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 fifty 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.

Protection of Human Subjects and Animals in Research
When conducting experiments on human subjects, appropriate approval must have been obtained by the relevant ethics committee. 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:

The articles must represent original research material, should not have been published before, and should not be under consideration of publication elsewhere. This however does not include previous publication in form of an abstract or as part of published literature (review or thesis). It is the duty of the author to obtain the necessary permissions for extensive quotations, tables, illustrations, or any other copyrighted material they are using in the paper before a paper can be considered for publication. Copyright of the article gets transferred to Jaypee Brothers, once the article has been accepted for publication. The author would be asked to sign the "Copyright Transfer Form" before his/her article is considered for publication. Once the Copyright Transfer statement has been signed by the corresponding author, no change in authorship or in the order of the authors listed on the article would be accepted by Jaypee Brothers. Also by signing the above mentioned form, the author reassigns the rights of copublishing, or translation if considered necessary in future to the publisher. In the advent of occurrence of any dispute, the matter would be resolved within the jurisdiction of New Delhi court.

While all care has been taken to provide accurate and correct information in accordance with the date of publication, neither the authors, editors nor the publisher takes any legal responsibility for any unintentional omission or error. The publisher makes no expressed or implied warranty with respect to the information contained herein. The published material cannot be photocopied for the following purposes: general distribution, promotion, new works or resale. If this is required, specific written permission requires to be obtained from the publisher. Exclusive rights to reproduce and distribute the articles in this journal have been protected by copyright. This also covers the rights to reproduce or distribute the article as well as the translation rights. No material published in this journal can be reproduced in digital format or stored in form of electronic databases, video disks, etc.

Both the conflict of interests and financial disclosure needs to be handled well while conducting the research study. Disclosure of such relationships is also important in connection with all articles submitted for publication. Both of these have also been included in the copyright transfer form. Authors should give due acknowledgement to the individuals who provide writing or other assistance while conducting the research study and also disclose the funding source for the research study.

4. Subscription Information

ISSN 0973-614X
eISSN 0975-1912

• Subscription rates
For information on subscription rates and the other journal related enquiries please contact: journals@jaypeebrothers.com

• Orders
Journals Department
Jaypee Brothers Medical Publishers (P) Ltd.
4838/24, Ansari Road, Daryaganj
New Delhi 110 002, India
Phone: +91-11-4357 4357
Fax: +91-11-4357 4314
e-mail: subscriptions@jaypeebrothers.com

Back volumes. Prices are available on request.

5. Electronic Media

An electronic edition of this journal is available at www.jaypeejournals.com
Manuscripts can be submitted online at www.dsjuog.com

6. Advertisement

For advertisement queries please contact:
Journals Department
Jaypee Brothers Medical Publishers
e-mail: abhinav.kumar@jaypeebrothers.com
rakesh.sheoran@jaypeebrothers.com

For any queries regarding online submission, please e-mail us at: help-desk@jaypeejournals.com

The Journal is printed on acid free paper.

Copyright
© Jaypee Brothers Medical Publishers (P) Ltd.
www.jaypeebrothers.com
www.jaypeejournals.com
Every successful nation on the earth has realized that education is a vital investment in the national economy. Today, lifelong learning is an essential component of all aspects of education. The increased speed of the new knowledge acquired has forced us to divide learning into shorter and novel phases. The traditional structured choreography of the educational process with rigid definition is no longer sufficient to compete and succeed in the modern world.

In medicine generally, and obstetric and gynecologic ultrasound specifically, the speed of new knowledge growth has been and will continue to be astounding. Within one generation, ultrasound has progressed from a research tool to become a vital component of virtually all aspects of obstetrics and gynecology. A sonologist needs to keep pace with the evolving knowledge so that he or she can act confidently, responsibly and effectively in the clinical setting to serve the needs of pregnant, fetal and gynecologic patients.

The Donald School Journal of Ultrasound in Obstetrics and Gynecology can serve as an important component to the lifelong learning of the practitioner of ultrasound by providing state-of-the-art practical information, which can be used in everyday practice. Our journal covers not only standard topics but also controversial and timely ones as well so that reader is knowledgeable about the depth and breath of our field.

We are indebted to board members of the Ian Donald Inter-University School who serve as the teaching nucleus of our journal. They serve as the editorial board and spend many hours on writing and soliciting timely articles and providing important peer review. Last year over 4,000 students attended Ian Donald courses throughout the world and 72 finished one-year fellowship program in ultrasound training achieving a masters degree in ultrasound in Doha, Dubai and Khartoum. Our publisher, Jaypee Brothers, is outstanding both in terms of quality and cost effectiveness. Because of this outstanding team, the time from submission to publication is rapid; 90% of accepted articles are published within four months of submission: a benchmark for the industry.

The future of the journal is especially bright because of the hard work and innovation of some gifted individuals. Sanja Kupesic has published the Donald School Video Atlas of Ultrasound in Obstetrics and Gynecology and she will soon start a distance learning process. Our website has been launched due to the hard work of Ivica Zalud, Shelby Wong and Jadranka Cerovec.

In closing, lifelong learning is a privilege, not a chore, of every sonologist and sonographer. Our journal is proud to assist all in this important activity.

