

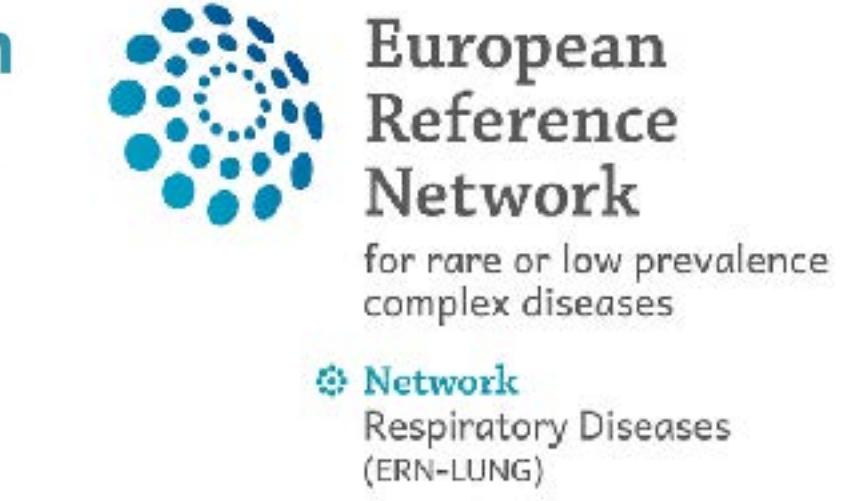
Congenital anomalies of the mitral valve

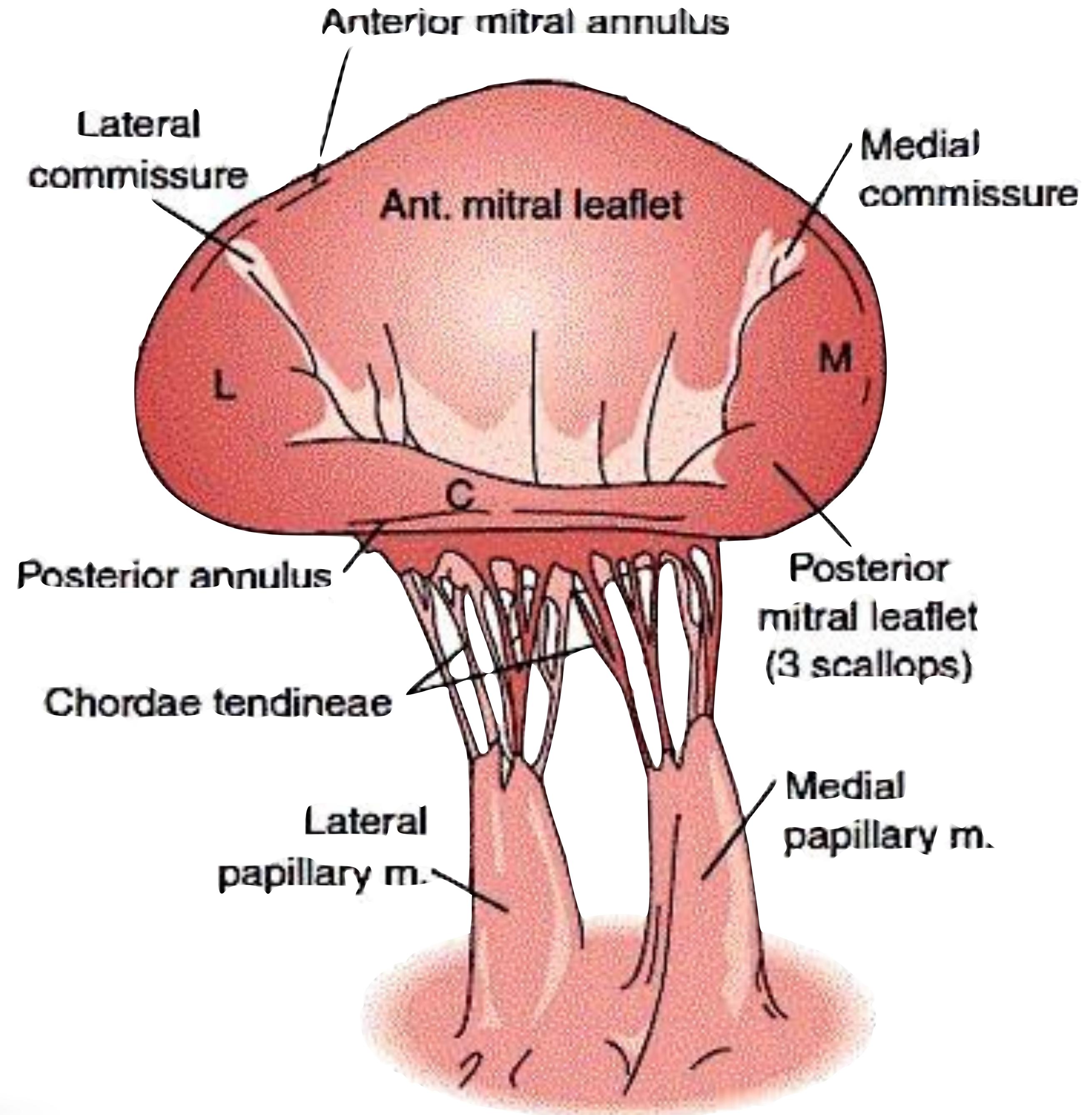


Damien Bonnet

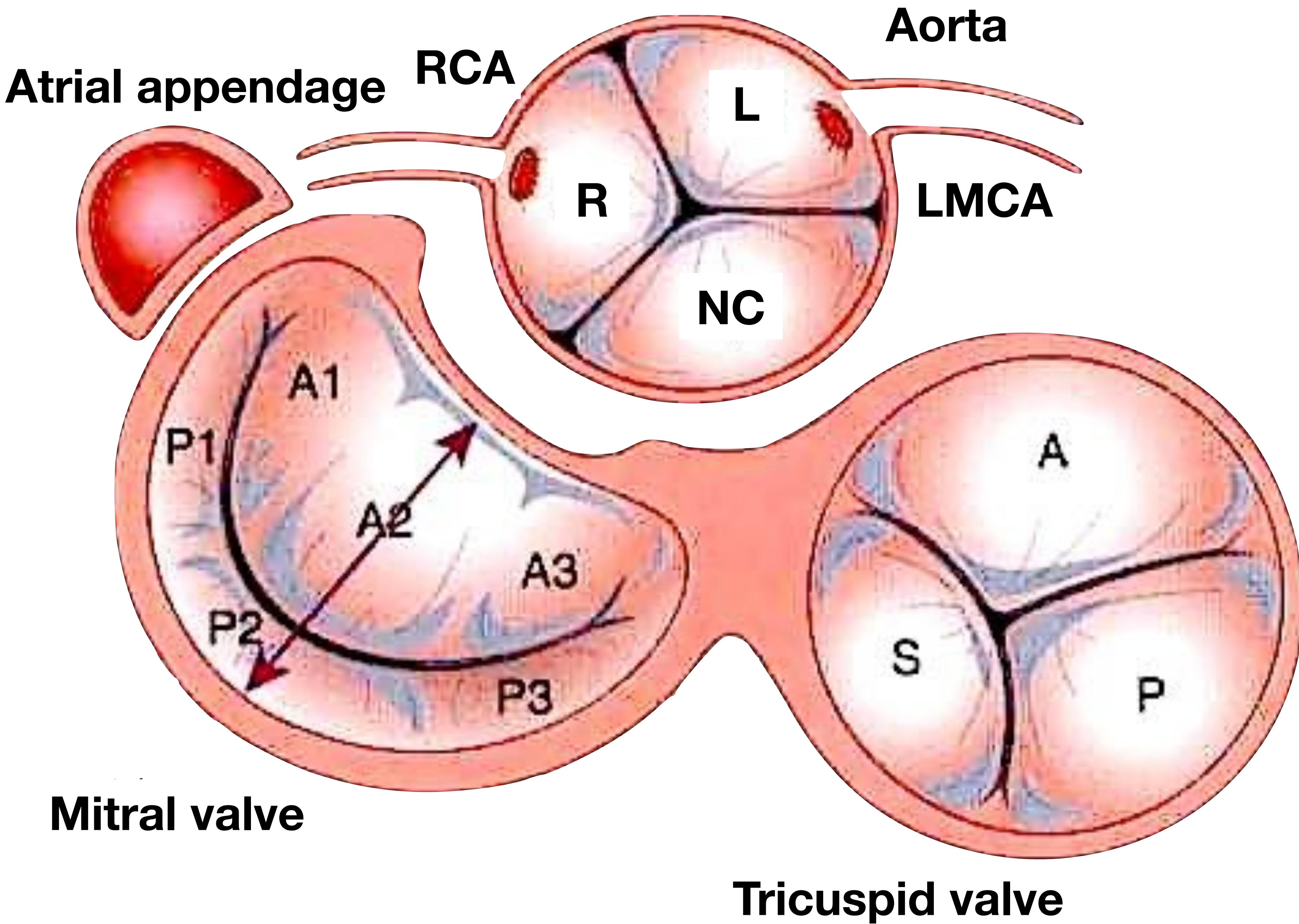
Service de Cardiologie Congénitale et Pédiatrique
Hôpital Universitaire Necker Enfants malades – APHP
Université de Paris
INSERM-U781 - Institut Hospitalo-Universitaire IMAGINE

Centre de Référence Maladies Rares
Malformations Cardiaques Congénitales Complexes-M3C
Centre de Référence Maladies Rares
Maladies Cardiaques Héréditaires- CARDIOGEN

