## ART Teaching and Training Schedule

**Duration:** August 1 – 30, 2008  
**Locations:** TT3 (Cleveland Clinic), A81 Gynecology

<table>
<thead>
<tr>
<th>Week 1: 8/1 – 8/8</th>
<th>Lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date/ Time</strong></td>
<td><strong>Speaker</strong></td>
</tr>
<tr>
<td>August 1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>Appointment for Orientation</td>
</tr>
<tr>
<td>August 1&lt;sup&gt;st&lt;/sup&gt; 2.00pm</td>
<td>Ashok Agarwal, PhD/ Rakesh Sharma, PhD/ Sajal Gupta, MD</td>
</tr>
<tr>
<td>August 1&lt;sup&gt;st&lt;/sup&gt; 3.00pm</td>
<td>Manjula Gupta, PhD</td>
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<tr>
<td>August 4&lt;sup&gt;th&lt;/sup&gt; 9.00am</td>
<td>Ahmed Ragheb, MD</td>
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<tr>
<td>August 4&lt;sup&gt;th&lt;/sup&gt; 3.30pm</td>
<td>Rakesh Sharma, PhD</td>
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<tr>
<td>August 5&lt;sup&gt;th&lt;/sup&gt; 9.00am</td>
<td>Sajal Gupta, MD</td>
</tr>
<tr>
<td>August 5&lt;sup&gt;th&lt;/sup&gt; 10.00am</td>
<td>Reda Mahfouz, MD</td>
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<tr>
<td>August 5&lt;sup&gt;th&lt;/sup&gt; 11.00am</td>
<td>Jeffrey Goldberg MD</td>
</tr>
<tr>
<td>August 5&lt;sup&gt;th&lt;/sup&gt; 1.00pm</td>
<td>Tommaso Falcone, MD</td>
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</tbody>
</table>
### Clinical Reproductive Medicine and Surgery
*Editors: Hurd & Falcone, 2007*

#### August 6th
- **8.00am**
  - Reda Mahfouz, MD
  - Computer Aided Semen Analysis and Sperm Kinematics
  - TT03-06
- **9.00am**
  - Sajal Gupta, MD
  - Sperm morphology evaluation WHO and Strict criteria
  - TT03-06
- **9.00am**
  - Manjula Gupta, PhD
  - Lab Cases: Curves and Sinks
  - TT03-06
- **4.00 pm**
  - Adi Mehta, MD
  - Clinical and Metabolic Features of Polycystic Ovarian Syndrome
  - TT03-06

#### August 7th
- **9.00am**
  - Rakesh Sharma, PhD
  - Sperm Preparation techniques for ART
  - TT03-06
- **12:00pm**
  - Sajal Gupta, MD
  - Ovarian Reserve Tests
  - TT3-06

#### August 8th
- **8.00am**
  - Edmund Sabanegh, MD
  - Male Evaluation - A Guidelines Based and Practical Approach
  - TT3-06
- **9.00am**
  - ART candidate
  - Controlled Ovarian Stimulation for Poor Responders: New Options Presentation
  - TT3-06
- **9.00am**
  - Reda Mahfouz, MD
  - Sperm cryopreservation
  - TT03-06
- **12:30pm**
  - Luncheon with Dr. Agarwal and other RRC Staff
  - Founders Room
- **3:00pm**
  - Kelly Athayde
  - How to Set up an IVF Laboratory: Equipments and Design
  - TT3-06
- **4.00 pm**
  - Ashok Agarwal, PhD
  - Quality Control for Andrology Laboratory
  - TT03-06

#### Week 2: 8/11– 4/15
**ART Training:**
- Lakshmi Prasuna, MD
  (Times: 9-11 and 2-4:30),
- Clinical rotation in Human IVF Lab (Times 8-4): Betty John and Nilofar Poonawala
  - ICSI: Intracytoplasmic sperm injection
  - Classical IVF
  - Oocyte handling