Asim Kurjak
Frank A Chervenak
# IAN DONALD SCHOOL DIRECTORS

<table>
<thead>
<tr>
<th>School Directors</th>
<th>Country</th>
<th>e-mail address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asim Kurjak</td>
<td>Croatia</td>
<td><a href="mailto:asim.kurjak@public.carnet.hr">asim.kurjak@public.carnet.hr</a></td>
</tr>
<tr>
<td>Frank A Chervenak</td>
<td>USA</td>
<td><a href="mailto:fac2001@med.cornell.edu">fac2001@med.cornell.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Executive Board</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ritsuko K Pooh</td>
<td>Japan</td>
<td><a href="mailto:rkpooh@me.com">rkpooh@me.com</a></td>
</tr>
<tr>
<td>Ivica Zalud</td>
<td>USA</td>
<td><a href="mailto:ivica.zalud@gmail.com">ivica.zalud@gmail.com</a></td>
</tr>
<tr>
<td>Sanja Kupesic</td>
<td>USA</td>
<td><a href="mailto:sanja.kupesic@ttuhsc.edu">sanja.kupesic@ttuhsc.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Co-Directors</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Jose Maria Carrera</td>
<td>Spain</td>
<td><a href="mailto:jmccarrera@matres-mundi.org">jmccarrera@matres-mundi.org</a></td>
</tr>
<tr>
<td>Wolfgang Holzgreve</td>
<td>Germany</td>
<td><a href="mailto:wolfgang@holzgreve.net">wolfgang@holzgreve.net</a></td>
</tr>
<tr>
<td>Kazuo Maeda</td>
<td>Japan</td>
<td><a href="mailto:maedak@mocha.ocn.ne.jp">maedak@mocha.ocn.ne.jp</a></td>
</tr>
<tr>
<td>Giampaolo Mandruzzato</td>
<td>Italy</td>
<td><a href="mailto:mandruzzatogiampaolo@tin.it">mandruzzatogiampaolo@tin.it</a></td>
</tr>
<tr>
<td>Joachim Dudenhausen</td>
<td>Germany</td>
<td><a href="mailto:joachim.dudenhausen@charite.de">joachim.dudenhausen@charite.de</a></td>
</tr>
<tr>
<td>Gian Carlo Di Renzo</td>
<td>Italy</td>
<td><a href="mailto:direnzo@unipg.it">direnzo@unipg.it</a></td>
</tr>
<tr>
<td>Aris Antsaklis</td>
<td>Greece</td>
<td><a href="mailto:arisants@otenet.gr">arisants@otenet.gr</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Directors/Secretaries of National Branches</th>
<th>Country</th>
<th>e-mail address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sameer Abdullah</td>
<td>Saudi Arabia</td>
<td><a href="mailto:samirabdullah@hotmail.com">samirabdullah@hotmail.com</a></td>
</tr>
<tr>
<td>Abbas Aflatoonian</td>
<td>Iran</td>
<td><a href="mailto:abbas_aflatoonian@yahoo.com">abbas_aflatoonian@yahoo.com</a></td>
</tr>
<tr>
<td>Muna Al Kuwari/Ulrich Honemeyer</td>
<td>Dubai, UAE</td>
<td><a href="mailto:muna.alkuwari@yahoo.com">muna.alkuwari@yahoo.com</a>/ulrich@welcarehospital.com</td>
</tr>
<tr>
<td>Magdy Alfaramawi</td>
<td>Abu Dhabi, UAE</td>
<td><a href="mailto:magdy205@hotmail.com">magdy205@hotmail.com</a></td>
</tr>
<tr>
<td>Nelson Aguilar</td>
<td>Colombia</td>
<td><a href="mailto:nelsonyesid@gmail.com">nelsonyesid@gmail.com</a></td>
</tr>
<tr>
<td>Badreldeen Ahmed</td>
<td>Qatar</td>
<td><a href="mailto:profbadreldeen@hotmail.com">profbadreldeen@hotmail.com</a></td>
</tr>
<tr>
<td>Saadia Amour Sultan (Al Riyami)/ Kanchana Rajan</td>
<td>Oman</td>
<td><a href="mailto:saadiariyami@hotmail.com">saadiariyami@hotmail.com</a>/raajaan@omantel.net.om</td>
</tr>
<tr>
<td>Aris Antsaklis</td>
<td>Greece</td>
<td><a href="mailto:arisants@otenet.gr">arisants@otenet.gr</a></td>
</tr>
<tr>
<td>Ana Bianchi</td>
<td>Uruguay</td>
<td><a href="mailto:abianchi@asesp.com.uy">abianchi@asesp.com.uy</a></td>
</tr>
<tr>
<td>Carmina Comas/Bernat Serra</td>
<td>Spain</td>
<td><a href="mailto:carcom@dexeus.com">carcom@dexeus.com</a>/BERSER@dexeus.com</td>
</tr>
<tr>
<td>Pavel Calda</td>
<td>Czech Republic</td>
<td><a href="mailto:calda@gynstart.cz">calda@gynstart.cz</a></td>
</tr>
<tr>
<td>Vincenzo D’Addario/Giovanni Monni</td>
<td>Italy</td>
<td><a href="mailto:v.daddario@gynecology4.uniba.it">v.daddario@gynecology4.uniba.it</a>/prenatalmonni@tiscal.i.it</td>
</tr>
<tr>
<td>Tony Duan/Chen Min</td>
<td>China</td>
<td><a href="mailto:tduan@yahoo.com">tduan@yahoo.com</a>/chenm@cuhk.edu.hk</td>
</tr>
<tr>
<td>Alaa Ebrashy</td>
<td>Egypt</td>
<td><a href="mailto:ebrashy3@yahoo.com">ebrashy3@yahoo.com</a></td>
</tr>
<tr>
<td>Jadranka Dzdarevic</td>
<td>Bosnia and Herzegovina</td>
<td><a href="mailto:jadranka.dzdarevic@gmail.com">jadranka.dzdarevic@gmail.com</a></td>
</tr>
<tr>
<td>Orion Gliozheni</td>
<td>Albania</td>
<td><a href="mailto:glierion@icc-al.org">glierion@icc-al.org</a></td>
</tr>
<tr>
<td>Alfredo Guzman</td>
<td>Peru</td>
<td><a href="mailto:alfredoguz@gmail.com">alfredoguz@gmail.com</a></td>
</tr>
<tr>
<td>Tze Kin Lau</td>
<td>Hong Kong</td>
<td><a href="mailto:tzekinlau@cuhk.edu.hk">tzekinlau@cuhk.edu.hk</a></td>
</tr>
</tbody>
</table>

