

Objective:

The subspecialty of Reproductive Endocrinology and Infertility (REI) - Reproductive Medicine (RM) was 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) training and academic education, gained through medical specialty and subspecialty training, must be constantly updated to optimize patient outcomes.

REI specialists are consultants for complex gynecologic conditions such as the management of hormonal dysfunction 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 bleeding. In addition to endocrinology and organic disease, REI training covers the complexity of human reproduction, including the various forms of assisted reproductive technologies (ARTs), fertility preservation, embryology, genetics, andrology, gamete micromanipulation and microsurgical techniques as well as noninvasive, minimal surgeries. The present course is an essential 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. ART specialists (embryologists, technicians, and nurses) and experts at large tertiary-care centers supported by several European and American colleagues.

Background Information:

The process of international standardization of training requirements needs to be fulfilled to set minimal universal criteria to satisfy the breadth of knowledge, clinical training and certification processes required to effectively practice within the discipline. Improvement in the learning process through simulation in all the diverse clinical and biologic aspects of RM is one of our future goals along with furthering novel scientific innovations and new technologies that advance global reproductive health for all women.

With these objectives in mind, we developed an annual two-day course structured with lectures and debates on a variety of 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 the possible limitations due to the Covid 19 pandemic, **only a limited number of participants** will be allowed to be physically present. All the other both speakers and participants will be connected by **a special interactive platform**, implemented by our Institute, and successfully tested in the 2020 conference edition.

Main topics

1. KPIs in the management of infertile women with endometriosis
2. KPIs Induction protocols in normal, high, poor responders and for preimplantation testing.
3. Follicular development and trigger KPIs
4. Oocyte retrieval and embryo transfer KPIs
5. Sperm preparation and embryo culture KPIs
6. Embryo and oocyte vitrification and warming KPIs.

GENERAL INFORMATION

The event will be both onsite and online

Dates: Friday, October 1st – Saturday, October 2nd, 2021.

Venue: Humanitas University, Via Rita Levi Montalcini 4, Pieve Emanuele - Building B or

Online at: <https://my.humanitasedu.it>

REGISTRATION:

Participation of the 2-days including topics and debates is 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. Registrations are open online at: www.humanitasedu.it Green pass certification is required to enter the event and will be asked at the registration desk.

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.

Under the auspice of:

HU HUMANITAS UNIVERSITY

 **SIGO**
SOCIETA' ITALIANA
DI GINECOLOGIA E OSTETRICIA



HUMANITAS FERTILITY CENTER

HUMANITAS
FERTILITY CENTER

The 11th Humanitas Course in Reproductive Medicine

Key Performance Indexes (KPI's) in infertility's diagnosis and treatment.

The Humanitas Fertility Center, continuing a historical scientific and educational tradition, is offering a two-day gathering – October 1-2, 2021, to provide clinical and research updates in reproduction as well as the opportunity to access the Fertility Center facilities for a training course.

1st - 2nd October 2021

ON SITE and ONLINE EVENT

Under the auspice of:

Humanitas University
The Yale Fertility Center
EBCOG/ESHRE Subspecialty in Reproductive Medicine
Società Italiana di Ostetricia e Ginecologia (SIGO)
Società Italiana di Fertilità e Sterilità e Medicina della Riproduzione (Sifes e MR)

Scientific Organizers:

Paolo Emanuele Levi-Setti
Pasquale Patrizio

Local Committee:

Andrea Busnelli
Federico Cirillo
Valentina Immediata
Noemi Di Segni



PROGRAM

Friday OCTOBER 1st, 2021

08:00 Opening remarks and description of the conference
Paolo Emanuele Levi-Setti

08:15 Opening Lecture: Performance Indexes
Dominique De Ziegler

1° session – KPIs in the management of infertile women with endometriosis

Chairs: *Dominique De Ziegler, Massimo Candiani*

08:45 Advancements in endometriosis surgical techniques to preserve ovarian reserve
Nicola Pluchino

09:00 Novel therapeutic targets to improve IVF outcomes in endometriosis patients
Nuria Pellicer

09:15 Pregnancy health in women with endometriosis undergoing IVF
Andrea Busnelli

09:30 When and how could endometriosis surgery benefit fertility preservation?
Anis Feki

09:45 Discussion on the previous session's topics
Discussants: *Valeria Savasi, Edgardo Somigliana*

10:15 Coffee Break

10:45 1st invited lecture: Intracytoplasmic sperm injection versus conventional in-vitro fertilisation in couples with non-male factor infertility
Ben W Mol

2° session – Induction protocols KPIs: past, present and possible future

Chairs: *Andrea Borini, Roberto Palermo*

11:15 Baseline characteristics: are they still so important?
Mauro Cozzolino

11:30 KPIs in managing poor prognosis patients
Carlo Alviggi

11:45 KPIs in high responders
Alberto Revelli

12:00 Progestins for pituitary suppression during ovarian stimulation for ART
Martina Capuzzo

12:15 Discussion on the previous session's topics
Discussants: *Valentina Immediata, Paola Anserini*

13:00 Lunch Break

3° session – KPIs, outcome measures and prognostic factors

Chairs: *Filippo Ubaldi, Noemi Di Segni*

14:00 Oocyte elective cryopreservation KPIS
Nicole Noyes

14:15 Fertilization rate as a novel indicator for Cumulative Live Birth rate
Carlotta Zacà

14:30 Prognostic model for Familiar Cumulative Live Birth rate
Valentina Immediata

14:45 Discussion on the previous session's topics
Discussants: *Carlo Bulletti, Andrea Borini*

15:30 3rd invited Lecture: Limitations and benefits for PGT-A testing as an add-on IVF procedures
Glenn Schattman

16:00 Coffee Break

4° session – KPIs in oocyte retrieval and embryo transfer

Chairs: *Francesco Fusì, Paolo Emanuele Levi-Setti*

16:30 The Trajectory of Early Pregnancy Units
Roy Farquharson

16:45 Oocytes' retrieval rate: time to abandon follicle flushing
Camilla Ronchetti

17:00 ET as KPI I – how to set up values
Tatjana Motrenko Simic

17:15 Operators performing embryo transfer role
Federico Cirillo

17:30 Simulation in ART competence: an engineer's view
Fabio Carfagna

17:45 Discussion on the previous session's topics
Discussants: *Gianluca Gennarelli, Patrizia Sulpizio*

18:15 End of day 1

Saturday OCTOBER 2nd, 2021

5° session – Sperm preparation and embryo culture

Chairs: *Laura Rienzi*

09:00 Variables affecting long-term usage rate of sperm samples cryopreserved for fertility preservation in cancer patients
Marco Reschini

09:15 Culture Media KPIs
Lucia De Santis

09:30 One sperm protocol fit all?
Annalisa Navarra

09:45 Discussion on the previous session's topics
Discussant: *Elena Albani*

10:15 Coffee Break

6° session – Embryo and oocyte vitrification and warming KPIs

Chairs: *Annamaria Marconi, Alessandro Bulfoni*

10:45 The human factor in vitrification performance
Laura Rienzi

11:00 Developmentally incompetent preimplantation embryos (DIPE)
Daniilo Cimadomo

11:15 Blastocyst post warming time lapse
Sara Chigioni

11:30 Discussion on the previous session's topics
Discussants: *Nicoletta Di Simone, Enrico Ferrazzi*

12:30 4th invited lecture: KPIs in REI fellowship
Pasquale Patrizio

12:45 Conclusions and ECM format compilation