Donald School Journal of Ultrasound in Obstetrics and Gynecology

1. Aims and Scope

The Donald School Journal of Ultrasound in Obstetrics and Gynecology publishes quality review articles of all aspects of ultrasound as it impacts diagnosis and management in the field. As the technology and its applications are constantly improving, there is a need for lifelong learning for all sonologists so that they can optimize their care of gynecologic, maternal and fetal patients on an ongoing basis.

The Ian Donald Inter-University School of Medical Ultrasound with its 50 active member nations is proud to support. The Donald School Journal of Ultrasound in Obstetrics and Gynecology and provide continuing medical education to sonologists throughout the world.

2. Ethical Considerations

Manuscripts submitted for publication must comply with the following ethical considerations:

Informed Consent
Informed consent of the patients must be taken before they are considered for participation in the study. Patient identifying information, such as names, initials, hospital numbers or photographs should not be included in the written descriptions. Patient consent should be obtained in written and archived with the authors.

Protection of Human Subjects and Animals in Research
When conducting experiments on human subjects, appropriate approval must have been obtained by the relevant ethics committees. All the procedures must be performed in accordance with the ethical standards of the responsible ethics committee both (institutional and national) on human experimentation and the Helsinki Declaration of 1964 (as revised in 2008). When reporting experiments on animals, authors must follow the institutional and national guidelines for the care and use of laboratory animals.

3. Copyright

Following guidelines must be followed before submission of the manuscript:

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## IAN DONALD SCHOOL COURSES IN 2013

<table>
<thead>
<tr>
<th>Date</th>
<th>City, Country Description</th>
<th>No. of participants</th>
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<tbody>
<tr>
<td>January 16-17</td>
<td>Tel-Aviv, Israel</td>
<td>170</td>
</tr>
<tr>
<td>February 2-3</td>
<td>Tirana, Albania</td>
<td>320</td>
</tr>
<tr>
<td>February 22</td>
<td>Khartoum, Sudan</td>
<td>800</td>
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<tr>
<td>February 27-March 1</td>
<td>Tomsk, Russia</td>
<td>420</td>
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<td>March 27-29</td>
<td>Bangkok, Thailand</td>
<td>312</td>
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<td>April 11-13</td>
<td>Asuncion, Paraguay</td>
<td>250</td>
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<tr>
<td>May 1-5</td>
<td>Cartagena, Colombia</td>
<td>300</td>
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<tr>
<td>May 3-5</td>
<td>Seoul, Korea</td>
<td>188</td>
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<tr>
<td>May 22-23</td>
<td>Cluj, Romania</td>
<td>440</td>
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<tr>
<td>May 27-29</td>
<td>Domus de Maria (Cagliari), Italy</td>
<td>540</td>
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<tr>
<td>June 18</td>
<td>St. Petersburg, Russia</td>
<td>102</td>
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<tr>
<td>June 19</td>
<td>Moscow, Russia</td>
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<tr>
<td>July 15-16</td>
<td>Guatemala</td>
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<td>July 27-28</td>
<td>Chakvi, Georgia</td>
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<tr>
<td>August 29-30</td>
<td>Kabul, Afghanistan</td>
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<tr>
<td>September 13-14</td>
<td>Honolulu, Hawaii, USA</td>
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<td>September 28-29</td>
<td>Ohrid, Macedonia</td>
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<td>October 1-2</td>
<td>Prizren, Kosovo</td>
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<td>October 11-12</td>
<td>Jakarta, Indonesia</td>
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<td>October 21-23</td>
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<td>November 1-3</td>
<td>Dubrovnik, Croatia</td>
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<td>November 9-10</td>
<td>Marioka, Japan</td>
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<td>November 29-30</td>
<td>Dubai, UAE</td>
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<td>December 3-4</td>
<td>Surgut, Russia</td>
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<td>December 6-8</td>
<td>Athens, Greece</td>
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<tr>
<td>December 13</td>
<td>Budapest, Hungary</td>
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Here are some photos taken during courses