Contd...
<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aleksandar Ljubic</td>
<td>Serbia</td>
<td><a href="mailto:gakljubic@gmail.com">gakljubic@gmail.com</a></td>
</tr>
<tr>
<td>Ritsuko K Pooh</td>
<td>Japan</td>
<td><a href="mailto:rkooh@me.com">rkooh@me.com</a></td>
</tr>
<tr>
<td>Abdal-Latif Ashmaig Khalifa</td>
<td>Sudan</td>
<td><a href="mailto:profashaig@hotmail.com">profashaig@hotmail.com</a></td>
</tr>
<tr>
<td>Narendra Malhotra</td>
<td>India</td>
<td><a href="mailto:Mnmhagra3@gmail.com">Mnmhagra3@gmail.com</a></td>
</tr>
<tr>
<td>Berivoj Miskovic/Oliver Vasilj</td>
<td>Croatia</td>
<td><a href="mailto:berivoj.miskovic@gmail.com">berivoj.miskovic@gmail.com</a>/oliver.vasilj@gmail.com</td>
</tr>
<tr>
<td>Anton Mikhailov</td>
<td>Russia</td>
<td><a href="mailto:amikhailov@AM2697.spb.edu">amikhailov@AM2697.spb.edu</a></td>
</tr>
<tr>
<td>Alexander Papitashvili</td>
<td>Georgia</td>
<td><a href="mailto:ampsmpge@hotmail.com">ampsmpge@hotmail.com</a></td>
</tr>
<tr>
<td>Zoltan Papp</td>
<td>Hungary</td>
<td><a href="mailto:Pz@noi1.sote.hu">Pz@noi1.sote.hu</a></td>
</tr>
<tr>
<td>Azen Salim</td>
<td>Indonesia</td>
<td><a href="mailto:azen364@msn.com">azen364@msn.com</a></td>
</tr>
<tr>
<td>Cihat Sen/Murat Yayla</td>
<td>Turkey</td>
<td><a href="mailto:csen@perinatology.org.tr">csen@perinatology.org.tr</a>/myayla99@yahoo.com</td>
</tr>
<tr>
<td>Florin Stamatian/Radu Vladareanu</td>
<td>Romania</td>
<td><a href="mailto:florin_stamatian@yahoo.com">florin_stamatian@yahoo.com</a>/vladareanu@gmail.com</td>
</tr>
<tr>
<td>Yuriy P Vdovichenko/Andrew Tkachenko</td>
<td>Ukraine</td>
<td><a href="mailto:vdvovichenko@perinatalog.com.ua">vdvovichenko@perinatalog.com.ua</a>/avt@perinatalog.com.ua</td>
</tr>
<tr>
<td>Veljko Vlaisavljevic</td>
<td>Slovenia</td>
<td><a href="mailto:vlai@ukc-mb.si">vlai@ukc-mb.si</a></td>
</tr>
<tr>
<td>Liliana Voto</td>
<td>Argentina</td>
<td><a href="mailto:lvoto@inframed.net">lvoto@inframed.net</a></td>
</tr>
<tr>
<td>Miroslaw Wielgos</td>
<td>Poland</td>
<td><a href="mailto:miroslaw.wielgos@wum.edu.pl">miroslaw.wielgos@wum.edu.pl</a></td>
</tr>
<tr>
<td>Ivica Zalud/Raydeen Busse</td>
<td>USA</td>
<td><a href="mailto:ivica.zalud@gmail.com">ivica.zalud@gmail.com</a>/hawaiiwellness@hawaii.rr.com</td>
</tr>
<tr>
<td>Roberto Cassis Martinez</td>
<td>Ecuador</td>
<td><a href="mailto:cassisma@porta.net">cassisma@porta.net</a></td>
</tr>
<tr>
<td>Hari Kishor Shrestha</td>
<td>Nepal</td>
<td><a href="mailto:omhrc@wlink.com.np">omhrc@wlink.com.np</a></td>
</tr>
<tr>
<td>Eberhard Merz</td>
<td>Germany</td>
<td><a href="mailto:emerz@mail.uni-mainz.de">emerz@mail.uni-mainz.de</a></td>
</tr>
<tr>
<td>Yves Ville</td>
<td>France</td>
<td><a href="mailto:ville.yves@gmail.com">ville.yves@gmail.com</a></td>
</tr>
<tr>
<td>Farah Sulaiman Youssif</td>
<td>Bahrein</td>
<td><a href="mailto:farahnuaimy@yahoo.com">farahnuaimy@yahoo.com</a></td>
</tr>
<tr>
<td>Alexandra Matias</td>
<td>Portugal</td>
<td><a href="mailto:almatias@mail.telepac.pt">almatias@mail.telepac.pt</a></td>
</tr>
<tr>
<td>Francisco Filho Mauad</td>
<td>Brazil</td>
<td><a href="mailto:fmn@ultra-sonografia.com.br">fmn@ultra-sonografia.com.br</a></td>
</tr>
<tr>
<td>Syed Amir Gilani</td>
<td>Pakistan</td>
<td><a href="mailto:profgilani@gmail.com">profgilani@gmail.com</a></td>
</tr>
<tr>
<td>Snezana Cmogorac</td>
<td>Montenegro</td>
<td><a href="mailto:snezana_cg@yahoo.com">snezana_cg@yahoo.com</a></td>
</tr>
<tr>
<td>Karl Erwin Schweinfurth Alvarado</td>
<td>Honduras</td>
<td><a href="mailto:karlerwin@yahoo.com">karlerwin@yahoo.com</a></td>
</tr>
<tr>
<td>Miguel Antonio Ruoti Cosp</td>
<td>Paraguay</td>
<td><a href="mailto:mruoticosp@gmail.com">mruoticosp@gmail.com</a></td>
</tr>
<tr>
<td>Corazon Yabes-Almirante</td>
<td>Philippines</td>
<td><a href="mailto:Cora313@yahoo.com">Cora313@yahoo.com</a></td>
</tr>
<tr>
<td>Mohammad Hashim Wahaaj</td>
<td>Afghanistan</td>
<td><a href="mailto:wahaajhospital@yahoo.com">wahaajhospital@yahoo.com</a></td>
</tr>
<tr>
<td>Abdallah Adra</td>
<td>Lebanon</td>
<td><a href="mailto:adramfm@inco.com.lb">adramfm@inco.com.lb</a></td>
</tr>
<tr>
<td>Mohamed S Elmahaishi</td>
<td>Libya</td>
<td><a href="mailto:elmahaishi@elmahaishi.com">elmahaishi@elmahaishi.com</a></td>
</tr>
<tr>
<td>Fawaz Alkazaleh</td>
<td>Jordan</td>
<td><a href="mailto:fawaz_obgyn@yahoo.com">fawaz_obgyn@yahoo.com</a></td>
</tr>
<tr>
<td>Ha To Nguyen/Pham Viet Thanh</td>
<td>Vietnam</td>
<td><a href="mailto:hatonguyen@gmail.com">hatonguyen@gmail.com</a>/bvtudu@hcm.vnn.vn</td>
</tr>
<tr>
<td>Monica Ferchiou Cherif/Mounira Nouri Chaabane</td>
<td>Tunisia</td>
<td><a href="mailto:moniaferchiou@yahoo.fr">moniaferchiou@yahoo.fr</a>/mounira.chaabane@ms.tn</td>
</tr>
<tr>
<td>Tuangsit Watakanara</td>
<td>Thailand</td>
<td><a href="mailto:twataganara@yahoo.com">twataganara@yahoo.com</a></td>
</tr>
<tr>
<td>Ruben Quintero</td>
<td>USA</td>
<td><a href="mailto:yvrq@aol.com">yvrq@aol.com</a></td>
</tr>
<tr>
<td>Administrative Secretary of the School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jadranka Cerovec</td>
<td>Croatia</td>
<td><a href="mailto:jadranka.cerovec@yahoo.com">jadranka.cerovec@yahoo.com</a></td>
</tr>
</tbody>
</table>
Courses and Workshops held in 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>City, Country</th>
<th>No. of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 11-12</td>
<td>Jakarta, Indonesia</td>
<td>240</td>
</tr>
<tr>
<td>March 12-13</td>
<td>Bari, Italy</td>
<td>200</td>
</tr>
<tr>
<td>March 17-18</td>
<td>Manila, Philippines</td>
<td>176</td>
</tr>
<tr>
<td>April 22-23</td>
<td>Zawia, Libya</td>
<td>350</td>
</tr>
<tr>
<td>June 10-11</td>
<td>Abu Dhabi, UAE</td>
<td>150</td>
</tr>
<tr>
<td>July 8</td>
<td>Lahore, Pakistan</td>
<td>154</td>
</tr>
<tr>
<td>August 27-28</td>
<td>Asuncion, Paraguay</td>
<td>150</td>
</tr>
<tr>
<td>August 30-31</td>
<td>Montevideo, Uruguay</td>
<td>120</td>
</tr>
<tr>
<td>September 10-11</td>
<td>Porto, Portugal</td>
<td>120</td>
</tr>
<tr>
<td>September 17</td>
<td>Mumbai, India</td>
<td>349</td>
</tr>
<tr>
<td>September 22</td>
<td>Barcelona, Spain</td>
<td>60</td>
</tr>
<tr>
<td>October 9</td>
<td>Kathmandu, Nepal</td>
<td>100</td>
</tr>
<tr>
<td>October 15-16</td>
<td>Dubai, UAE</td>
<td>55</td>
</tr>
<tr>
<td>October 31</td>
<td>Dhakka, Bangladesh</td>
<td>450</td>
</tr>
<tr>
<td>November 8-9</td>
<td>Warsaw, Poland</td>
<td>350</td>
</tr>
<tr>
<td>November 11-13</td>
<td>Beirut, Lebanon</td>
<td>272</td>
</tr>
<tr>
<td>November 11-14</td>
<td>Asuncion, Paraguay</td>
<td>95</td>
</tr>
<tr>
<td>November 17-19</td>
<td>Guayaquil, Ecuador</td>
<td>275</td>
</tr>
<tr>
<td>December 3-4</td>
<td>Dubai, UAE (Workshop)</td>
<td>12</td>
</tr>
<tr>
<td>December 4-5</td>
<td>Hamamatsu, Japan</td>
<td>227</td>
</tr>
<tr>
<td>December 11</td>
<td>Budapest, Hungary</td>
<td>80</td>
</tr>
<tr>
<td>December 14-15</td>
<td>Doha, Qatar</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>4105</td>
</tr>
</tbody>
</table>
# IAN DONALD SCHOOL COURSES IN 2011

