



## Two Half Days of Hands-On Sessions

**Hands-on live scanning**

**Individual workstation cropping & analysis of clinical cases**

Register at [www.pedsecho.ca](http://www.pedsecho.ca)

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**ALBERTA**

## Course Objectives

- To describe and perform current applications of 3D echocardiography in pediatric congenital and acquired heart disease.
- To describe and perform 3D echocardiography in surgical and catheter interventional planning, and in evaluate the success of the intervention.

This workshop is designed will provide a detailed review of the up to date clinical applications of 3D echo in the evaluation of pediatric congenital & acquired heart disease. Each day is structured to provide morning lectures to lay the foundation knowledge 3D echo clinical role followed by afternoon, opportunity for hands-on live scanning to provide skills in purposeful acquisition of clinically useful 3DE data, and analysis sessions on individual laptops to master 3D cropping on case based scenarios.

**Stollery Children's Hospital**

8440 112 ST NW

Edmonton, Alberta T6G2B7

[www.pedsecho.ca](http://www.pedsecho.ca)

## Beyond Pretty Pictures 2020

**Clinical Application of 3D Echo  
in Pediatric Heart Disease**

April 24<sup>th</sup> & 25<sup>th</sup> 2020

Mazankowski Alberta Heart  
Institute, Edmonton, Alberta



# Invited Faculty

*Keynote speaker*

Dr. Pei-Ni Jone MD

*Faculties*

Dr. Mohammed Alaklabi MD

Dr. Kandice Mah MD

Dr. Silvia Alvarez MD

# Organizers

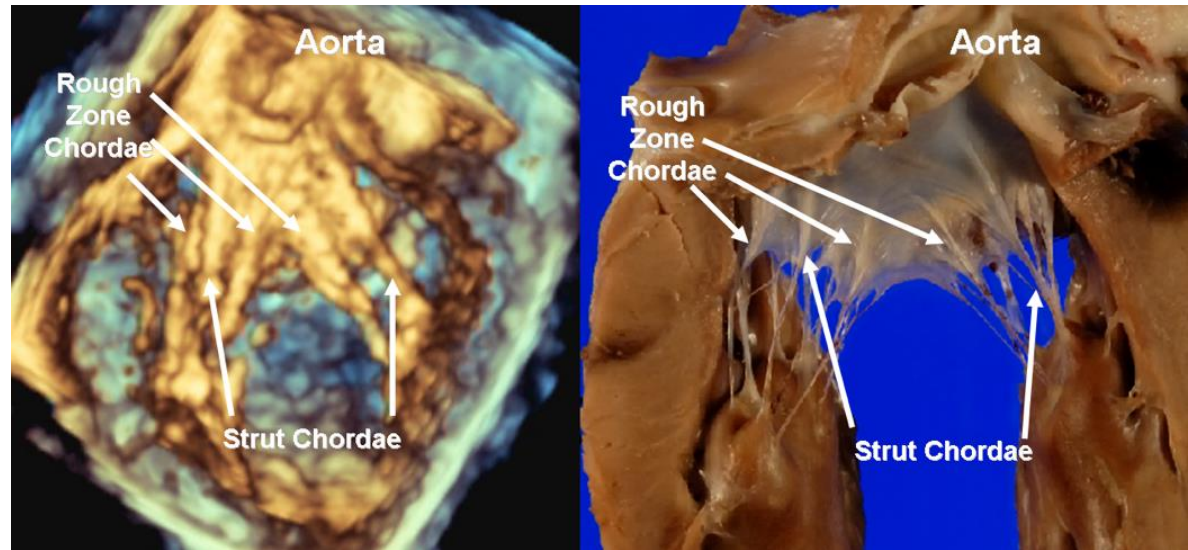
Dr. Lisa K Hornberger MD

Dr. Tim Colen MBBS

Dr. Nee Khoo MBChB

Dr. Lily Lin MD

Jennifer Mesch, RDCS



## Preliminary workshop program

### Friday 24<sup>th</sup> April 2020

*Morning*

Keynote - 3DE and perioperative utility  
3D LV strain, volume and function  
3D RV strain volume and function  
MV assessment  
TV assessment  
3DE in catheter interventions

*Afternoon*

Hands on image acquisition  
Offline Analysis Part I

Learning objectives:

- To describe the utility, advantage and limitations 3DE assessment in the perioperative assessment
- To describe assessment of 3DE LV and RV function
- To classify the anatomy and function of the tricuspid and mitral valves and mechanisms of valve dysfunction as demonstrated by 3D echocardiography
- To describe the use of 3DE in catheter intervention
- Perform and assess adequacy of 3DE of LV and RV
- Assess datasets, orientate and perform crops and use MPR on simple clinical scenarios

### Saturday 25<sup>th</sup> April 2020

*Morning*

Aortic valve/LVOTO/VSD  
AVSD  
Assessment of Early Valve Failure  
DORV  
Straddling valves  
Surgical perspective (invited surgeon)  
Future of 3DE and AI

*Afternoon*

Hands in image acquisition  
Offline Analysis Part II

Learning objectives:

- To describe 3D echo assessment of LVOTO, aortic valve repair and ventricular septal defects
- To describe 3D echo assessment of the AVSD
- To describe 3D echo use in planning surgery and post-surgery surveillance, including what a surgeon wants
- To describe the anatomy of complex lesions such as DORV and straddling valves
- Outline upcoming technologies in 3DE
- Perform and assess adequacy of 3DE of TV, AoV, MV
- Perform crops and use MPR to assess complex clinical scenarios

