



Sri Aurobindo Institute of Medical Sciences SAIMS/121
Sri Aurobindo Medical College & P.G. Institute
SAIMS HOSPITAL, INDORE (M.P.)

DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Short-term Fellowship in Clinical Embryology

Course curriculum:

Andrology: Semen analysis, Sperm preparation, Sperm freezing, SDF assessment, IUI, Donor sperm maintenance, record keeping, quality control and assurance in andrology lab.

Basic embryology: Daily logins, dish preparation, media calibration, semen preparation for IVF and ICSI, Equipment checking, oocyte pickup, fertilization assessment, embryo grading, incubator maintenance, quality control and assurance in the IVF lab, lab cleaning and microbial cultures, culture system and culture conditions, laboratory equipment, AHU, factors effecting embryo culture.

Advanced embryology: IVF, oocyte handling and oocyte denudation, gamete/embryo pipetting, ICSI setting up, micromanipulator handling, ICSI demonstration, testicular sperm assessment, sperm sorting techniques, embryo biopsy, biopsy tubing, PGT, Genetic screening.

Cryobiology: Sperm cryopreservation, oocyte freezing, embryo and blastocyst vitrification and warming techniques, cryopreservation media and devices, equipments and storage containers for cryopreservation, labeling, witnessing and identification process.

Documentation : Patient history taking, consent form according to the ART act, sops, lab forms for semen analysis, IUI, semen freezing, embryo/ gamete storage forms, donor oocyte/ donor sperm consent forms, lab books, KPI'S, Statistics, log books, entry forms, stock check inventory, all QA and QC forms.

Clinical topics: Types of infertility, male and female reproductive system, male and female hormones, stimulation protocols, antagonist, agonist, short protocols, ovulation induction, OHSS, hormones, IUI, blood tests and protocols to be done before any ART procedure, patient consent forms, self and donor consent forms, patient counseling, factors affecting the IVF results, recent advances, ET/FET protocols, Luteal support, PRP, -----