<table>
<thead>
<tr>
<th>Date</th>
<th>City, Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 28-29</td>
<td>Honolulu, Hawaii</td>
</tr>
<tr>
<td>February 22-23</td>
<td>Khartoum, Sudan</td>
</tr>
<tr>
<td>March 11-13</td>
<td>Ho Chi Minh City, Vietnam</td>
</tr>
<tr>
<td>March</td>
<td>Belgrade, Serbia</td>
</tr>
<tr>
<td>May 5-8</td>
<td>Dubrovnik, Croatia</td>
</tr>
<tr>
<td>May 8-10</td>
<td>Budva, Montenegro</td>
</tr>
<tr>
<td>May 18-21</td>
<td>Bucharest, Romania</td>
</tr>
<tr>
<td>May 29-31</td>
<td>Villasimius, Italy</td>
</tr>
<tr>
<td>June 10-12</td>
<td>Tirana, Albania</td>
</tr>
<tr>
<td>July 28-29</td>
<td>Kabul, Afghanistan</td>
</tr>
<tr>
<td>September 15</td>
<td>New Delhi/Mumbai, India</td>
</tr>
<tr>
<td>September 16-17</td>
<td>Kathmandu, Nepal</td>
</tr>
<tr>
<td>October 7-8</td>
<td>Prague, Czech Republic</td>
</tr>
<tr>
<td>October 8-9</td>
<td>Osaka, Japan</td>
</tr>
<tr>
<td>November 8-11</td>
<td>Punta del Este, Uruguay</td>
</tr>
<tr>
<td>December 1-2</td>
<td>Istanbul, Turkey</td>
</tr>
<tr>
<td>December 10-11</td>
<td>Athens, Greece</td>
</tr>
<tr>
<td>December 16-17</td>
<td>Tbilisi, Georgia</td>
</tr>
</tbody>
</table>
Global Congress

RECENT ADVANCES IN ULTRASOUND DIAGNOSIS IN OBSTETRICS AND GYNECOLOGY
May 5-6, 2011—Rixos Libertas Dubrovnik Hotel

IAN DONALD NEONATAL SCHOOL OF ULTRASOUND
May 6, 2011—Inter-University Center Dubrovnik

ERICH SALING WORLD SCHOOL OF PERINATAL MEDICINE
May 7, 2011—Rixos Libertas Dubrovnik Hotel

PROGRAM

Rixos Libertas Dubrovnik Hotel
Dubrovnik, Croatia

Under the auspices of Ms Jadranka Kosor, Prime Minister of Croatia
Welcome by School Directors

We live in a troubled world in which national, cultural, religious and political differences separate people, sometimes to the point of disastrous wars. With all that mankind has achieved, it is amazing that such parochial differences continue to do so much harm. There is much that the leaders of the world can learn from the global success of the Ian Donald Inter-University School of Ultrasound.

