

# PROGRAMME and ABSTRACT BOOK



# 12th GLOBAL FORUM ON HUMANITARIAN MEDICINE IN CARDIOLOGY AND CARDIAC SURGERY

### and

3rd EURO-ASIAN SYMPOSIUM of PEADIATRIC CARDIOLOGY AND CARDIAC SURGERY

ATHENS, GREECE, APRIL 11 - 15, 2018

Under the patronage of The President of the Hellenic Republic

HE Prokopis PAVLOPOULOS

Organized by:



President: A. Kalangos



Mitera Hospital, Athens Dr A. Tzifa

Secretary General: J.T. Christenson



### WELCOME

The inequality between North and South is widening every day. Developing countries face a chronic shortfall in financial, technological and human resources, a heavy burden of widespread communicable disease and the devastating consequences of sociopolitical conflicts. To these, globalisation and new lifestyles have added in recent years the rapid emergence of "diseases of affluence", among which cardiovascular conditions feature as the most life threatening.

There are currently between 8 and 24 million children in the world who were born with congenital malformations, half of whom will die for lack of care before reaching their second birthday. Among the survivors, 5 million, mostly in poor countries, are in desperate need of open-heart surgery. Notably in addition it has been estimated that in Low-and Middle Income countries approximately 90% of children with heart disease do not have access to cardiovascular centres. For how long will they have to wait? This issue calls for immediate action.

Cardiovascular diseases are rapidly emerging as a major threat for the health of populations in the developing world. They could offer both a challenge and an opportunity, provided the international community fully understands that by organizing the response now, at the point of emergence, we can prevent them turning into a widespread disaster.

While there exists one cardiovascular centre for every 120,000 people in the United States, Asia has only one for 16 million people and Africa one for 33 million. Globally, 4.5 billion do not have access to such care.

In spite of the vast numbers of individuals and organizations scattered all over the world, who deploy relentless humanitarian efforts to tackle this problem, we cannot foresee any marked progress in the near future. It is therefore urgent that around 80 NGO's currently specializing in pediatric cardiac care throughout the world (according to a recent survey in 92 countries), international organizations such as the WHO, the Word Bank or the International Organization for Migration (IOM), as well as the very supportive medical and pharmaceutical industries create a consensual approach and undertake globally agreed upon action to fight cardiovascular diseases.

This is the purpose of the Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery (GF): that we join all our forces in the struggle to close the gaping disparity between the medical skills and technology of the North and those of the South, and thus make our contribution towards a more equitable world.



Professor Afksendiyos Kalangos and Dr Jan T. Christenson founded the Global Forum in Humanitarian Medicine in Cardiology and Cardiac Surgery (GF) in 2003 in Geneva, Switzerland. The first GF was held May 2003. The GF was under the patronage of the local NGO Coeur pour Tous in Geneva, Switzerland. The Forum discuss how to best cooperate and assist in capacity building within the health sector of the South, and is reflecting on the achievements and failures of the past in order to create the vision that would ensure the success of partnerships and collaborative efforts. It also identifies sectors of pediatric cardiology and cardiac surgery that must be developed in emerging countries in order to check the steady advancement of heart disease in children. This includes education, research and training through various programs such as the International Quality Improvement Collaborative (IQIC) for Congenital Heart Disease: Improving Care in Low-and-Middle-Income Countries.

This year we have a joint Conference with the 3<sup>rd</sup> Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery to attract more cardiologist and cardiac surgeons to be involved in this humanitarian effort.

The Organizing Committee of the 12<sup>th</sup> GF and the 3<sup>rd</sup> Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery warmly welcomes you to Athens, Greece in April 2018 and looks forward to intensive and fruitful discussion during the conference.