#### August 11th
- **8:00am**
  - Ragheb Ahmed, MD
  - Obstructive Azoospermia
  - TT3-06

#### August 12th
- **9.00am**
  - Amr Kader, MD
  - Oocyte Vitrification: Practical Demonstration
  - TT3-06
- **4.00 pm**
  - Kelly Athayde, MT, MS
  - Setting up IVF lab: Air quality Management
  - TT3-06

#### August 13th
- **4.00 pm**
  - Amr Kader, MD
  - Optimization of Embryo Culture Media: An Update
  - TT03-06

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**June 11th, 2008**
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 14th</td>
<td>4.00pm</td>
<td>Kelly Athayde, MT, MS</td>
<td>Benchmarks for Quality Management in an ART Laboratory</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 15th</td>
<td>8.00am</td>
<td>ART Trainee</td>
<td>Clinical Aspects of Assisted Reproduction Technologies</td>
<td>Founders Room</td>
</tr>
<tr>
<td>August 15th</td>
<td>12:30pm</td>
<td>Luncheon with Dr. Agarwal and other RRC Staff</td>
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<tr>
<td>August 18th</td>
<td>9.00am</td>
<td>Ahmed Ragheb</td>
<td>Surgical Techniques for Sperm Retrieval</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 19th</td>
<td>9.00am</td>
<td>Courtenay Moore, MD</td>
<td>Female Sexual Dysfunction</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 19th</td>
<td>2.00pm</td>
<td>Amr Kader, MD</td>
<td>Oocyte Vitrification: Practical Demonstration</td>
<td>TT3-06</td>
</tr>
<tr>
<td>August 20th</td>
<td>9.00am</td>
<td>Sajal Gupta, MD</td>
<td>Intrauterine Insemination</td>
<td>TT03-06</td>
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<tr>
<td>August 21st</td>
<td>9.00am</td>
<td>Rakesh Sharma, PhD</td>
<td>Role of Oxidative Stress in Assisted Reproduction: Evidence Based Medicine</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 22nd</td>
<td>8.00am</td>
<td>ART Trainee</td>
<td>Role of Ultrasound in ART: latest Update</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 22nd</td>
<td>11:30am</td>
<td>Ashok Agarwal, PhD</td>
<td>Fertility Preservation in Men with Cancer</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 22nd</td>
<td>4.00pm</td>
<td>Rakesh Sharma, PhD</td>
<td>Lab Demonstration: TUNEL test for Sperm DNA Damage</td>
<td>TT3-06</td>
</tr>
<tr>
<td>August 25th</td>
<td>7:00 am</td>
<td>Linda Bradley, MD</td>
<td>Operative &amp; Diagnostic Hysteroscopy</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 25th</td>
<td>9:30 am</td>
<td>Ragheb Ahmed, MD</td>
<td>Diagnosis and Management of Varicocele: Evidence Based Medicine</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 25th</td>
<td>4:00 pm</td>
<td>Sajal Gupta, MD</td>
<td>Role of OS in Female Infertility and ART</td>
<td>TT3-06</td>
</tr>
</tbody>
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**Week 3: 8/18 – 8/22**

**ART Training:**
Niofar Poonawala (Times: 9-11 and 2-4:30)
Clinical rotation in Human IVF Lab (Times 8-4):
Lakshmi Prasuna and Sunitha, MD
- ICSI: Intracytoplasmic sperm injection
- Classical IVF
- Oocyte handling
- Embryo handling
- Embryo scoring
- Embryo loading
- Assisted hatching (chemical)
- Embryo biopsy
- ICSI with HOS test
- Cell spreading
- Fixation techniques
- Embryo cryopreservation (mouse embryos)
- Vitrification

