



# 14th ECHO HONG KONG

*Mastering the All-Time Clinical Tool*

**23 - 26 November 2023**  
Hong Kong Convention and Exhibition Centre

## **Workshop II with Hands-on Demonstration**

### *Station A*

*Basic 2D Echo and Doppler Technique:  
Image Acquisition and Optimization*

Friday 24 November 2023

09:30 – 12:15

Room S428



## Case A1 - HKC

- 69/M; Never smoker
- PMH:
  - DM
  - CRHD with mild MS (known to cardiac team since Feb 2014, picked up in routine Cardiac MRI)



## Case A1 – HKC (con't)

- Echo in Nov 2022
  - Normal LVEF; dilated LA; MVA 1.5 cm<sup>2</sup> for both pressure half time and planimetry
- Learning point
  - Proper measurement of MVA to guide management



## Case A2 - LHY

- 78/M never smoker
- PMH:
  - HTN; Hyperlipidemia
  - AF on apixaban
  - moderate AR; referred to cardiac team in April 2019; noted during work up for cardiomegaly and progressive shortness of breath on exertion



## Case A2 – LHY (con't)

- Echo August 2023:
  - Normal LVEF; dilated LVEDD:  
5.7cm thickened aortic valve and calcified non cusp and moderate to severe AR  
Pressure half time: 356msec; PG: 14.9; Jet ratio: 58%; Holo diastolic reversal flow +ve
- Learning point
  - Echocardiographic evidence of severe AR and timing for Intervention



## Case A3 - CKK

- 66/M; ex smoker
- PMH
  - HTN; DM; Hyperlipidemia
  - CRHD with moderate to severe MR and MS (known to cardiac team since 2019, referred by family physician)



## Case A3 – CKK (con't)

- Progressive Shortness of breath on exertion
- Had Surgical Mitral valve replacement with On-X Conform Metallic valve on 22/1/2020
  - Immediate post OT echo:
  - LVEF normal; MVPG: 10/4mmHg; Pressure half time: 90ms



## Case A3 – CKK (con't)

- Doing well since post OT
  - Regular ergometry 1 hour 4 times weekly
- Latest echo in RH Sept 2021
  - Normal LVEF; conc LVH; Mean PG: 4mmHg
- Learning point
  - Proper interrogation of Metallic Prosthetic valve to guide patient management