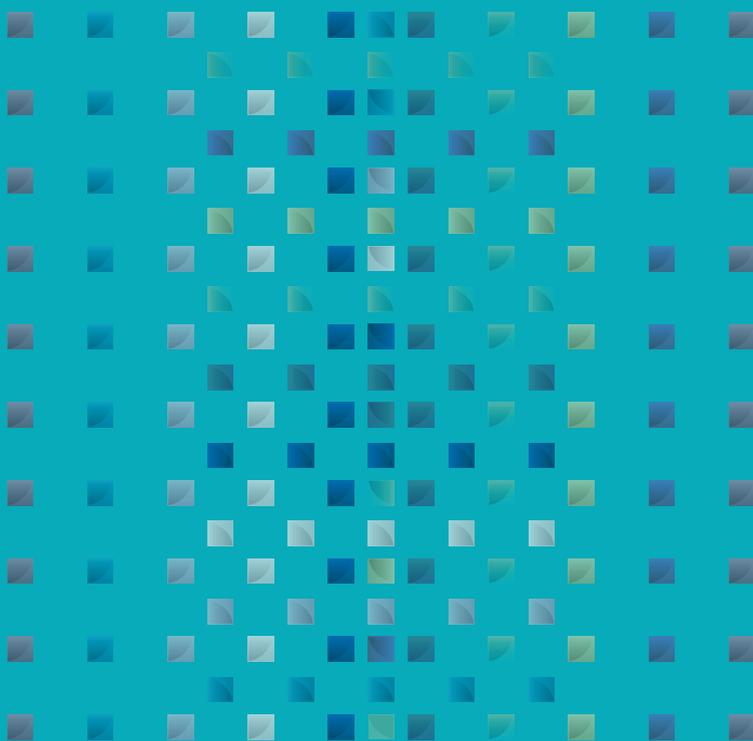


ISTITUTO AUXOLOGICO ITALIANO

# MASTER UROLOGY





## Master in robotic urology

### **Istituto Auxologico Italiano**

Private Foundation not for profit by Decreto Presidente Repubblica, 6 December 1963, number 1883

Registered with number 194, at the Legal Bodies Register care of Milano Prefecture

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**[www.auxologico.it](http://www.auxologico.it)**

Founded in 1958, Research Foundation since 1963. It is a research hospital, recognized as a "Scientific Institute for Hospitalisation and Care" (IRCCS) by the Italian Ministry of Health in 1972. Non-profit organisation for biomedical research and high specialization hospital treatment. Istituto Auxologico Italiano has three main research hospitals (two located in Milano and one in Piacavallo-Verbania). Such hospitals have globally 612 beds. Furthermore Auxologico has 7 outpatient clinics, all fully equipped with advanced platforms for diagnostics and imaging: X-ray, CT-scan, MRI, mammography, ultrasound.

### **Main activity**

Research, prevention, diagnosis, treatment, and rehabilitation of cardiovascular, neurological, endocrine, metabolic and immunological diseases. Surgery, minimally invasive surgery and robotic surgery. Genetics of cardiovascular, neurological and endocrine diseases. Prenatal and postnatal diagnosis of rare genetic diseases and chromosomal alterations.

### **Integration between scientific research and caring for the patient**

Today, the patient's care cannot be separated from the constant research on the causes of illnesses and the most effective methods of diagnosis and therapy. This is even more true the more the pathologies are complex and dependent on genetic, environmental, and behavioural factors. For more than 50 years, Istituto Auxologico Italiano has made studying the complexity of an illness its point of election and is now included in the small network of Biomedical Institutes (IRCCS) of excellence organized by the Ministry of Health - there are only 49 such Institutes in Italy.

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## Research areas

Istituto Auxologico Italiano is focused in research, prevention, treatment and rehabilitation of Endocrine Metabolic, Cardiovascular and Neurological Diseases. The approach is multidisciplinary and integrated, since the Institute can rely on contributions from basic and applied experimental research laboratories. There are 27 research laboratories with a strong expertise in genetics, molecular and cellular research and sophisticated biomedical equipment for prevention and diagnostics, as well as modern hospital facilities to treat the patient in the acute and rehabilitation phases.

