

### **Topics covered during the training program**

*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

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

#### **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 the significance? – Estrogen, Progesterone, LH, etc

When to administer HCG or Agonist and why?

Corpus luteal phase support overview

## **Walk through the University IVF-Unit (UKSH Kiel)**

Designing an IVF Unit

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

Documentation and Identification

## **FOLLICULAR PUNCTURE AND EMBRYO TRANSFER**

Follicular Puncture – Practical Clinical Tips and Tricks

How to manage difficult Oocyte pick up

Embryo Transfer – Secrets of the Experts

How to manage difficult embryo transfer

Q & A – Hands On FP

Q & A – Hands On 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

Recurrent Miscarriage

Immunological Approaches for Implantation

Infertility in the medically complicated patient

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?

NIPT

Prenatal screening of a pregnant woman after IVF

Genetics for the non-geneticist

PGS and PGD : Basics and what a reproductive clinician should know

## 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

Myometrial evaluation – How to do it? Do guidelines help?

Imaging fibroids to plan treatment options

Diagnosing Adenomyosis – Mistakes to avoid

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

## THE IVF LAB

### All about the sperm

WHO & ESHRE guidelines to Semen Analysis and processing

Sperm morphology/structure. Function of each structure

Hands-on Sperm Morphology

Hands-On Semen Analysis

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

Hands-On Sperm sample – preparation methods

Freezing Sperm Cells and Hands-On TESE

### The Oocyte and Embryo

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

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

Hands-On in the IVF Lab

Hands On – ICSI

Vitrification : Basics , Hands On – Freezing, How to improve survival

Improving Sperm Selection, HBA & PICSI-Method

Time Lapse in the IVF Lab

Polar Body and Trophectoderm Biopsy

## AND FURTHER MORE...

Current clinical state of Time Lapse Microscopy (TLM) – The clinical difference

Improving Fertility by Nutrition, Vitamins & Co -The Rationale and Data

Clinical Case Discussions

Ferring Kiel: Introduction in Ferring Pharmaceuticals Kiel

Storz Endoscopy: Office Hysteroscopy (Theory and Hands On)

etc.