

The Academy includes the integration of advanced surgical technologies into both the clinical and educational pathways, with a strong focus on practical application.

Within this framework, attention will be dedicated to next-generation powered stapling platforms and dedicated thoracic surgery devices, always presented within a clinical rather than purely demonstrative context.

Technologies Featured

Fulbright Lunar S Pro Platform

The **Fulbright Lunar S Pro** platform will be analyzed for its characteristics in:

- **Precision**
- **Ergonomics**
- **Adaptability to minimally invasive access**

Special attention will be devoted to its role in pulmonary resections and management of thoracic anatomical structures.

Thorapler

The **Thorapler** platform will be explored as a device specifically designed for thoracic surgery, with applications in:

- **Parenchymal management**
- **High-precision operative steps**
- **Advanced procedural support**

These technologies will be employed during live surgery sessions and discussed in relation to:

- **Procedural safety**
- **Quality of surgical performance**
- **Reproducibility of techniques**

Structure of the Educational Program

The Academy will be structured over **two and a half days**, following a progressive model designed to integrate theory, observation, and practical application.

Day One (Half Day)

The opening session will focus on:

- **Prevention**
- **Healthcare system context**
- **Presentation of the center**

The second part of Day One will focus on:

- **Evolution of thoracic surgery**
- **Technological integration**
- **Clinical innovation**

Days Two and Three

The following two days will be largely dedicated to:

- **Live surgery**
- **Clinical case discussion**
- **Analysis of operative techniques**

A limited number of participants will ensure a high level of interaction and educational quality.

Integration with the Simulation and Training Center – Niguarda

The educational pathway may be further enhanced through integration with the **Advanced International Medical Simulation Center (AIMS)** at Niguarda Hospital, dedicated to advanced medical simulation.

The center represents a highly specialized environment designed for practical training and simulation of complex clinical scenarios.

Its facilities support:

- **Wet lab activities**
- **Dry lab training**
- **Minimally invasive technique simulation**
- **Robotic surgery training**

Use of this environment would further elevate the educational level of the Academy, aligning it with international reference models comparable to leading European advanced training centers, while maintaining accessibility and strong integration with hospital clinical practice.

Faculty

Scientific Director

Gianluca Pariscenti, MD

Director of Thoracic Surgery – Niguarda

The faculty will include the Thoracic Surgery team at Niguarda, with potential participation from:

- **Experts in minimally invasive surgery**
- **Robotic surgery specialists**
- **Anesthesiologists**

- **Dedicated perioperative nursing staff**

Operational Program

Day 1 – Prevention and Clinical Framework

14:00 – 14:30

Welcome and presentation of the center

Gianluca Pariscenti, MD

14:30 – 15:15

Thoracic oncology prevention

15:15 – 16:00

The role of Regione Lombardia

16:00 – 16:30

International models: Asian and Chinese experience

16:30 – 16:45

Coffee Break

16:45 – 17:30

Modern thoracic surgery: Open, VATS and robotic surgery (EDGE)

17:30 – 18:15

Mechanical stapling technologies

18:15 – 18:45

Focus session on Fulbright Lunar S Pro and Thorapler

Day 2 – Live Surgery

08:30 – 09:00

Clinical case presentation

09:00 – 12:30

Live Surgery

During the procedure, the following aspects will be analyzed:

- **Surgical strategy**
- **Intraoperative management**
- **Use of advanced technologies**
- **Application of Fulbright Lunar S Pro and Thorapler**

- **Complication prevention**

12:30 – 13:30

Lunch

13:30 – 15:00

Procedure debriefing

15:00 – 16:30

Complications and postoperative management

Day 3 – Advanced Live Surgery and Conclusions

08:30 – 09:00

Introduction

09:00 – 12:30

Advanced Live Surgery

Focus on:

- **Complex resections**
- **Technology integration**
- **Optimization of surgical performance**

12:30 – 13:30

Final Discussion

13:30

Closing Remarks

Strategic Value of the Project

The Academy represents an initiative of high strategic value, capable of integrating prevention, technological innovation, and hands-on training.

Its implementation at Niguarda Hospital, under the scientific direction of **Dr. Gianluca Pariscenti**, provides scientific strength and institutional relevance, contributing to the development of an advanced and replicable educational model.

The program is designed not only as a training course, but as a platform for generating clinical culture, innovation transfer, and long-term professional networking.

Conclusions

This project proposes a modern, concrete and practice-oriented educational pathway, capable of combining surgical quality, innovation and effective transfer of expertise.

The integration of technologies—including **Fulbright Lunar S Pro** and **Thorapler**—takes place in a rigorously clinical setting, contributing to improvements in safety and effectiveness of thoracic surgical procedures.

The Academy aims to become a reference model for advanced thoracic surgery education, where prevention, innovation and clinical excellence converge into a single high-value training experience.

Proposed English Title Options (for international use)

1. **Academy in Advanced Thoracic Surgery (*recommended*)**
2. **Advanced Thoracic Surgery International Academy**
3. **Niguarda Academy for Advanced Thoracic Surgery and Innovation**
4. **International Masterclass in Advanced Thoracic Surgery**