Prof. Afksendiyos Kalangos

President Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery

Director Pediatric cardiac Surgery Mitera Hospital, Athens, Greece

Dr Aphrodite Tzifi, MD

Director Pediatric Cardiology MITERA Hospital, Athens, Greece Dr Jan T. Christenson

Secretary General Global Forum on Humanitarian Medicine Cardiology and Cardiac Surgery

Cardio-vascular Surgeon Geneva, Switzerland



## LOCAL ORGANIZING COMMITTEE

### Chairman

**Prof. Afksendiyos KALANGOS**, MD; PhD, FETCS, DSc (Hon.)
President and Founder Global Forum
on Humanitarian Medicine in Cardiology and Cardiac Surgery
Director Cardiovascular Clinic, MITERA Hospital, Athens, Greece

### Vice-Chairman

Prof. William M. NOVICK, MS, MD

Founder, CEO and Medical Director the William Novick Cardiac Alliance, Memphis, TN, USA

### **Permanent Secretary General**

DR. Jan T. CHRISTENSON, MA, MD, PhD, FETCS

Secretary General and Founder Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery Geneva, Switzerland

### **Members**

### **Prof. Kathy JENKINS**

Cardiology, Harvard Medical School, Children's Hospital, Boston, MA, USA IQIC

### **Dr Aphrodite TZIFA**

Director Pediatric Cardiology, MITERA Hospital, Athens, Greece

#### Dr Nataliya SHATELEN

Kiev Heart Centre, Kiev, Ukraine

#### Mrs. Bistra ZHELEVA

Childrens HeartLink, Intl' Program Manager, Minneapolis, MN, USA

### **Mr. Evangelos ARETAIOS**

International Operations Coordinator, Kalangos Foundation, Baküköy, Istanbul, Turkey

#### Mrs Michalea STAVROULA

MITERA Hospital, Athens, Greece

### Mr Gerhard J. SCHNEIDER

GJS Communication Anif, Austria



# **Supporting Organizations**

### of the

12<sup>th</sup> Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery &
3<sup>rd</sup> Euro-Asian symposium on Congenital Cardiology and Cardiac Surgery

# **Kalangos Foundation**

MITERA Hospital, Athens, Greece

**World Heart Federation** 

Hellenic Society of Thoracic and Cardiovascular Surgeons
World Society of Cardiovascular and Thoracic Surgeons

Hellenic Association of Paediatric Cardiology

**Global Heart Network** 

The organizing committee extends its sincere gratitude to these organizations for their support making this conference



# **Invited Guest speakers**

Professor ANDERSON, David R., Evelina London Children's Hospital, London, UK

Professor BERGERSEN, Lisa, Children's Hospital Boston, Boston, MA, USA

Professor BUTERA Gianfranco, Policlinico San Donati, Milano, Italy.

Professor BAIRD Christopher W, Harvard Medical School, Children's Hospital, Boston, MA, USA

Professor CHRYSOSTOMOU, Constantinos, Chief, Cardiac Critical Care, Nemour's Children's Hospital, Orlando, FL, USA

Professor JENKINS, Kathy, Harvard Medical School, Children's Hospital, Boston, MA, USA

Professor JOVANOVIC, Ida, Chief Pediatric Cardiology, Belgrade, Serbia

Professor KALANGOS, Afksendiyos, Director Cardiovascular Clinic, MITERA Hospital, Athens, Greece.

Professor KUMAR, R. Krishna, Amrita Institute of Medical Science, AIMS, Kochi, India

Professor LANGE, Rüdiger, Chief, German Heart Center, Munich, Germany

Professor McELHINNEY, Doff, Stanford University Medical Center, Dept. cardiothoracic surgery, pediatric cardiac surgery, Palo Alto, CA,USA

Mr MOLLOY, Frank, Co-Chair PCICS and William Novick Cardiac Alliance Memphis, TN, USA

Professor NOVICK, William M, CEO, The William Novick Cardiac Alliance, Memphis, TN, USA

Professor PETROPOULOS, Andreas, Merezi Klinika, Baku, Azerbaijan

Mrs PETROPOULOU, Myrtho, Executive Director, Global Heart Network Foundation, Baku Azerbaijan

Professor PHOTIADES, Joachim, Berlin Heart Center, Berlin, Germany

Professor THOMSON, John, Nuffield Health Hospital, Leeds, UK

Doctor TZIFA, Aphrodite, Director Pediatric Cardiology, MITERA Hospital, Athens, Greece

Mrs ZHELEVA, Bistra, Vice President of Strategy and advocacy Children's HeartLink, Minneapolis, MN, USA



