## Canadian Center for Reproductive Medicine and Clinical Embryology

Course title	Assisted Conception Training
	in ART
Duration Fees	10 days CAN \$ 8500
Course objecti	
0	ned on this course will receive one-on-one training to develop knowledge and
	clinical management and laboratory practices of IVF and ICSI. The syllabus covers owing areas:
• Supplie	es & Culture Medium
-	aration of culture medium and dishes for IVF/ IVF-ICSI cases ryo culture
• Exte	nded embryo culture
• IVF Te	chniques
Class     Oocy	(Intracytoplasmic sperm injection) sical IVF (In Vitro Fertilization) yte handling and scoring ryo handling, scoring and loading
• Advanc	ced ART Techniques
	sted hatching by laser or chemical (Tyrode's) method ryo biopsy (laser and chemical)
• Pre-Im	plantation Genetic Diagnosis
<ul> <li>Le</li> <li>Bi</li> <li>Us</li> <li>Bl</li> <li>Cell</li> </ul>	tomere biopsy: earn the setting up of the micromanipulator opsy of mouse/hamster 8-cell stage embryos se of laser and acid Tyrode's for zona drilling astomere and polar body aspiration and fixation techniques spreading tion techniques
• Cryopr	eservation
	ryo cryopreservation (mouse embryos) fication

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  - Andrology Techniques
- - Sperm preparation for IVF/ICSI
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- Sample Course Schedule for Module 5A
- Discussion:
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- Introduction to embryology and assisted reproduction techniques
- Embryo selection
- Optimization of embryo culture conditions
- Essential instruments and disposable supplies for an IVF laboratory
- Extended culture and single embryo transfer
- Embryo evaluation, grading and assisted hatching
- Designing of new ART Laboratory:
- Setting up of an ideal laboratory is the key to success in IVF. Learn from our embryologists and scientists the key factors to be kept in mind while setting up a state-of-the-art IVF lab
- Optimization of IVF lab procedures (quality control, quality assurance, proficiency testing, accreditation and documentation)
- Sperm preparation techniques:
- Sperm processing technique is vital in an era of increasing male factor infertility. The level of reactive oxygen species and DNA damage is known to increase by iatrogenic damage during faulty sperm preparation techniques, thereby affecting ART outcomes. Learn from our experts the ideal sperm processing techniques.
- Sperm selection
- Learn the latest sperm selection techniques for ICSI sperm (discussion).
- Ovulation induction protocols
- The success of IVF mainly depends on the endocrine milieu created by the reproductive endocrinologist for super ovulation. Discuss with specialists the pros and cons of different stimulation protocols.
- Oocyte retrieval

## **Educational teaching methods:**

Interactive discussion and teaching sessions Hands-on laboratory training sessions Live lectures and multimedia presentations

## **Evaluation of trainee:**

Knowledge / Theoretical Component (30%): Multiple choice questions on lab techniques linked to each course module

Practical Skills (50%): Tested on specific lab techniques taught during the training verbal Communication & Comprehension Skills / Integrative Component (20%): PowerPoint talk on a topic linked to a course module and viva voce

Candidates who meet the training requirements and successfully complete the course work will be awarded the Training Certificate

Each participant will receive: Certificate of Training (issued upon successful assessment by the instructor) and Grading Report