



San Luigi Gonzaga Hospital, Orbassano, Turin, Italy

Candiolo Cancer Institute - IRCCS, Candiolo, Turin, Italy

Department of Oncology - University of Turin, Orbassano, Turin, Italy



Chairmen of the Meeting:

Francesco Porpiglia - Department of Urology, San Luigi Gonzaga Hospital,
School of Medicine University of Turin, Orbassano, Italy



12th INTERNATIONAL TECHNO-UROLOGY MEETING (TUM) IV GENERATION OF 3D VIRTUAL MODELS: TOWARDS BIOLOGICAL DIGITAL TWINS AND THE SURGICAL PLANNING INTO THE URO-VERSE

29th February - 1st March 2024

**Aula Convegni S. Luigi Gonzaga Hospital
Orbassano, Turin, Italy**



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INTRODUCTION

Dear Friends,

We are delighted to announce the 12th edition of TUM, scheduled for February 29th and March 1st 2024.

Over the past years, we have been diligently working on enhancing and refining technologies for laparoscopic and robotic urologic surgery.

Our journey has taken us from 3D-guided surgeries to the adoption of 4K vision and the implementation of highly advanced broadcasting systems, all designed to offer participants the most immersive experience possible. From the very first editions of our meeting, our goal has been to provide an enriched surgical environment.

Our exploration continued as we delved into the study of organ-specific 3D virtual models derived from standard imaging. This led us into the realms of augmented reality and mixed reality surgery, with the primary objective of improving surgical planning and intraoperative guidance. We aimed to maximize surgeon awareness during procedures, taking advantage of the information provided by virtual models of real anatomy.

Our initial forays into the augmented reality surgery were semi-automatic, but we soon transitioned to augmented reality platforms powered by artificial intelligence, with subsequent automatic overlapping of the 3D augmented reality images.

Taking our commitment further, last year we created an immersive platform for a virtual reality experience, in the Metaverse.

The surgeons had the possibility to navigate the 3D virtual models of the patients in a virtual environment, sharing the surgical planning with the moderators and the delegates even if located in different sites.

In this TUM24 edition, we will bring the delegates, moderators and surgeons into the Uro-Verse, that it is more than only a virtual platform. Uro-Verse is a testament to the dynamic synergy between technology and surgery, and it is set to redefine the landscape of urology for years to come. In Uro-Verse, the boundaries of physical geography dissolve, and this virtual realm facilitates collaborative learning, discussions, and surgical innovations.

Another novelty will be represented by the presentation of our fourth generation of the 3D virtual models.

3D BioDigital Virtual Models of the patients' anatomy will be a Digital Twin of the organs, and will be showed into the Uro-Verse environment, with an unprecedented level of precision and customization that has the potential to further improve the realism and the accuracy of immersive surgical planning.

I am confident that this special edition of TUM will be a resounding success, with a multitude of innovative surgical technologies to be presented, and a distinguished faculty of surgeons joining us from all corners of the world.

We hope that our ambitious program will be enjoyed by all attendees, and we warmly welcome you to Turin for this 12th edition of TUM!

Kind regards.



A handwritten signature in black ink, appearing to read 'F. Porpiglia'.

Francesco Porpiglia



DIVISION OF UROLOGY - DEPARTMENT OF ONCOLOGY UNIVERSITY OF TURIN

The Department of Oncology at University of Turin, is composed by professionals, from preclinical to translational research and clinic assistance for oncological diseases. It is sited in San Luigi Hospital and IRCC Candiolo Institute.

The Urology team, that takes part into the Department of Oncology, manages all uro-oncological and all others genito-urinary diseases. The most recent and modern technologies are available for diagnosis and treatment of such of them.

Robotic and laparoscopic surgery have been developed in the last years, being San Luigi Hospital's Urology Division a pioneer Centre for many techniques, especially in the setting of translational surgery.

Together with the clinical activity, also the teaching activity has a primary role, being our Department the Center for the Urology Residency Program.

