

# KIEL SCHOOL

## Lilo Mettler School of Reproductive Medicine

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### **Topics covered during the training program Part I and Part II**

**Part I – May 27 - 29, 2021**

**Part II - December 9 - 11, 2021**

*We will be focusing on hands-on experience and practical clinical knowledge*

### **REPRODUCTIVE CLINICS - I**

#### **Fertility an Infertility – General considerations**

The History of Reproductive Medicine

Fertility and Infertility

Patient Evaluation, Diagnosis, therapy planning

All you need to know about AMH

10 Secrets for IUI Success

Physiology of reproduction and introduction to IVF and ICSI

Optimizing nutrition during fertility treatment and pregnancy – what is important?

## WALK THROUGH THE IVF-UNIT

Designing an IVF Unit

How to set up an IVF-lab - Equipment in the IVF Lab

Documentation and Identification

## Basics of designing a stimulation protocol

When and how to use an agonist or antagonist protocol

How to decide on a starting dose

Which gonadotrophin to use? – rFSH or Urinary FSH – what is available in the market

When and how to use rLH

Why and how often do I need to perform an ultrasound?

What to measure in the blood during stimulation, how often and what is its significance? – Estrogen, Progesterone, LH, etc.

When to administer HCG or Agonist and why?

Corpus luteal phase support overview

## FOLLICULAR PUNCTURE AND EMBRYO TRANSFER

Everything That an Art Specialist Should Know About Egg Pick Up

Strategies in Embryo Transfer

Follicular Puncture – Practical Clinical Tips and Tricks

How to manage difficult Oocyte pick up

Complications of Oocyte pick up

Embryo Transfer – Secrets of the Experts

How to manage difficult embryo transfer

Q & A – Hands On FP and ET

## REPRODUCTIVE CLINICS - II

PCOS OI Protocols

Fertility preservation in cancer, chronic diseases and Social freezing

Patient at risk of OHSS: Prevention and treatment

Poor Responder – Management Strategies

The management of Recurrent Miscarriage

Immunological Approaches for Implantation

Infertility in the medically complicated patient

To freeze or not to freeze? Freeze All for All or Freeze all for some?

How to plan a Frozen Embryo Transfer?

- What medication to use and how?
- How do I calculate the transfer and start of Progesterone?
- Should I use an Agonist cover?
- Do I need to perform any blood tests?
- Why and how often do I need to perform an ultrasound?

The new PCOS-consensus, Infertility treatment and OI protocols in PCOS

NIPT

Prenatal screening of a pregnant woman after IVF

Reproductive genetics for dummies – what you need to know for understanding present PGS techniques

Questioning the place of Lapro-hysteroscopy in reproductive medicine

Hysteroscopy in ART- Dos and Don'ts

## ULTRASOUND AND INFERTILITY

Systematic approach to scan the pelvis - a dynamic and interactive examination

Technique of performing an Antral Follicle Count with 2D and 3D ultrasound

Evaluation of the uterus – How to do it? Do guidelines help?

Imaging fibroids to plan treatment options

Diagnosing Adenomyosis – Mistakes to avoid

Diagnosis and Management of Congenital Anomalies of the Uterus

Improving Art Success Using Ultrasound

Clinical dilemmas -and ultrasound solutions in gynecology – case-based studies

Uncovering the secrets of the ovary through ultrasound

## ANDROLOGY

**An andrologists point of view – management of Male Sub-fertility**

**Azoospermia – Management options**

## THE IVF LAB

### All about the sperm

WHO & ESHRE guidelines to Semen Analysis and processing

Sperm morphology/structure. Function of each structure

Video session Sperm Analysis

Hands-On Semen Analysis and Sperm Morphology

Processing Semen for IUI/ IVF/ ICSI. When to use what method and why?

Hands-On Sperm sample – preparation methods

Adjuvants for the Sperm – Collagenase, Sperm Slow etc.

### The Oocyte and Embryo

The oocyte - Oocyte morphology, Function of each structure, markers of competence

Embryo scoring (Day 1 – 6, PN scoring, Morphology criteria)

Grading a patient's embryo – predicting prognosis

Vitrification: Basics and how to improve survival

PICSI

Current state of Time Lapse Microscopy – Does it really make a difference?

Adjuvants in the IVF Lab to improve success

Experience with embryo biopsy - The present scenario

RI Witness

## **Hands on video tutorial**

Oocyte pick up

Embryo transfer

Oocyte screening

ICSI and PICSI

Vitrification and warming

Embryo biopsy

Time Lapse