This school is a living tribute to Ian Donald—the visionary physician who pioneered ultrasound in obstetrics and gynecology. The school is dedicated to the improvement of all aspects of perinatal and gynecologic care. The discovery of ultrasound has enabled us to see and care for the fetus as a patient as well as visualize pelvic organs noninvasively, and has therefore brought obstetric and gynecologic diagnosis out of the dark ages. It has been suggested with very little exaggeration that the three greatest contributions to modern obstetrics and gynecology have been ultrasound, ultrasound and ultrasound.

Our school is based upon state-of-the-art science as well as a collegiality that transcends national, cultural, religious and political differences. Teachers and students alike are united in our efforts to improve the care of women throughout the world. The international brotherhood and sisterhood that exists among physician leaders from over 50 of the world's countries is a special bond that represents globalization at its best. Instructors donate their time without reimbursement as their educational efforts are truly a labor of love.

We are grateful to all national directors who have given so much of themselves to make the Ian Donald Inter-University School of Ultrasound a testament to the power of the human spirit to work collaboratively throughout the world for the betterment of mankind.

The School was born 30 years ago in Dubrovnik, the most beautiful Mediterranean city. But “Dubrovnik” is not a mere word or just a name of a town, Dubrovnik connotes the spirit, the harmony, the culture and the moral integrity which is exemplary of its existence for over a millennium. Dubrovnik has long represented artistic beauty, libertarian thought, humanistic principles and, above all, the dignity and freedom of the human spirit.

Welcome to this unique city, with its glorious past, beautiful present and auspicious future, perfect venue to celebrate the 30th anniversary of our School, a success story in globalized medicine.

Asim Kurjak
Frank A Chervenak
Ian Donald Inter-University School of Medical Ultrasound

School Directors
Asim Kurjak (Croatia)
Frank A Chervenak (USA)

Executive Board
Sanja Kupesic (USA)
Ritsuko K Pooh (Japan)
Ivica Zalud (USA)

Co-Directors
Aris Antsaklis (Greece)
Jose Maria Carrera (Spain)
Gian Carlo Di Renzo (Italy)
Joachim Dudenhausen (Germany)
Wolfgang Holzgreve (Germany)
Kazuo Maeda (Japan)
Giampaolo Mandruzzato (Italy)

Directors/Secretaries of National Branches
Sameer Abdullah (Saudi Arabia), Abbas Aflatoonian (Iran), Nelson Aguilar (Colombia)
Badredeen Ahmed (Qatar), Muna Al Kuwari/Ulrich Honemeyer (Dubai, UAE)
Magdy Alfaramawi (Abu Dhabi, UAE), Saadia Amour Sultan (Al Riyami/Kanchana Rajan (Oman)
Aris Antsaklis (Greece), Ana Bianchi (Uruguay), Pavel Calda (Czech Republic)
Sanja Kupesic (USA), Ritsuko K Pooh (Japan), Vincenzo D’Addario/Giovanni Monni (Italy)
Tony Duan/Chen Min (China), Alaa Ebrashy (Egypt), Jadranka Dizdarevic (Bosnia and Herzegovina)
Orion Gliozheni (Albania), Alfredo Guzman (Peru), Tze Kin Lau (Hong Kong), Aleksandar Ljubic (Serbia)
Ritsuko K Pooh (Japan), Abdal-Latif Ashmaig Khalifa (Sudan), Narender Malhotra (India)
Berivoj Miskovic/Oliver Vasilij (Croatia), Anton Mikhailov (Russia), Alexander Papitashvili (Georgia)
Zoltan Papp (Hungary), Azen Salim (Indonesia), Cihat Sen/Murat Yayla (Turkey)
Florin Stamavian/Radu Vladareanu (Romania), Yuriy P Vdovychenko/Andrew Tkachenko (Ukraine)
Veljko Vlaisavljevic (Slovenia), Liliana Voto (Argentina), Miroslaw Wielgos (Poland)
Ivica Zalud/Raydeen Busse (USA), Roberto Cassis Martinez (Ecuador), Hari Kishor Shreshtha (Nepal)
Eberhard Merz (Germany), Yves Ville (France), Farah Sulaiman Youssif (Bahrain)
Alexandra Matias (Portugal), Francisco Filho Mauad (Brazil), Syed Amir Gilani (Pakistan)
Snezana Crnogorac (Montenegro), Karl Erwin Schweinfurth Alvarado (Honduras)
Miguel Antonio Ruoti Cosp (Paraguay), Corazon Yabes-Almirante (Philippines)
Mohammad Hashim Wahaaj (Afghanistan), Abdallah Adra (Lebanon)
Mohamed S Elmehaishi (Libya), Fawaz Alkazaleh (Jordan), Ha to Nguyen/Pham Viet Thanh (Vietnam)
Monia Ferchiou Cherif/Mounira Nouri Chaabane (Tunisia), Tuangsit Watanagara (Thailand)
Ruben Quintero (Miami, USA)

Objectives of the School

To promote:
- The science and art of ultrasound scanning
- Research and education in the field of medical ultrasound
- Continuous training in ultrasound
- And facilitate the dissemination of information, especially by scientific publications, including Donald School Journal of Ultrasound in Obstetrics and Gynecology.

To provide:
- Expert advice to those entering the field of ultrasound.

To increase:
- Knowledge of methodology for implementing recent ultrasound advances.

To contribute:
- To the improvement of teaching standards by the introduction of computer technology and devices for telemedicine.

