

1st International Middle East

Fetal-Neonatal

Cardiovascular Conference



CHILDREN ARE  
**OUR HEARTS**

ילדים הם הלב שלנו  
الأطفال هم قلوبنا

28 - 29 October, 2022  
Rosewood Hotel  
Abu Dhabi, UAE



 **Children's Hospital  
of Philadelphia®**  
Global Medicine

  
מרכז שניידר לרפואת ילדים בישראל  
מרכז שניידר לטב الأطفال في إسرائيل  
Schneider Children's Medical Center of Israel

  
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## WELCOME MESSAGE



Dear Colleagues,

A wise person once said that if we love our children more than any animosity we hold for one another, then the world will truly be a much better place. Children are our future, and their health and well-being are critical to our society. It is now clear that human health throughout life starts with good prenatal care before birth. With a rising pediatric population in the Middle East, developing nations in the region are focusing greater attention on prenatal, infant and pediatric healthcare, thereby investing in the future.

The advent of the Abraham Accords between Israel, the United Arab Emirates, and other Arab neighbors, has created opportunities for collaboration and exchange. The field of medicine is an example where common interests in healing and improving the human condition can be a strong catalyst for international collaboration, with the mutual goals of sharing knowledge, improving outcomes for our patients, and building sustainable relationships for friendly exchange.

It is with these concepts in mind that leaders at **Children's Hospital of Philadelphia in the United States, Schneider Children's Medical Center of Israel, and Corniche Hospital together with Sheikh Khalifa Medical City from SEHA Abu Dhabi Health Services, in United Arab Emirates** have joined together to host the **1st International Middle East Fetal-Neonatal Cardiovascular Disease Conference**. This 2-day state-of-the-art, live in-person and virtual hybrid educational conference will be held in **Abu Dhabi, UAE, on Friday and Saturday October 28-29, 2022, with an optional fetal echocardiography imaging simulation workshop on Sunday, October 30, 2022**. We have invited leading experts in the field from the region and around the world to lecture and interact with a global community of attendees interested in learning about the latest standards and innovations of care for the fetus and newborn with heart disease.

The field of prenatal and neonatal cardiovascular care is a unique collaborative aspect of medicine which spans a number of specialties including genetics, obstetrics, maternal-fetal medicine, imaging, neonatology, pediatric cardiology, cardiac surgery, pediatric intensive care, and ethics. Included for discussion in our conference are topics such as: genetics of heart disease, fetal and newborn imaging, review of specific fetal cardiovascular conditions, obstetrical and maternal care, innovative fetal therapies, care of the newborn with heart disease including catheter and surgical interventions, social aspects and long-term outcomes of congenital heart disease in the middle east, and other subjects.

We invite your participation in this exciting learning experience and look forward to our building relationships that will expand and grow to our professional benefit and to the benefit of our patients.

We are excited to welcome you to Abu Dhabi on October 28-30, 2022.

Jack Rychik, MD  
Children's Hospital of Philadelphia

Einat Birk, MD  
Schneider Children's Medical  
Center of Israel

Werner Gerhard Diehl, MD  
SEHA, Corniche Hospital



## Scientific & Organizing Committee



**Dr. Jack Rychik**  
Director Fetal Heart Program,  
Associate Chief Cardiology,  
Children's Hospital of Philadelphia,  
USA



**Dr. Einat Birk**  
Head of The Institute of Cardiology,  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Werner Gerhard Diehl**  
Chief, Fetal Medicine & Imaging,  
Corniche Hospital, Abu Dhabi, UAE



**Dr. Hafis Ibrahim Ponnambath**  
Neonatology, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Dr. Sofia Konstantinopoulou**  
Pediatrics, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Dr. Nishant Chandrakant Shah**  
Cardiac Sciences, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Ruth Frey**  
Vice President, Global Strategy  
and Business Development,  
Children's Hospital of Philadelphia,  
USA



**David Caldwell**  
Manager, Global Strategy and Business  
Development, Children's Hospital of  
Philadelphia, USA



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Corniche Hospital, Abu Dhabi, UAE