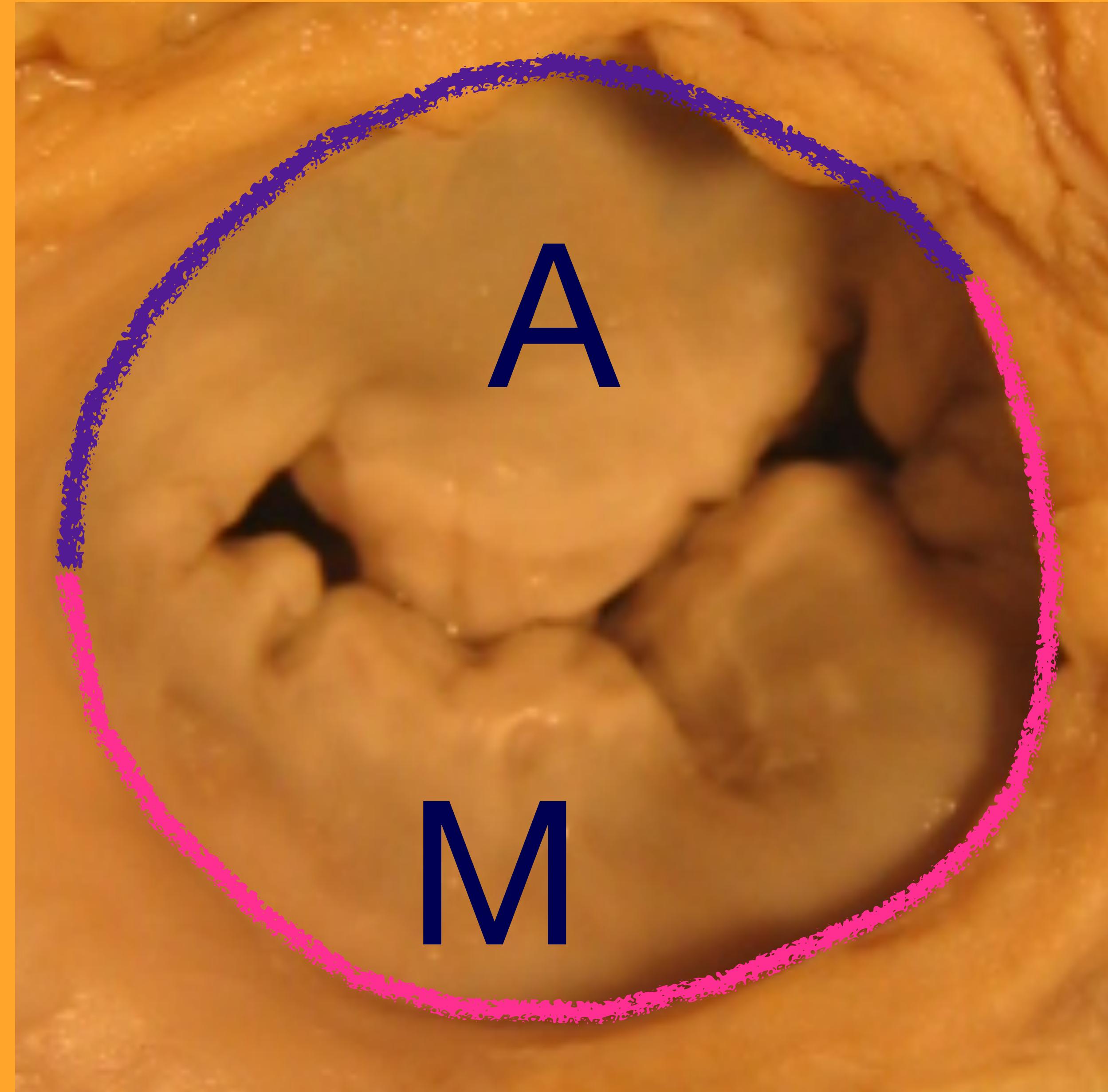




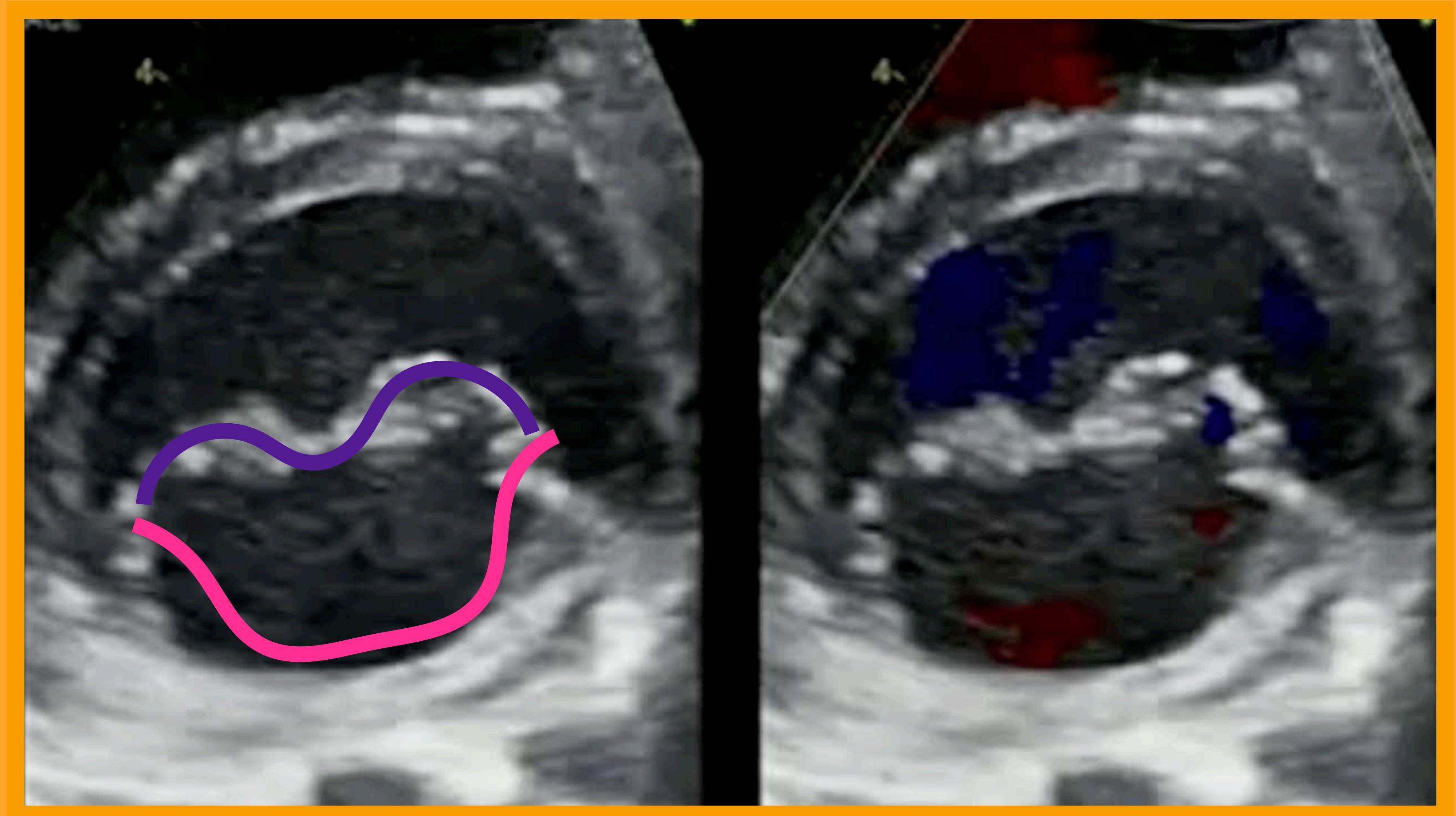
Mitral valve anatomy



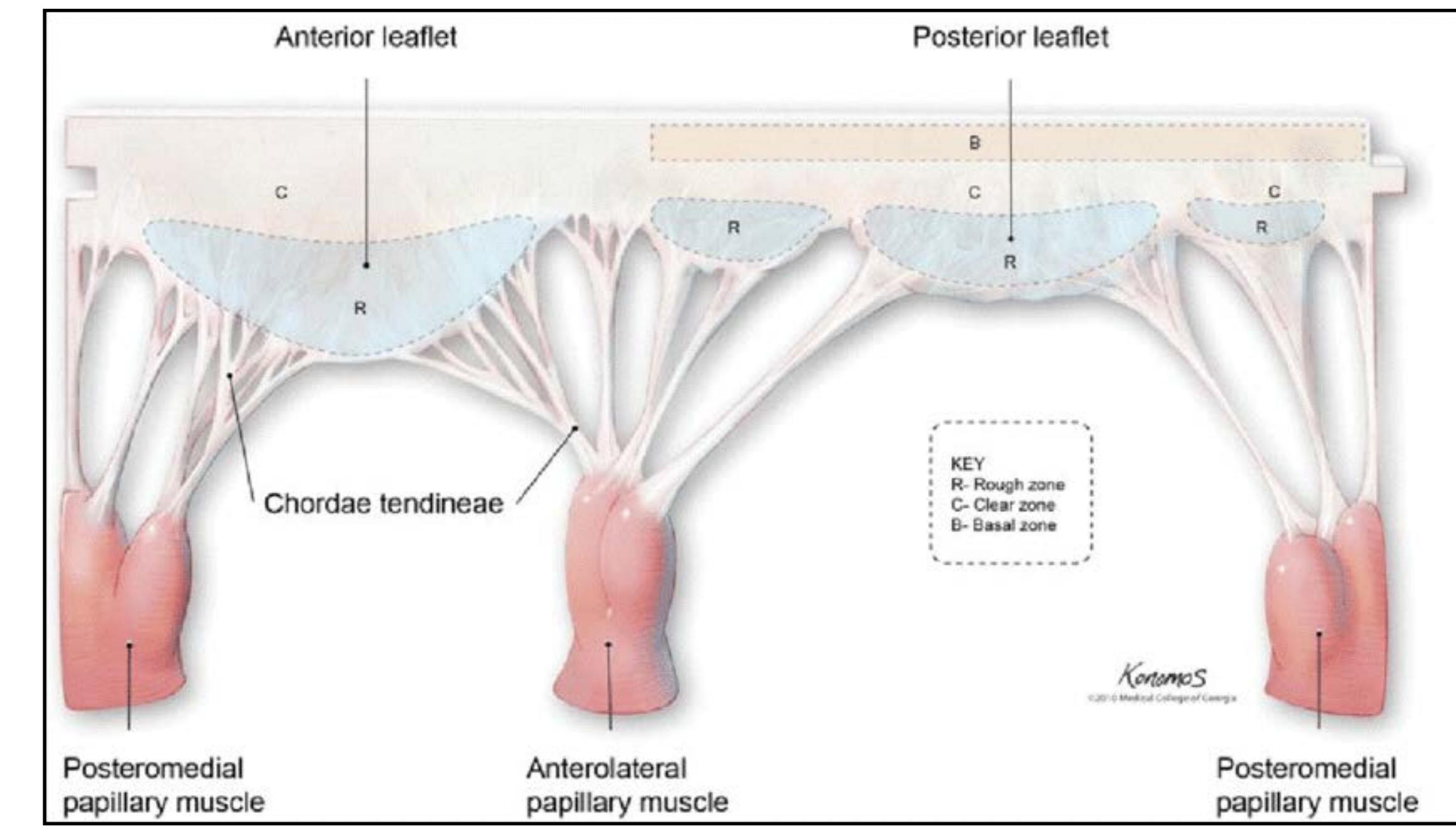
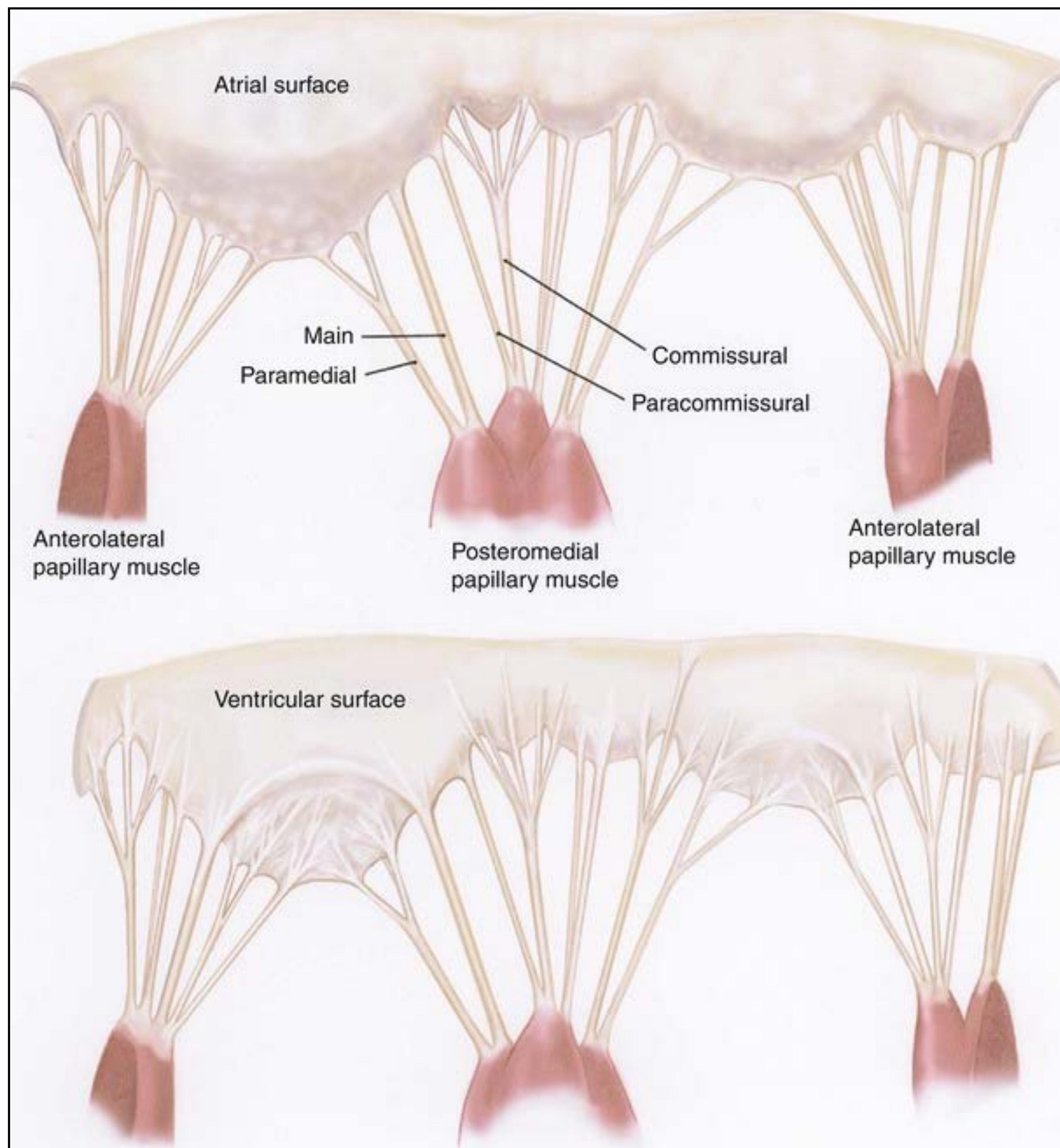
Mitral valve leaflets



