

Objective:

Reproductive Medicine (RM) in Europe as well as Reproductive Endocrinology and Infertility (REI) in the USA are subspecialties formed within obstetrics and gynecology to address the breadth and depth of gynecologic and reproductive issues ranging from puberty through menopause, keeping in mind however safety and efficacy as they are critically important for successful clinical care. To this end, professional (clinical) and academic education, gained through medical specialty and subspecialty training, must be constantly updated to optimize patient outcomes.

RM specialists are consultants for complex gynecologic conditions such as the management of hormonal dysfunctions e.g. hypo/hyperthyroidism, hyperprolactinemia; chronic anovulation and metabolic syndromes such as polycystic ovarian disease, menopausal hormonal replacement therapy, as well as fibroids, endometriosis, and abnormal uterine bleeding. In addition to endocrinology and organic disease, RM training covers the complexity of human reproduction, including the various forms of assisted reproductive technologies (ARTs), fertility preservation, embryology, genetics, andrology, gamete micro-manipulation and microsurgical techniques as well as noninvasive, minimal surgeries.

The present course is a continuum of our educational mission aiming to further knowledge through lectures and debates by and among board-certified specialists in Obstetrics and Gynecology devoted to Reproductive Medicine.

Background Information:

The aging process, the long survival after battling cancer, endometriosis, adenomyosis, pelvic surgery, pelvic inflammatory disease, gender dysphoria and the environmental role are evolving conditions impacting fertility. It is time to explore reality, knowledge, evidence, and new research aspects towards understanding female and male infertility in general and fertility preservation options.

With these objectives in mind, we developed the 15th annual two-day course meeting, structured with lectures and debates about these topics along with seven days of practical and simulation training. These educational efforts are supported by the Humanitas Fertility Center facilities. This year's conference will **include 6 sessions with 18 presentations** (15 minutes each) and, as in the previous years, session chairs and discussants will support interactive debates. **4 Invited lectures** by national and international experts will be also presented. Due to possible limitations for the Covid 19 pandemic, **only a limited number of participants** will be allowed to be physically present. All the others, both speakers and participants, will be connected by a **special interactive platform**, implemented by our Institute, and successfully tested in the 2020, 2021 and 2022 conference editions.

Main topics

1. Female and Male knowledge on Fertility and Infertility.
2. Strategies to reduce female and male infertility.
3. Pathologies and medical treatment with an impact on fertility.
4. Surgeries with an impact on fertility.
5. Sperm and testicular tissue cryopreservation.
6. Oocytes and ovarian tissue cryopreservation.

Learning Program:

By attending the course, the participants will acquire:

- Evidence and research aspects of people perception of human fertility.
- Evidence and research aspects strategies to reduce female and male infertility.
- Evidence and research aspects of pathologies and medical treatment with an impact on fertility
- Environmental role in the process of infertility.
- Evidence and research add on in surgeries with an impact on fertility.
- Clinical and research aspects in sperm and testicular tissue cryopreservation
- Clinical and research aspects in oocytes and ovarian tissue cryopreservation.

Audience:

Physicians and other health care professionals working in reproductive and women health centers.

GENERAL INFORMATION

The course is divided into two parts:

FIRST PART: Friday, September 29th – Saturday, September 30th, 2023.

Venue: Via Manzoni 113, 20089 Rozzano (MI)

SECOND PART: One week of attendance at the Fertility Center of Humanitas Research Hospital. The weeks (assigned by the director) allow the participation of two people, under the guidance of a tutor, to the practical application of all medical-biological techniques related to Medically Assisted Procreation as well as structured access to the Humanitas Training Center.

REGISTRATION:

Participation of the 2-days including topics and debates is free of charge.

The participation fee for one week (five working days) is also free of charge.

Students, Ob-Gyn residents and RM fellows of the Humanitas University and University of Milan, School of Medicine (theoretical part) are all formally invited to participate.

People attending the course will be able to participate in the theory only or both the theory and practice. Registrations to theory + practice are limited to 20 participants. If registrations exceed 20, participants will be selected based on request date and curriculum.

CME:

The course is part of the legislation that regulates the CME. The course is accredited as a single theoretical course.

Accredited professional categories:

- Surgeon within the disciplines of obstetrics and gynecology or urology
- Biologist, biotechnologists, midwives, nurses.

The issuing of credits is subject to effective participation in the entire educational program and the completion of a learning assessment questionnaire once the course is completed.

The CME credits will be awarded to all those that:

- Belong to the listed professions.
- Pass the assessment test.