- Cardiovascular diseases:  
Heart attack, Stroke, Disorder, Arrhythmias, Hypertension, Atherosclerosis, Peripheral arterial diseases.
- Neurological diseases:  
Amyotrophic Lateral Sclerosis, Parkinson, Alzheimer, Multiple Sclerosis, Vascular Dementia.
- Endocrine and metabolic diseases:  
Diabetes, Severe Obesity, Pituitary and Adrenal disorders, Diseases of the Thyroid, Osteoporosis, Growth Disorders, Anorexia, Bulimia.
- Autoimmune Diseases:  
Lupus, Rheumatoid Arthritis, Phospholipid Antibody syndromes, Systemic Sclerosis.
- Genetic Diseases:  
Mental Retardation, Down syndrome, Prader-Willi Syndrome, Cornelia de Lange syndrome, Genetic Cardiac arrhythmias.
- Ageing Diseases:  
Atherothrombotic, neurodegenerative, immunological, respiratory, urological, osteoarticular, diabetes and its complications, frailty syndrome in the elderly.
- Rehabilitation therapies  
in the neurological, cardiovascular, orthopaedic, nutritional and respiratory fields.

## Fondazione Monserrate

Monserrate is a non-profit Italian foundation recognized by the Italian Ministry of Foreign Affairs, working for the promotion of cultural exchanges at the highest level in Italy and all over the world.

Since 1994 Monserrate is active in Europe, America and Asia through its three offices: the headquarter in Milan (Italy) and two continental offices in Beijing (China) and Bogotá (Colombia).

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## Monserate in China

The main activities of Monserate in China are the exchange of the highest scientific and technological know-how with the Chinese Government and Universities, and the creation and delivery of high specialization courses. Thanks to these activities, Monserate has been developing the "Italian Excellence Program", that consists in:

- The creation and management of a network of excellent Italian and Chinese Universities and Research Foundations;
- High-specialization courses, summer schools, seminars and other activities to foster knowledge exchange;
- Consulting about the Italian Excellence (the highest level of academic and scientific opportunities);
- Internationalization Projects: cultural, linguistic and logistical preparation Chinese professionals/researchers/academics/students need before travelling to Italy.

### Master Description:

**In China:** introduction to the Italian Health System, the basic Italian medical and immigration law, Italian basic survival language, English improvement conversation, assistance to get VISA and to go to Italy.

**In Italy:** a six-week course aimed to improve the knowledge of the participants in the field of Urology. The goal of the international master in laparoscopic and robotic surgery in Urology, organized by Istituto Auxologico Italiano, is to provide all the theoretical and practical tuitions both to start minimally invasive surgery for naïve surgeons or to improve knowledge and expand the field of interventions for surgeons already experienced in minimally invasive surgery.

The participant will be assisted in every single step of the training by qualified representatives on the subject of the actual study. The programme here below will show all the subjects that will be scrutinized during the period. The Master will be scheduled across the six weeks, from Monday to Friday, the week end is free of duty. The participant will have the daily routine mostly organized as follow:

- > Mornings: Apprenticeship in operation theatre
- > Afternoons: classwork or Individual study and scientific activity

During this master of 6 weeks, the participant will be involved in the preparation of a paper to be edit on a scientific journal.

<b>Specific topic</b>	Laparoscopic and Robotic Surgery in Urology
<b>Rationale</b>	<p>Laparoscopic and robotic surgery is gaining widespread acceptance among the urological community. The most up-to-date guidelines of all the Scientific Associations consider the minimally invasive approach as the gold standard for the treatment of the vast majority of the urological diseases requiring surgical management.</p> <p>Since 1990, laparoscopic and more recently robotic surgery has become main stream as minimally invasive surgical alternatives for many urologic conditions including both benign and cancerous conditions. In most cases, laparoscopic and robotic surgery has resulted in:</p> <ul style="list-style-type: none"> <li>• Less pain and scarring</li> <li>• Less blood loss</li> <li>• Fewer blood transfusions</li> <li>• Less risk of infections</li> <li>• Shorter hospital stay</li> <li>• Faster return to normal activities</li> </ul> <p>Laparoscopic surgery allows a surgeon to perform complex procedures within the abdomen without having to place his hands directly into the body cavity. This is achieved by using miniaturized instruments placed through portals, called trocars, inserted through keyhole size incisions made in the abdomen. The abdominal cavity is inflated with carbon dioxide gas to provide a working space for the surgeon to operate in. Visualization of the internal anatomy is provided by a high definition, digital camera attached to a telescope lens inserted through one of the trocar sites. As the incision size tends to be smaller than for open surgery, postoperative pain is reduced in addition to blood loss and transfusions. To further improve the quality of the endoscopic vision, and thus of the surgical procedure itself, the last generation of laparoscopic systems offer a 3D high definition vision.</p> <p>More recently, robotic surgery, introduced into the field of urology in 2000 has gradually supplanted many of the laparoscopic procedures due to advancements in visualization, ergonomics and instrumentation. Robotic surgery using the da Vinci™ Surgical Robotic System provides distinct advantages over conventional laparoscopic surgery.</p> <p>First, improved optical technology provides surgeons with not only a high definition, 10-12 X magnified view but also more specifically a three dimensional depth perception of the internal anatomy as compared to the two dimensional view offered by laparoscopic surgery.</p>