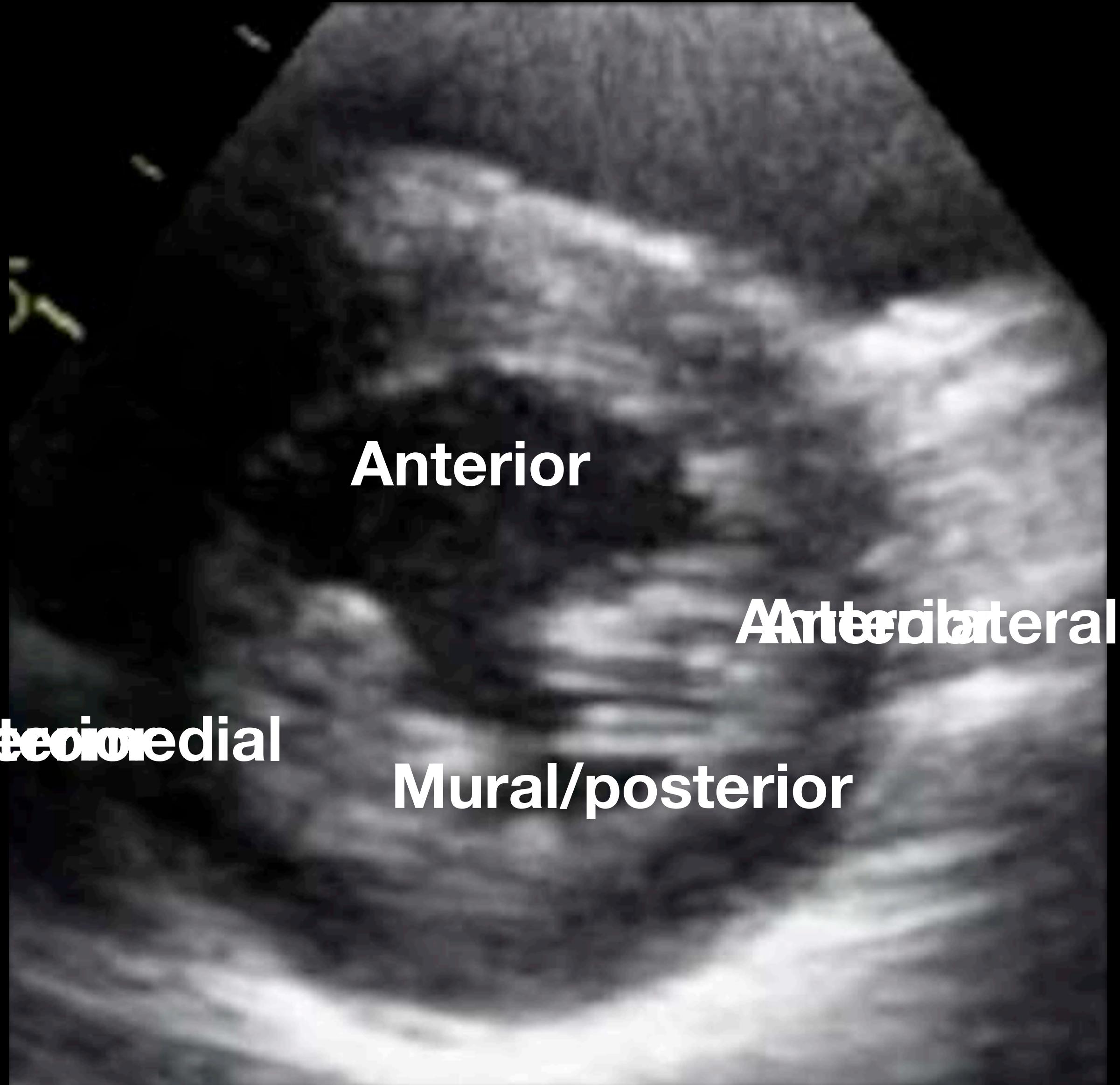
Mitral valve leaflets

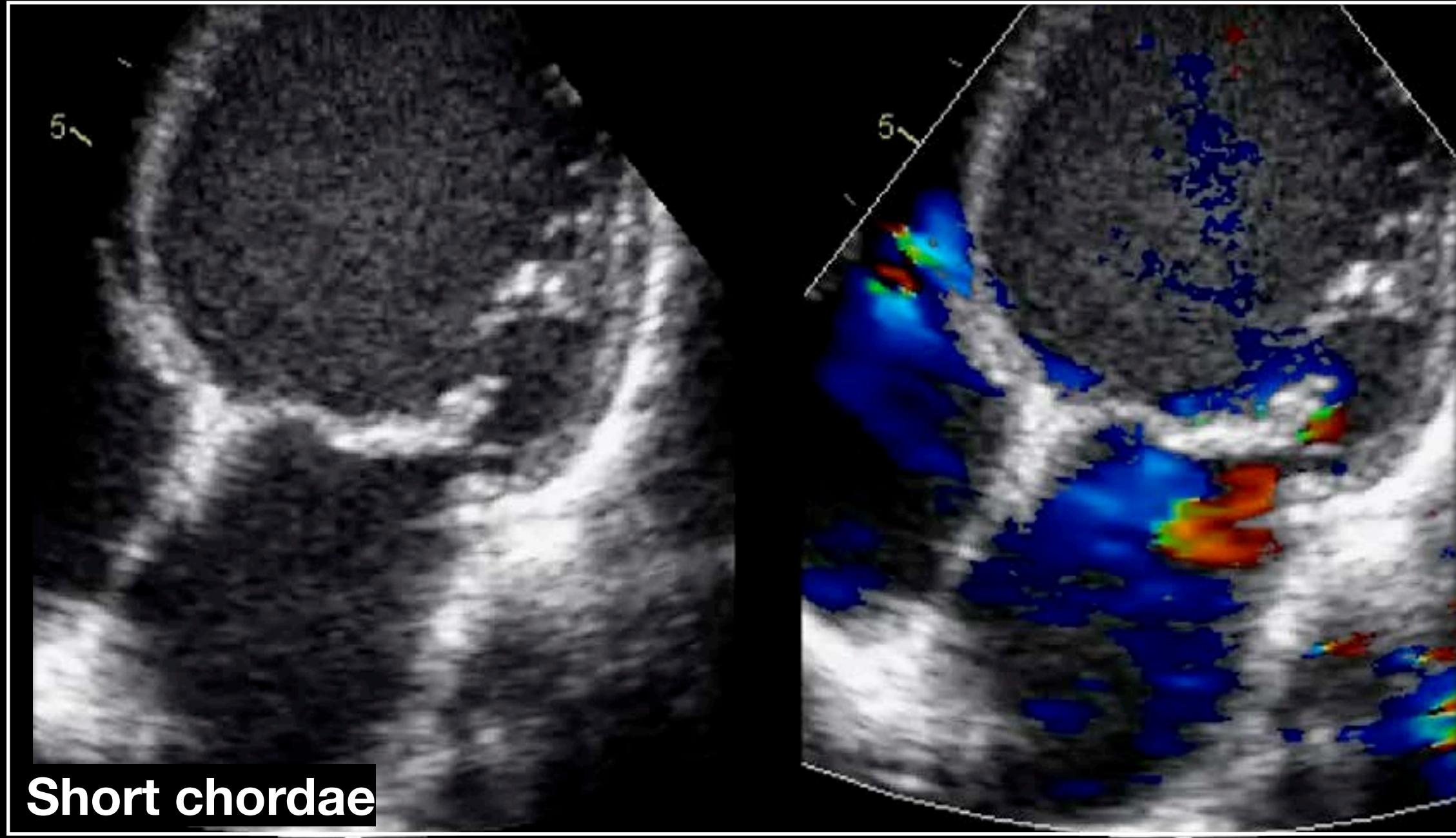


Papillary muscles



Raphealysmuses

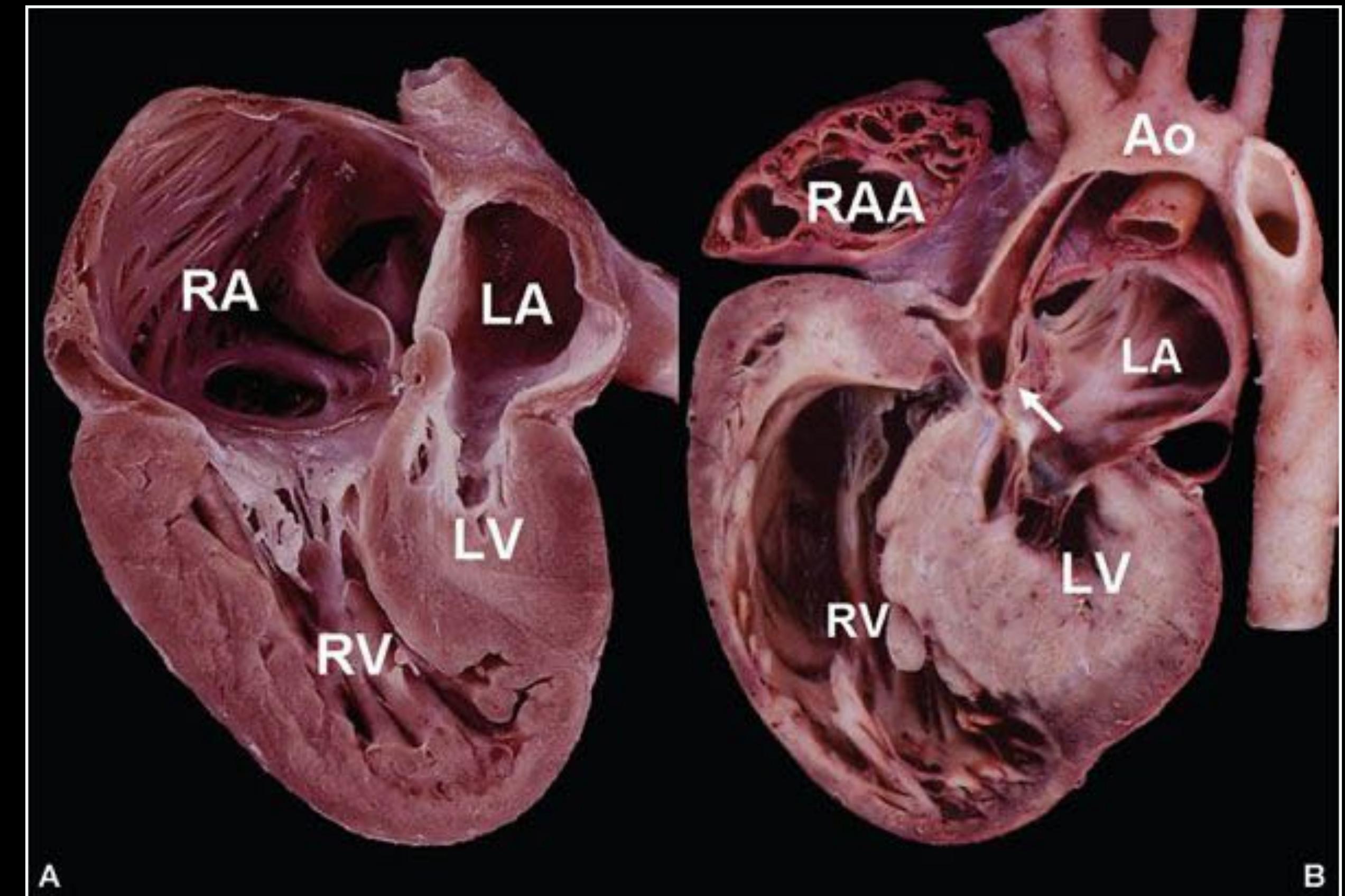
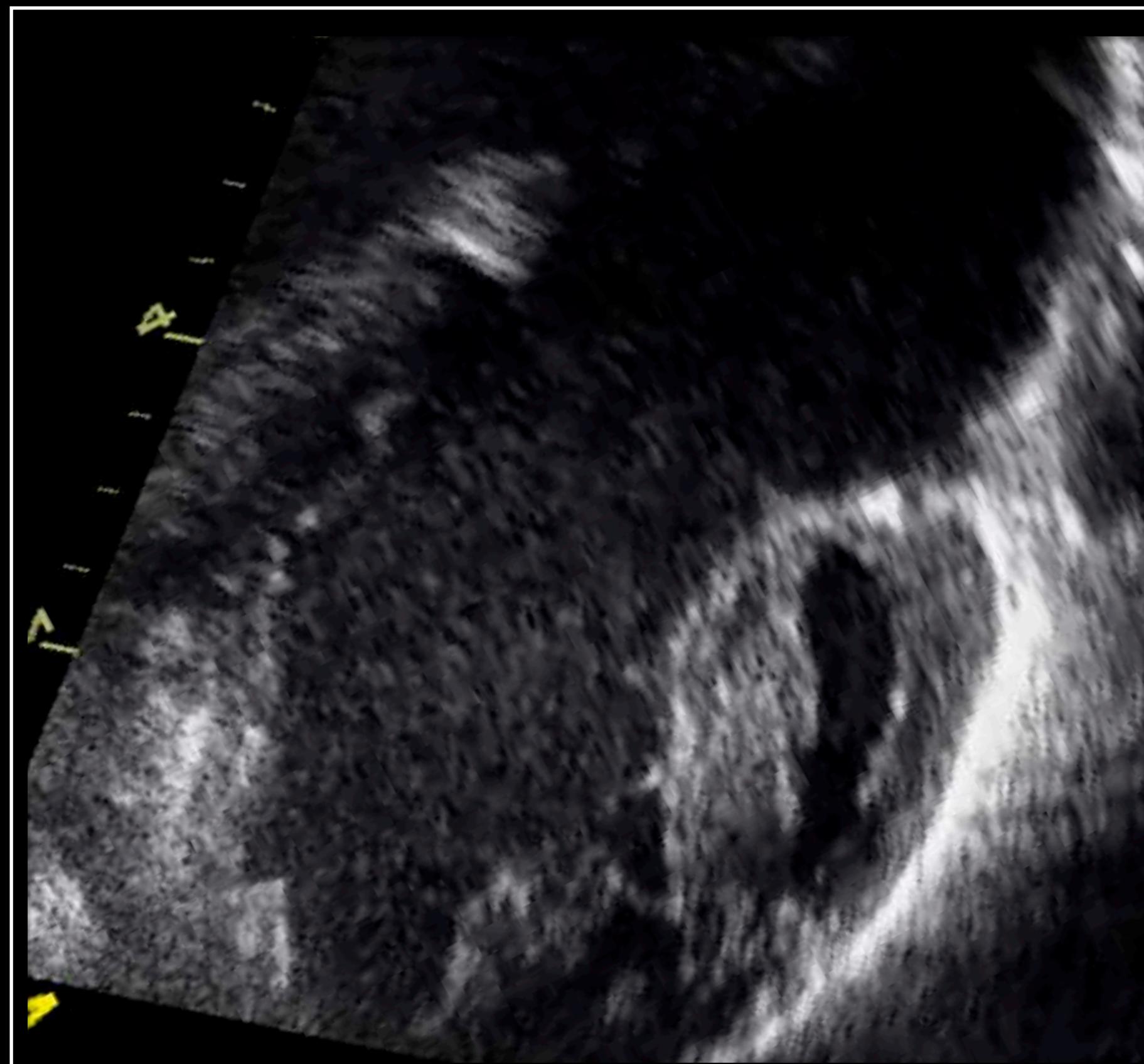


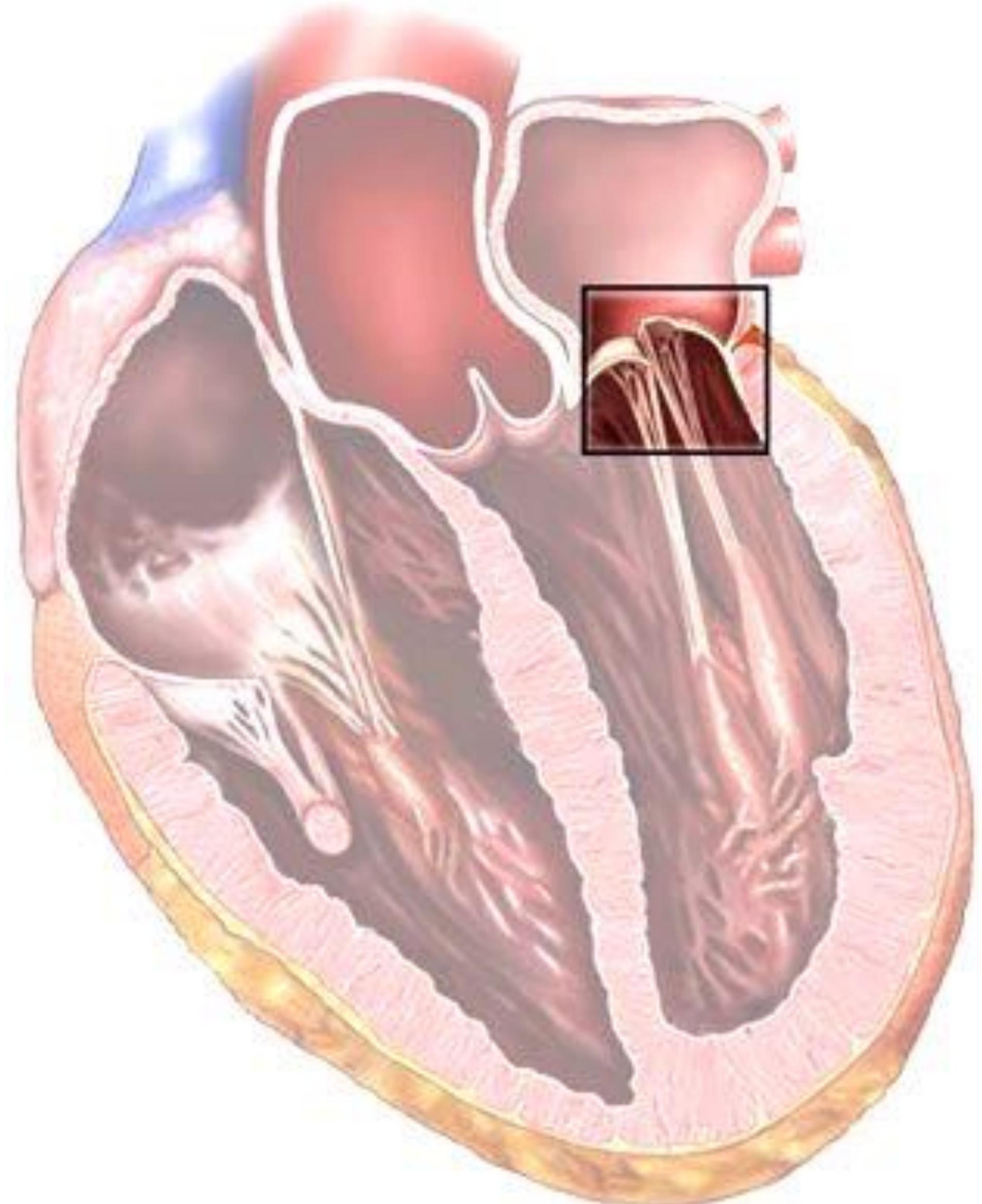


Congenital anomalies of mitral leaflets

- Atresia and hypoplasia
- Prolapse
- Clefts
- Double orifice
- Supravalvar and intravalvar ring

