

Program Book

Basic Fetal Echocardiography Course

Harapan Kita Women and Children's Hospital
Jakarta-Indonesia





Vision

Top 10 Asian Fetal Heart Service, Research, & Training Center
In 2030

Mission

Provide the most advanced and efficient integrated care of pre-natal diagnostic and post-natal management of congenital heart diseases.

Become a pioneer in national or regional database/registry for congenital heart disease.

Translate the research into practice guideline to improve the outcomes of congenital heart disease diagnosis and management.



Introduction

The Importance of Fetal Echocardiography Training

Challenging diagnosis of congenital heart disease by obstetrician during routine antenatal care.

High neonatal mortality & morbidity rate of congenital heart disease (Approximately 100% perinatal death for Ebstein's anomaly & HLHS in Indonesia)

Benefit effect in early treatment, possibility for intrauterine intervention

High rate of prenatal CHD misdiagnosis (referred case)



The Team

Advisory Board
Didi Danukusumo

Director
Irvan Adenin

Secretary
Endang Pariningsih

Vice Director
Winda Azwani

Fetal Medicine
Irvan Adenin
Aditiya Kusuma
Gatot Abdurrazak
Sadina Pramuktini
Novan Satya P

Training
Rita Yuliani
Huzaimah
Nenah

Research
Aditiya Kusuma
Adly Nanda A
Lidomon Salim
Putriana Rahim

Pediatric Cardiology
Winda Azwani
Syarif Rohimi

*IT & Business
Development*
Adly Nanda A

Nurse Team
Nurhayati
Diah Yuliani
Dewi Setiawati
Anis Susanti R
Nemsi Carolina
Siti K Andari
Meirita Ramadhani

Pediatric Cardiothoracic Surgery
Budi Rahmat

Perinatology
Jo Edy Siswanto

Imaging
Ido Bramantyo

Genetics
Lydia Pratnu

Services

Fetal Echocardiography: an ultrasound of the heart to diagnose congenital heart disease, arrhythmias, and congestive heart failure. The collaboration between fetal medicine team and pediatric cardiologists allows more accurate diagnosis.

First Trimester Fetal Echocardiography: Optimizing the latest technology in obstetrics ultrasound, the major congenital heart diseases are possible to be identified as early as 12 weeks of gestation.

Interdisciplinary Meeting & Birth Planning: Obstetricians, neonatologists, and pediatrics cardiologists collaborate to decide the best management in complicated cases. Birth planning, neonatal resuscitation, perinatal management, and long-term follow up were planned in this meeting.

Perinatal Critical Care Delivery Program: The mother will deliver at Harapan Kita Women and Children's Hospital with the support of the obstetrical team and neonatal specialists. NICU support prepared for high risk baby.

Cardiac Surgery: If we need to perform cardiac surgery or intervention soon after birth, stabilization, and surgery will be planned in our hospital.

Continuing care : Long term follow up will be conducted to ensure the growth and development of children had been managed due to complex congenital heart diseases in our hospital.





Research

Information & Technology (Centralized Database)

Fetal Echo Registration

Infrastructure (Laboratory, Statistic Lab, Ultrasound)

E10 Voluson GE Ultrasound + View Point™

Research Room

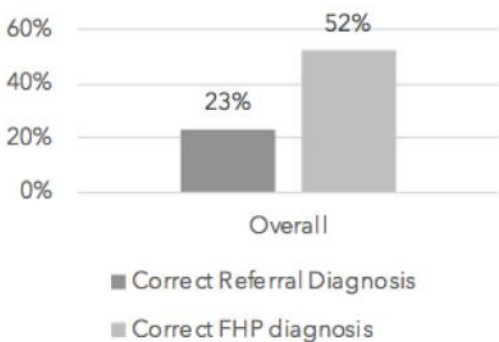
Genetics & Biomolecular Lab



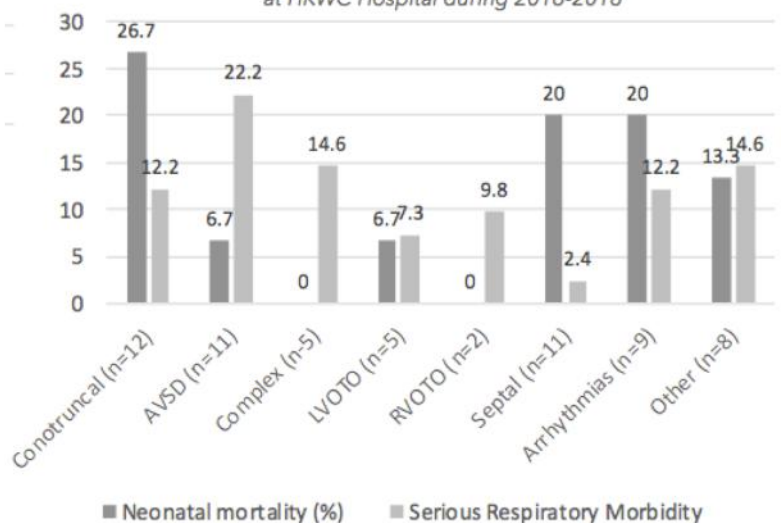
Surveillance



Diagnosis agreement between referral, pre-natal diagnosis, and post-natal diagnosis of referred CHD cases in Harapan Kita Women and Children's Hospital during the year of 2016-2018.