Tel Aviv, Israel
January 16-17, 2013

Tirana, Albania
February 2-3, 2013

Bangkok, Thailand
February 27-29, 2013
Seoul, Korea
April 3-5, 2013

Asuncion, Paraguay
April 11-12, 2013

Cartagena, Colombia
May 1-5, 2013

Cluj, Romania
May 22-23, 2013
**ANNOUNCEMENT**

**Ian Donald School** (www.iandonaldschool.org)  
**Dubrovnik International University** (DIU) (www.diu.hr)  
**University of Rijeka** (www.uniri.hr)

in cooperation with

**Welcare Hospital** (Managed by EHL, A Member of Mediclinic International (www.welcarehospital.com), and Academic Teaching Hospital of DIU in Dubai, UAE) are planning to begin two specialized postgraduate courses in mid-November:

- Ultrasound in Obstetrics and Gynecology  
- Perinatal Medicine

<table>
<thead>
<tr>
<th><strong>Course Title</strong></th>
<th><strong>Ultrasound in Obstetrics and Gynecology</strong></th>
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<tr>
<td><strong>Type of the course</strong></td>
<td>University specialized Fellowship Program</td>
</tr>
<tr>
<td><strong>Duration of the course</strong></td>
<td>One academic year, two semesters</td>
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</tbody>
</table>
| **Course leaders** | Asim Kurjak, Professor, Zagreb, Croatia  
Frank Chervenak, Professor, New York, USA |
| **Faculties** | Aris Antsaklis, Greece  
Guillermo Azumendi, Spain  
Biserka Funduk Kurjak, Croatia  
Ulrich Honemeyer, UAE  
Sanja Kupesic Plavsic, USA  
Eberhard Merz, Germany  
Ritsuko Pooh, Japan  
Viatko Silobrcic, Croatia  
Milan Stanojevic, Croatia  
Ivica Zalud, USA |
| **Prerequisites** | Those with a diploma of completed education, residents or specialists of OB/GYN, license |
| **Syllabus outline** | The program consists of six obligatory and one elective modules as follow:  
• Obligatory module 1: Ultrasound in gynecology  
• Obligatory module 2: Ultrasound in the 1st trimester  
• Obligatory module 3: Fetal well being (fetal biometry and fetal growth)  
• Obligatory module 4: Fetal anatomy—placenta—umbilical cord  
• Obligatory module 5: Fetal congenital anomalies  
• Obligatory module 6: 3D and Doppler in gynecology and infertility  
• Elective module: How to write scientific texts? |
| **Objectives** | To gain the basic knowledge of ultrasound assessment in the field of obstetrics and gynecology |
| **Learning outcomes** | 1. Knowing how to use and adjust and being oriented with images produced by transabdominal and transvaginal US.  
2. Identifying and differentiating between normal and abnormal gynecological US examination.  
3. Identifying different pathology on pelvic US.  
4. Performing complete US examination in all trimesters of pregnancy.  
5. Learning how to write a comprehensive obstetric US report in the 1st, 2nd and 3rd trimesters of pregnancy.  
6. Performing a 1st trimester ultrasound scan.  
7. Performing a complete fetal anatomy scan in 2nd trimester of pregnancy.  
8. Recognizing fetal dysmorphism and knowing the significance of their presence.  
9. Assessing fetal well being. |

Contd...
10. Knowing how and when to use color Doppler in ob/gyn ultrasound.
11. Witnessing and getting acquainted by the invasive procedures in fetal medicine.
12. Witnessing and being acquainted for the 3D/4D US application in obstetrics and gynecology.

Learning and teaching methods
Each module is composed of the theoretical part and practical training (scanning demonstration and hands-on training which is almost 40% of the curriculum).
Each module delivers 50 hours of training including the theoretical and practical part.

Assessment
A comprehensive end of module exam will be given at the end of each module. After completion of each module, the fellow should present or send via e-mail the certificate proving attendance, which qualifies him/her to take the summative (final) exam. Final exam includes ultrasound skills exam, written essay and theoretical oral exam with committee of three examiners.

Student commitments
If some of the applicants do not complete the program within the defined period of time, they can continue in the next academic year. In these circumstances, they have to attend all the missing lectures and pass the separate exam and final exam.

Place of the realization of the program
Welcare Hospital, Dubai
Dubrovnik International University

Literature
Compulsory
5. Annual Subscription to Donald School Journal of Ultrasound in Obstetrics and Gynecology.