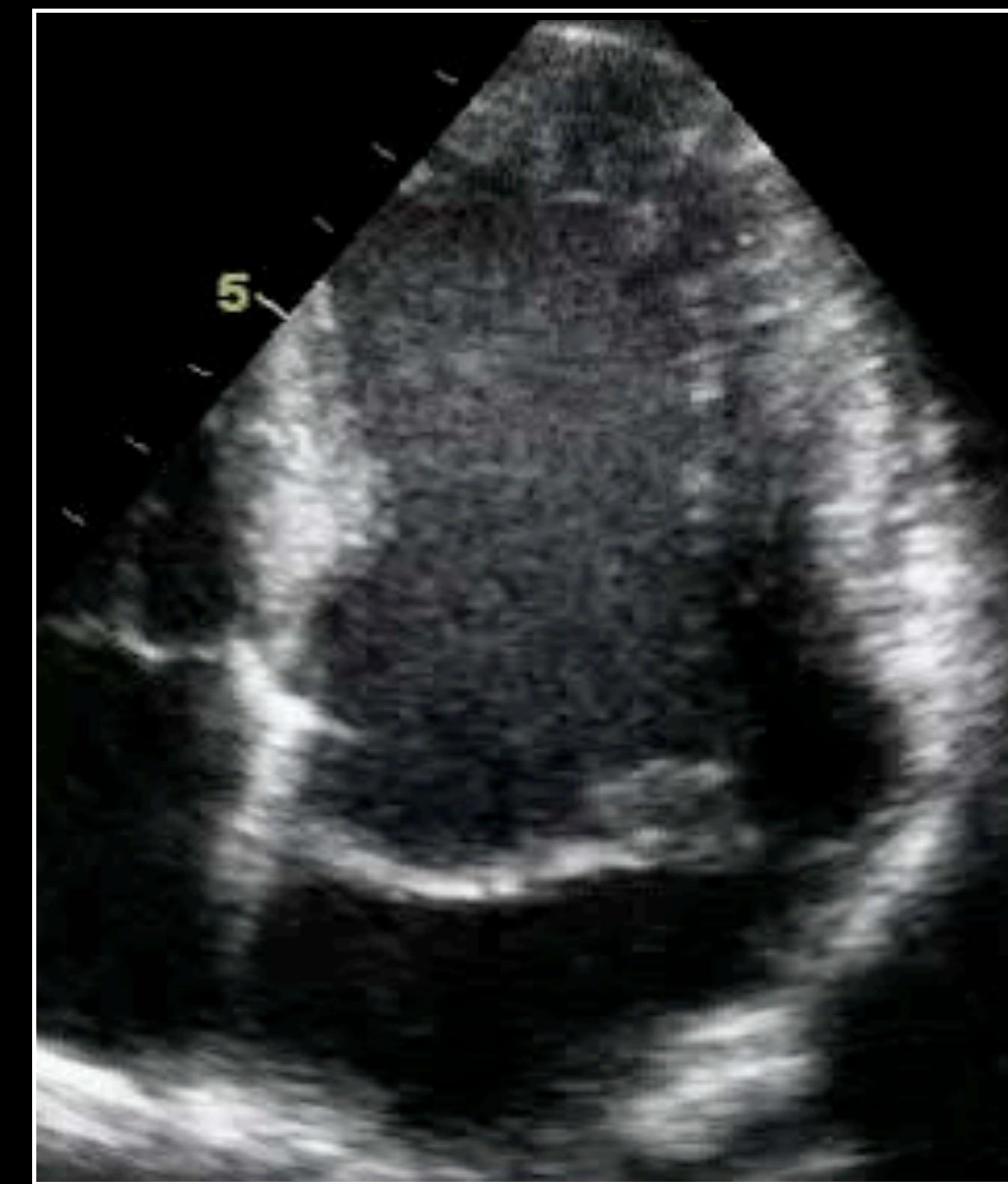
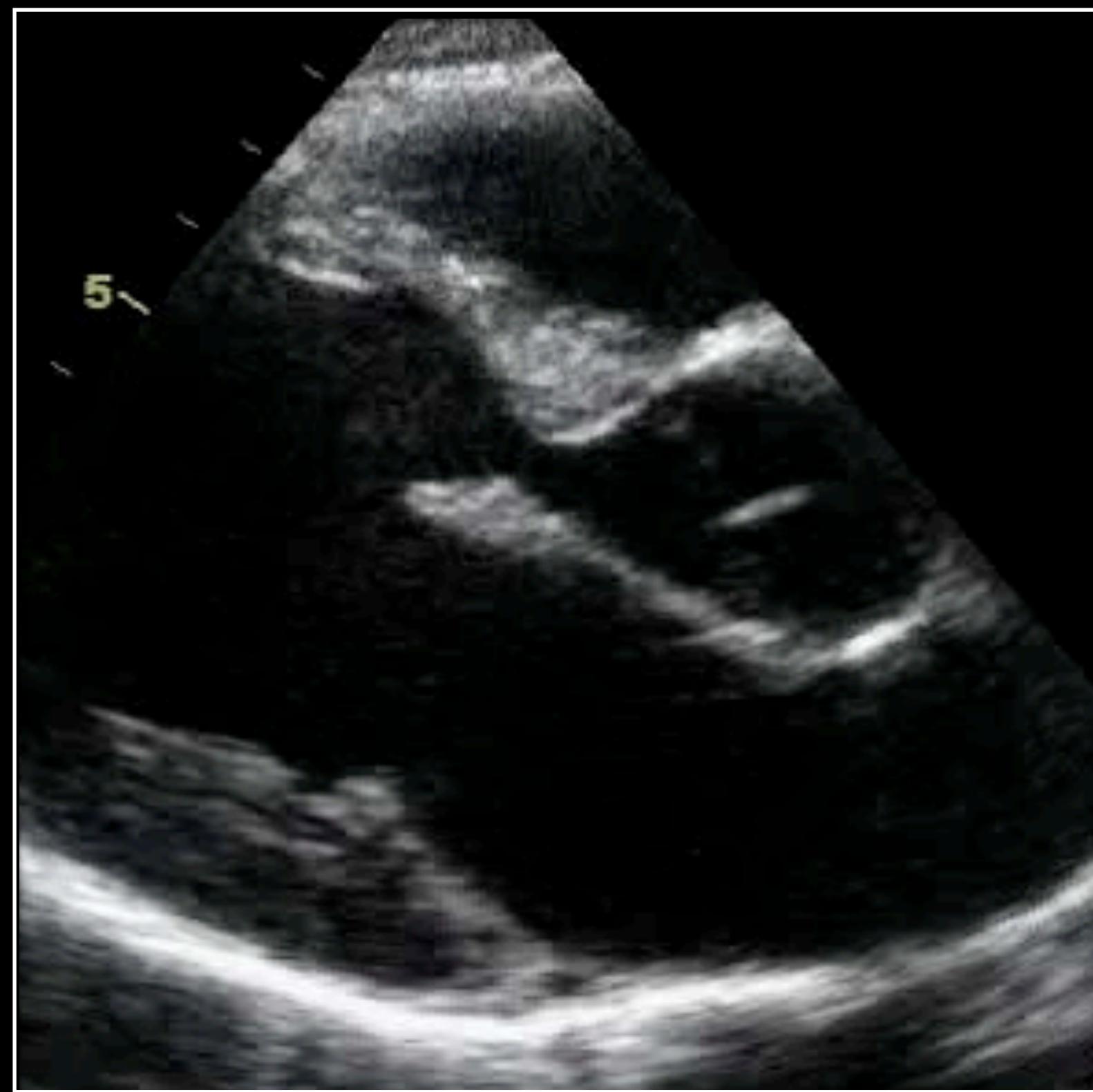
Mitral atresia



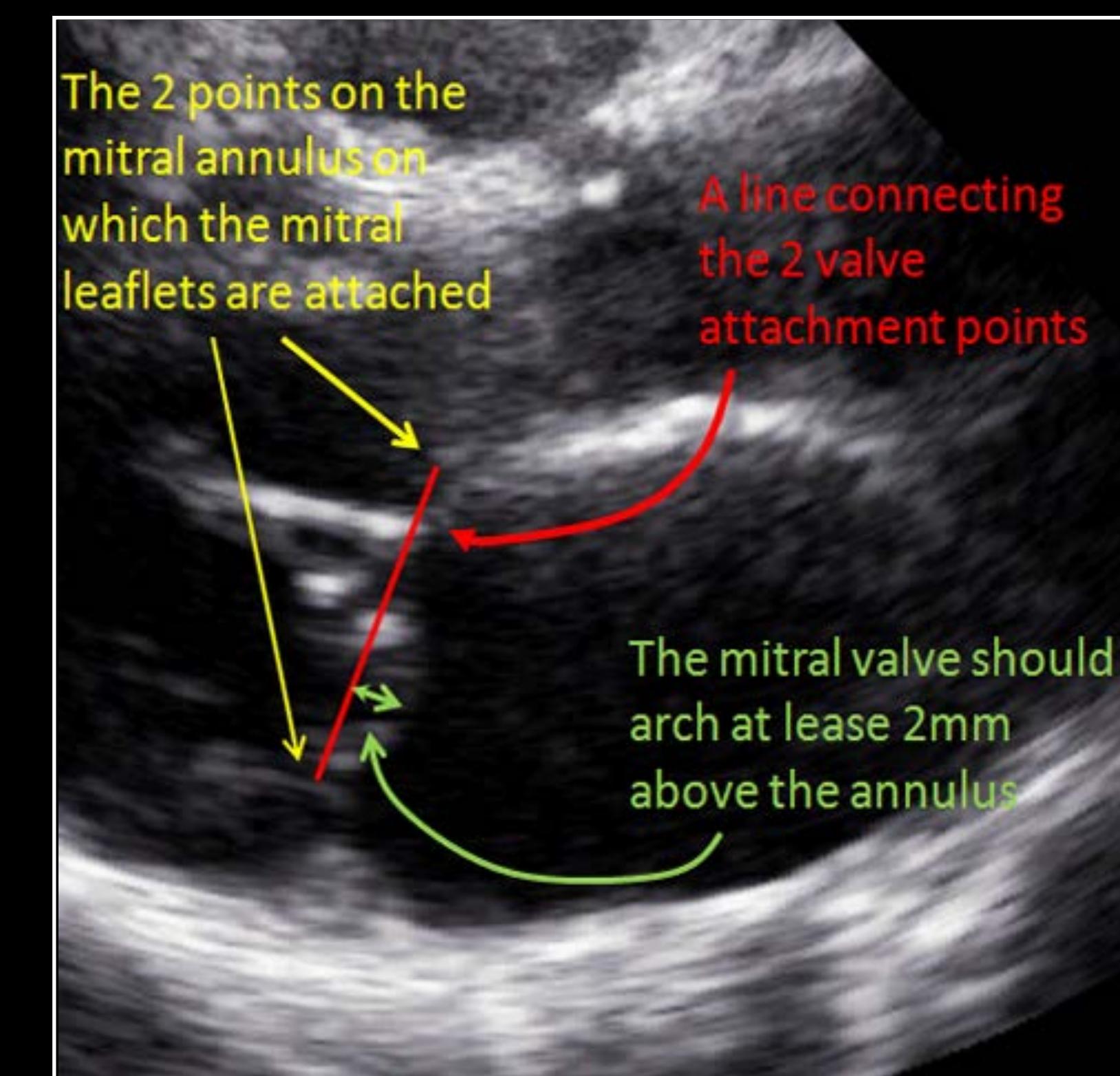
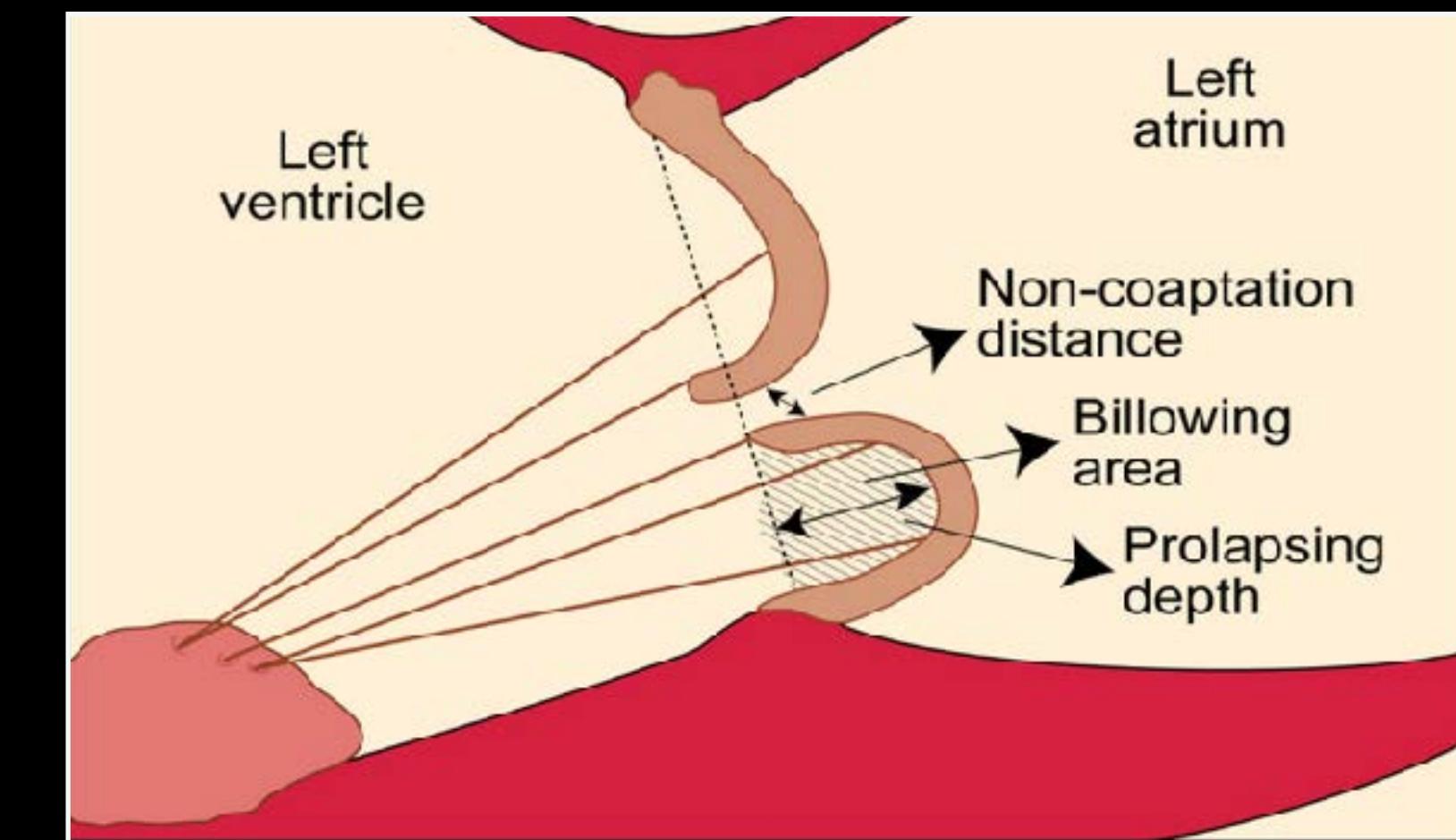


