

Alpha Consensus Meeting

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Welcome Message

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Committees

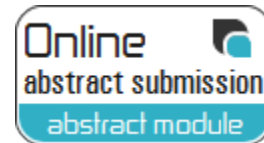
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PRE - CONGRESS

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**Alpha - KED - CRM Andrology Pre-Congress  
Workshop**

**May 8th, 2014, Antalya, Turkey**

**Course Directors: Ashok Agarwal, PhD, HCLD (ABB), ELD (ACE) and M. Engin Enginsu, M.D.,  
Ph.D.**

**Dear Colleagues,**

The Turkish Society of Clinical Embryologists is happy to announce a pre-congress Andrology Workshop under the Alpha Scientists in Reproductive Medicine Meeting in Antalya from May 8-11, 2014. This workshop is designed for the biologists, embryologist, andrologist or physicians to learn the basic and advanced laboratory tests and protocols used in the evaluation of male infertility and assisted reproduction. This is a unique opportunity to attend one of the most prestigious workshops in Laboratory Andrology and Male Infertility being organized and directed by renowned Andrologist & ART experts; Prof.

Ashok Agarwal from the United States and M. Engin Enginsu M.D., Ph.D. from Turkey.

There is ample opportunity for interaction with the speakers and this course is endorsed by the prestigious Center for Reproductive Medicine at Cleveland Clinic.

It gives us great pleasure to welcome you to this unique workshop. We hope that you will enjoy your experience with us.

### **WORKSHOP HIGHLIGHTS (May 8, 2014)**

Workshop attendance will be free of charge thus seating is limited!! First come first serve basis will be applied.

- Demonstration and explanation of latest instruments, kits and protocols used in human assisted reproduction laboratories.
- Experienced Turkish biologists/ embryologists will guide the workshop. There will be 9 work stations as described in the scientific program.
- An experienced Andrologists/ Embryologists will be in-charge of each work station.
- Workshop Faculty at each work station will teach, demonstrate and train in important andrology and ART techniques.

The list of work stations is given below:

1. Semen Analysis
2. Computer-Assisted Semen Analysis (CASA)
3. Sperm Morphology by Strict Criteria (WHO 5th edition)
4. Leukocyte detection (Peroxidase staining/ Endtz test)
5. Vitality Test:Eosin – Nigrosin staining and Hypoosmotic swelling test (HOS)
6. Sperm Preparation Methods for:
  - IUI (Swim-up and DDG)
  - Retrograde Ejaculation
  - Infected Samples (HIV, Hepatitis)
  - Ejaculated Sperm for ICSI
  - Extracted Sperm for ICSI (TESE/ PESA/ MESA)
7. Sperm DNA damage (HBA, Aniline Blue)

8. Sperm Selection for ICSI (Morphology/ Hyaluronan based PICSI/ IMSI)
9. Semen Cryopreservation for Ejaculated and Testicular sperm

Participants will receive the following materials at the end the course:

1. WHO Laboratory Manual for the examination and processing of human semen, 5th Edition, 2010
2. Handbook of Andrology
3. Protocols of all laboratory techniques to be demonstrated
4. Certificate of Training

We hope to share this experience with you on May 8th, 2014.

**Workshop Directors:**

**Ashok Agarwal, PhD, HCLD (ABB), ELD (ACE)**

Director Andrology Center

Director, Center for Reproductive Medicine

Cleveland Clinic, United States

**M. Engin Enginsu, M.D., Ph.D.**

Turkish Society of Clinical Embryologists

Board Member,

Andrology Workshop Coordinator

**Faculty**

Dr. Ashok Agarwal

(Cleveland Clinic, Cleveland, OH, USA)

Dr. Engin Enginsu

(Kadıköy Şifa Hospital, IVF Unit, İstanbul, Turkey)

Dr. Ahmet Ayaz

(Cleveland Clinic, Cleveland, OH, USA)

Dr. Ciler Ozenci

(Akdeniz University, Histology-Embryology Department, Antalya, Turkey)

Dr. Sinan Ozkavukcu

(Ankara University, IVF Unit, Ankara, Turkey)

### Scientific Programme

08.30-08.40	Aim and Introduction of the Workshop Ashok Agarwal and Engin Enginsu
08.40-09.00	Routine Semen Analysis Engin Enginsu
09.00-09.20	Routine Semen Analysis / Additional Tests Ashok Agarwal  Advanced Sperm Function Tests: An Overview
09.20-09.40	Sperm DNA Damage Sinan Ozkavukcu
09.40-10.00	IMSI and other Sperm Selection Tests Ciler Ozenci
10.00-10.15	COFFEE BREAK
10.15-12.45	Rotation of Groups
12.45-13.30	LUNCH BREAK
13.30-15.00	Rotation of Groups
15.00-15.15	COFFEE BREAK
15.15-16.45	Rotation of Groups
16.45-17.30	ROUNDTABLE DISCUSSION (Question and Answer Session)

### Description of Various Work Stations

#### **Workstation 1, Moderator:**

Dr. Ahmet Ayaz (Cleveland Clinic, Cleveland, OH, USA)

**Workstation 2, Moderator :**

Dr. Ahmet Ayaz (Cleveland Clinic, Cleveland, OH, USA)

**Workstation 3, Moderator :**

Dr. Alper Ismicioglu (Kadikoy Sifa Hospital, IVF Unit, Istanbul, Turkey)

**Workstation 4, Moderator:**

Dr. Selahattin Sutcuoglu (Florence Nightingale Hospital, Istanbul, Turkey)

**Workstation 5, Moderator:**

Dr. Kerem Dirican (Akdeniz University, IVF Unit, Antalya, Turkey)

**Workstation 6, Moderator:**

Dr. Sinan Ozkavukcu (Ankara University, IVF Unit, Ankara, Turkey)

**Workstation 7, Moderator:**

Dr. Cihan Halicigil (Maslak Acibadem Hospital, Istanbul, Turkey)

**Workstation 8, Moderator:**

Dr. Ciler Ozenci (Akdeniz University, Histology-Embryology Department, Antalya-Turkey)

<b>Work Station</b>	<b>Laboratory Techniques</b>	<b>Learning Objectives</b>
1.	<b>Semen Analysis</b>	Each participant receives training in routine semen analysis including proper specimen collection, measurement of volume, pH, manual sperm count, and motility using sperm counting chambers, and preparation of seminal smear for morphology.  <ul style="list-style-type: none"><li>• <b>Test protocol, supplies and equipment</b></li><li>• <b>Collection and delivery of semen sample</b></li><li>• <b>Routine semen analysis</b></li><li>• <b>Quality control method for semen analysis</b></li><li>• <b>Proficiency survey for semen analysis</b></li></ul>
2.	<b>Computer-Assisted Semen Analysis (CASA)</b>	Learn the use of a modern CASA instrument for semen assessment in a fertility lab.

		<ul style="list-style-type: none"> <li>• Principle of CASA</li> <li>• Test protocol, supplies and equipment</li> <li>• Differences between manual and CASA semen analysis</li> <li>• Operating details</li> <li>• Results and interpretation</li> </ul>
3.	<b>Sperm Morphology</b>	<p>Participant receive training in sperm morphology method by Strict criteria as per WHO criteria (5th edition):</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment</li> <li>• Observe semen smear preparation and practice staining techniques</li> <li>• Review quality control measures</li> </ul>
4.	<p><b>Leukocyte detection (Peroxidase staining/ Endtz test)</b></p> <p><b>Vitality test (Eosin-Nigrosin stain) and Hypoosmotic swelling test (HOS)</b></p>	<p>Learn the use of peroxidase staining test to measure the number of leukocytes in semen specimen</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment</li> <li>• WHO cut off value for leukocytospermia</li> <li>• Methods to remove leukocytes in semen specimens</li> </ul> <p>Learn sperm membrane integrity tests.</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment's</li> <li>• E-N test distinguishes live and dead sperm in a poor motility semen sample.</li> <li>• HOS test evaluates sperm membrane integrity and is used to select live sperm for ICSI in a population of non-motile sperm</li> </ul>
5.	<p><b>Sperm Preparation Methods for:</b></p> <ul style="list-style-type: none"> <li>• <b>IUI (Swim-up and DDG)</b></li> <li>• <b>Retrograde Ejaculation</b></li> <li>• <b>Infected Samples (HIV)</b></li> <li>• <b>Ejaculated Sperm For ICSI</b></li> <li>• <b>Extracted Sperm For ICSI (TESE/ PESA/ MESA)</b></li> </ul>	<p>Discuss various sperm preparation methods in ART. Demonstrate swim up and double density gradient techniques.</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment</li> <li>• Tips for maximizing recovery of best quality spermatozoa</li> <li>• Limitations of each sperm prep method</li> </ul>

6.	<b>Sperm DNA damage by Aniline blue/ HBA/ HALO test</b>	<ul style="list-style-type: none"> <li>• Learn the use of various techniques for measuring sperm DNA damage</li> <li>• Test protocol, supplies and equipment</li> <li>• Advantage and disadvantage of each method</li> </ul>
7.	<b>Sperm Selection for ICSI (Morphology/ Hyaluronan based PICS/ IMSI)</b>	<p>Learn the use of most common sperm selection methods for ICSI:</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment</li> <li>• Demonstration of various techniques</li> <li>• Advantage and limitations of each method</li> </ul>
8.	<b>Semen Cryopreservation for Ejaculated and Testicular sperm</b>	<p>Learn the use of slow freezing method for sperm banking in ART</p> <ul style="list-style-type: none"> <li>• Test protocol, supplies and equipment</li> <li>• Demonstration of freezing technique</li> <li>• Freezing of ejaculated vs. testicular sperm</li> </ul>
<p>*** Dr.Ashok Agarwal and Dr.Engin Enginsu (the workshop directors) will rotate on all workstations.</p>		

- An experienced Andrologist/ Embryologist will be in-charge of each work station.
- Experienced Turkish biologists/ embryologists will guide the Workshop in addition to the faculty members.

\*\*\* WORKSHOP IS FREE OF CHARGE, THUS SEATING IS LIMITED and is on first come first serve basis



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