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.
On the occasion of 30th anniversary of Ian Donald School

Global Congress

RECENT ADVANCES IN ULTRASOUND DIAGNOSIS IN OBSTETRICS AND GYNECOLOGY

PROGRAM

Thursday, May 5, 2011

09:00-11:00

KEYNOTE LECTURES I (20 minutes)
Chair persons: Aris Antsaklis (Greece) and Asim Kurjak (Croatia)
- Asim Kurjak (Croatia), Frank A Chervenak (USA): First 30 years
- Eberhard Merz (Germany): 3D/4D imaging of the fetal face
- Aris Antsaklis (Greece): Skeletal dysplasias and ultrasound
- Jose Maria Carrera (Spain): Ultrasonography in Africa: Is it necessary to stimulate its appropriate use?
- Ritsuko K Pooh (Japan): Contribution of transvaginal high-resolution ultrasound in fetal neurology
- Discussion

11:00-11:30 Coffee break

11:30-13:30

KEYNOTE LECTURES II (20 minutes)
Chair persons: Giampaolo Mandruzzato (Italy) and Eberhard Merz (Germany)
- Asim Kurjak (Croatia): Fetal brain function: Lessons learned and future challenges of 4D sonography
- Vincenzo D’Addario (Italy): Fetal cerebral mild ventriculomegaly
- Giovanni Monni (Italy): Invasive prenatal test in patients at high genetic risk
- Giampaolo Mandruzzato (Italy): Obstetrical ultrasound in definition, recognition and management of IUGR
- Zoltan Papp (Hungary): Changing public demand in the genetic counseling during the past 30 years
- Discussion

13:30-15:00 Lunch break

15:00-16:45

OBSTETRICS (15 minutes)
Chair persons: Jose Maria Carrera (Spain) and Sanja Kupesic (USA)
- Alfredo Guzman (Peru): Beyond IUGR and Hypoxia: DOHaH
- Ana Bianchi (Uruguay): Echocardiography in the first trimester of gestation
- Kazuo Maeda (Japan): Fetal diagnosis with ultrasonic actocardiogram and GLHW tissue characterization
- Ivica Zalud (USA): To Doppler and not to Doppler: From Doppler ultrasound to color Doppler, to Doppler in three-dimensions and beyond
- Sanja Kupesic (USA): Accuracy of ultrasound measurements by novices: Pixels or voxels
- Discussion

16:45-17:15 Coffee break
Thursday, May 5, 2011

17:15-19:00

**OBSTETRICS (15 minutes)**

**Chair persons:** Ana Bianchi (Uruguay) and Alaa Ebrashy (Egypt)

- Snezana Crnogorac (Montenegro): Holoprosencephaly
- Ulrich Honemeyer (UAE): Slides only—personal experience with different cases of abnormal fetal anatomy
- Carmina Comas/Bernat Serra (Spain): Quality assessment in screening for Down syndrome
- Alaa Ebrashy (Egypt): Controversial US signs in fetal anatomy scan
- Aleksandar Ljubic (Serbia): Ultrasound and MRI in diagnosis of fetal health
- Abdal-Latif Ashmaig Khalifa (Sudan): Pitfalls in US practice
- Discussion

21:00

Performance by Lindjo Folklore Ensemble

---

**Friday, May 6, 2011**

08:00-09:30

**Business meeting of Donald School directors**

- Asim Kurjak, Frank Chervenak: Recent developments in Ian Donald School
- Martha Guerra, Sanja Kupesic (USA): Reshaping ultrasound education for Ian Donald School
- Ivica Zalud (USA): WEB of our school
- Delivery of new Donald School medals to directors
- Discussion

10:00-12:00

**OBSTETRICS (15 minutes)**

**Chair persons:** Alexandra Matias (Portugal) and Zoltan Papp (Hungary)

- Frank A Chervenak (USA): Ultrasound and Ethics: The past 25 years in perspective
- Jaideep Malhotra (India): Integrated screening for chromosomal anomalies: Strategies in developing countries
- Berivoj Miskovic/Oliver Vasilj (Croatia): Fetal neurobehavior in normal and high-risk pregnancy
- Anton Mikhailov (Russia): Multiples under ultrasound umbrella
- Cihat Sen (Turkey): Fetal heart: Routine scanning
- Liliana Voto (Argentina): First trimester screening in the public hospital: It is possible
- Alexandra Matias (Portugal): Ductus venosus: A love story of 14 years
- Discussion

12:00-12:30

Coffee break

12:30-14:00

**OBSTETRICS (15 minutes)**

**Chair persons:** Abdal-Latif Ashmaig Khalifa (Sudan) and Berivoj Miskovic (Croatia)

- Abdallah Adra (Lebanon): Screening by Ultrasound: How much did it influence our everyday perinatal practice?
- Fawaz Alkazaleh (Jordan): Middle cerebral artery peak systolic velocity and the prediction of fetal anemia in alloimmunized pregnancies: Experience from Jordan
- Milan Stanojevic (Croatia): From fetal to neonatal behavior: Fiction or reality
- Azen Salim (Indonesia): Pregnancy and uterine anomalies
- Miroslaw Wielgos (Poland): Ultrasound-guided invasive procedures in genetic prenatal diagnostics
- Discussion

14:00-15:30

Lunch break
15:30-17:00  
**OBSTETRICS (15 minutes)**

Chair persons: Abdallah Adra (Lebanon) and Miroslaw Wielgos (Poland)

- Orion Gliozheni (Albania): Ultrasound diagnosis of fetal anomalies
- Sameer Abdullah (Saudi Arabia): Fetal cardiac screening
- Farah Sulaiman Youssif (Bahrain): The evaluation of nonimmune hydrops by ultrasound
- Florin Stamatian (Romania): Advances in ultrasonic assessment of acardiac twin
- Gian Carlo Di Renzo (Italy): Prevention of neurological morbidity in the preterm newborn: The role of maternal-fetal medicine
- Discussion

17:00-17:30  
Coffee break

17:30-19:30  
**GYNECOLOGY AND INFERTILITY (15 minutes)**

Chair persons: Ritsuko K Pooh (Japan) and Veljko Vlaisavljevic (Slovenia)

- Abbas Aflatoonian (Iran): Vaginal sonography in infertility evaluation
- Narendra Malhotra (India): Rational use of TVS/color and 3D in evaluating subfertile women
- Radu Vladareanu (Romania): Volume ultrasound in uterine and tubal evaluation
- Veljko Vlaisavljevic (Slovenia): Echographic evidence of follicle development and maturation
- Corazon Yabes-Almirante (Philippines): From fetal imaging to pediatric gynecology imaging in a span of 22 years
- Sayed Amir Gilani (Pakistan): Educational and research standards in Obstetrics/Gynecology ultrasound in developing countries (Asia and Africa)
- Mohammad Hashim Wahaaj (Afghanistan): Ultrasound guided aspirations and biopsy
- Alexander Papitashvili (Georgia): Sonohysterosalpingography in female infertility: history and reality. Clinical experience of inventor of the method in a span of 32 years
- Hari Kishor Shrestha (Nepal): Follicular monitoring in IUI
- Discussion
Friday, May 6, 2011