Prolapsed mitral valve

Mitral valve prolapse

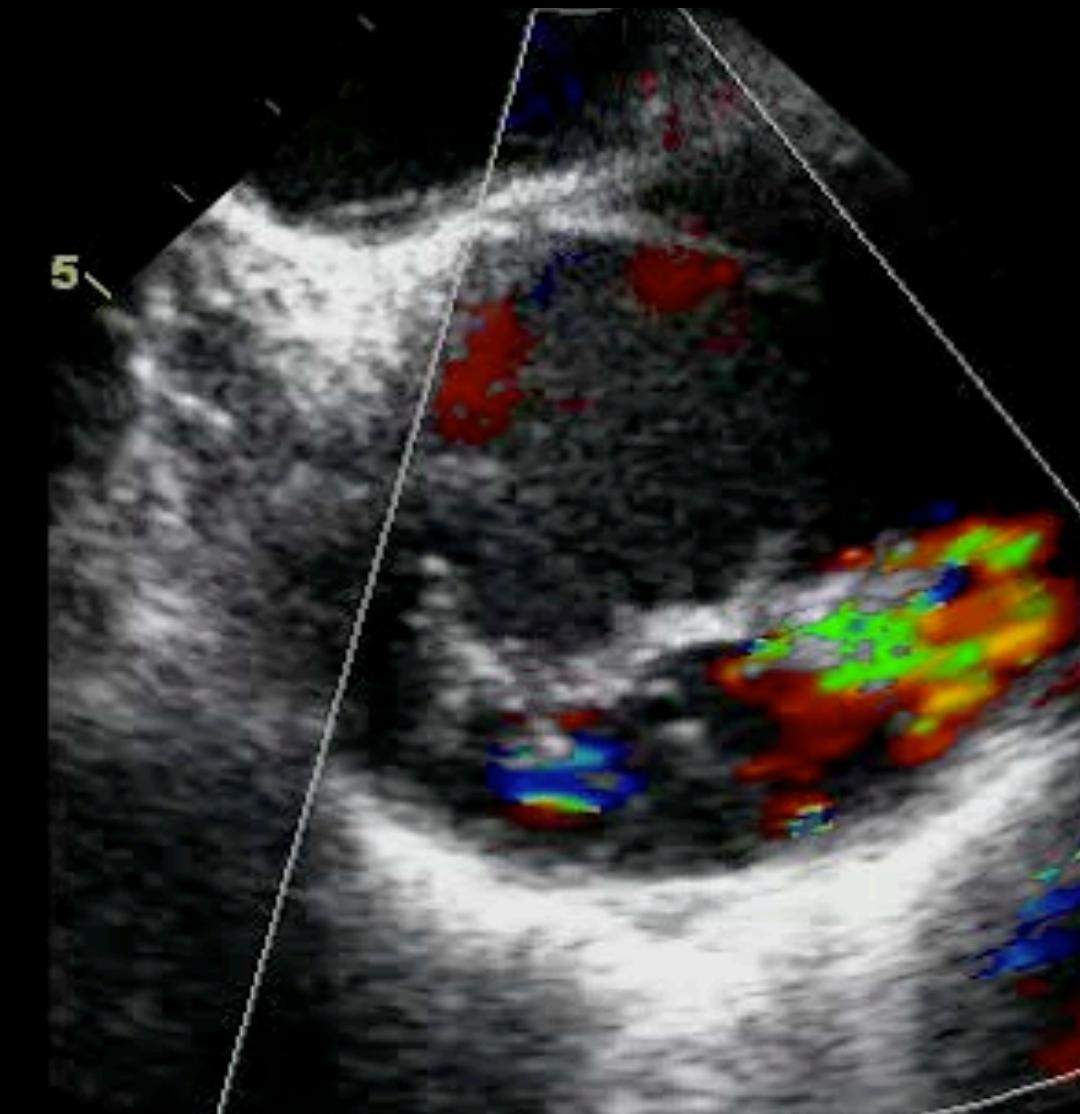
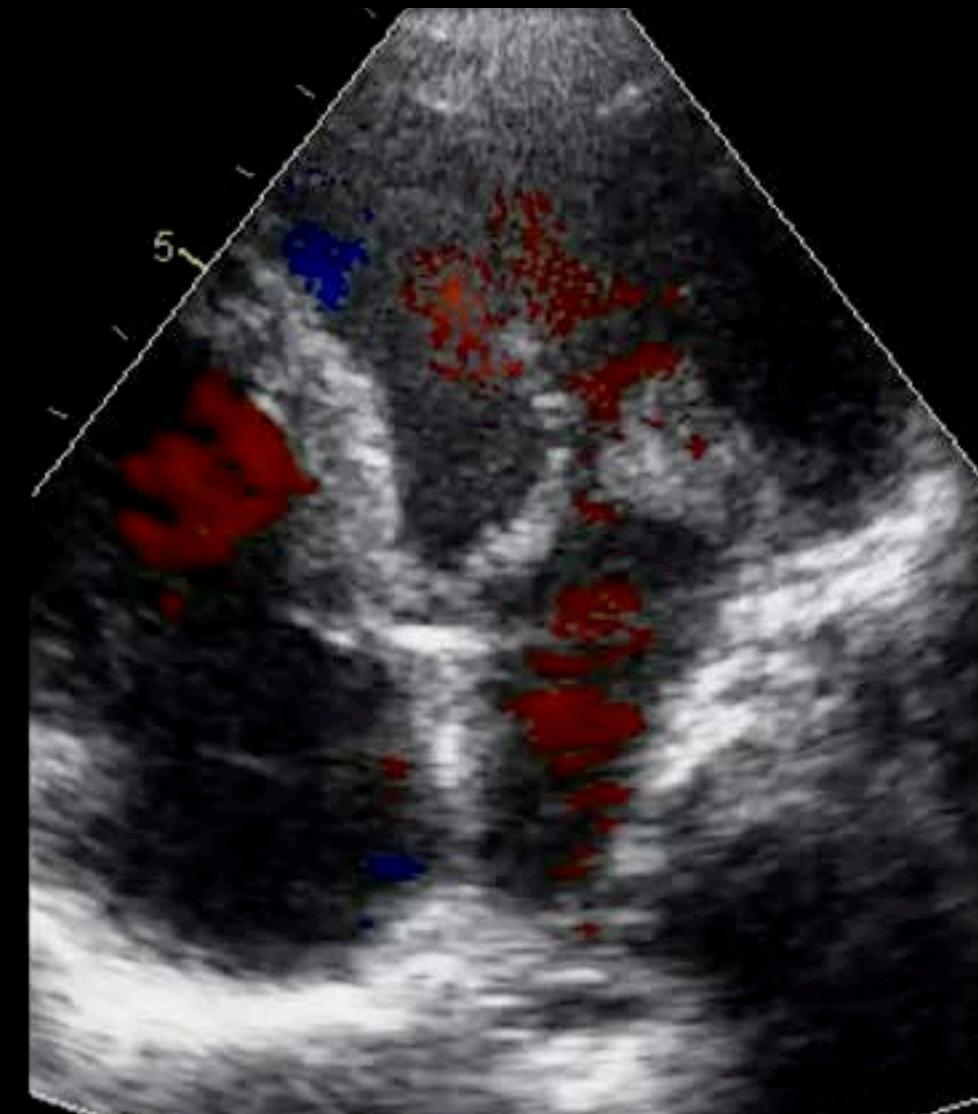