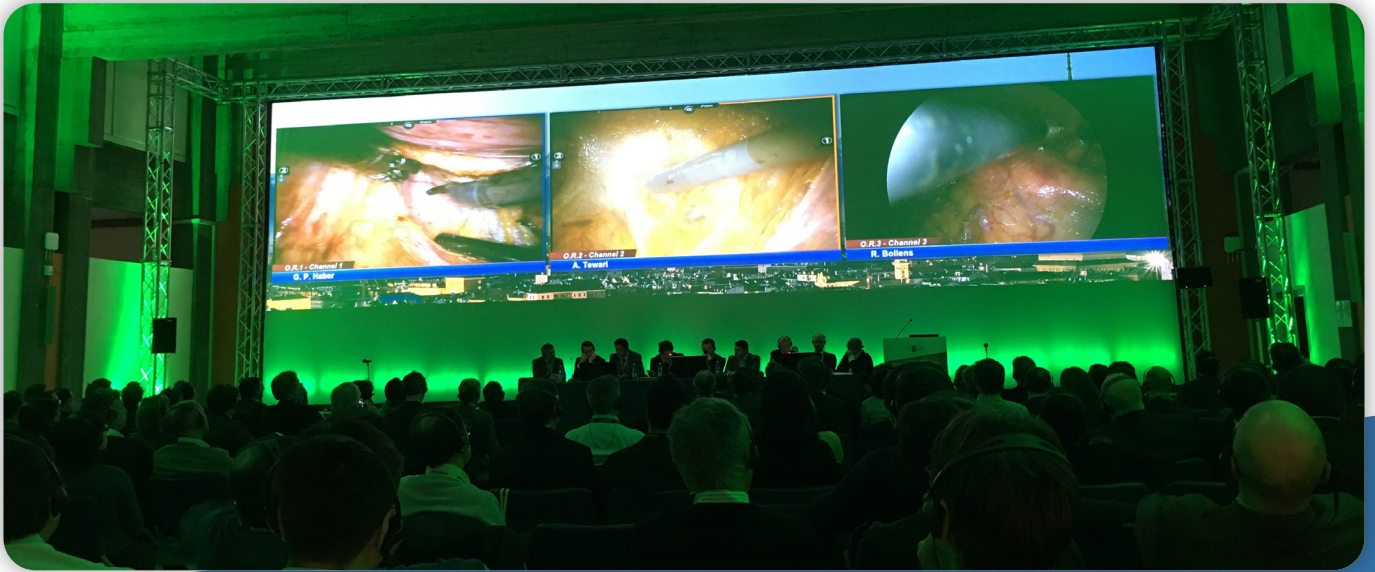
Our Staff is continuously involved and invited to attend the most prestigious International and National Meetings.

Our intensive scientific and research activity is widely recognized as demonstrated by the publications in the most famous international peer-reviewed journals.



CONGRESS VENUE

Aula Convegni S. Luigi Gonzaga Hospital



HONORARY CONGRESS PRESIDENT



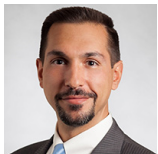
Dario Fontana
Professor of Urology
Turin, Italy



Roberto Mario Scarpa
Professor of Urology
Campus Biomedico
University Hospital
Rome, Italy



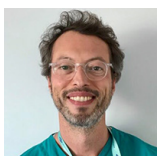
INVITED SURGEONS



Ronney Abaza
Central Ohio Urology Group
LLC, USA



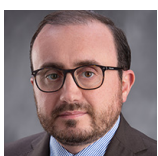
Ravi Barod
Consultant Urological Surgeon and
Clinical Lead at The Specialist
Centre for Kidney Cancer at The
Royal Free Hospital



Alessandro Antonelli
Chairman, Urology Department,
Azienda Ospedaliera Universitaria
Integrata, University of Verona,
Verona, Italy"



Alberto Breda
Chief of the Uro-Oncology Division
and Director of the Kidney Transplant
Unit Fundació Puigvert
Barcelona, Spain



Riccardo Autorino
Professor of Urology
Director of Surgical Innovation
Rush University Medical Center
Chicago, IL, USA



Simone Crivellaro
Assistant Professor in Minimally Invasive
Urology, Director of Urology Robotic
Training, University of Illinois,
Chicago, USA



INVITED SURGEONS



Ruben De Groot
Assistant professor of Urology
at KU Leuven, Belgium



Riccardo Schiavina
Department of Urology at
Sant'Orsola Malpighi Hospital
University of Bologna, Italy