1st Course
IAN DONALD NEONATAL SCHOOL OF ULTRASOUND

Venue:
Inter-University Center, Don Frana Bulica 4, Dubrovnik

08.30-13.00 MORNING SESSION I
Moderators: Janez Babnik, Biserka Rešić

08:30-09:00 Ritsuko Pooh (Japan)
From prenatal to postnatal assessment of brain disorders

09:00-09:30 Janez Babnik (Slovenia)
Uloga ultrazvučne dijagnostike u jedinici novorođenačkog intenzivnog liječenja

09:30-10:00 Vlatka Mejaški Bošnjak (Croatia)
Standardizacija ultrazvučnih pregleda u neonatologiji prema preporukama Surveillance of Cerebral Palsy in Europe (SCPE)

10:00-10:30 Biserka Rešić (Croatia)
Uloga ultrasonografije i prognozi perinatalnog oštećenja mozga

10:30-11:00 Coffee break

10:30-11:00 MORNING SESSION II
Moderators: Suada Heljić, Boris Filipović Grčić

11:00-11:30 Snježana Gverić Ahmetašević (Croatia)
Uloga doplerskih ispitivanja u dijagnostici oštećenja mozga u neonatologiji

11:30-12:00 Vesna Benjak (Croatia)
Aneurizma vene galene u neonatologiji—dijagnostika i liječenje

12:00-12:30 Boris Filipović Grčić (Croatia)
Ultrazvučni nalaz mozga i ishod izrazito i vrlo nedonošene djece do otpusta iz bolnice u Zavod za neonatologiju i intenzivno liječenje KBC Rebro, Zagreb, Hrvatska

12:30-13:00 Heljić Suada (Bosnia and Herzegovina)
Ultrazvučna dijagnostika hemoragičnih lezija mozga kod preterminske novorođenčadi

13:00-14:00 Lunch

14:00-15:30 AFTERNOON SESSION
Moderators: Dalibor Šarić, Jovan Lovrenski

14:00-14:30 Milan Stanojević (Croatia)
Trodimenzionalni ultrazvuk mozga u neonatologiji

14:30-15:00 Dalibor Šarić (Croatia)
Uloga kadiologa u jedinici novorođenačkog intenzivnog liječenja

15:00-15:30 Jovan Lovrenski (Serbia)
Ultrazvučna dijagnostika respiratornog distres sindroma u nedonoščadi—stupnjevanje i usporedba s rendgenskim nalazima

15:30-17:30 SPECIAL SESSION
Moderators: Claudine Amiel Tison, Vlatka Mejaški Bošnjak

15:30-17:30 Claudine Amiel Tison (France)
Amiel Tison Neurological Assessment at Term—theoretical basis and practical approach

Claudine Amiel Tison (France)
Why should all newborns undergo clinical neurological screening assessment after birth?
Saturday, May 7, 2011

ERICH SALING WORLD SCHOOL OF PERINATAL MEDICINE

09:00-11:00 MORNING SESSION I (20 minutes)
Chair persons: Manuel RG Carrapato (Portugal) and Erich Saling (Germany)
• Frank A Chervenak (USA), Asim Kurjak (Croatia): Erich Saling School in its 20th year
• Luis Cabero (Spain): Recent FIGO activities in perinatal health
• Ana Bianchi (Uruguay): Screening for fetal heart anomalies
• Jose Maria Carrera (Spain): Epidemiology of multiple pregnancy: What a clinician should know?
• Frank A Chervenak (USA): The clinical and ethical challenge of patient choice cesarean
• Alaa Ebrashy (Egypt): 13 weeks fetal anatomy scan: A reality or obsession

11:00-11:30 Coffee break

11:30-13:30 MORNING SESSION II (20 minutes)
Chair persons: Ana Bianchi (Uruguay) and Jaideep Malhotra (India)
• Ulrich Honemeyer (UAE): Different ultrasonic methods in visualizing structural and functional fetal development
• Giovanni Centini (Italy): Cleft lip and palate: Prenatal diagnosis by 2, 3 and 4D
• Asim Kurjak (Croatia): Modern approach to the antenatal detection of fetal neurological problems
• Narendra Malhotra (India): Imaging of polycystic ovary
• Jaideep Malhotra (India): Screening for birth defects in developing countries: What test when?
• Discussion

13:30-15:00 Lunch break

15:00-17:00 AFTERNOON SESSION I (20 minutes)
Chair persons: Luis Cabero (Spain) and Ivica Zalud (USA)
• Erich Saling (Germany): Current situation of practical prevention of premature birth
• Eberhard Merz (Germany): 3D/4D sonography in the assessment of fetal anomalies
• Erich Saling (Germany): Prevention of recurrent late abortion and premature birth by Early Total Cervix Occlusion (ETCO)
• Lynnae Sauvage (USA): Thyroid disease in pregnancy: Controversies and management
• Milan Stanojevic (Croatia): Limits of viability - challenging ethical issue
• Ivica Zalud (USA): IUGR: Doppler on my mind

17:00-17:30 Coffee break

17:30-19:30 AFTERNOON SESSION II (20 minutes)
Chair persons: Joseph Schenker (Israel) and Radu Vladareanu (Romania)
• Zion Ben-Rafael (Israel): Myomectomy during cesarean section
• Luis Cabero (Spain): Postpartum hemorrhage: State-of-the-art
• Manuel RG Carrapato (Portugal): Neuroimaging in premature infants at the limits of viability
• Claudine Amiel Tison (France): Fetal and neonatal neurology: State-of-the-art
• Joseph Schenker (Israel): Gestation and birth at menopausal age
• Discussion
Social Program

May 5-8, 2011
Hotel Rixos Libertas Dubrovnik

Zetta Antsakli: Exhibition of photographys
Free for congress participants and accompanying persons

Zetta Antsakli was born in Athens, Greece. She obtained a degree in French, English and Italian literature. Her interest in the arts encouraged her to take a photography course with well-known photographer Platon Rivellis. Since then she has excelled in national and international competitions.

In 2005, she published the book Sights and Sites by Kastaniotis Editions SA. This book was presented at the Benaki Museum in Athens, at the Byzantine Museum in Thessaloniki and at the Reading Society in Corfu.

In 2007, she participated in the medicophilosophical conference organized by University Hacetepe of Ancara, Turkey, where she treated the subject ‘mother and child’.