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SEHA, Abu Dhabi Health Services Co.,  
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**Dr. Nawal Ahmed Mohamed Al Kaabi**  
Chief Medical Officer,  
Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Madeline Bell**  
CEO, Children's Hospital of Philadelphia,  
USA



**Dr. Joseph Rossano**  
Executive Director, Cardiac Center,  
Children's Hospital of Philadelphia,  
USA



**Dr. James Callahan**  
Medical Director Global Pediatric Education,  
Children's Hospital of Philadelphia,  
USA



**Dr. Efrat Bron-Harlev**  
CEO, Schneider Children's  
Medical Center, Petah Tikva,  
Israel



## Conference Learning Objectives

Upon completion of this educational activity, course participants will be able to:

- Recognize the imaging principles of fetal ultrasound to detect cardiovascular disease in the fetus
- Diagnose and characterize a variety of forms of congenital heart disease using fetal ultrasound
- Discuss the value of early trimester fetal imaging, 3D and 4D imaging, the role of the three-vessel tracheal view in prenatal imaging
- Evaluate anomalies of the fetal venous system and porto-systemic shunts
- Review the key imaging and management principles for prenatal conditions including septal defects, tetralogy of Fallot, transposition of the great arteries, hypoplastic left heart syndrome, heterotaxy syndrome, fetal tachyarrhythmias and maternal autoimmune induced disease
- Evaluate prenatal conditions impacting the cardiovascular system such as extracardiac malformations and twin-twin transfusion syndrome
- Discuss the challenges in prenatal screening and management of cardiovascular malformations in developing countries
- Review the concepts of parental mental health when carrying a fetus with heart disease
- Report on the latest innovations in fetal care and therapy including artificial intelligence in ultrasound, fetal cardiovascular MRI, catheter-based interventions, fetal surgery, and the role of the placenta
- Review concepts of timing for delivery and optimal delivery room management
- Manage an unstable circulation in a premature infant
- Discuss the impact of newborn lung disease and pulmonary hypertension
- Apply concepts of pediatric echocardiography in managing newborn heart disease
- Review principles of care and treatment, medical and surgical, for newborn cardiovascular conditions including heart failure and various forms of congenital heart disease
- Discuss the unique models and systems of perinatal and newborn care specific to managing cardiovascular conditions in the Middle East

## Target Audience

- Maternal fetal medicine specialists
- Prenatal ultrasound specialists
- Fetal cardiologists
- Pediatric cardiologists
- Pediatric cardiothoracic surgeons
- Neonatologists
- Intensive care specialists focused on newborn cardiovascular care
- Newborn Nurses



## Faculty



**Dr. Alfred Abuhammad**  
Eastern Virginia Medical School, USA



**Dr. Anas Abu Hazeem**  
Kids Heart Medical Center,  
Abu Dhabi, UAE



**Dr. Anita Moon Grady**  
University of California San Francisco,  
San Francisco, California, USA



**Dr. Anne Ades**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Einat Birk**  
Head of The Institute of Cardiology,  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Elchanan Bruckheimer**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Gabriel Amir**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Prof. Gil Klinger**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Hafis Ibrahim Ponnambath**  
Neonatology, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Dr. Jack Rychik**  
Director Fetal Heart Program,  
Associate Chief Cardiology,  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Joanne Cole**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Jonathan Chen**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Joseph Rossano**  
Executive Director, Cardiac Center,  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Joshua Copel**  
Yale New Haven Medical Center,  
Connecticut, USA



## Faculty



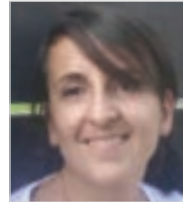
**Dr. Julie Moldenhauer**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Leanne Bricker**  
Corniche Hospital, Abu Dhabi, UAE



**Dr. Lior Drukker**  
Rabin Medical Center,  
Petach Tikva, Israel



**Dr. Manuela Tavares de Sousa**  
University Medical Center,  
Hamburg, Germany



**Dr. Maryam Naim**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Meryl Cohen**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Muhammad Ataunur Khalid Nuri**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Nahla Khalek**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Nazih Asleh**  
Pediatric Cardiology, Saint Vincent  
de Paul French Hospital Nazareth, Israel