Optional

Total 300 hours of lectures, seminars and hands-on
ECTS 44.9

Course Title Perinatal Medicine
Type of the course University Specialized Fellowship Program
Duration of the course One academic year, two semesters
Course leaders Ivica Zalud, Professor, Honolulu, Hawaii, USA
Milan Stanojevic, Professor, Zagreb, Croatia

Faculties
Frank Chervenak, USA
Asim Kurjak, Croatia
Aris Antsaklis, Greece
Gian Carlo Di Renzo, Italy
Roberto Romero, USA
Joachim Dudenhauen, Germany
Isaaq Blickstein, Israel
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Ulrich Honemeyer, UAE
Oleg Petrovic, Croatia
Aleks Finderle,Croatia
Milan Stanojevic, Croatia

Contd...
Prerequisites

Those with a diploma of completed education, residents or specialists of Ob/Gyn, pediatrics, license

Syllabus outline

The program consists of six obligatory and two elective module as follows:

- Obligatory module 1: Organization, statistics, evidence-based medicine and research in perinatal care
- Obligatory module 2: Ethical and legal dimensions of perinatal care
- Obligatory module 3: Prevention, diagnosis and therapy in perinatal period
- Obligatory module 4: Ultrasound and Doppler diagnosis in perinatal medicine
- Obligatory module 5: Maternal disease affecting perinatal period
- Obligatory module 6: Basics of neonatology
- Elective module 1: Perinatal genetics
- Elective module 2: Preterm labor

Objectives

Postgraduate Fellowship program on ‘Perinatal Medicine’ is designed to broaden the knowledge and skills for obstetricians and pediatricians involved in delivery of perinatal health care. Besides the objectives to foster acquisition, integration and implementation of new knowledge and the newest technologies into all levels of perinatal health care, this program offers to participants the insight into many interdisciplinary problems in perinatal medicine like ethics, organization, statistics, molecular genetics and genomics, research and applied technology.

Learning outcomes

- Understand the concept of perinatal medicine and regionalization of perinatal care with levels of care. They should understand the meaning of follow-up of the outcome based on perinatal statistics with basic and advanced knowledge of definitions and indicators of the audit in perinatal medicine from obstetrical and neonatal point of view.
- Broaden the knowledge and consciousness of important ethical and legal issues in perinatal medicine in the decision-making process while caring for pregnant women and neonates at the limits of viability, those with severe congenital malformations and other life threatening disorders. They should also understand the role of ethics committee and patient counseling.
- Become aware of the stepwise analysis during prenatal and postnatal decision-making process when making the diagnosis and differential. They will be given means to understand the most important diseases pre- and postnatally, to diagnose, to prevent and to treat them.
- Be able to understand the concept and to recognize five great obstetrical syndromes (pre-eclampsia, premature labor, placental abruption, premature rupture of membranes and fetal growth retardation) and will be given state of the art and the most recent information on all of them.
- Be aware that most diseases must be identified early enough to allow intervention and prevention not only of the clinical manifestation of disease but also of the long-term handicaps it may cause.
- Be informed about diagnostic value of transabdominal and transvaginal ultrasound in perinatal medicine. Be able to perform independently complete ultrasound examination in all trimesters of pregnancy. Be skilled in 1st trimester ultrasound scan and complete fetal anatomy scan in the 2nd and the 3rd trimesters of pregnancy.
- Recognize fetal dysmorphology by ultrasound and know the significance of presence of congenital malformations.
- Assess fetal well being and know how and when to use color Doppler in obstetrics.
- Witness and become acquainted with invasive procedures in fetal medicine.
- Witness and become acquainted with 3D/4D ultrasound application in obstetrics.
- Be informed and understand the meaning of intruterine growth restriction from obstetrical and neonatological point of view, with special emphasis on prenatal origin of adult disease (Barker hypothesis).
- Understand the causes of preterm delivery with consequences for the mother, baby and the society.
- Understand why multiple pregnancies are high-risk pregnancies and how to manage them prenatally, intrapartum and postnatally.
- Be informed about the management of labor and delivery with the concept of natural versus programmed labor, with special emphasis on normal and abnormal process of labor and delivery, intrapartum follow-up of fetal well being, and the criteria of fetal distress and hypoxia during delivery.
- Be acquainted with the most common maternal diseases during preconception, pregnancy, delivery and puerperium, such as diabetes mellitus, thyroid disease in pregnancy, preexisting- and pregnancy-induced hypertension with special forms like HELLP syndrome, uterine structural anomalies and their impact on pregnancy outcome, thrombophilia, collagen disorders and many more.