Neonatal mortality and serious respiratory morbidity based on the classification of CHD at HKWC Hospital during 2016-2018





Program at Glance

Objective

Competent in performing basic fetal echocardiography
Competent in diagnosing of common fetal arrhythmias
Understand the diagnosis of common congenital heart diseases (TOF, VSD, AVSD, TGA, Ebstein's Anomaly) & fetal arrhythmia (AV block, SVT, PAC, PVC)

Participant

OBGYN
Pediatrician
Pediatric Cardiologists
Sonographer

Time & Place

Time: 24-28 June 2019
Place: Harapan Kita Women and Children's Hospital

Training Description

5 days course
20 hour hands-on attachment (flexible schedule)

Training Methods

Interactive Lecture
Hands-On Demo
Coaching
Hands-on attachment



Evaluation Methods

Participants

Pre & Post test (online-based)

OSCE (6 procedural skills: 4 chamber view, LVOT, RVOT, Three Vessels View & TVT View, Ductal Arch, Aortic Arch)

Web-based logbook (10 normal cases and 5 pathological cases within a year, required for renewal the competence certificate)

Training

Feedback Questionnaires

Duration

5 days course

20 hour hands-on attachment training

Certificate

Certificate of attendance (Ministry of Health Republic of Indonesia)

Certificate of competence (for 1 year, prerequisite for intermediate & advanced course)

Team

1 training coordinator

1 hands on coordinator

10 lecturers

4 primary trainer

1 secretariat



Schedule

Time	Activities	Speaker	Duration
Day 1	Registration		30
	Pre Test		
	Opening Speech: The Past, Present, and Future of Fetal Cardiology in Indonesia	Didi Danukusumo	25"
	The Role of Fetal Echocardiography to improve neonatal outcomes	Sukman Tulus Putra	20"
	Building Learning Commitment	MOT	90"
	Prenatal Diagnosis of CHD in Indonesia	Johannes Mose	45"
	Training Policy in Indonesia	PPSDM	90"
	Introduction		
	Knobology	Aditiya Kusuma	45"
	Obstetrical aspects related to fetal echocardiography	Irvan Adenin	45"
Day 2	Genetics in CHD: Indication & Methods (Karyotyping & NIPT)	Lydia Pratanu	45"
	Genetic Test Interpretation	Lydia Pratanu	45"
	Pathophysiology of CHD: Basic Concept	Irvan Adenin	45"
	Segmental Analysis	Irvan Adenin	45"
	Systematic Heart Examination	Irvan Adenin	45"
	Hands-on: Fetal Lie Situs Axis Cardio-thoracic Ratio	Irvan Adenin	90"
	Heart Segmentation	Irvan Adenin	45"
	Hands on: Left Atrium Right Atrium Left Ventricle Right Ventricle	Irvan Adenin	45"

Schedule

Time	Activities	PIC	Duration
Day 3	Normal & Abnormal of Heart Structure		
	First trimester heart structure	Aditiya Kusuma	45"
	Second trimester heart structure		
	4 chamber view	Winda Azwani	45"
	LVOT, RVOT	Irvan, Sadina	45"
	3VV & 3VT View	Winda Azwani	45"
	Ductal Arch & Aortic Arch	Aditiya Kusuma	45"
	Hands on		
	4 chamber view	Winda Azwani	45"
	LVOT, RVOT, 3VV & 3VT View	Irvan Adenin	45"
Ductal Arch & Aortic Arch	Aditiya Kusuma	45"	
Day 4	CHD cases in Harapan Kita	Gatot Abdurrazak	45"
	Fetal Cardiac Normogram	Novan Satya	45"
	Hands on:	Novan Satya	90"
	Great Vessels Diameter	Irvan Adenin	
	Ventricular wall thickness		
	Great Vessels PSV		
	Common Fetal Arrhythmia & Fetal Heart Failure	Syarif Rohimi	45"
Hands on:	Syarif Rohimi	90"	
M-Mode			
Doppler			
Perinatology management in CHD	Edy Jo S	45"	
Day 5	Post test	Winda Azwani	180"
	OSCE	Irvan Adenin	180"
	Announcement & Closing	Irvan Adenin	



Registration

Registration at www.fetalheartprogram.id

E-mail: instpelatihan_rsabhk@yahoo.com | 021-5668284 ext 4414 |

Nenah (wa 0822 1005 5624)

Bank Account No: 0962-01-000073-30-08 (Bank Rakyat Indonesia)

Account Name: Bendahara Penerimaan Ops BLU RSAB HK