# **CHAIR PERSONS**

Thursday April 12, 2018

**SESSION 1** W. Novick, Memphis, TN, USA

A. KALANGOS, Athens, Greece

**SESSION 2** K. JENKINS, Boston, MA, USA

J.T. CHRISTENSON, Geneva, Switzerland

Friday April 13, 2018

SESSION 3 D. McELHINNEY, Palo Alto, CA, USA

A. TZIFA, Athens, Greece

**SESSION 4** W.M. NOVICK, Memphis, TN, USA

K.R. KUMAR, Kochi, India

Saturday April 14, 2018

**SESSION 5** D.R. ANDERSON, London, UK

J.T. CHRISTENSON, Geneva, Switzerland

**SESSION 6** I. JOVANOVIC, Belgrade, Serbia

J. THOMSON, Leeds, UK

**Sunday April 15, 2018** 

SESSION 7 A. PETROPOULOS, Baku, Azerbajian

A. TZIFA, Athens, Greece



# **ACKNOWLEDGEMENTS**

The Organizing Committee wishes to acknowledge with gratitude the generous
Support given the
12th Global Forum on Humanitarian Medicine
In Cardiology and Cardiac Surgery

R,

3<sup>rd</sup> Euro-Asian Symposium of pediatric cardiology and cardiac surgery by the following:









Medtronic, Greece



# **PROGRAMME**



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### **PROGRAMME**

International Quality Improvement Collaborative (IQCI) for Congenital Heart Disease: Improving Care in Low- and Middle-Income Countries

### WENDESDAY APRIL 11, 2018



12:00 - 13:30 Luncheon - IQIC Steering Committee

13:30 - 16:00 Mitera Hospital Conference Hall

4400 4445

### **IQIC Virtual Quality Improvement Course Launch**

This course is offered to all IQCI participating sites.

Educational resources and mentorship will be provided for each team member to complete a required quality improvement project. There will be an opportunity to present this project virtually or in-person during the 12th Global Forum on Humanitarian Medicine in Cardiology and cardiac surgery, to be held in Athens, Greece.

The course will be divided into four modules over 6-7 months. Each module will consist of two or three lectures. There will be deliverables for each lecture that will be completed by each course participant. This online longitudinal course will provide detailed education on topics such as: Quality Improvement versus Research, Areas for Improvement, Developing and Leading Quality Improvement Teams, The Model for Improvement, Quality Improvement Tools and Data Collection, Data Analysis, Feasibility Studies, Learning Loops, Presenting and Publishing Quality Improvement Work.

The course will be overseen by quality improvement experts and course coordinators including: Physician Leaders: Dr. Kathy Jenkins (Boston Children's Hospital) and Jeffrey Anderson (Cincinatti Children's Hospital), Nursing leaders: Mary McLellan (Boston Children's Hospital and Sarah Lovern (Children's HeartLink) and Course Coordinators Kate Dorherty and Andi Goodman (Boston Children's Hospital).

Please e-mail IQIC at internationalQI@childrens.harvard.edu with any questions.

14:00 – 14:15	Introduction to IQIC Quality Improvement Course
14:15 - 14:30	Introduction to Quality Improvement
14:30 - 14:45	Building a QI Team
14:45 - 15:00	QI Initiatives: Examples and Reality
15:00 - 15:20	Coffee Break
15:20 - 15.55	Breakout Session
15:55 - 16:00	Discussion and Wrap-Up

### **IQIC Cardiac Catheterization Database - Quality Improvement**

Discussion

Chair: Kathy Jenkins, Boston, MA, USA

*Friday April 13, 2018* 

18:00 – 20:00 Hotel Civitel Olimpia

Saturday April 14, 2018

11:00 – 12:30 Mitera Hospital Conference Hall

**THURSDAY APRIL 12, 2018** 

07:30 - 17:30 Registration

11:00 - 11:30

11:30 - 12:00

TN, USA

### **09:00 - 09:30 Opening Ceremony**

12<sup>th</sup> Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery (GF) and the 3<sup>rd</sup> Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery (EA)