Antonio Galfano
Department of Urology
Niguarda Hospital
Milan, Italy



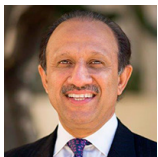
Carlo Terrone
Chief Department of Urology
San Martino Hospital
Genova, Italy



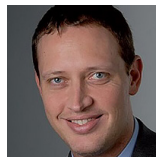
Ahmed Ghazi
Brady Urological Institute
Johns Hopkins University
Baltimore, USA



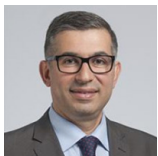
Ashutosh Tewari
Professor of Urology
The Mount Sinai Hospital
New York, USA



Inderbir Gill
Chair and Distinguished Professor of
Urology, Shirley and Donald Skinner
Chair in Urologic Cancer Surgery,
Executive Director, USC Institute of
Urology, Los Angeles



Alessandro Volpe
Urology Unit, University of
Piemonte Orientale
Novara, Italy



Jihad H. Kaouk
Director, Center for Robotic and
Image Guided Surgery Cleveland
Clinic, Cleveland, USA



Bo Yang
Director Kidney cancer program
Department of Urology
Changhai Hospital
Shanghai, China



Evangelos Liatsikos
Professor of Urology and Head of
the Endourology and Laparoscopic
Unit at the University of Patras
Patras, Greece



Jochen Walz
Associate Professor in Urology and
Head of the Department of Urology,
Institut Paoli-Calmettes Cancer Cen-
tre, Marseille, France



Maria Carmen Mir
Imed Valencia, Spain



Linhui Wang
Professor of Urology
Shanghai Changzheng Hospital
China



Veronique Phè
Professor of Urology at Sorbonne
University, Paris, France



Peter Wiklund
Professor of Urology Department
of Urology Karolinska University
Hospital
Stockholm, Sweden



Francesco Porpiglia
Professor and Chairman Department
of Urology S. Luigi Hospital, Orbassano
University of Turin
Turin, Italy




INVITED SPEAKERS & MODERATORS

Simone Albisinni

UOSD Urology
Department of Surgical Sciences
University of Rome Tor Vergata
Rome, Italy 


Daniele Amparore

Department of Urology San Luigi
Gonzaga Hospital, School of
Medicine, University of Turin
Orbassano, Italy 

Riccardo Bertolo

Urology Department,
Azienda Ospedaliera Universitaria
Integrata, University of Verona,
Verona, Italy" 

Mahendra Bhandari

Senior Bio-scientist and Director of
Robotic Surgery Research & Education
at the Vattikuti Urology Institute
(VUI), Detroit, USA 


Nicolò Maria Buffi

Department of Urology,
Humanitas Research Hospital,
Rozzano, Milan, Italy 

Riccardo Campi

Department of Urology
Careggi University Hospital
Florence, Italy 


Giuseppe Carrieri

Department of Urology
Ospedali Riuniti, University
Medical School, Foggia, Italy 


Antonio Celia

Head of Department of Urology
San Bassiano Hospital
Bassano del Grappa (VI), Italy 

Fabrizio Dal Moro

Department of Urology
University of Padova, Italy 

Francesco Del Giudice

Department of Maternal-Infant and
Urologic Sciences, Sapienza University
of Rome Policlinico Umberto I Hospital
Rome, Italy 

Paolo Dell'Oglio

Department of Urology
Niguarda Hospital, Milan, Italy 


Cosimo De Nunzio

Department of Urology
Sant'Andrea Hospital
Rome, Italy 

Elisa De Lorenzis

Department of Urology,
Foundation IRCCS Cà Granda
Ospedale Maggiore Policlinico,
Milan, Italy 


Marco De Sio

Department of Urology
University of Naples, Italy 


Michele Di Dio

Department of Urology
SS. Annunziata Hospital
Cosenza, Italy 


Francesco Esperto

Campus Biomedico
University Hospital
Rome, Italy 

Vincenzo Ficarra

Department of Urology
University of Messina
Messina, Italy 

Cristian Fiori

Department of Urology
San Luigi Gonzaga Hospital
School of Medicine, University of Turin
Orbassano, Italy 