**Dr. Nishant Chandrakant Shah**  
Cardiac Sciences, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Dr. Noa Ruhrman-Shahar**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Norman Silverman**  
University of California San Francisco,  
San Francisco, California, USA



**Dr. Rabih Chaoui**  
Center for Prenatal Diagnostics  
and Human Genetics, Berlin,  
Germany



**Dr. Rami Fogelman**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



## Faculty



**Dr. Shukri Odeh**  
Obstetrics/Gynecology,  
Palestinian Authority



**Dr. Simcha Yagel**  
Hebrew University Medical Center,  
Hadassah Hospital, Jerusalem, Israel



**Dr. Sofia Konstantinopoulou**  
Pediatrics, Sheikh Khalifa Medical City,  
Abu Dhabi, UAE



**Dr. Tamir Dagan**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Werner Gerhard Diehl**  
Chief, Fetal Medicine & Imaging,  
Corniche Hospital, Abu Dhabi, UAE



**Dr. Yelena Tzeitlin**  
Schneider Children's Medical Center,  
Petah Tikva, Israel



**Dr. Yinon Gilboa**  
Rabin Medical Center,  
Petach Tikva, Israel



**Dr. Yoav Dori**  
Children's Hospital of Philadelphia,  
Philadelphia, Pennsylvania, USA



**Dr. Yuval Gielchinsky**  
Rabin Medical Center,  
Petach Tikva, Israel



**Dr. Mauricio Herrera**  
Clinica Colsonitas,  
Bogota, Colombia





## SCIENTIFIC PROGRAM

DAY 1: Friday - October 28, 2022

TIME	TOPIC	SPEAKER
07:00	Registration Open	
08:00-08:15	Opening Day 1: Introduction to the Symposium Program	Dr. Jack Rychik, Dr. Werner Diehl, & Dr. Einat Birk
<b>Session 1: Detection &amp; Characterization of Fetal Cardiovascular Disease</b>		
08:15-08:30	Genetics of Congenital Heart Disease	Dr. Noa Rurman-Shahar
08:30-08:45	Prenatal ultrasound screening for cardiovascular disease	Dr. Leanne Bricker
08:45-09:00	Fetal echocardiography: basic principles and advanced techniques	Dr. Werner Diehl
09:00-09:15	Early diagnosis of congenital heart disease: Screening tips and clues	Dr. Rabih Chaoui
09:15-09:30	The Value of 3D/4D Imaging in assessing cardiac anatomy and function	Dr. Simcha Yagel
09:30-09:45	Role of the three-vessel trachea view in screening for congenital heart disease	Dr. Alfred Abuhamad
09:45-10:00	Anomalies of the fetal venous system and impact on the heart	Dr. Yinon Gilboa
10:00-10:15	Porto-systemic shunts: Detection, Treatment and Outcomes	Dr. Elchanan Bruckheimer
10:15-10:30	Panel Discussion Q & A	Faculty
10:30-11:30	Opening Ceremony: Welcome to 1st International - Middle East Fetal & Neonatal Cardiovascular Symposium	Distinguished Dignitaries & Hosts
<b>Session 2: Prenatal Cardiovascular Disorders I</b>		
11:30-11:45	The fetal circulation and fetal cardiovascular physiology: a brief overview	TBD
11:45-12:15	The Spectrum of Congenital Heart Disease: Fetal ECHO and pathological correlates to congenital heart malformations	Dr. Norman Silverman
12:15-12:30	Fetal Diagnosis & Prenatal Management: Septal Defects	Dr. Anas Abu Hazeem
12:30-12:45	Fetal Diagnosis & Prenatal Management: Tetralogy of Fallot	Dr. Einat Birk
12:45-13:00	Fetal Diagnosis & Prenatal Management: Transposition of the Great Arteries	Dr. Nishant Shah
13:00-14:30	Lunch & Prayer Break	
<b>Session 3: Prenatal Cardiovascular Disorders II</b>		
14:30-14:45	Fetal Diagnosis & Prenatal Management: Hypoplastic Left Heart Syndrome & Single Ventricle	Dr. Jack Rychik
14:45-15:00	Fetal Diagnosis & Prenatal Management: Heterotaxy Syndrome	Dr. Norman Silverman
15:00-15:15	Fetal Tachyarrhythmias: Diagnosis and Management	Dr. Rami Fogelman
15:15-15:30	Maternal autoimmune disease and fetal bradyarrhythmias	Dr. Joshua Copel
15:30-16:00	Panel Discussion Q & A/ Interesting Cases	Faculty
16:00-16:15	Break	
<b>Session 4: Prenatal Conditions Impacting the Cardiovascular System</b>		
16:15-16:30	Challenges and ethical issues in prenatal screening and management of congenital heart disease in developing countries	Dr. Shukri Odeh
16:30-16:45	Diagnosis, management and treatment of complications related to monochorionic twin pregnancies	Dr. Nahla Khalek
16:45-17:00	Cardiovascular Impact of twin-twin transfusion syndrome	Dr. Jack Rychik
17:00-17:15	Extracardiac abnormalities associated with fetal cardiovascular disease	Dr. Werner Diehl
17:15-17:30	Parental Mental Health when carrying a fetus with cardiovascular disease	Dr. Joanne Cole
17:30-18:00	Panel Discussion Q & A	Faculty
18:00	Adjourn for the Day	