		Surgery (LA)
	ome address	Professor Afksendiyos KALANGOS Director Pediatric Cardiac Surgery MITERA Hospital, Athens, Greece President GFHM
In Memory of Christos LOLAS		Doctor Sotirios PRAPAS, MD, FECTS Director Cardiac Surgery Henry Dunant Hospital, Athens, Greece President of Hellenic Society of cardio- Vascular & Thoracic Surgeons
09:30 - 12:00	Session 1	(GF + EA)
	Chair: Novi	ck W. USA and Kalangos A., Greece
09:30 - 10:00	Replacemer Heart Disea	ng Role of Transcatheter Pulmonary Valve nt in the Management of Patients with Congenital ase Involving the Right Ventricular Outflow Tract. Doff, Stanford University Medical Center, Palo Alto, CA,
10:00 - 10:30		<b>Burden of Pediatric Heart Disease</b> ra, Minneapolis, Children's HeartLink, MN, USA
10:30 - 11:00	Internation	al Surgical Missions: Do They Make a Difference?

The International Quality Improvement Collaborative for Congenital Heart Disease Improving Care in Low- and Middle Income Countries
Jenkins, Kathy, Children's Hospital, Boston, MA, USA

Novick William, M., The William Novick Global Alliance, Memphis,

Anderson, David R. Evelina Children's Hospital, London, UK

Impact of 25 Years of Humanitarian Assistance.

12:00 - 13:30	Luncheon – non-organized
13:30 - 17:30	Session 2 (GF)
	Chair: Jenkins K, USA and Christenson J.T., Switzerland
13:30 - 14:00	<b>Financing Congenital Heart Disease Services in the UK NHS</b> Thomson, John, Leeds, UK
14:00 - 14:30	Pediatric Cardiac Intensive Care Society (PCICS) Statement: Caring for Children with Critical Cardiac Disease Across the Globe. Malloy F. Co-chair PCICS
14:30 - 15:00	Training Pediatric Professionals in Low-and Middle Income Countries: Challenges and Potential Solutions Kumar, R. Krishna, Amrita Institute of Medical Science, AIMS, Kochi, India
15:00 - 15:30	Coffee Break
15:30 - 16:00	<b>The Impact of Humanitarian Missions in Serbia</b> Jovanovic, Ida, Chief Pediatric Cardiologist, Belgrade, Serbia
16:00 - 16:30	The Burden of Congenital Heart Disease in China: How to Deal with That? Petropoulos, Andreas, Merezi Klinika, Baku, Azerbaijan
16:30 – 17:00	Nutritional Status and Challenges in International Pediatric Cardiac Assistance Malloy Frank, Novick Cardiac Alliance, Memphis, TN, USA
Free papers	
17:00 – 17:15	O1 Rahman S., IQIC steering committee, Boston, MA, USA Congenital Heart Disease Survival in Low and Middle Income Countries: Linking Investment and Outcomes
17:15 – 17:30	O2 <u>Tefera E.</u> , Nega B., Yadeta, Chanie Y. Pediatrics & Child Health, University of Botswana, Faculty of Medicine, Gaborone, Botswana and School of Medicine Addis Ababa University, Ethiopia.  Humanitarian Cardiology and cardiac surgery in sub-Saharan Africa: Can we reshape the model.

*Invited Guest speakers dinner (by invitation only)* **Evening free activities** 

# FRIDAY APRIL 13, 2018

07:30 - 17:30	FRIDAY APRIL 13, 2018 Registration
08:30 - 12:00	Session 3 (EA)
	Chair: McElhinney D., USA and Tzifa A., Greece
08:30 - 09:00	Surgical Management of ALCAPA in Newborns and Long Term Results Lange, Rüdiger, German Heart Center, Munich Germany
09:00 - 09:30	Aortic Valve Repair in Congenital Heart Disease Kalangos Afksendiyos, Mitera Hospital, Athens, Greece
09:30 - 10:00	<b>Surgical Management of Complex TGA</b> Baird Christopher, Children's Hospital Boston, Boston, MA, USA
10:00 - 10:30	Coffee Break
10:30 – 11:00	Single Stage Unifocalization and Repair for Tetralogy of Fallot with Pulmonary Atresia and MAPCAs: the Standford Approach and Experience.  McELHINNEY Doff, Stanford University Medical Center, Palo Alta, CA, USA
11:00 - 11:30	<b>Modified Ross-Kono Operation for Congenital Aortic Stenosis</b> Photiades J. Berlin Heart Center, Berlin, Germany
11:30 - 12:00	Current ECLS; Is Sustained Survival of More Than 50% Reachable? Chrysostomou, Constantinos, Nemours Children's Hospital, Orlando, FL, USA
12:00 13:00	Luncheon - non-organized
13:00 - 14:30	Panel Discussion, Humanitarian Journal Kalangos Afksendiyos, Athens, Greece D. Anderson - K. Jenkins - I. Jovanovic - J. Photiades - J. Thomson - D. Mc Elhinney - C. Baird - W. Novick - G. Butera - A.Tzifa - N. Shatelen - A. Petropoulos and J.T. Christenson

