





# **CLAP Snaps**

5 Key Messages **Mitral Valve** 

Thursday 25<sup>th</sup> October 2021

www.CardiothoracicAnaesthesia.com



# Anatomy and Pathophysiology of the MV



# **TOE Assessment of the Mitral Valve**

Dr Michiel du Toit (St Bartholomew's Hospital)



### **Post-Operative Care for Mitral Surgery**

**Dr Giuseppe Bozzetti** (Golden Jubilee National Hospital, Glasgow)





Consider assessing LV strain intra-op to help you select the best drug for the job – dobutamine or milrinone

> Choose your drugs wisely

SLIDESMANIA.COM

The LCx runs very close to the mitral annulus and may be caught by sutures or compressed by a haematoma – consider LCx injury post-op and correlate with echo

#### Remember the Circumflex

Rare but disastrous complication of MV surgery, associated with mitral anular calcification

Emergency pericardial patch repair

#### LV Rupture

High suspiscion for systolic anterior motion if unstable post-op

#### Risk factor

AL/PL ratio <1.3</li>
PML >15 mm
AML >27 mm
Distance between coaptation and interventricular septum (C-sept) <25 mm</li>
Small angle between the aortic and mitral annular planes (<120°)</li>
Small ventricle (<36 mm)</li>

#### Think SAM!

Stop Inotropes Optimise preload

5

Consider betablockers

Vasoconstrictors for hypotension

#### Manage SAM

# **Robotic Mitral Valve Surgery**

Mr Paul Modi (Liverpool Heart and Chest Hospital)

01	Decide what matters	Patient Safety > Best Quality of Repair > Least Invasive Approach
02	Mini-mitral is the fall back	Surgeon needs to be an expert in mini-mitral surgery before considering robotics: the fall-back approach is mini-mitral and only if this fails to consider sternotomy
03	Teamwork	The entire team (surgeons, anaesthetists, perfusionists, scrub staff, ODPs) need to be involved in the development of the team and then kept together to allow optimum performance and development
04	Good for patients	Robotic MV Surgery allows patients to go home on Day 2 post-op, and have much smaller incisions (and of course NO sternotomy)
05	Bypass access	Arterial bypass cannula and cardioplegia via combined line in femoral artery up to aortic sinus. Venous drainage cannula placed in RIJV by anaesthetist (alongside CVC), removed and closed with purse string by anaesthetist in theatre

### www.CardiothoracicAnaesthesia.com





SLIDESMANIA.COM

### **Anaesthetic Considerations For Endocarditis**

Dr Liz Ogilvie (St Bartholomew's Hospital)



Microbiological evidence not fitting major criteria

## **Surgical Considerations for Endocarditis**

#### Mr Gianluca Lucchese (St Thomas's Hospital)



### www.CardiothoracicAnaesthesia.com