In 2008, she participated in a group exhibition at the Benaki Museum and in 2009, she presented her work in Athens College. In 2010, she organized her first solo exhibition at the Met Hotel in Thessaloniki that gained wide acclaim.

May 5-8, 2011
Gallery Stradun, Placa 15

Mersad Berber: Exhibition of paintings
Free for congress participants and accompanying persons

Mersad Berber was born on 1 January 1940, in Bosanski Petrovac, Bosnia and Herzegovina. He earned a degree in painting from the University of Ljubljana in 1963, as a student of Maksim Sedej. In 1965, Berber completed a postgraduate course in printing techniques as a student of Riko Debenjak.

In 1978, Berber became visiting professor at the Arts Academy in Sarajevo. Over the years he has built up a reputation of an internationally renowned artist whose works are in great demand and can be found in numerous public and private collections and museums all over the world. The Tate Gallery in London purchased a work by Berber in 1984, thus placing him side by side with the other great artists represented in this prestigious institution.

From 1966, Berber has won over 50 prizes for his work. Among them are those awarded by the cities of Banja Luka and Sarajevo, several important prizes received in Zagreb, Belgrade, Rijeka, Dubrovnik, Trieste, Sao Paolo, Alexandria, Florence, Tokyo, New Delhi, First Prize at World Book Fair in 1980, Monte Carlo, Madrid, Leipzig, Varna, Krakow. The artist has been a resident of Zagreb since 1992.

May 5, 2011 (21:00)
Hotel Rixos Libertas Dubrovnik

Performance by Lindjo Folklore Ensemble
Free for congress participants and accompanying persons

For more than 40 years, the folklore ensemble Lindjo has been a living part of Dubrovnik, the city of stone, sunshine, art, history, tradition and beauty.

The first audition took place in 1964. Since then more than 3,000 dancers and musicians have contributed to the success of the ensemble. Closely supervised by the art director Mr Sulejman Muratovic, Lindjo won prizes wherever they performed, promoting the city of Dubrovnik and the Republic of Croatia all around the world.

Since the very beginning, the dancers have been dancing in original national costumes of priceless value. The ensemble’s wardrobe proudly boasts 1,500 original items.
Lindjo had its international debut in Italy in 1966, soon followed by numerous performances in most European countries, USA, Uruguay, Argentina, Japan and Australia.

During their careers, generations of dancers and musicians have made lifelong friendships. Many recognized and successful individuals were, at one point in their life, participating members of the ensemble, either as dancers.

Lindjo has become a milestone, a symbol of the City, we dare say, the good spirit of Dubrovnik.

May 8, 2011
4 hours excursion by boat: Dubrovnik riviera including fish lunch
Price depends on number of persons

GOLDEN SPONSOR

www.pliva.com
VENUE

Global Congress
Recent Advances in Ultrasound Diagnosis in Obstetrics and Gynecology and Erich Saling World School of Perinatal Medicine

Rixos Libertas Dubrovnik Hotel
Liechtensteinov Put 3
20000 Dubrovnik, Croatia
Telephone: +385 20 200 000
Fax: +385 20 200 020, www.rixos.com
e-mail: libertas@rixos.com

1st course of IAN Donald Neonatal School of Ultrasound

Inter-University Center
Don Frana Bulica 4
20000 Dubrovnik, Croatia
Telephone: +385 20 413 626, 413 627
Fax: +385 20 413 628
www.iuc.hr
e-mail: iuc@iuc.hr

CONFERENCE FEE: 500 EUR
Fee Includes:
• Attendance to the Conference
• Congress Material
• Special Issue of Ian Donald Journal of Ultrasound in Obstetrics and Gynecology with the Presented Papers
• Performance by Lindjo Folklore Ensemble
• Visit to Exhibition of Photographs by Zetta Antsaklis
• Visit to Exhibition of Paintings by Mersad Berber

INFORMATION
Secretariat of Global Congress
e-mail: globalcongressdubrovnik@yahoo.com
http://www.iandonaldschool.org
Contents

Review Articles

- Ethics in Obstetric Ultrasound: The Past 25 Years in Perspective .................................................. 79-84
  Frank A Chervenak, Laurence B McCullough
- Fetal Brain Function: Lessons Learned and Future Challenges of 4D Sonography ............. 85-92
  Asim Kurjak, Maja Predojevic, Aida Salihagic Kadic
- Contribution of Transvaginal High-Resolution Ultrasound in Fetal Neurology ................. 93-99
  Ritsuko K Pooh
- Fetal Neurobehavior in Normal and High-Risk Pregnancy ......................................................... 101-106
  Berivoj Mišković, Oliver Vasilj, Maja Predojević
- Continuity from Fetal to Neonatal Behavior: Lessons Learned and Future Challenges .................................................. 107-118
  Milan Stanojevic, Asim Kurjak
- Mild Fetal Ventriculomegaly: Diagnostic Work-up and Management ............................. 119-126
  Vincenzo D’Addario, Angela Cristina Rossi
- Analysis of Quality of Nuchal Translucency Measurements ....................................................... 127-132
  Carmen Comas, Monica Echevarria, Ignacio Rodriguez, Joan Sabria, Bernat Serra
- Integrated Screening for Chromosomal Anomalies: Strategies in Developing Countries ........................................................................................................... 133-136
  Jaideep Malhotra, Ruchika Garg, Narendra Malhotra, Neharika Malhotra, Jai Prakash Rao
- Ultrasound-Guided Invasive Procedures in Genetic Prenatal Diagnostics ............................ 137-139
  Miroslaw Wielgos, Piotr Wegrzyn
- Ductus Venosus: A Love Story of 14 Years .............................................................................. 141-149
  Alexandra Mattas, Nuno Montenegro
- Controversial Ultrasound Findings in Mid-Trimester Pregnancy ......................................... 151-157
  Alaa Ebrashy
- To Doppler or Not to Doppler: From Doppler Ultrasound, to Color Doppler, to Doppler in 3D and Beyond .............................................................................. 159-166
  William Goh, Ivica Zalud
- Fetal Diagnosis with Ultrasonic Actocardiogram and GLHW Tissue Characterization .................................................. 167-173
  Kazuo Maeda
- Changing Public Demand in the Genetic Counseling during the Past Decades ............... 175-185
  Zoltan Papp