14:30 - 17:45	Session 4 (GF)
	Chair: Novick W., USA , Kumar R.K., India
14:30 – 15:00	Cutting Costs without Cutting Corners: Catheter Interventions in Low Resources Environments. Kumar, R. Krishna, Amrita Institute of Medical Science, AIMS, Kochi, India
Free papers	
15:00 – 15:15	O3 Babar H., Ladak L., Pearson D., Jenkins K., et al. Aga Khan University Hospital, Karachi, Pakistan, University of Sydney, Sydney, Australia and Children's Hospital, Boston, MA, USA Adult Congenital Cardiac Life-Long Needs Evaluation in a Low-Middle Income Country, Pakistan: Perspective From Patients and Healthcare Professionals – ACCESS Study
15:15 – 15:30	O4 Ali F., Mehdi M.Q.,Akhtar S., Aslam N. Abbas R., Shah I., Goodman A., Bergersen L., Babar H. Aga Kahn University, Karachi, Pakistan and Children's Hospital, Boston, MA, USA
	Impact of the Congenital Cardiac Catheterization Project on Outcomes – Quality Improvement (C3PO-QI) in Low and Middle Income Countries (LMICs): A Single Center Experience in Pakistan
15:30 - 15:45	O5 Ladak L.A., <u>Babar H</u> . Gullick J., Awais K., Abdullah A., Gallagher R. University of Sydney, Sydney, Australia and Aga Kahn University, Karachi, Pakistan  Health Related OfLife in Post-Operative Congenital Heart
	Disease Adults: a Mixed Methods Study from a Low-Middle Income Country Pakistan
15:45 – 16:00	O6 Bina N. La Chaine de l'espoir, Paris, France First Cardiac Surgery Experiences in Afghanistan
16:00 - 16:30	Coffee Break
16:30 – 16:45	<b>07</b> Sharau G.G., Majani N., Kubhoja S., Mhewa O.Mlawi V.Mongella S. Jakwete Cardiac Institute, Dar eL Salaam, Tanzania Sustainable Paediatric Cardiac Services In a Developing Country: Wishful Thinking or Reality in the Making?
16:45 - 17:00	O8 <u>Sreemanthi S.</u> , Hearts for Hearts, Chennai, India Sustainable project for Underprivileged Children with cardiac Disease in India

17:00 - 17:15	09 <u>Zhakipbayev D</u> .
	Dept. of Pavlodar Regional Cardiological Center, Pavlodar,
	Kazakhstan
	Five Years Experience of Pediatric Cardiac Surgery
17:15 - 17:30	<b>010</b> Bhag G., Bipin H., Mohanty S., Rao S.
	Children's Heart Center, Kokilaben Dhirubhai Ambani Hospital, Mumbai, India
	Thriving Neonatal Surgical Unit: Has Children's Heart Centre,
	Mumbai, solved the Problem
17:30 - 17:45	O11 Javed L., Mansoor R., Amanullah M.
	Aga Khan University Hospital, Karachi, Pakistan
	Outcomes of Fontan Surgery in Developing Country