**Week 4: 4/25-4/29**

**ART training:**
Sunitha (Times: 9-11 and 2-4:30)
Andrology Module: LP, BJ and NP
- Operative & Diagnostic Hysteroscopy
- Diagnosis and Management of Varicocele: Evidence Based Medicine
- Role of OS in Female Infertility and ART
<table>
<thead>
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<th>Time</th>
<th>Name</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>August 26th</td>
<td>8:00am</td>
<td>Reda Mahfouz</td>
<td>MACS Demonstration</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 26th</td>
<td>11.00am</td>
<td>Jeffrey Goldberg, MD</td>
<td>Recurrent Pregnancy Loss</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 26th</td>
<td>3.00pm</td>
<td>Sajal Gupta, MD</td>
<td>Sperm Morphology Evaluation: WHO and Strict criteria</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 26th</td>
<td>4:00pm</td>
<td>ART Trainee</td>
<td>ICSI: Current and Future Perspectives</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 27th</td>
<td>8:30am</td>
<td>Amr Kader, MD</td>
<td>Oocyte and EmbryoVitrification: latest results and update from CRM</td>
<td>TT3-06</td>
</tr>
<tr>
<td>August 27th</td>
<td>2:00pm</td>
<td>Ragheb Ahmed, MD</td>
<td>Surgical Management of Male Infertility: Evidence Based Medicine</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 27th</td>
<td>3:00pm</td>
<td>Kelly Athayde, MT MS</td>
<td>Sperm Antibody Detection</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 28th</td>
<td>7:00am</td>
<td>Marjan Attaran, MD</td>
<td>Ovarian Hyperstimulation Syndrome</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>7.30am</td>
<td>Dr Sabanegh, MD</td>
<td>Obstructive Azoospermia</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>8.00am</td>
<td>Dean Morbeck, PhD</td>
<td>Quality Management in the IVF Laboratory</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>9.00am</td>
<td>Dean Morbeck, PhD</td>
<td>Demonstration ART techniques</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>8.00 am</td>
<td>Dean Morbeck PhD</td>
<td>Importance of Air Quality in the ART Lab.</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>9.00am</td>
<td>Dean Morbeck PhD</td>
<td>Demonstration ART techniques</td>
<td>TT03-06</td>
</tr>
<tr>
<td>August 29th</td>
<td>4:30pm</td>
<td>Trainee and Course Evaluation</td>
<td>Farewell Luncheon and Award of Certificates</td>
<td>TT3-06</td>
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</tbody>
</table>

**Course Director**: Dr. Ashok Agarwal

Kelly Athayde, MT, MS, ART Training Supervisor, Main campus  
Alex Varghese, Ph.D., ART Training Faculty

**Course Faculty (Cleveland Clinic)**:  
Tommaso Falcone, M.D, Chairman, Ob/Gyn and Women’s Health Institute  
Jeffrey Goldberg, Staff, MD, Ob/Gyn and Women’s Health Institute  
Marjan Attaran, MD, Staff, Ob/Gyn and Women’s Health Institute  
Linda Bradley, MD, Staff, Ob/Gyn and Women’s Health Institute  
Gita Gidwani, MD, Staff, Ob/Gyn and Women’s Health Institute  
Edmund Sabanegh, MD, Head, Center for Male Infertility, Glickman Urological and Kidney Institute  
Adi Mehta, MD, Staff, Department of Endocrinology

**June 11th, 2008**
Manjula Gupta, Ph.D, Staff, Department of Clinical Pathology
Ahmed Ragheb, MD, Glickman Urological Institute
Rakesh Sharma, Ph.D., Center for Reproductive Medicine
Sajal Gupta, MD, Center for Reproductive Medicine
Reda Mahfouz, MD, Center for Reproductive Medicine
Hussein Abdelrazik, MD, Center for Reproductive Medicine
Amr Kader, MD, Reproductive Research Center
Kelly Athayde, MT, MS, Andrology Laboratory
Anitra Patrick, MT, Andrology Laboratory
Debbie Garlak, MT, Andrology Laboratory
Deb Smith, Andrology Laboratory

Invited Faculty
Dean Morbeck, PhD

Indian Speakers:
E Lakshmi Prasuna, MD
Betty John, MD
Sunitha Soundarapandian, MD
Nilofar A.Poonawala, MD