Diploma in Fetal Neurocardiology (DFN)

Accredited By ASFMS

Program Overview

The Fetal Neurocardiology Diploma is a two-year advanced training program designed to provide medical professionals with comprehensive expertise in the neurological and cardiac systems of the fetus. The program integrates theoretical knowledge with practical skills in diagnosis, imaging, and management of fetal brain and heart conditions.

Presented By: Arab Society for Fetal Medicine & Surgery (ASFMS)
Contact Information:

- Website: www.asfms.org
- Email: contact@asfms.org

Introduction

The Fetal Neurocardiology Diploma is a comprehensive, advanced-level program designed for healthcare professionals specializing in maternal-fetal medicine, neurology, cardiology, and related fields. This diploma aims to equip participants with in-depth knowledge and practical expertise in fetal neuroanatomy, cardiac development, and cutting-edge diagnostic and therapeutic approaches. Spanning two years, the program integrates theoretical learning, hands-on workshops, and clinical case studies.

Objectives of the Diploma

1. **Enhance Clinical Knowledge**: Provide a deep understanding of fetal neurological and cardiac development and associated pathologies.
2. **Develop Diagnostic Skills**: Train participants in advanced imaging techniques such as neurosonography, fetal echocardiography, Doppler imaging, and MRI.
3. **Promote Interdisciplinary Collaboration**: Foster a multidisciplinary approach to managing complex fetal conditions.
4. **Encourage Research and Innovation**: Support participants in conducting research on fetal neurocardiology.
5. **Improve Patient Outcomes**: Prepare participants to diagnose and manage fetal neurological and cardiac abnormalities effectively.

Accreditation

The diploma is accredited by the Arab Society for Medicine and Surgery (ASFMS), an internationally recognized body in maternal-fetal healthcare. Graduates receive certification affirming their expertise and professional competence in fetal neurocardiology.

Target Audience

This program is ideal for:

- Obstetricians
- Maternal-fetal medicine specialists
- Neurologists
- Cardiologists
- Radiologists specializing in fetal imaging
- Healthcare professionals with an interest in fetal medicine

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Program Highlights

- **Duration**: 2 years (March 2025 – March 2027)
    - **Year 1** : Fetal Cardiology
    - **Year 2** : Fetal Neurology
- **Format**: Hybrid learning with in-person lectures, hands-on workshops, and online resources.
- **Assessment**: Four structured exams (two per year).
- **Faculty**: Expert instructors with international credentials.
- **Workshops**: Monthly practical sessions focused on advanced imaging and clinical management.
- **Research Opportunities**: Guidance on publishing research in reputable journals.

Tuition Fees

Fees 3000 Euros per year, 6000 Euros total can be divided into 3 installments (50% at time of registration,25 % after 2 months and 25% after 4 months).

Why Choose This Diploma?

- Gain advanced knowledge in a highly specialized field.
- Learn from internationally recognized experts.
- Access state-of-the-art facilities and tools for hands-on training.
- Earn a globally respected certification.

- Contribute to improving outcomes for fetuses with complex conditions.

Program Structure and Schedule

- **Duration**: March 13, 2025 – March 23, 2027
- **Components**:
    1. Weekly lectures (onsite and online).
    2. Practical workshops and clinical sessions.
    3. Four comprehensive exams (two per year).

Year 1 : Fetal Cardiology		
Topics	**Month**	**Activities**
1- Normal and abnormal development of fetal heart 2- Indications of fetal echoradiography 3- Fetal cardiac function and fetal circulation 4- Techniques of fetal echocardiography(ISUOG guideline 2023)	March 2025 to May 2025	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) – Monthly Workshop: (Saturday, 9:00 AM – 4:00 PM)
5- Abnormalities of four chamber view and abnormalities of great arteries. 6- Fetal cardiac morphometry 7- Fetal cardiac rhythm 8- fetal systolic function 9- fetal diastolic function	June 2025 to August 2025	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) – Monthly Workshop: (Saturday, 9:00 AM – 4:00 PM)
10- Atrioventricular septal defect(complete or partial) 11- ventricular septal defect (perimembranous or muscular)	September 2025 to November 2025	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) – Monthly Workshop: (Saturday, 9:00 AM – 4:00 PM)