## SCIENTIFIC PROGRAM

DAY 2: Saturday - October 29, 2022

TIME	TOPIC	SPEAKER
07:00-07:45	Registration Open	
07:45-08:00	Opening - Day 2 - Introduction	Dr. Jack Rychik, Dr. Werner Diehl, & Dr. Einat Birk
<b>Session 5: Innovations in Fetal Care and Therapy</b>		
08:00-08:15	Is artificial intelligence the future of fetal ultrasound?	Dr. Lior Drukker
08:15-08:30	Application of MRI in the fetal cardiovascular system	Dr. Manuela Tavares de Sousa
08:30-08:45	Catheter-based fetal cardiac interventions: who are the candidates and what are the outcomes?	Dr. Anita Moon Grady
08:45-09:00	Fetal surgery and in-utero therapy I : Where are we today?	Dr. Yuval Gielchinsky
09:00-09:15	Fetal surgery and in-utero therapy II : Pushing the boundaries of innovation	Dr. Julie Moldenhauer
09:15-09:30	Placental dysfunction in congenital heart disease and the artificial placenta	Dr. Jack Rychik
09:30-09:45	Panel Discussion Q & A/ Cases	Faculty
09:45-10:00	Break	
<b>Session 6: Transition from fetal to newborn life</b>		
10:00-10:15	Maternal and fetal factors that influence timing of delivery for the fetus with congenital heart disease	Dr. Julie Moldenhauer
10:15-10:30	Optimal delivery room management of the newborn with complex congenital heart disease	Dr. Anne Ades
10:30-10:45	Managing an unstable circulation in the premature infant	Dr. Hafis Ponnambath
10:45-11:00	The premature neonate and congenital heart disease	Dr. Gil Klinger
11:00-11:15	Newborn lung disease and its impact on the cardiovascular system	Dr. Sofia Konstantinopoulou
11:15-11:30	Pulmonary hypertension in the neonate: beyond PPHN	Dr. Tamir Dagan
11:30-11:45	Earliest impressions: Pearls and Tips on echocardiographic imaging of the newborn with heart disease	Dr. Meryl Cohen
11:45-12:00	Panel Discussion Q & A/ Cases	Faculty
12:00-13:00	Lunch	
<b>Session 7: Newborn Cardiovascular Conditions and Their Treatments</b>		
13:00-13:15	Heart failure in the newborn: Causes, Care and Outcomes	Dr. Joseph Rossano
13:15-13:30	Principles of Cardiac Intensive Care: Managing a fragile physiology while optimizing cardiovascular and neurological outcomes	Dr. Maryam Naim
13:30-13:45	Anesthesia for Neonates with Congenital Heart Disease: Tips and pearls	Dr. Yelena Zeitlin
13:45-14:00	The newborn with congenital heart disease and limited pulmonary blood flow: Catheter-based stenting of the ductus arteriosus	Dr. Tamir Dagan
14:00-14:15	Surgical Treatment and Results: Arterial Switch for Transposition of the Great Arteries	Dr. Muhamad Nuri
14:15-14:30	Surgical Treatment and Results: Tetralogy of Fallot	Dr. Gabi Amir
14:30-14:45	Surgical Treatment and Results: Staged Reconstruction in Hypoplastic Left Heart Syndrome	Dr. Jonathan Chen
14:45-15:00	Abnormalities of the lymphatic circulation in infancy: diagnosis and novel treatment strategies	Dr. Yoav Dori
14:45-15:00	Mechanical support for the failing heart and cardiac transplantation	Dr. Joseph Rossano
15:00-15:30	Panel Discussion Q & A/ Cases	Faculty
15:30-15:45	Break	
<b>Session 8: Models and Systems for Congenital Heart Care Around the World</b>		
15:45-16:00	Management of congenital heart disease in developing countries: Perinatal and newborn care and long-term challenges	Dr. Nazih Asleh
16:00-16:30	Care and outcomes for congenital heart disease in the middle east (Parents and Patient Perspective)	Parents and Providers
16:30-17:30	Moderated Panel Discussion: Complex Cases/Binding it all together - optimizing the trajectory of lifelong care and management for complex fetal cardiovascular disease	All Faculty Panel Discussion
17:30-17:45	Closing Remarks	Dr. Jack Rychik, Dr. Werner Diehl, & Dr. Einat Birk
17:45	Adjourn: End of Conference	


**Fetal ECHO Workshop****DAY 3: Sunday - October 30, 2022**

TIME	TOPIC	SPEAKER
07:00	Registration Open	
Optional Fetal Echocardiography Workshop [Limited to 40 Seats.]		
08:00-17:30	Detection & Characterization of Fetal Cardiovascular Disease: A Fetal Echocardiography Workshop  An intense, hands-on and simulator-based, session covering the indications, views, techniques, anomalies and different diagnoses of congenital heart disease. [Additional information in separate, detailed Workshop brochure.]	
17:30	Adjourn: End of Conference	



## HOW TO REGISTER

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### Registration Fees

Please select the conference that is relevant to your speciality.

Category	Physical	Virtual
<input type="checkbox"/> Doctors	AED 900	AED 600
<input type="checkbox"/> Non-Doctors	AED 700	AED 400
<input type="checkbox"/> Medical Residents / Students	AED 500	AED 200

Optional	Physical
<input type="checkbox"/> Fetal Echocardiography Workshop	AED 1000

\* Limited to 40 seats.

A confirmation email will be sent upon receipt of your registration form. Please note that full payment must be received prior to the event. Payment can be made via Online, Credit card, Cheque, Bank drafts in AED. \*Additional 5% VAT will be applicable on all fees.

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### Organizing Office

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Middle East North Africa Conference Company LLC

For registration and further information, please contact

Mr. Jerico | Ph : +971 2 4919888  
Mob : + 971 56 5033749  
Email: [jerico@menaconference.com](mailto:jerico@menaconference.com)

### Cancellation / Substitution Policy

If you are unable to attend, a substitute delegate will be very welcome in your place. If this is not suitable, a 20% administration fee will apply. Registrations cancelled less than one weeks before the event are non refundable.

### Event Venue

Rosewood Hotel  
Abu Dhabi, UAE

The organizing committee reserve the right to make any modifications to the programme in occurrence of any unforeseen circumstances.



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Middle East North Africa Conference Company LLC

[www.menaconference.com](http://www.menaconference.com)

For registration & further information, please contact:

**Mr. Jerico & Ms. Zandy**

Tel: +971 2 4919888, Mobile: +971 56 503 3749, +971 56 503 3746

Email: [jerico@menaconference.com](mailto:jerico@menaconference.com), [zandy@menaconference.com](mailto:zandy@menaconference.com)