Mitral valve prolapse

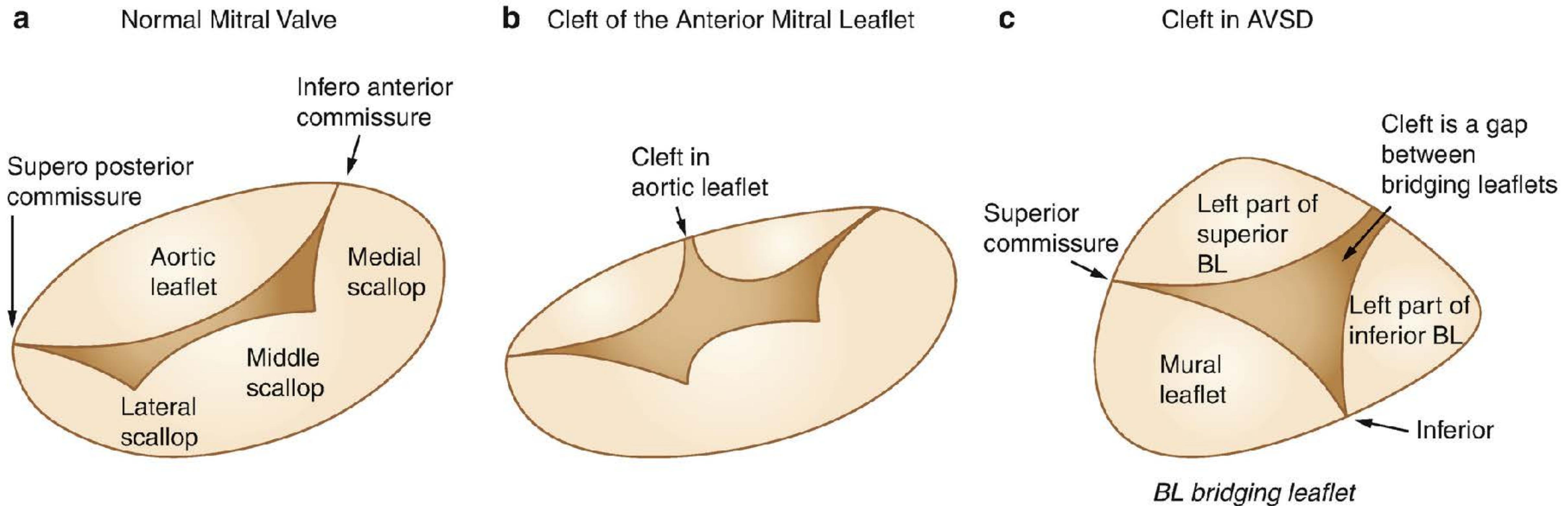


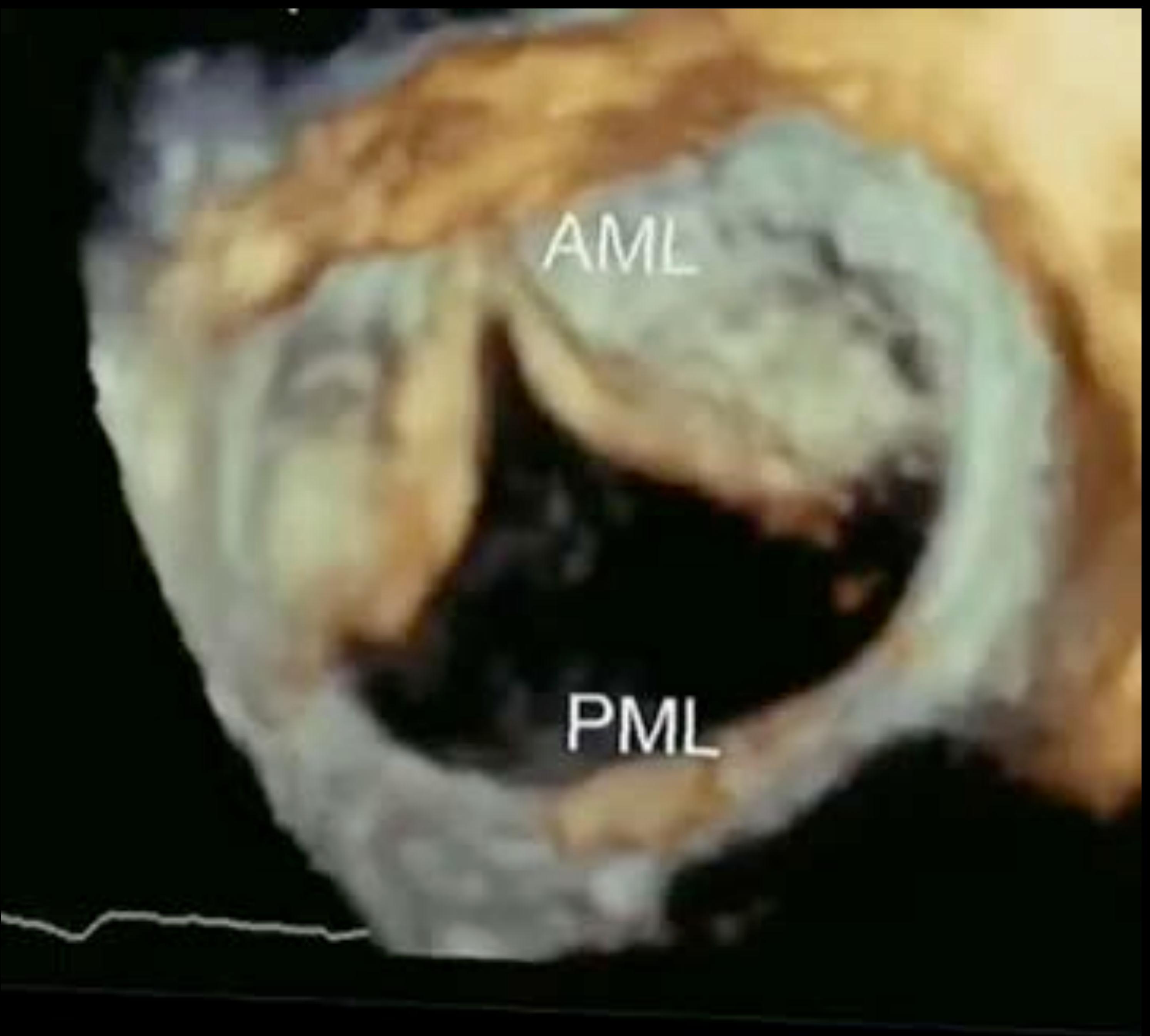


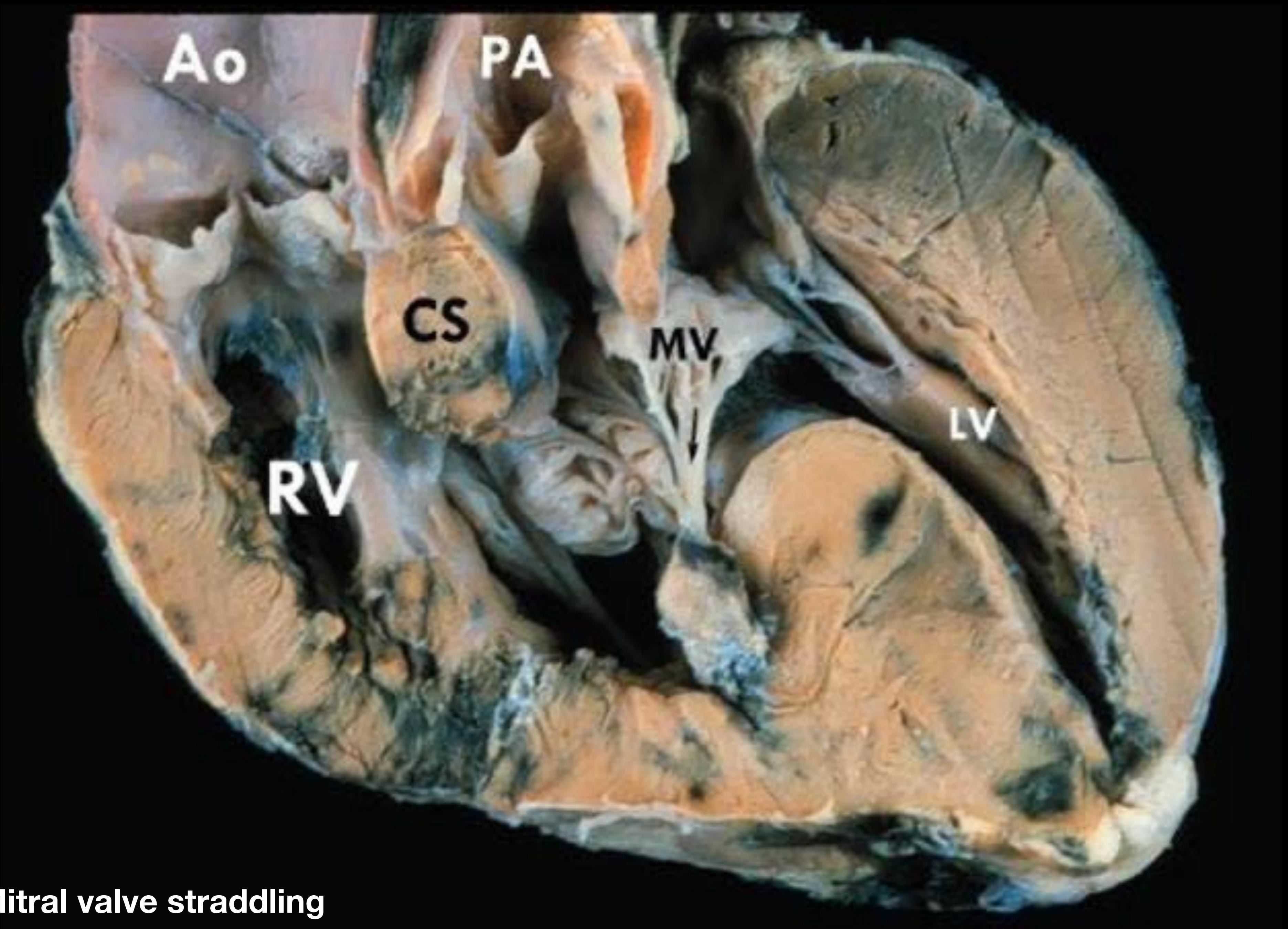
Mitral valve- Marfan syndrome



Isolated mitral cleft

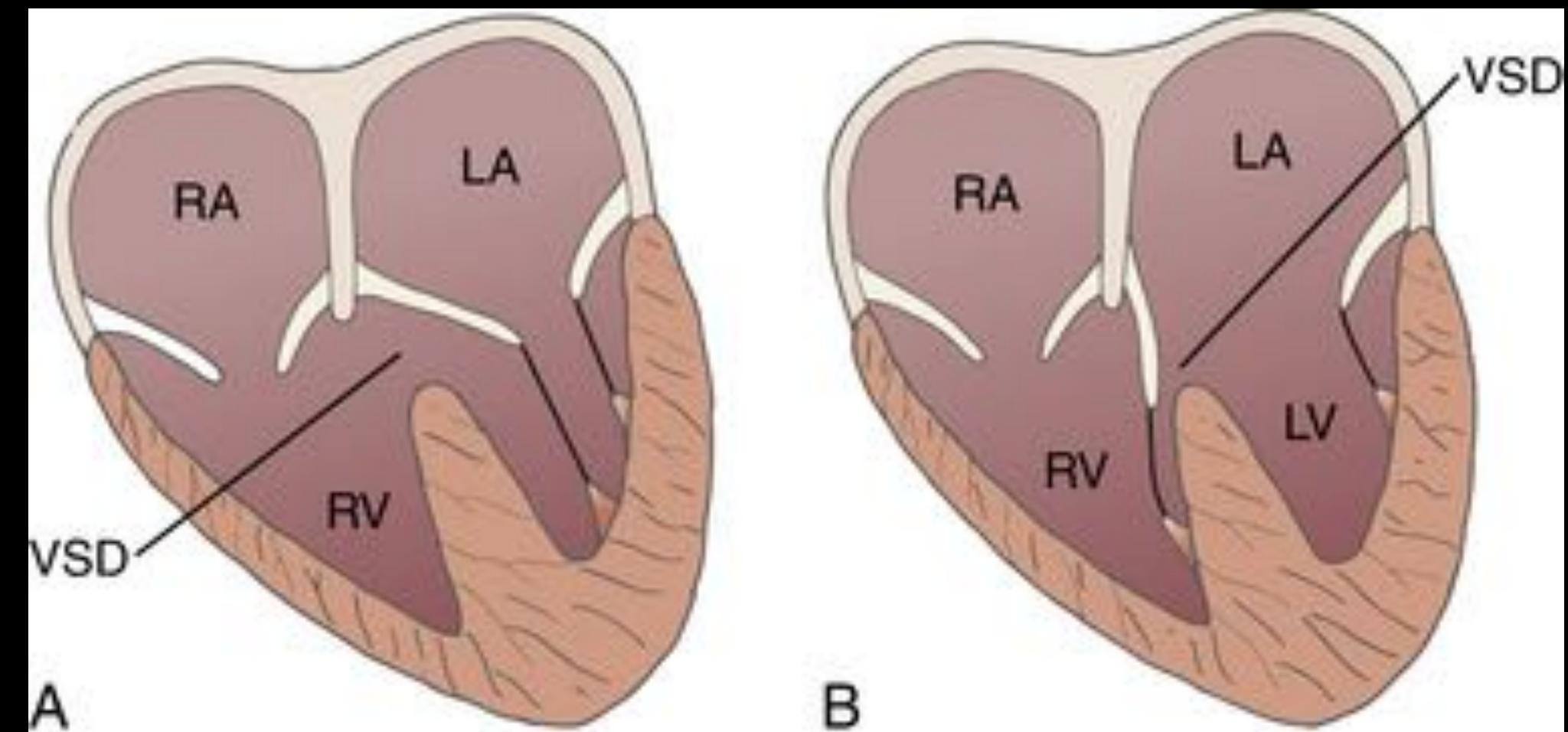
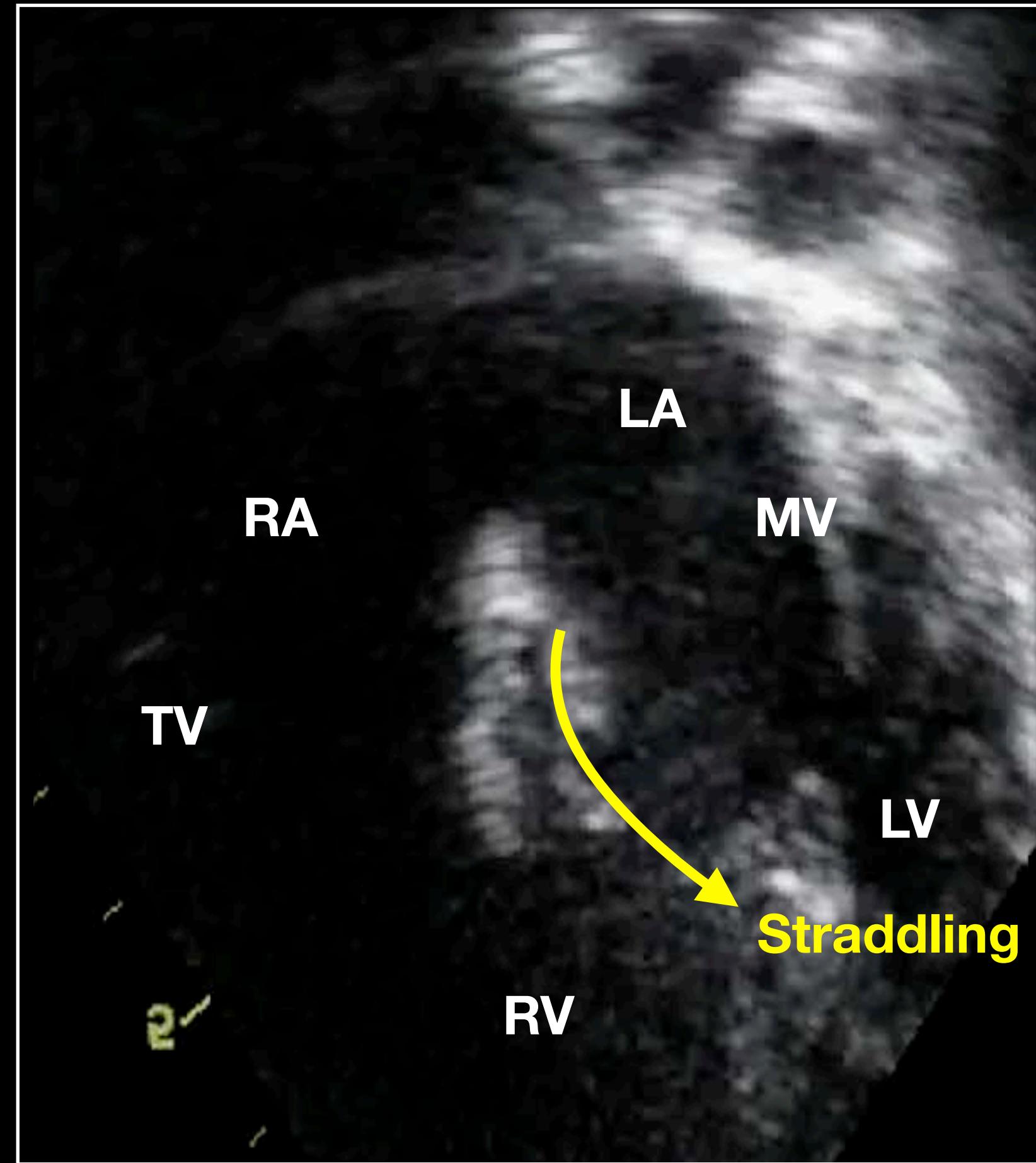