Under the auspice of:

HU HUMANITAS UNIVERSITY

SIGO SOCIETÀ ITALIANA DI GINECOLOGIA E OSTETRICIA

HUMANITAS FERTILITY CENTER

HUMANITAS FERTILITY CENTER

The 15th Humanitas Course in Reproductive Medicine

Infertility Prevention and Fertility Preservation

The Humanitas Fertility Center, continuing a historical scientific and educational tradition, is offering a two-day gathering – September 29th-30th, 2023, to provide clinical and research updates in reproduction as well as the opportunity to access the Fertility Center facilities for a training course.

29th 30th September 2023

ON SITE EVENT

Under the patronage of:

**Humanitas University
EBCOG/ESHRE Subspecialty in Reproductive Medicine
Società Italiana di Ostetricia e Ginecologia (SIGO)**

Patronage requested:

Società Italiana di Fertilità e Sterilità e Medicina della Riproduzione (Sifes e MR)

Scientific Organizer

Paolo Emanuele Levi-Setti

International Scientific Committee

Pasquale Patrizio, Dominique de Ziegler

Local Organizing Committee:

Alessandro Bulfoni, Andrea Busnelli, Federico Cirillo, Noemi Di Segni, Nicoletta Di Simone, Valentina Immediata, Massimo Romano, Camilla Ronchetti



Advanced program

Friday September 29th, 2023

08.30 Opening remarks and description of the conference
Pasquale Patrizio

09.00 Opening Lecture:
Present and future of infertility
Antonio Capalbo

1° session Female and Male knowledge about Fertility and Infertility.
Chairs: *Paola Anserini, Camilla Ronchetti*

09.30 Humanitas students and residents' perception of fertility
Federico Cirillo

09.45 Male fertility loss during the last 25 years
Ozgur Bulbul

10.00 Female and Male perception of fertility
Elena Vegni

10.15 Discussion
Discussants: *Gianluca Gennarelli, Filippo Ubaldi*

10.45 Coffee Break

2° session Strategies to reduce female and male infertility.
Chairs: *Andrea Borini, Valeria Savasi*

11.15 Endometriosis management to preserve fertility
Carlo Bulletti

11.30 Strategies to reduce male infertility
Herman Tournaye

11.45 First trimester strategies to preserve pregnancy
Martin Muller

12.00 Discussion
Discussants: *Nicoletta Di Simone, Pasquale Patrizio*

12.30 2nd Invited Lecture:
Update on Infertility from Recurrent Pregnancy Loss
Michael Paidas

13.00 Lunch

14.00 3rd invited Lecture:
Benign medical conditions and sparing Female Fertility
Tommaso Falcone

3° session Pathologies and medical treatments with an impact on fertility.
Chairs: *Nicoletta Di Simone, Paolo Emanuele Levi Setti*

14.30 Rheumatological Diseases and Fertility
Carlo Selmi

14.45 Multiple Sclerosis and Fertility
Laura Ghezzi

15.00 Colorectal pathologies and Fertility
Arianna Dal Buono

15.15 Discussion
Discussants: *Giuseppe D'Amato, Carlo Alviggi*

15.45 Coffee Break

4° session Surgeries with an impact on fertility.
Chairs: *Massimo Candiani, Maurizio Guido*

16.15 Myoma's surgery and fertility
Antonio Gargiulo

16.30 Surgical removal of pelvic endometriosis, adenomyosis and fertility
Tommaso Falcone

16.45 Large endometrioma's removal strategies
Nicola Pluchino

17.00 Endometriosis fertility preservation by egg freezing
Ana Cobo

17.15 Discussion
Discussants: *Paolo Emanuele Levi-Setti, Daniela Romualdi*

17.45 Closing of the first Conference Day

Saturday September 30th, 2023

5° session Sperm and testicular tissue cryopreservation
Chairs: *Mara Campitiello, Giulia Scaravelli*

09.00 Testicular sperm pregnancy outcome
Herman Tournaye

09.15 Fertility preservation in boys facing gonadotoxic cancer therapy
Marco Reschini

09.30 Sperm and testicular tissue vitrification
Amir Arav

09.45 Discussion
Discussants: *Luciano Negri, Alberto Vaiarelli*

10.15 Coffee Break

6° session Oocytes and ovarian tissue cryopreservation.
Chairs: *Massimo Romano, Pasquale Patrizio*

10.45 Cognitive, emotional, communicative, and motor development in children born from in vitro fertilization of cryopreserved oocytes. Data from the Humanitas fertility Center experience.
Miriam Comparini

11.00 Fertility preservation for oncological reasons: utilization rates and reasons for low usage.
V. Immediata

11.15 Reasons and results of elective oocyte cryopreservation.
A. Pellicer

11.30 Discussion
Discussants: *Elena Vegni, Federico Cirillo*

12.00 4th Invited Lecture:
Fertility Preservation for Transgender Individuals.
Pasquale Patrizio

12.30 Conclusions and ECM