Contd...
• Beas obstetricians-educated in neonatology about basic neonatal problems.
• Beas pediatricians-competent in neonatology at subspecialty level.
• Beas neonatologists-capable of providing best care for newborn infants in primary, secondary
  and tertiary care, including intensive care of highest standard for critically sick neonates and
  very low birth weight infants using advanced therapeutic and supportive modalities and skills.
  Effectively plan therapeutic, rehabilitative, preventive and promotive measures or strategies.
• Make rationale decision in the face of ethical dilemmas in perinatal and neonatal diseases.
• Demonstrate empathy and humane approach toward patients and their families and exhibit
  interpersonal behavior in accordance with social norms and expectations.
• Exhibit excellent communication skills in dealing with parents and practice compassionate attitude
  in the field of neonatology.
• Implement a comprehensive follow-up and early intervention program for the ‘at risk’ newborn
  infants, and plan, counsel and advice rehabilitation of the neurodevelopmentally and physically
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1. Waldo Sepulveda, Chile: The assessment of normal and abnormal fetal anatomy in early pregnancy
2. Ritsuko K Pooh, Japan: Structural assessment of normal and abnormal fetal brain development
3. Asim Kurjak, Milan Stanojevic, Croatia: Functional test for fetal brain—the role of KANET test
4. Eberhard Merz, Germany: Current role of 3D sonography in obstetrics and gynecology
5. Alexandra Matias, Portugal: Ductus venosus in twins
6. Ivica Zalud, USA: Doppler ultrasound in obstetrics and gynecology. State of the art
7. Veljko Vlaisavljevic, Slovenia: Ultrasound in human reproduction
8. Sanja Kupesic Plasics, USA: Advances in gynecological oncology
9. Ruben Quintero, USA: Current aspect of fetal therapy
10. Carmina Comas, Spain: Non-invasive prenatal testing for fetal aneuploidy
11. Aris Antsaklis, Greece: Assessment and management of multiple pregnancy
12. Giovanni Monni, Italy: Diagnostic invasive procedures in obstetrics
13. Ulrich Honemeyer, UAE: 3D Power Doppler in ectopic pregnancy
14. Giampaolo Mandruzzato, Italy: IUGR – past, present and future
15. Gian Carlo Di Renzo, Italy: Fetal hemodynamics and umbilical cord pathologies

Afternoon Session

1. Jaideep Malhotra, India: Screening for birth defects strategies for developing low resource countries
2. Jaideep Malhotra, India: Rational use of ultrasound in infertility
3. Narendra Malhotra, India: Fetal origin of adult disease
4. Yaron Zalel, Israel: Structural anomalies in the assessment of chromosomal abnormalities
5. Miroslaw Wielgos, Poland: Intrauterine transfusions in FHD—when and how?
6. Vincenzo D’Addario, Italy: Late onset brain anomalies
7. Zoltan Papp, Hungary: Quality control of obstetric and gynecologic ultrasound in Hungary: Education and expectations
8. Tuangsit Wataganara, Thailand: Harmonious application of fetal ultrasound and MRI
9. Ana Bianchi, Uruguay: Cardiopathies the very difficult diagnosis
10. Anton Mikhailov, Russia: Doppler ultrasound for fetal state assessment in different stages of pregnancy
12. Snezana Crnogorac, Montenegro: Ultrasound versus magnetic resonance in the assessment of CNS anomalies
13. Alaa Ebrashy, Egypt: Fetal heart assessment, reality or myth?
14. Mohammad Hashim Wahaaj, Afghanistan: Ultrasound training in Afghanistan
15. Wolfgang Holzgreve, Germany: Non-invasive prenatal diagnosis from maternal blood—finally available after 20 years of research
The Ian Donald School is designed to address the needs of a clinician who has some experience in diagnostic ultrasound, but needs additional knowledge and practice in recent sonographic developments in both obstetrics and gynecology.
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