



XXI RUSSIAN SCIENTIFIC
AND EDUCATIONAL FORUM
Mother and Child

MOSCOW REGION |
KRASNOGORSK |
CROCUS EXPO IEC |

28-30 |
SEPTEMBER |
2020 |



National Scientific
and Educational Echographic
Congress under the auspices
of ISUOG

**ULTRASOUND DIAGNOSTICS
IN OBSTETRICS, GYNECOLOGY
AND PERINATOLOGY - COMPLEX ISSUES
AND WAYS TO SOLVE THEM**

WITH A PRECURSOR
**DIAGNOSTICS AND TACTICS OF CASE
MANAGEMENT CONGENITAL MALFORMATIONS
OF THE FETUS WITH A POOR PROGNOSIS**

**SCIENTIFIC
PROGRAM**



Dear colleagues, dear friends!

Today I am immensely glad to welcome you on the event of the next scientific and educational Congress on ultrasound diagnostics in obstetric and gynecological practice as part of the next XXI Forum «Mother and Child».

Thanks to the titanic work and consolidation of the efforts of the Government, nongovernmental organizations, and healthcare of our country, significant success has been achieved in the fight against the new coronavirus infection COVID-19, which all of humanity is facing today. The whole range of activities, including quarantine ones, did not

limit the availability of obstetric and gynecological care to the population. Holding the Forum and the Congress in these conditions is the implementation of the main principle of medicine – the continuity of education throughout the professional activity of a practicing doctor.

It is well known that ultrasound is the main diagnostic tool in obstetric and gynecological practice, widely used from antenatal clinics to large third-level perinatal centers. The ongoing scientific research in our country and abroad, the rapid development of technology, medical equipment contribute to the constant development of new methods, standards, diagnostic approaches. And the conditions of the Congress ensure the availability of modern scientific information to all participants in educational programs.

For these purposes, from September 28 to 30, 2020, as well as for several decades in a row, the National Scientific and Educational Ultrasound Congress «Ultrasound diagnostics in obstetrics, gynecology and perinatology - complex issues and ways to solve them» will be held with a precursor «Diagnostics and tactics of case management congenital malformations of the fetus with a poor prognosis».

I hope that the lectures included in the precursor and the main program, prepared specially for the congress by leading Russian and foreign experts (prof. Aris Papageorghiou, prof. Povilas Sladkevicius, dr. Gizela Jagielska), will help each doctor find answers to unresolved practical and theoretical questions, improve your competencies to boldly accept the challenges of the new reality!

The work of the exhibition throughout all days of the Congress will provide an opportunity to get acquainted with the latest achievements of world manufacturers of ultrasonic equipment.

I wish you fruitful collaboration.

**Head of the Forum,
Academician RAS G.T. Sukhikh**

ULTRASOUND DIAGNOSTICS IN OBSTETRICS, GYNECOLOGY AND PERINATOLOGY – COMPLEX ISSUES AND WAYS TO SOLVE THEM

Head of the XXI Forum «Mother and Child»

**Sukhikh
Gennady
Tikhonovich**

Academician of the Russian Academy of Sciences, Professor, Director of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov» Ministry of Health of Russia, Moscow

Congress leaders:

**Gus
Alexander
Iosifovich**

Doctor of Medical Sciences, Professor, Head of the Department ultrasound and functional diagnostics of the department of visual diagnostics of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow

**Demidov
Vladimir
Nikolaevich**

professor, researcher, department ultrasound and functional diagnostics, «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow

**Kostyukov
Kirill
Vitalievich**

Ph.D. Senior Researcher at the Institute of Obstetrics, Doctor-Expert of Ultrasound Diagnostics of the Department of Ultrasound and Functional Diagnostics of the Department of Visual Diagnostics of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov» Ministry of Health of Russia, Moscow

**Yarygina
Tamara
Aleksandrovna**

obstetrician-gynecologist, expert doctor of ultrasound diagnostics of the department of ultrasound and functional diagnostics of the department of visual diagnostics of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow

Foreign experts and lecturers:

<p>Aris Papageorghiou</p>	<p>professor in Fetal Medicine and obstetrics, Fetal Medicine Unit, St George's University Hospitals NHS Foundation Trust, London, UK; Clinical research director, Oxford Maternal and Perinatal Health Institute, Nuffield Department of Women's & Reproductive Health, University of Oxford, UK</p>
<p>Povilas Sladkevicius</p>	<p>MD, PhD, Lund University, Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Associate Professor</p>
<p>Gizela Jagielska</p>	<p>MD, head of obstetric ward; perinatal hospice consultant; PZS Olesnica, Poland</p>

Russian experts and lecturers:

<p>Belousov Dmitry Mikhailovich</p>	<p>Ph.D., obstetrician-gynecologist, expert in ultrasound diagnostics, head of clinical work of the department of ultrasound diagnostics and functional diagnostics of the visual diagnostics department of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow</p>
<p>Bolshakova Anna Sergeevna</p>	<p>doctor-geneticist of the Institute of Reproductive Genetics Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov» Ministry of Health of Russia, Moscow</p>
<p>Burov Artem Aleksandrovich</p>	<p>PhD, anesthesiologist-resuscitator of the highest category Head of clinical work of the Department of Newborn Surgery, Institute of Neonatology and Pediatrics, Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova», Ministry of Health of Russia, Moscow</p>

ULTRASOUND DIAGNOSTICS IN OBSTETRICS, GYNECOLOGY AND PERINATOLOGY – COMPLEX ISSUES AND WAYS TO SOLVE THEM

Gazhonova Veronika Evgenievna	MD, DSc, Professor of the Department of Radiation Diagnostics and Radiation Therapy, FSBI DPO «Central State Medical Academy», UD of the President of the Russian Federation, Moscow
Hasanova Rena Mamedovna	MD, PhD, cardiologist, doctor of ultrasound diagnostics, head of the Perinatal Cardiological Center, Federal State Budgetary Institution «National Medical Research Center for Cardiovascular Surgery named after A.N. Bakulev» Ministry of Health of the Russian Federation, Moscow
Esipova Irina Andreevna	Candidate of Medical Sciences, Associate Professor of the Department of Obstetrics and Gynecology, Pediatric Faculty, Pirogov Russian National Research Medical University, Moscow
Klassen Anna Andreevna	Ph.D., Senior Lecturer, Department of Obstetrics and Gynecology, Omsk State Medical University, obstetrician-gynecologist, doctor of ultrasound diagnostics, Orenburg
Leonova Elena Ilgorevna	doctor of ultrasound diagnostics, Perinatal Cardiological Center, Federal State Budgetary Institution «National Medical Research Center for Cardiovascular Surgery named after A.N. Bakulev» Ministry of Health of Russia, Moscow
Lipatenkova Yulia Ivanovna	Candidate of Medical Sciences, Associate Professor of the Department of Reproductive Medicine and Surgery, Moscow State University of Medicine and Dentistry A.I. Evdokimova, Moscow
Lysenko Sergey Nikolaevich	MD Senior Researcher, Department of Ultrasound Diagnostics, GBUZ MO MONIAG, Moscow
Malmberg Olga Leonidovna	Ph.D., chief specialist in ultrasound of the Group of Companies «Mother and Child», associate professor of the department of ultrasound, RMAPO, Moscow
Milovanova Svetlana Nikolaevna	expert doctor of prenatal ultrasound diagnostics (obstetrician-gynecologist, ultrasound diagnostics doctor), medical genetics department, GBUZ MO MONIAG, Moscow

<p>Ozerskaya Irina Arkadijevna</p>	<p>MD, DSc, Professor, Department of Ultrasound and Surgery, FNME (Faculty of Continuing Medical Education) MI (Medical Institute) RUDN (Peoples' Friendship University of Russia), Moscow</p>
<p>Pavlova Natalya Grigorievna</p>	<p>Doctor of Medical Sciences, Doctor of Medical Sciences, Professor of the Department of Obstetrics, Gynecology and Reproductology, St. acad. I.P. Pavlova, Professor of the Department of Obstetrics, Gynecology and Reproductology, St. Petersburg</p>
<p>Semendyaev Andrey Aleksandrovich</p>	<p>MD, DSc, Professor, Department of Obstetrics and Gynecology, Irkutsk State Medical University, Irkutsk</p>
<p>Fedotkina Elena Petrovna</p>	<p>MD, PhD, obstetrician-gynecologist, expert in ultrasound diagnostics, Department of Ultrasound and Functional Diagnostics, Department of Visual Diagnostics, Federal State Budgetary Institution National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow</p>
<p>Chekalova Marina Albertovna</p>	<p>Doctor of Medical Sciences, Professor of the Department of Radiology and Ultrasound Diagnostics of the Academy of Postgraduate Education, FKSC FMBA of Russia, Moscow</p>
<p>Chechneva Marina</p>	<p>MD Head of the Department of Ultrasound Diagnostics, GBUZ MO MONIAG; Professor, Department of Radiation Diagnostics M.F. Vladimirsky, Moscow</p>
<p>Chugunova Liliana Anatolyevna</p>	<p>Ph.D., obstetrician-gynecologist, expert in ultrasound diagnostics, senior researcher at the ultrasound and functional diagnostics department of the visual diagnostics department of the Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakova» Ministry of Health of Russia, Moscow</p>