12- atrial septal defect 13- Double inlet single ventricle 14- hypoplastic left heart(Mitral atresia or aortic atresia) 15- aortic stenosis 16- coarctation of the aorta 17- interrupted aortic arch 18- tricuspid atresia 19- Ebstein anomaly and tricuspid dysplasia		
20- pulmonary stenosis and atresia 21- Fallot complex 22- truncus arteriosus 23- Transposition of great vessels 24- Double outlet right ventricle 25- Situs anomalies(isomerism) 26- fetal cardiac tumors 27- cardiomyopathies	December 2025 to February 2026	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) – Monthly Workshop: (Saturday, 9:00 AM – 4:00 PM)

Year 2 : Fetal Neurology		
Topics	**Month**	**Activities**
1. Embryology 2. Anatomy 3. Physiology 4. Biometry of the fetal brain 5. Fetal brain ISUOG parts 1 & 2 6. 3D neurosonogram	March 2026 to May 2026	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) –
7. Cerebellum 8. Anomalies of dorsal induction (e.g., neural tube defects, Arnold-Chiari malformation) 9. Anomalies of ventral induction (e.g., holoprosencephaly, agenesis of corpus callosum) 10. Malformations of cortical development (e.g., microcephaly, lissencephaly, heterotopia) 11. Ventriculomegaly 12. Infections affecting the brain	June 2026 to August 2026	Monthly Workshop: (Saturday, (9:00 AM – 4:00 PM
13. Fetal stroke and destructive processes 14. Intracranial cysts 15. Metabolic disorders 16. Tumors 17. Eye and cerebral circulation 18. Craniofacial and vertebral anomalies	September 2026 to November 2026	Weekly Lectures: Tues/Thurs (10:00 AM – 1:00 PM) –
19. Fetal CNS MRI 20. Fetal surgery in CNS anomalies 21. First-trimester fetal brain 22. Neonatal neurology evaluation	December 2026 to February 2027	Monthly Workshop: (Saturday, (9:00 AM – 4:00 PM

instructors

1. Prof. Alaa Ebrashy.
2. Prof. Khaled Samir.
3. Dr. Aly Youssef.
4. Prof. Amal M Abd El latef.
5. Prof. Suzan bayoumy.
6. Prof. Hend Shalaby.
7. Dr. Lina Yousef.
8. Prof. Reda Abdelaziz.
9. Dr. Ilaria Bo.
10. Dr. Patricia Caldas.
11. Dr. Sahar Shaker Sheta.
12. Dr. Shady Saleem.
13. Prof. Reem S. Abu-Rustum.
14. Prof. Soha Talaat.
15. Dr. Parashant Acharya.
16. Prof. Veronica Frisova.
17. Prof. Yasser Sabr.
18. Dr. Samer Ahmed.
19. Dr. Robert Brawura Biskupski Semaha.
20. Dr. Ahmed Khalil.
21. Dr. Mahmoud Moussa.
22. Sahar H Abdulgha.
23. Dr. Houda Moustaide.
24. Dr. Rasha Abo Almagd.

Notes and Key Dates

- **Start Date**: March 13, 2025
- **End Date**: March 23, 2027
- **Lectures**: Tuesdays and Thursdays (10:00 AM – 1:00 PM)
- **Workshops**: One Saturday per month (9:00 AM – 4:00 PM)
- **Exams**:
    - Year 1 Midterm: September 15, 2025
    - Year 1 Final: February 20, 2026
    - Year 2 Midterm: September 15, 2026
    - Year 2 Final: February 20, 2027

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