INVITED SPEAKERS & MODERATORS

Andrea Gallioli

Department of Urology,
Puigvert Foundation,
Barcelona, Spain



Abhay Rane

Clinical Lead For Urology Surrey
And Sussex Nhs Trust
Redhill, UK



Ali Serdar Gozen

Slk Kliniken Urology
Department Heidelberg
University Heilbronn, Germany



Bernardo Rocco

Department of Urology
ASST Santi Paolo e Carlo
Milan, Italy



Michele Marchioni

Department of Urology
University G. D'Annunzio
Chieti Pescara, Italy



Luigi Schips

Department of Urology
Vasto and Lanciano Hospital
Chieti, Italy



Andrea Mari

Department of Urology
AOU Careggi Hospital
Florence, Italy



Alessandro Sciarra

Department of Urology
Policlinico Umberto 1 Hospital
Rome, Italy



Salvatore Micali

Professor of Urology
University of Modena and
Reggio Emilia, Italy



Silvia Secco

Department of Urology
Hospital Niguarda
Milan, Italy



Marco Paciotti

Department of Urology,
Humanitas Research Hospital,
Rozzano, Milan, Italy



Nazareno R. Suardi

Associate Professor of Urology,
University of Brescia, Italy



Vito Pansadoro

Laparoscopy Center
Vincenzo Pansadoro Foundation
Rome, Italy



Sisto Perdonà

Department of Oncologic Urologic
Surgery At The I.R.C.C.S.
"Fondazione G. Pascale"
Naples, Italy
























Stefano Puliatti

Department of Urology
University of Modena and Reggio Emilia
Reggio Emilia, Italy


























PROGRAM

• February 29th 2024 •

| | SCREEN #1 | SCREEN #2 |
|-------------------|--|--|
| 8.00 - 8.30 | Welcome and Opening | |
| Moderators | Nicolò Buffi Andrea Gallioli | Riccardo Bertolo Bernardo Rocco |
| 8.30 - 10.00 | Digital twin assisted planning for NS-RARP Carlo Terrone   | Digital twin assisted planning for LAP 3D guided Partial Nephrectomy Maria Carmen Mir   |
| Moderators | Francesco Del Giudice Ali Sendar Gozen | Giuseppe Carrieri Michele Marchioni |
| 10.00 - 11.30 | Tele-Cognitive guided for RN in locally advanced tumor/after neoadjuvant treatment Bo Yang   | Digital twin assisted planning for RARP in locally advanced PCA Jochen Walz   |
| Moderators | Riccardo Campi Fabrizio Dal Moro | Francesco Esperto Vincenzo Ficarra |
| 11.30 - 13.00 | Digital twin assisted clamping strategy planning for RAPN Alberto Breda   | Digital twin assisted planning for robotic sacrocolpopexy Veronique Phè   |
| 13.00 - 14.00 | Lunch Break | |
| Moderators | Paolo Dell'Oglio Alberto Breda | Cosimo De Nunzio Marco Paciotti |
| 14.00 - 15.30 | Digital twin assisted surgical planning for minimal anatomical impact RAPN Francesco Porpiglia   | Single port retroperitoneal Robotic Partial Nephrectomy with IRIS technology Ahmed Ghazi   |
| Moderator | Simone Albisinni Nazareno R. Suardi | Andrea Gallioli Salvatore Micali |
| 15.30 - 17.00 | Digital twin assisted planning for Retius Sparing-RARP Antonio Galfano   | Digital twin assisted enucleative strategy planning for RAPN Ruben De Groote   |
| Moderators | Nicolò Buffi Cosimo De Nunzio | Cristian Fiori Bernardo Rocco |
| 17.00 - 18.30 | SP transvesical RARP (Semi Live) Jihad H. Kaouk   | Robotic bladder transplantation (Semi Live) Inderbir Gill   |
| | 3D models and extended reality for Robotic Urologic Surgery: first course on pig models Daniele Amparore, Riccardo Campi, Stefano Puliatti Mahendra Bhandari | |