ULTRASOUND DIAGNOSTICS IN OBSTETRICS, GYNECOLOGY AND PERINATOLOGY – COMPLEX ISSUES AND WAYS TO SOLVE THEM

**Shubina
Ekaterina
Sergeevna**

Ph.D., Head of the Laboratory for Analysis of Genomic Data, Federal State Budgetary Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov» Ministry of Health of Russia, Moscow

**Shumakov
Sergey
Yurievich**

expert in ultrasound diagnostics, head of the «One Day Clinic» department of the Regional Perinatal Center, obstetrician-gynecologist. Assistant at the Department of Oncology, Radiation Diagnostics and Radiation Therapy, SUSMU, Chelyabinsk

SEPTEMBER 28 (1st day)

LECTURE PRECOURSE:

Diagnostics and tactics of management of cases of congenital malformations of the fetus with an unfavorable prognosis

9:00	Course opening	<i>prof. Gus A.I., prof. Aris Papageorghiou, Kostyukov K.V., Yarygina T.A.</i>
<i>Chairs: prof. Gus A.I., prof. Aris Papageorghiou, Hasanova R.M.</i>		
9:15	Ultrasound anatomy of the fetus. Correlation with anatomical slices	<i>Klassen A.A.</i>

SESSION I.

Prenatal echocardiography

9:45	Basic approaches to the detection of congenital fetal heart defects	<i>Aris Papageorghiou</i>
10:15	Prenatal diagnosis and management of pregnancy in critical neonatal malformations	<i>Hasanova R.M., Bockeria E.L.</i>
10:45	Fetal cardiomegaly: differential diagnosis. Assessment of prognosis and pregnancy outcome	<i>Leonova E.I., Gasanova R.M., Marzoeva O.V., Sypchenko E.V.</i>

Philips Satellite Symposium

Philips innovation in action – clinical experience with new technologies

11:15	Clinical use of high frequency linear probe in first and second trimester of pregnancy	<i>Jachymski T.</i>
11:55	Applications of PureWave Technology to Prenatal Diagnosis	<i>Luis F. Goncalves</i>

SESSION II.

The role of the sonographers in the era of fetal medicine

Chairs: prof. Gus A.I., Kostyukov K.V.

12:30	The Role of the sonographers in the Age of Fetal Medicine	<i>Kostyukov K.V.</i>
13:00	Prenatal prediction of a poor prognosis in fetuses with congenital diaphragmatic hernia	<i>Burov A.A., Podurovskaya Yu.L., Mashinets N.V., Syrkashev E.M., Bockeria E.L., Naberezhnev Yu.I., Zubkov V.V.</i>
13:30	Anomalies of the central nervous system. Associated with Arnold-Chiari II syndrome in fetuses with intrauterine correction spina bifida	<i>Chugunova L.A.</i>
14:00	Non-immune dropsy of the fetus	<i>Kostyukov K.V.</i>
14:30	LUNCH	

SESSION III.

Systemic pathology

Chairs: prof. Gus A.I., Gizela Jagielska, Malmberg O.L., Yarygina T.A.

15:00	Skeletal dysplasias - is prenatal diagnosis possible?	Gizela Jagielska
15:30	Chromosomal microarray analysis for fetal malformations. Finds and «surprises»	Malmberg O.L.
16:00	Possibilities of molecular genetic methods in the diagnosis of syndromic pathology of fetuses with malformations	Bolshakova A.S.
16:30	Selective reduction of embryos as an effective method for the prevention of perinatal losses. Early termination of pregnancy	Belousov D.M.
17:00	Perinatal hospice as an alternative to termination of pregnancy	Gizela Jagielska
17:30	Discussion	
	Closing the precursor	

29 SEPTEMBER (2nd day)

Ultrasound diagnostics in obstetric practice: concepts and methodologies of the XXI century

9:00	Congress opening	<i>Prof. Gus A.I., Aris Papageorghiou, Kostyukov K.V., Yarygina T.A.</i>
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SESSION IV.

1st trimester of pregnancy: modern diagnostic capabilities

Chairs: prof. Gus A.I., Malmberg O.L., Shubina E.K.

9:15	Presentation of a new educational project «Fetal Scanning Academy»	<i>Aris Papageorghiou</i>
9:45	Ultrasound diagnostics of congenital malformations of the fetus in the 1st trimester of pregnancy	<i>Shumakov S.Y.</i>
10:15	Chromosomal abnormalities in the 1st trimester: not only TBP	<i>Malmberg O.L.</i>
10:45	New ultrasound marker «apical ventricular length ratio» to identify a group of high-risk patients for congenital heart defects and fetal chromosomal abnormalities in the 1st trimester of pregnancy	<i>Milovanova S.N.</i>
11:15	Approaches to performing non-invasive prenatal DNA screening	<i>Shubina E.K.</i>

GE Healthcare Satellite Symposium

11:45	Voluson women`s health ultrasound technologies	Baranov A.A.
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SESSION V.