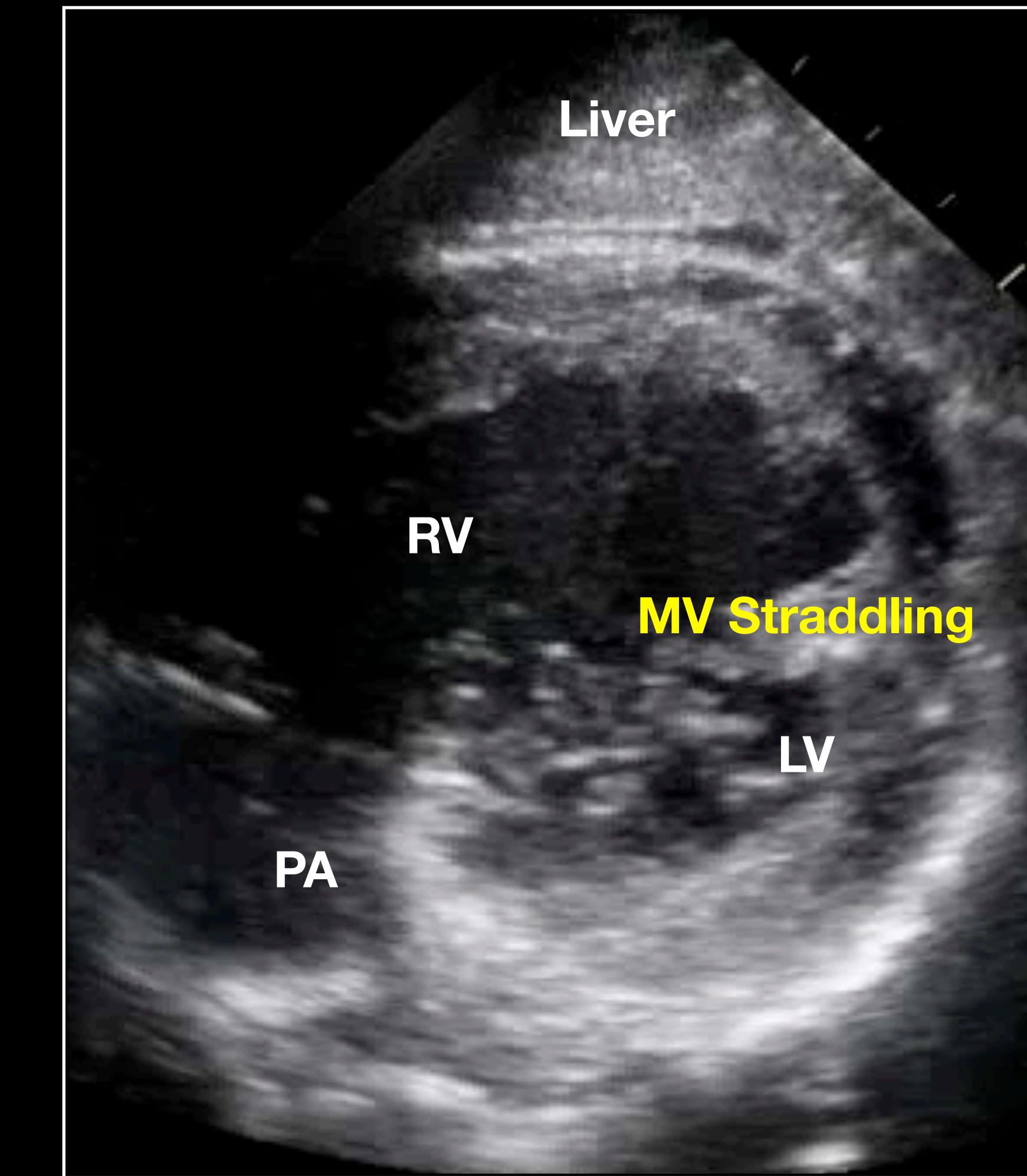
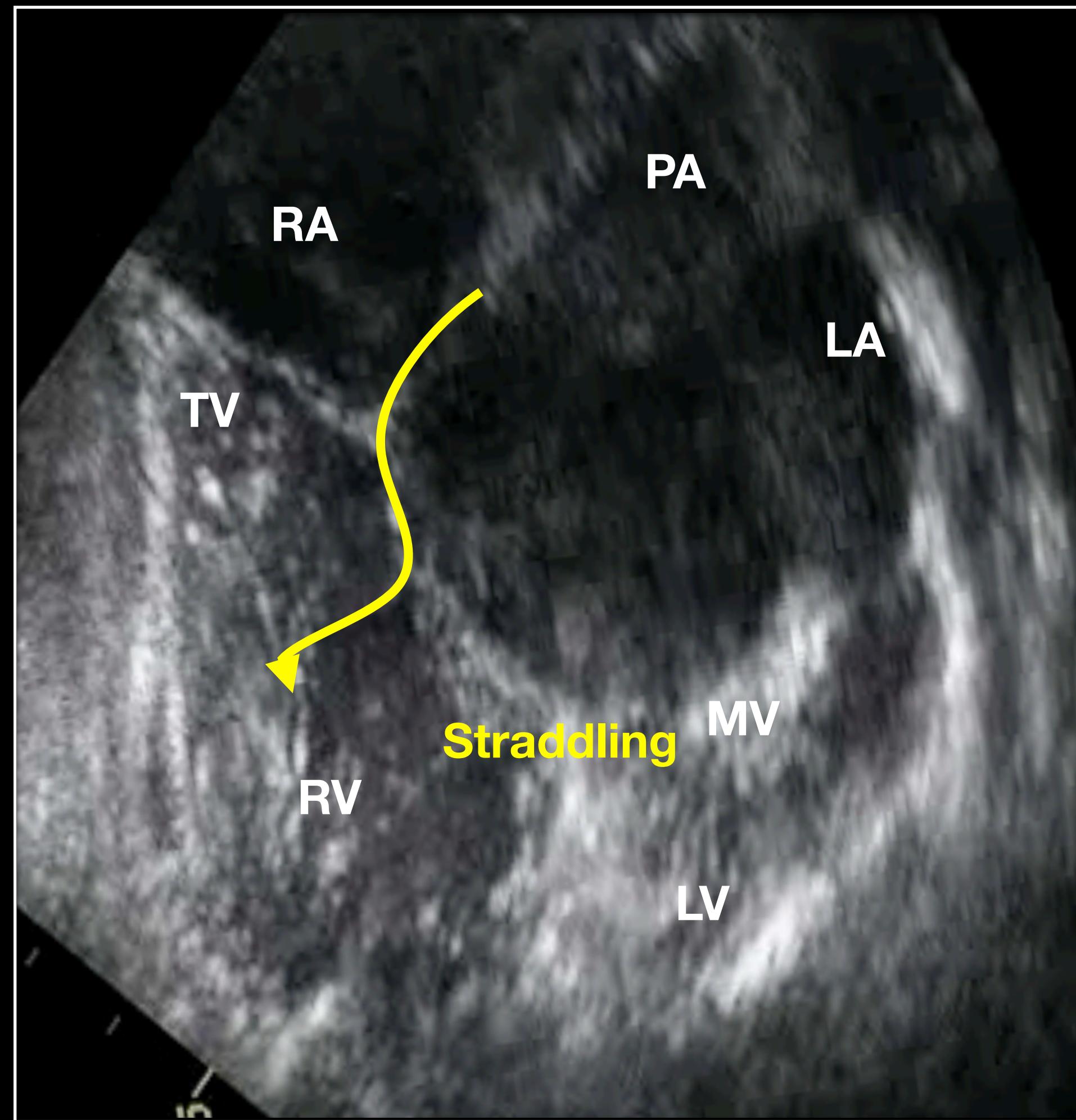


Mitral valve straddling

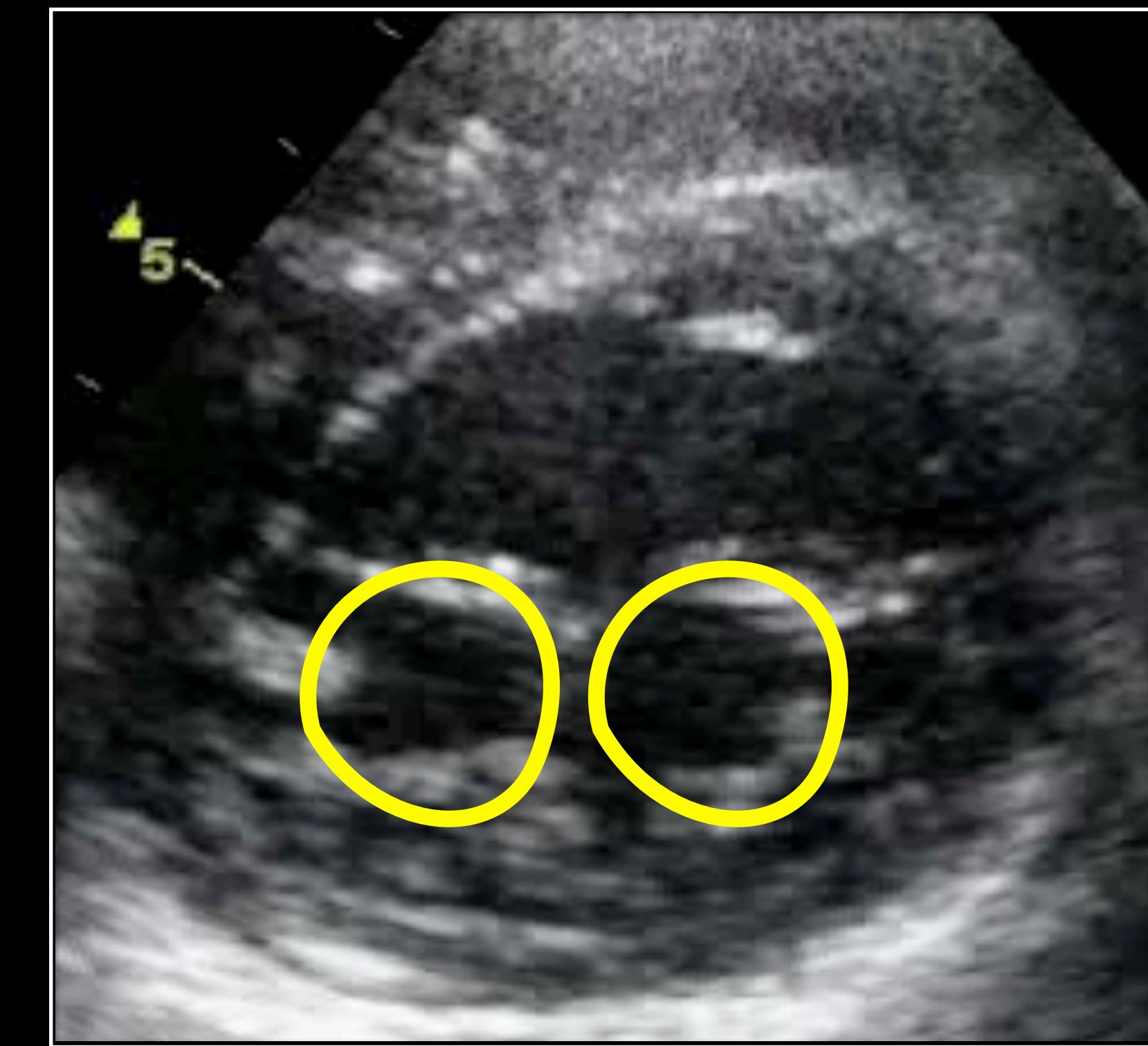
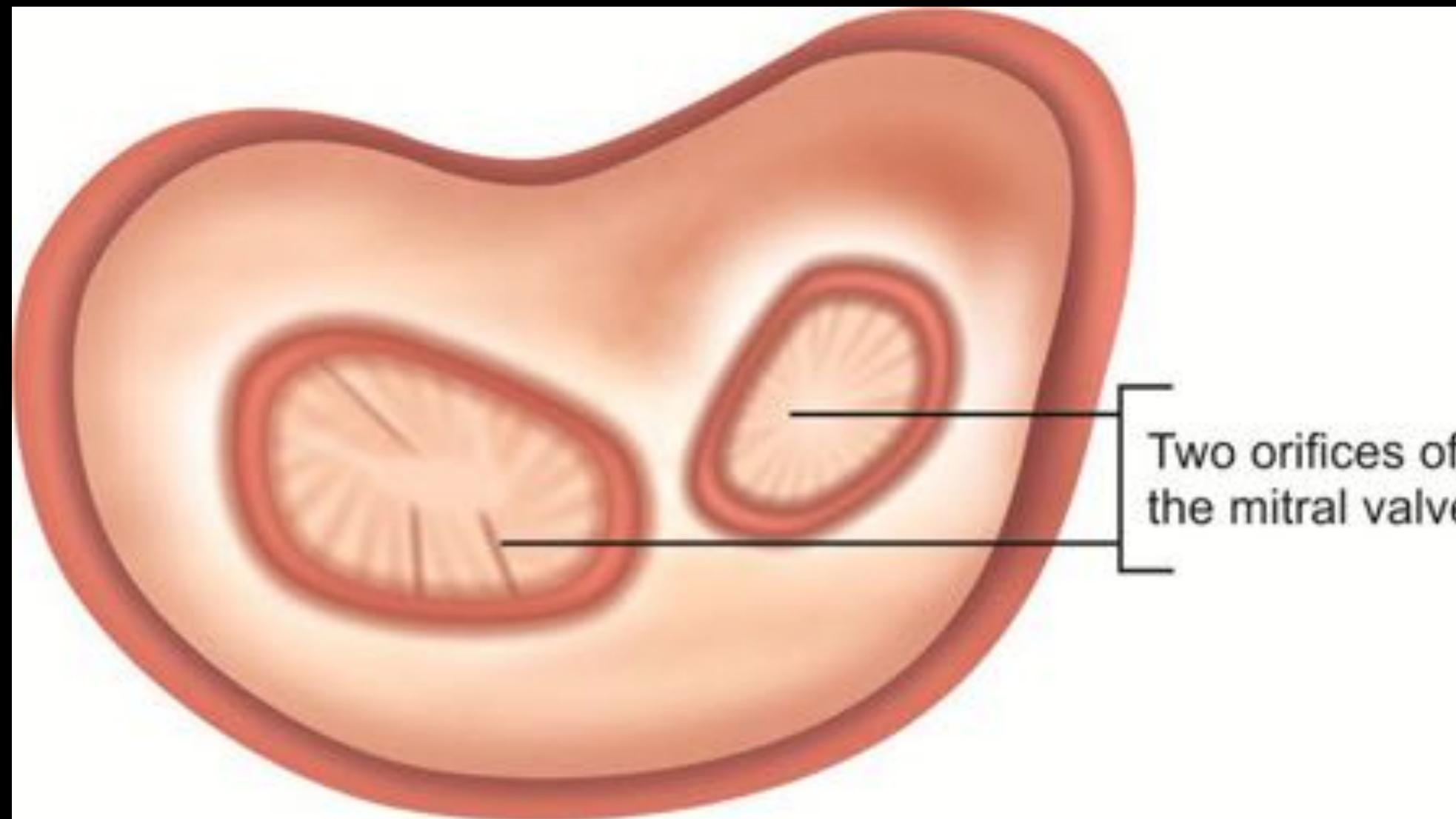
Mitral valve straddling