PROGRAM

• March 1st 2024 •

| | SCREEN #1 | SCREEN #2 |
|----------------------|---|--|
| Moderators | Francesco Del Giudice Ali Gozen | Mahendra Bhandari Marco Paciotti |
| 8.30 - 10.00 | Digital twin assisted surgical planning for LAP Partial/Radical Nephrectomy Evangelos Liatsikos   | Digital twin assisted planning for Hood-RARP with & hydro-dissection Ashutosh Tewari   |
| Moderators | Riccardo Campi Luigi Schips | Riccardo Bertolo Mahendra Bhandari |
| 10.00 - 11.30 | Digital twin assisted planning for energy-free clipless total anatomical RARP Francesco Porpiglia   | Complex robotic surgery for locally advanced kidney cancer Wang Linhui  |
| Moderators | Andrea Mari Silvia Secco | Simone Albisinni Vito Pansadoro |
| 11.30 - 13.00 | Digital twin assisted clamping strategy planning for RAPN Riccardo Autorino   | Digital twin assisted planning for NS-RARP Peter Wiklund   |
| 13.00 - 14.00 | Lunch Break | |
| Moderators | Francesco Esperto Abhay Rane | Elisa De Lorenzis Marco De Sio |
| 14.00 - 15.30 | Digital twin assisted planning for retroperitoneal RAPN Ronney Abaza   | Digital twin assisted resection strategy planning for RAPN Riccardo Schiavina   |
| Moderator | Sisto Perdonà Abhay Rane | Antonio Celia Paolo Dell'Oglio |
| 15.30 - 17.00 | Digital twin assisted planning for robotic ureteral reimplantation Alessandro Antonelli   | Digital twin assisted surgical strategy planning for anterior RAPN Ravi Barod   |
| Moderators | Michele Di Dio Michele Marchioni | Stefano Puliatti Alessandro Sciarra |
| 17.00 - 18.30 | Digital twin assisted surgical strategy planning for RAPN Alessandro Volpe   | Single Port-RAPN Simone Crivellaro   |
| 18:30 - 19:00 | Lecture: Luts and chronic in BPH: an update | |
| | Michele Di Dio | |

SCIENTIFIC SECRETARIAT

Daniele Amparore

Department of Urology, San Luigi Gonzaga Hospital, School of Medicine, University of Turin, Orbassano, Italy

Riccardo Autorino

Professor of Urology, Director of Surgical Innovation, Rush University Medical Center Chicago, IL, USA

Alberto Breda

Chief of the Uro-Oncology Division and Director of the Kidney Transplant Unit Fundació Puigvert, Barcelona, Spain

Enrico Checcucci

Department of Urology Istituto di Candiolo IRCCS, Turin, Italy

Michele Di Dio

Department of Urology, SS. Annunziata Hospital, Cosenza, Italy

Cristian Fiori

Department of Urology, San Luigi Gonzaga Hospital, School of Medicine, University of Turin Orbassano, Italy

Alex Mottrie

Department of Urology Orsi Accademy and O.L.V. Clinic, Aalst, Belgium

Francesco Porpiglia

Professor and Chairman Department of Urology, San Luigi Gonzaga Hospital, School of Medicine, University of Turin, Orbassano, Italy

ORGANIZING COMMITTEE FOR LIVE SURGERY

Staff of the hosting Department of Urology San Luigi Gonzaga Hospital, School of Medicine, University of Turin, Orbassano, Italy