Echography of the placenta and umbilical cord

Chairs: prof. Gus A.I., prof. Chechneva M.A.

12:15	Placenta anatomy. Just important	Klassen A.A.
12:45	The condition of the uterine scar during pregnancy: from ideal to critical	Chechneva M.A., Zemskova N.Yu.
13:15	Placental growth: echographic stages	Yarygina T.A., Gus A.I.
13:45	Rare conditions of the placenta and umbilical cord. Clinical observations	Chechneva M.A., Zakharov S.M.

Canon Medical Systems Satellite Symposium (part 1)

14:15	Clinical Demonstration	Eremina O.V.
14:45	LUNCH	

SESSION VI.

Assessment of fetal growth and condition

Chairs: prof. Gus A.I., prof. Aris Papageorghiou, prof. Demidov V.N., Pavlova N.G.

15:30	Plenary lecture: Results of the work of the international consortium INTERGROWTH-21st: a new era of standardization of fetometric parameters	Aris Papageorghiou
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ULTRASOUND DIAGNOSTICS IN OBSTETRICS, GYNECOLOGY
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16:15	Prediction, prevention, diagnosis of fetal growth retardation	<i>Yarygina T.A.</i>
16:45	Place of Doppler studies in a comprehensive assessment of the functional state of the fetus	<i>Pavlova N.G.</i>
17:15	Automated cardiotocography in assessing and predicting fetal health	<i>Demidov V.N.</i>
17:45	Question – answer	
	Closing the day	

30 SEPTEMBER (3rd day)

Ultrasound diagnostics in gynecological practice – opportunities 2020

Section VII. Ultrasound diagnostics of endometritis

Chairs: prof. Gus A.I., prof. Chechneva M.A., prof. Ozerskaya I.A.

9:00	Ultrasound diagnosis of postpartum endometritis	Chechneva M.A., Titchenko Yu.P., Matveev M.O.
9:30	Chronic endometritis and infertility. Possibilities of ultrasound diagnostics	Ozerskaya I.A.

SECTION VIII.

Ultrasound assessment of the pelvic vessels

Chairs: prof. Guc A.I., prof. Semendyaev A.I., prof. Zykin B.I.

10:00	The role of regional phlebohemodynamic disorders in the development of ovarian insufficiency in women with varicose veins of the small pelvis	Semendyaev A.A., Stupin D.A., Purbueva V.N.
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Canon Medical Systems Satellite Symposium (part 2)

10:30	Canon Ultrasound: news and novelties	Suprunenko O.A.
10:40	Uterine ischemia as a predictor of reproductive loss	Belousov D.M.

SECTION IX.

Three-dimensional echography in gynecology

Chairs: prof. Gus A.I., prof. Zykin B.I., Esipova I.A.

ULTRASOUND DIAGNOSTICS IN OBSTETRICS, GYNECOLOGY AND PERINATOLOGY – COMPLEX ISSUES AND WAYS TO SOLVE THEM

11:15	Ovarian reserve: the choice of tactics for 2D or 3D echography?	Gus A.I.
11:45	Contrast three-dimensional echography in the diagnosis of infertility	Fedotkina E.P.
12:15	Possibilities of three-dimensional echography in the diagnosis and correction of malformations of the pelvic organs	Esipova I.A.
12:45	LUNCH	

SESSION X.

Ultrasound diagnostics in malignant processes of the pelvic organs

Chairs: prof. Gus A.I., Povilas Sladkevicius, prof. Chekalova M.A., prof. Zykin B.I.

13:30	ORADS classification – principles of practical application of ultrasound diagnostics by a doctor	Gazhonova V.E.
14:00	Ultrasound assessment of the risk of metastatic lesions of regional lymph nodes in endometrial cancer	Povilas Sladkevicius
14:30	Non-epithelial tumors of the uterus: selected issues of ultrasound diagnostics	Chekalova M.A.
15:00	Clinical and ultrasound classification of uterine sarcomas	Povilas Sladkevicius
15:30	Ultrasound diagnostics of tumors and tumor-like formations of the ovaries (basic differential diagnostic criteria and modern approaches in diagnosis)	Lipatenkova Yu.I.
16:00	Serous borderline ovarian tumors: ultrasound features diagnostics	Chekalova M.A.
16:30	Clinical and ultrasound classification of malignant lesions of the bladder	Povilas Sladkevicius



17:00

Discussion

Closing the Congress