Evening free activities

SATURDAY APRIL 14, 2018

07:30 - 17:30	Registration
08:30 - 12:00	Session 5 (EA/ GF)
	Chair: Anderson D.R., UK and Christenson J.T., Switzerland
08:30 - 09:00	<b>Transcatheter Closure of Complex Arterial Ducts</b> Butera Gianfranco, San Donato Milanese, Milan, Italy
09:00 - 09:30	<b>Pros and Cons of Transcatheter ASD Closure</b> Thomson John, Leeds Hospital, Leeds, UK
09:30 - 10:00	Transcatheter Cardiac Interventions During Humanitarian Missions: Benefits and Obstacles Butera, Gianfranco, Policlinico San Donato, Milan, Italy
10:30 - 11:00	Coffee Break
11:00 - 11:30	Pediatric (CHD) Catheter Database and QI including IMPACT and C3PO Bergersen, Lisa, Children's Hospital Boston, Boston, MA, USA
11:00 - 12:30	IQIC's Catheterization Registry Jenkins Kathy, Children's Hospital Boston, Boston, MA, USA
12:30 - 13:00	Increasing Access to Quality Pediatric Cardiac Care in LMIC's, a Macro Impact Approach Zheleva, Bistra, Children's HeartLink, Minneapolis, MN, USA
12:30 - 13:00	Past, Present and the Future of Congenital Heart Surgery Anderson David, Evelina Children's Hospital, London, UK
13:00 - 14:00	Luncheon - non-organized
14:00 - 16:00	Session 6 (GF)
	Chair: Jovanovic I., Serbia and Thomson J, UK
14:00 - 14:30	The Future Role of the Global Heart Network: Long-Term Tactical Plan Petropoulos, Myrtho, Global Heart Network, Baku, Azerbaijan
14:30 - 14:45	Ethics of Operating on Complex Cases at the End of a Trip Novick, William M., The William Novick Global Alliance, Memphis, TN, USA

14:45 – 15:00	<b>Update on Quality Measurements</b> Jenkins, Kathy, Children's Hospital Boston, Boston, MA, USA
Free papers	
15:00 – 15:15	O12 Verstappen A., Ross S., De Stoutz N., Zheleva B. Global Heart Alliance, Philadelphia, PA, USA The Global Heart Alliance for Rheumatic and Congenital Hearts: Improving Outcomes through Empowering Patients and Family Organizations
15:15 – 15:30	O13 Johnson T.D., Draper A., Dos Santos J., Davis K., Francis J.R. Telethon Kids Institute, University of Western Australia, Royal Darwin Hospital, Darwin, Australia  Community Consultations, engagement and Implementation of the First Large Scale Rheumatic Heart Disease Screening Program in Timor-Leste
15:30 - 15:45	O14 Aziz S. Hashmi S., Amanullah M. Aga Khan University Hospital, Karachi, Pakistan Endocardial Cushion Defects in Down Syndrome and Non-Down Syndrome: Outcomes from a Teaching University Hospital
15:45 – 16:30	Poster discussions P1 - P11

**SUNDAY APRIL 15, 2018** 

08:30 - 09:30	Registration
09:00 - 11:00	Session 7 (EA+GF)
	Chair: Petroploulos A., Azerbaijan and Tzifa A., Greece
09:00 - 09:15	Fetal Detection of Univentricuar Physiology Hearts: Councelling and Outcomes Vlahos A. University of Ioannina, Ioannina, Greece
09:15 - 09:30	The Impact of Epigenetics in CHD Bonou Pipina, Mitera Hospital, Athens, Greece
09:30 - 09:45	Adult Congenital Heart Disease Networks in Greece Giannakoulas G., University of Thessaloniki, Thessaloniki, Greece
10:30 - 11:00	Coffee Break
09:45 - 10:15	<b>Pregnancy Dilemmas in Women with Congenital Heart Disease</b> Jovanovic Ida, University of Belgrade, Belgrade, Serbia
10:15 - 10:30	Coronary Artery Disease in Adults with Congenital Heart Disease Mitropoulos F., Mitera Hospital, Athens, Greece
10:30 - 11:00	Recent Changes in Paediatric Cardiology and Cardiac Surgery in Greece Tzifa Aphrodite, Mitera Hospital, Athens, Greece

# 11:00 - 11:30 Conclusion and Closure

12<sup>th</sup> Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery (GF) and the 3<sup>rd</sup> Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery