

Advanced Fetal Medicine and Therapy Course

12 - 14 October, 2023

Abu Dhabi – United Arab Emirates

Course Directors: Mandeep Singh
Mauricio Herrera

Organized and Supported By

Speakers - Professors

Prof. Mandeep Singh

MD, MRCOG, Dip in Fetal Medicine, CCT(MFM)

Consultant - Maternal Fetal Medicine

Kypros Nicolaides Fetal Medicine & Therapy Center

Burjeel Medical City, Abu Dhabi

Prof. Mauricio Herrera

MD, Maternal Fetal Medicine, Fetal Surgery – ISUOG Fellow

Consultant - Maternal Fetal Medicine

Head Chief of Maternal Fetal Medicine Department

Director of Fetal Surgery and Therapy Center – International Program

President of International Foundation of Maternal Fetal Medicine

Clinica Colsanitas, Colombia

Prof. Jader Cruz, MD

Portugal

Prof. Eran Bronstein, MD

Director- Center for Maternal Fetal Medicine and Ultrasound
in Obstetrics & Gynecology, Lenox Hill Hospital, NY

Learning Objectives

The main objectives of the Advance Fetal Medicine course are to offer intensive training to the assistant that allows them to understand the techniques of fetal therapy and surgery from the parameters of Maternal Fetal Medicine, starting from the indications, pathologies susceptible to intervention, knowledge of fetoscopy instruments and acquiring the skills to perform validated fetal therapy procedures

Specific Objectives

At the end of the Course the participants will be able to:

- Review the technique for the Ultrasound guided invasive procedure in Fetal Medicine
- Improve the hand-eye coordination in the ultrasound guided invasive procedures.
- To perform invasive ultrasound guided prenatal diagnostic tests such as Amniocentesis, CVS, cordocentesis.
- To perform ultrasound guided fetal therapy procedures on high fidelity training models.
- To review the validated fetal therapy.
- To review the diagnosis and indications for fetal therapy in multiple pregnancy.
- To review the diagnosis and indications for fetal therapy in Myelomeningocele.
- To review the diagnosis and indications for fetal therapy in congenital diaphragmatic hernia.
- To evaluate the definition and application of fetal shunts.
- To review the fetal cardiology and fetal echocardiography

Methodology

3 Days | Master Lectures | Hands on Session | Fetal Therapy and Surgery Clinical

Language: English

Scientific Program

Agenda

Day 1 – Fetal Therapy and Surgery, Thursday, October 12, 2023

Venue- Administration Building, Ground Floor, Burjeel Medical City

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| 7:00 | Bus departs from Novotel AD gate |
| 7:15 – 8:00 | Breakfast / Registration |
| 8:00 – 8:30 | Inauguration- Objectives – Mandeep Singh |
| 8:30 – 9:30 | Review of Fetal Anatomy and Genetics in Fetal Therapy and Surgery – Mauricio Herrera – Mandeep Singh |
| 9:30 – 10:00 | Guidelines and statements: Invasive and Diagnostic ultrasound guided procedures in FM: Amniocentesis, umbilical cord sampling, CVS fetal shunts, Thoracocentesis urinary bladder shunt, Embryo reduction
– Mauricio Herrera – Mandeep Singh |
| 10:00-10:15 | Opening and Welcome note by Chief Guest |
| 10:15 – 10:45 | Coffee Break |
| 10:45 – 11:10 | Ultrasound guided procedures in Maternal Fetal Medicine
– Technique – Access to the amniotic cavity
– Mapping and Planning – M. Herrera |
| 11:10 – 13:00 | Fetal surgery: Hand – eye coordination exercises – Session I
Ultrasound guided procedures - M. Herrera , Mandeep Singh ,
Eran Bornstein |
| 13:00 – 14:00 | Lunch |
| 14:00 – 15:30 | Fetal surgery: Hand – eye coordination exercises – Session II
Amniocentesis , CVS , Cordocentesis, Intrauterine fetal blood transfusion: hands on simulator, Fetoscopy
Simulation room – M. Herrera , Mandeep Singh , Eran Bornstein |
| 15:30 - 15:45 | Coffee Break |
| 15:45-17:00 | Session Continues – (Part 2) |
| 17:00 - 17:30 | Group discussion |
| 17:30 | End of day 1 |
| 19:00 | Bus departs from Novotel |
| 19:30 | Welcome Dinner at Fairmont Bab Al Bah |

Agenda

Day 2 – Fetal Therapy and Surgery, Friday, October 13, 2023

7:00	Bus departs from Novotel
7:15 – 8:30	Breakfast
8:30 – 9:00	Validated Fetal Therapy – M. Herrera
9:30 – 9:45	Multiple Pregnancy: Placenta, chronicity, Placental anatomy, Monochronic placenta, MCDA twin pregnancy complications: TTTS – Selective fetal growth restriction, TRAP, TAPS, Discordant Twin DCDA – Discordant Twin – Selective FGR – Triplets – M. Herrera
9:45 – 10:30	Fetal Shunts: Hydrothorax, LUTO: From diagnosis to therapy – From the diagnosis to therapy – M. Singh
10:30 – 11:00	Coffee Break
11:00 – 12:00	Myelomeningocele – Spina Bifida – From the Diagnosis to the Therapy - Fetal Surgery in MMF – MyHOS Technique – Open fetal surgery My HOS Technique – Fetoscopic surgery – M. Herrera
12:00 – 12:45	Session with Prof. Kypros Nicolaides <ul style="list-style-type: none">• Introduction to Faculty & Participants• Fetal Therapy
12:45- 13:45	Lunch
13:45 – 14:30	The Fetal Airway: FETO in Congenital Diaphragmatic Hernia – From the diagnosis to Therapy – M. Herrera
14:30 – 15:15	Fetal Airway Obstruction – CHAOS Syndrome EXIT Procedure – M. Herrera
15:15 – 15:35	Fetal Anemia: Intrauterine Transfusion Technique – From the diagnosis to the therapy – M. Singh
15:35 – 16:00	Coffee Break
16:00 – 17:45	Hands on 1 – The Fetal airway Therapy and Surgery: FETO procedure in Congenital diaphragmatic hernia – M. Herrera – M. Singh Hands ON 2: Fetal Shunts – M. Herrera – M. Singh
19:00.	Banquet

Agenda

Day 3 – Fetal Medicine – Fetal Cardiology, Sunday, May 28, 2023 By Prof. Jader Cruz – Mauricio Herrera

7:00	Bus departs from Novotel
8:00 - 8:30	Introduction and Objectives - Mauricio Herrera and Mandeep Singh
8:00 - 9:15	Sequential and Segmental Analysis of the fetal heart - Fetal echocardiography Guidelines – M. Herrera
9:15 - 09:45	Early Diagnosis of congenital heart disease
09:45 - 10:30	Septal defects include: ASD, VSD, AVSD
10:30 - 11:15	Left congenital heart disease include: LVHS, CoA, CAE, DIL
11:15 - 11:45	Coffee
11:45 - 12:30	Right congenital heart disease include: TI, TA, EA, Pulmonary Atresia, Pulmonary stenosis.
12:30 - 13.30	Lunch
13:30 - 14:15	Conotruncal abnormalities include: TOF, DORV, TGA, CAT
14:15 - 15:00	Aortic arch abnormalities include: RAA, DAA, IAA
15:00 - 15:45	Ductal dependent fetal heart disease
15:45 - 16:30	The fetal venous system
16.30 – 17.15	The fetal cardiac function and the fetal heart rhythm
17:15 - 18.00	Master cases in fetal cardiology - Interactive session



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