	<p>Second instead of the rigid instruments used during laparoscopic surgery, advancements in multi-jointed robotic instruments allows the surgeon to operate with the same ergonomic freedom as using his hands and wrists thus providing greater range of motion of instrumentation.</p> <p>Third, motion scaling technology allows for reduction in tremor and highly precise surgical dissection during robotic surgery.</p>
<b>Target</b>	Medical Doctors: Urologists
<b>Location in Italy</b>	<p>Istituto Auxologico Italiano - IRCCS Unit of Urology Capitanio Hospital - Via Mercalli 28 - Milano ITALY</p> <p>Capitanio Hospital is a surgical and rehabilitation centre of Istituto Auxologico Italiano since 2011.</p> <p>The Hospital also provides diagnostic and therapeutic clinic and blood samples services for outpatients, through the National Health Service or privately.</p> <p>As a point of reference and of education in the mini-invasive surgery, the Hospital is equipped with modern operating theatres with most advanced technology for orthopaedic, ophthalmic, urological operations, recovery wards with high hospitality standards and a service of Pathological Anatomy with a particular interest in fast intra-operating diagnostics.</p> <p>The Rehabilitation neuro-motor ward, Headquarters of the University of Study of Milan, blends high-end specialized expertise with most modern technologies towards the diagnosis and the cure of orthopaedic and neurological problems.</p> <p>Capitanio Hospital, which obtained by the Ministry of Health the title of IRCCS (Istituto di Ricovero e Cura a Carattere Scientifico as known as Scientific Institute of Research, Hospitalization and Health Care in English) also hosts Clinical Research Activity.</p> <p>The Research Activity not only aims to the constant improvement of operating diagnostic and therapeutic solutions, but also embraces Neuroscience branches such as Neuro-Ophthalmology, unique centre on the Italian territory for its size and quality.</p>
<b>Logistics in Italy</b>	<p>Capitanio Hospital is situated in an inner city area of Milan with an easy access provided by public transportation.</p> <p>Therefore there is a wide variety of accommodation (hotel or apartment complex) to choose from tailored for each personal needs.</p> <p>We will be glad to give few advices.</p>

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**Chairman****Dr. Andrea Cestari**

## Biography

Dr. Andrea Cestari has always dedicated his training and professional development to minimally invasive laparoscopic techniques, during the initial period and subsequently robotic techniques. Among the milestones we can mention Dr. Cestari's direct involvement in these national and international "firsts":

- 1998/99 the first laparoscopic radical prostatectomy operations in Italy.
- 2000 the first laparoscopic renal cryoablation cancer operations in Europe.
- 2001 the first robotic radical prostatectomy operations in Italy.
- 2011 the first robotic pyeloplasty operations in the world with the new Single Site DaVinci robotic platform.
- 2017 the first cases in the world of totally preperitoneal laparoscopic bilateral Inguinal hernia repair with the new Single Site DaVinci robotic platform.

Dr. Cestari's personal experience and operating case histories in laparoscopic and robotic surgery in urology are among the largest and widely acknowledged in Europe, with invitations to participate as an operator in numerous live surgery sessions and as a speaker during international and national congress events, as well as having published numerous works in indexed scientific journals.

In addition to laparoscopic and robotic surgery Dr. Cestari has also completed the training course in endourological and traditional open surgery

National and international acknowledgements of Dr. Cestari's activities include:

- "Epicenter surgeon" for Intuitive and AB medica.
  - Tutor for European laparoscopy training for Storz.
  - Tutor for European cryoablation renal tumours training for Galil.
  - Urologist selected by ESUT-EAU (European Society of Urotechnologies) for international fellowship programmes for laparoscopic and robotic surgery.
  - A member of the ESUT-EAU scientific committee.
  - A member of the Board of Governors of the Italian Society of Endourology.
  - A member of the editorial committee of the European Urology and European Urology Today scientific journals.
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<b>Faculty</b>	<ul style="list-style-type: none"> <li>• Dr. Andrea Cestari, MD, Unit of Urology</li> <li>• Dr. Massimo Ghezzi, MD, Unit of Urology</li> <li>• Dr. Mattia Sangalli, MD Unit of Urology</li> <li>• Dr. Matteo Zanoni, MD, Unit of Urology</li> </ul> <p>Tutor</p> <ul style="list-style-type: none"> <li>• Dr. Fabio Fabbri, MD, Unit of Urology</li> <li>• Dr. Francesco Sozzi, MD, Unit of Urology</li> <li>• Dr. Irene Mittino, MD, Unit of Urology</li> </ul>
<b>Duration</b>	6 weeks, each week from Monday to Friday, each day 8 hours of study
<b>Official Language</b>	English
<b>Programme Week 1 In Italy</b>	<p>Introduction of aspects of the master and presentation of the tutors and operating theatre</p> <p>Surgical operation view</p> <p>Instruments acknowledge</p> <p>Training and Simulation</p> <p>Individual study activity</p>
<b>Programme Week 2 In Italy</b>	<p>Surgical operation view</p> <p>Anaesthetic related problems Laparoscopic and Robotic Surgery</p> <p>Training and Simulation</p> <p>Technology innovation in Laparoscopic and Robotic Surgery.</p> <p>Individual study activity</p>
<b>Programme Week 3 In Italy</b>	<p>Apprenticeship in operation theatre</p> <p>Prostate: Surgical, topographical and endoscopic anatomy</p> <p>Prostate: Diagnostic methodology, indications and surgical techniques</p> <p>Prostate: Laparoscopic and Robotic Surgery</p> <p>Prostate: Laparoscopic and Robotic Surgery and functional results</p> <p>Individual study activity</p>
<b>Programme Week 4 In Italy</b>	<p>Apprenticeship in operation theatre</p> <p>Kidney: Surgical, topographical and endoscopic anatomy, clinical overview</p> <p>Kidney: Diagnostic methodology, Indications and surgical techniques</p> <p>Kidney: Laparoscopic and Robotic Surgery, Preserving kidney issues and clamping techniques</p> <p>Adrenal gland: Surgical, topographical anatomy, Laparoscopic and Robotic Surgery</p> <p>Individual study activity</p>

<p><b>Programme Week 5 In Italy</b></p>	<p>Apprenticeship in operation theatre  Upper urinary tract: Laparoscopic and Robotic Surgery of GPU  Upper urinary tract: Laparoscopic and Robotic Surgery on wounds and repositioning of urethra  Bladder: Surgical, topographical and endoscopic anatomy, Clinical overview  Bladder: Indications and surgical techniques, Laparoscopic and Robotic Surgery  Individual study and first draft final paper presentation</p>
<p><b>Programme Week 6 In Italy</b></p>	<p>Apprenticeship in operation theatre  Miscellaneous: andrological - surgical diseases  Miscellaneous: Implementation in Urologic- gynaecological area  Miscellaneous: complications and troubleshooting  Individual study and final paper discussion</p>
<p><b>Programme in China</b></p>	<p><b>Lessons:</b> Fondazione Monserrate, in accordance with Istituto Auxologico Italiano, will provide the attendees with 12 lessons of one academic hour each one</p> <p><b>Time:</b> Two 90 minutes classes each per week (1 day a week from 2 pm to 5.30 pm) = 12 classes/6 weeks</p> <p><b>Place:</b> in the premises of AULA ITALIA HQ, Xi Da Wang Lu 1, Beijing</p> <p><b>Contents:</b></p> <ul style="list-style-type: none"> <li>• Italian National Health System</li> <li>• Basic Italian law on attention to patients, doctor responsibility and duties</li> <li>• Preliminary English language evaluation and English language improvement (conversation and comprehension on medical language - basic vocabulary)</li> <li>• Italy geography and living in Italy (basic Italian vocabulary: surviving in Italy)</li> </ul> <p><b>Moreover:</b></p> <ul style="list-style-type: none"> <li>• Assistance on Italian VISA application process</li> </ul>

<b>Price:</b>	<p>€ 6.300,00 (six thousand and three hundred/00 Euro) for each participant</p> <p>Including:</p> <ul style="list-style-type: none"> <li>• third party liability insurance</li> <li>• classes in Beijing</li> <li>• Daily lunch at Hospital canteen</li> </ul> <p>Excluding:</p> <ul style="list-style-type: none"> <li>• travel + VISA</li> <li>• Hotel and meals</li> <li>• any other board other than those above mentioned provided</li> <li>• health insurance</li> </ul>
<b>Date of the Master in Italy</b>	To be planned in the period from January to June 2018 and from September to November 2018
<b>Date of the Course in Beijing</b>	Two months before the beginning of the Master in Italy
<b>Number of Participants</b>	Minimum 2 - maximum 4 Doctors for each master edition
<b>Certification</b>	<p>At the end of the course in Italy, Istituto Auxologico Italiano - IRCCS, will give an attendance certificate of 240 hours course.</p> <p>This course is UEMS-EACCME® credited (The European Accreditation Council for Continuing Medical Education)</p> <p><a href="https://www.uems.eu/areas-of-expertise/cme-cpd">https://www.uems.eu/areas-of-expertise/cme-cpd</a></p>
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