Paolo Alessio

Daniele Amparore

Giovanni Cattaneo

Enrico Checcucci

Marco Cossu

Sabrina De Cillis

Stefano De Luca

Michele Di Dio

Cristian Fiori

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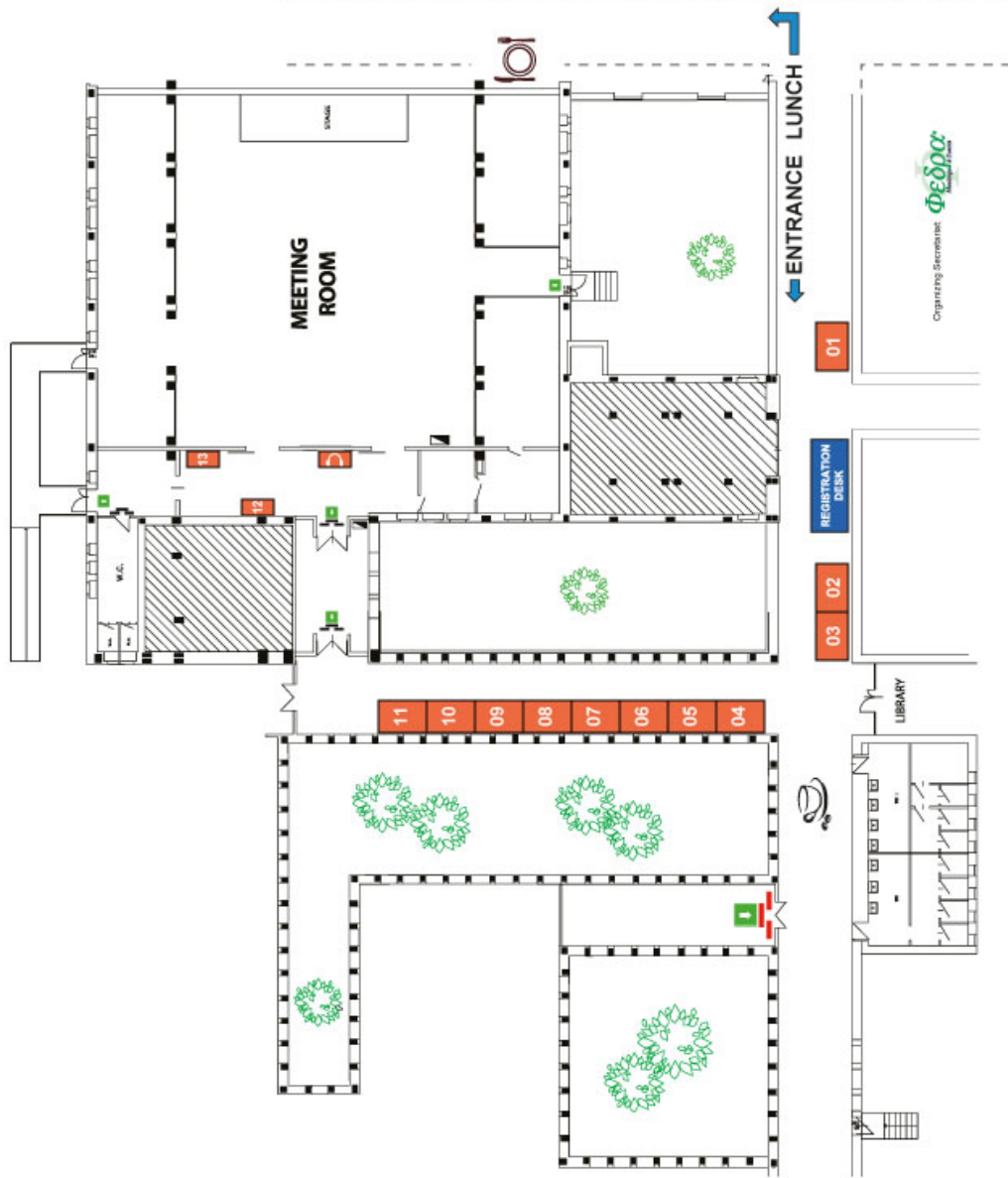
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Area espositiva
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CONGRESS VENUE

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Regione Gonzole, 10
10043 - Orbassano, Turin, Italy



MEETING PLANNER



FEDRA Congressi

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info@fedracongressi.com
www.fedracongressi.com

OFFICIAL LANGUAGE

The official language of the Congress is English.

REGISTRATION FEE

Delegates:

Between October 15th, 2023 and December 15th, 2023: €. 500,00

After December 15th, 2023: €. 600,00

Trainee/Residents:

Between October 15th, 2023 and December 15th, 2023: €. 200,00

After December 15th, 2023: €. 300,00

The registration fee includes scientific program, lunches, and coffee breaks during the event.

WEBSITE

Visit our website at:

www.technourologymeeting.com

ITALIAN ECM ACCREDITATION

The 12th INTERNATIONAL TECHNO-UROLOGY MEETING has been accredited by the Italian Ministry of Health.

The Italian Ministry of Health assigned n. 18 ECM Credits (2-Linee guida-protocolli-procedure).

The Congress has been accredited for the following specialties:

- Oncology
- Radiotherapy
- Urology
- Pathological anatomy
- Radiodiagnostics

In order to receive Italian credits participants must attend 90% of the event and pass the final test.

WEBSITE

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