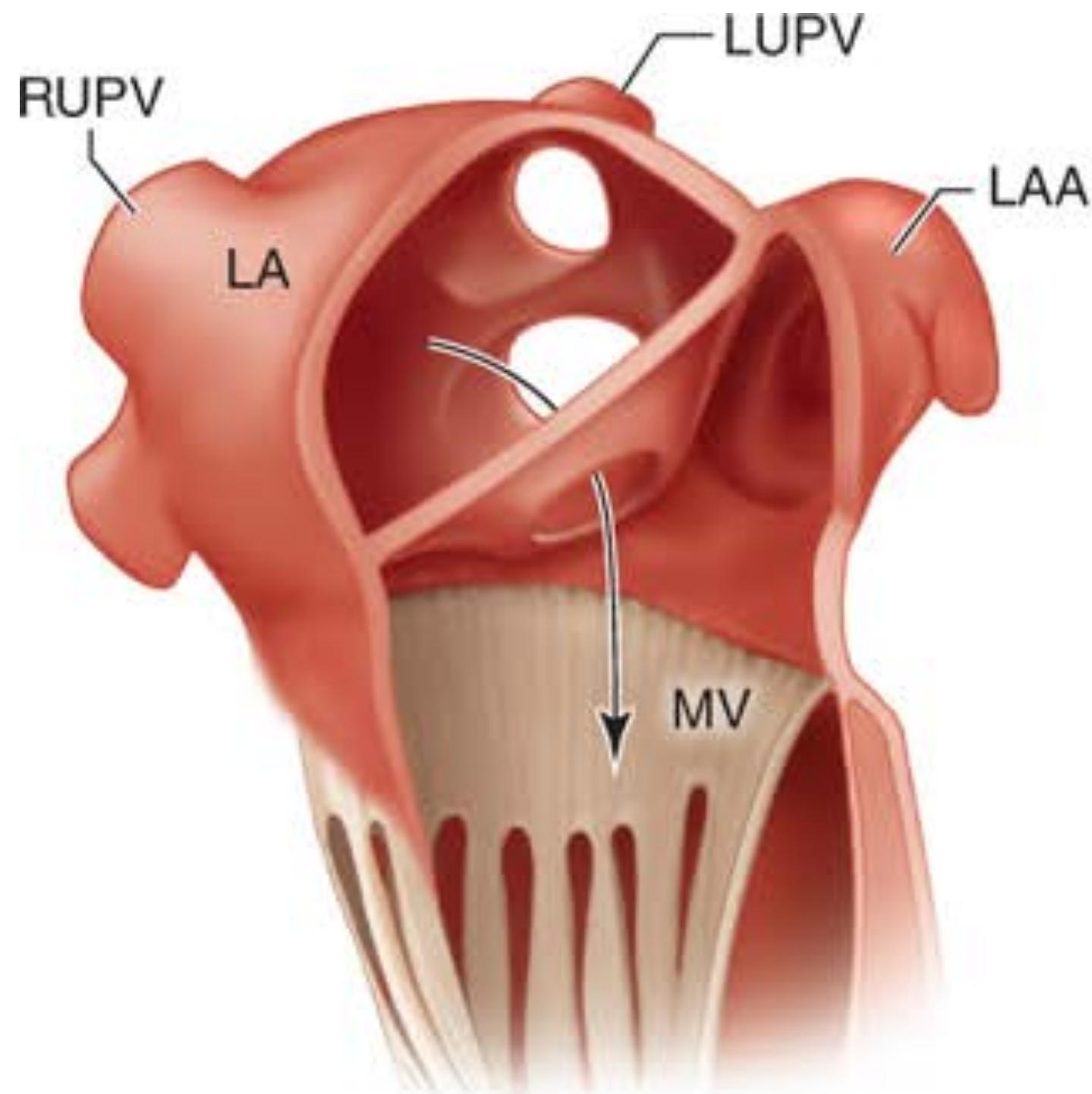


Mitral valve straddling

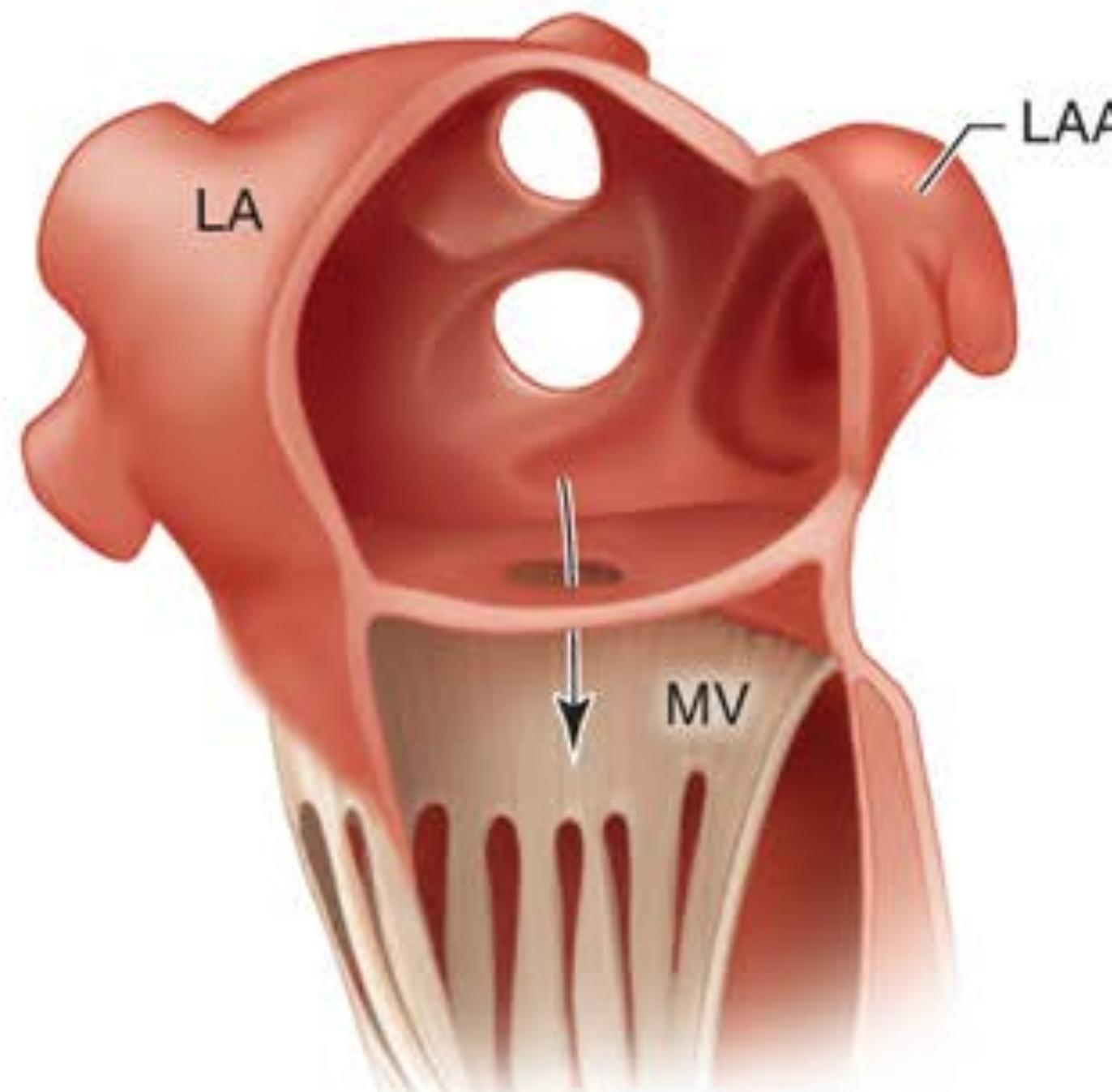


Double orifice

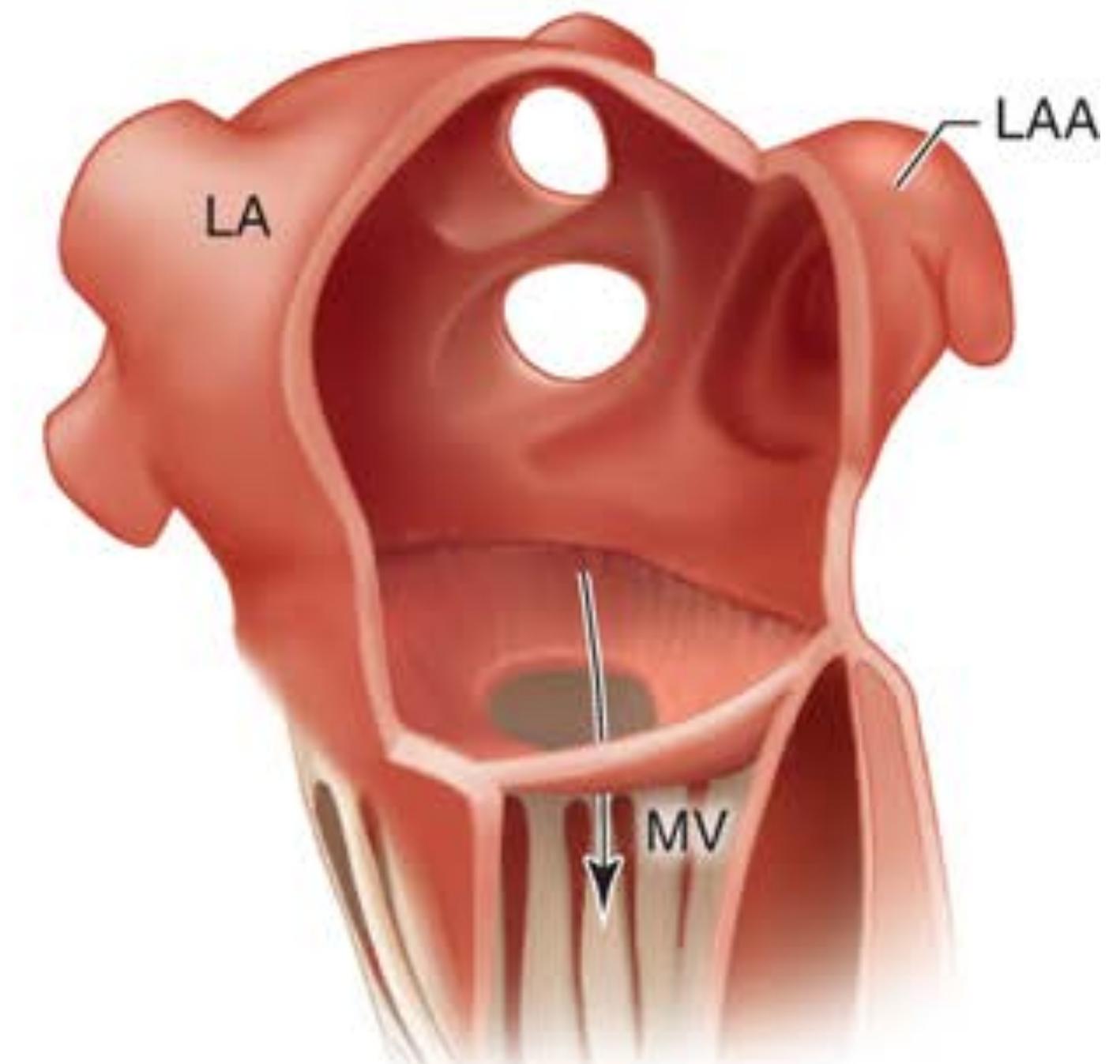




Cor triatriatum

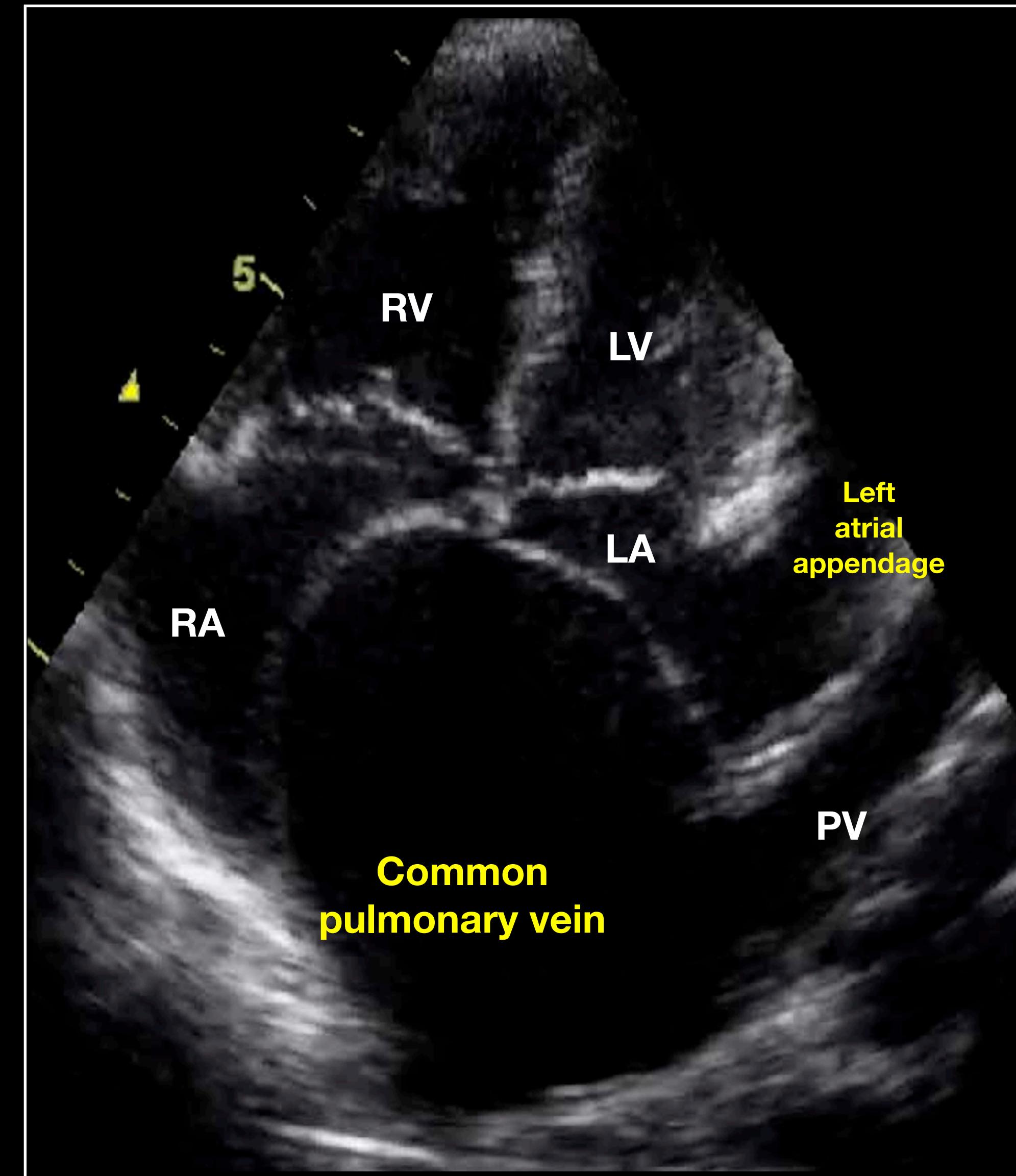


Supamitral ring

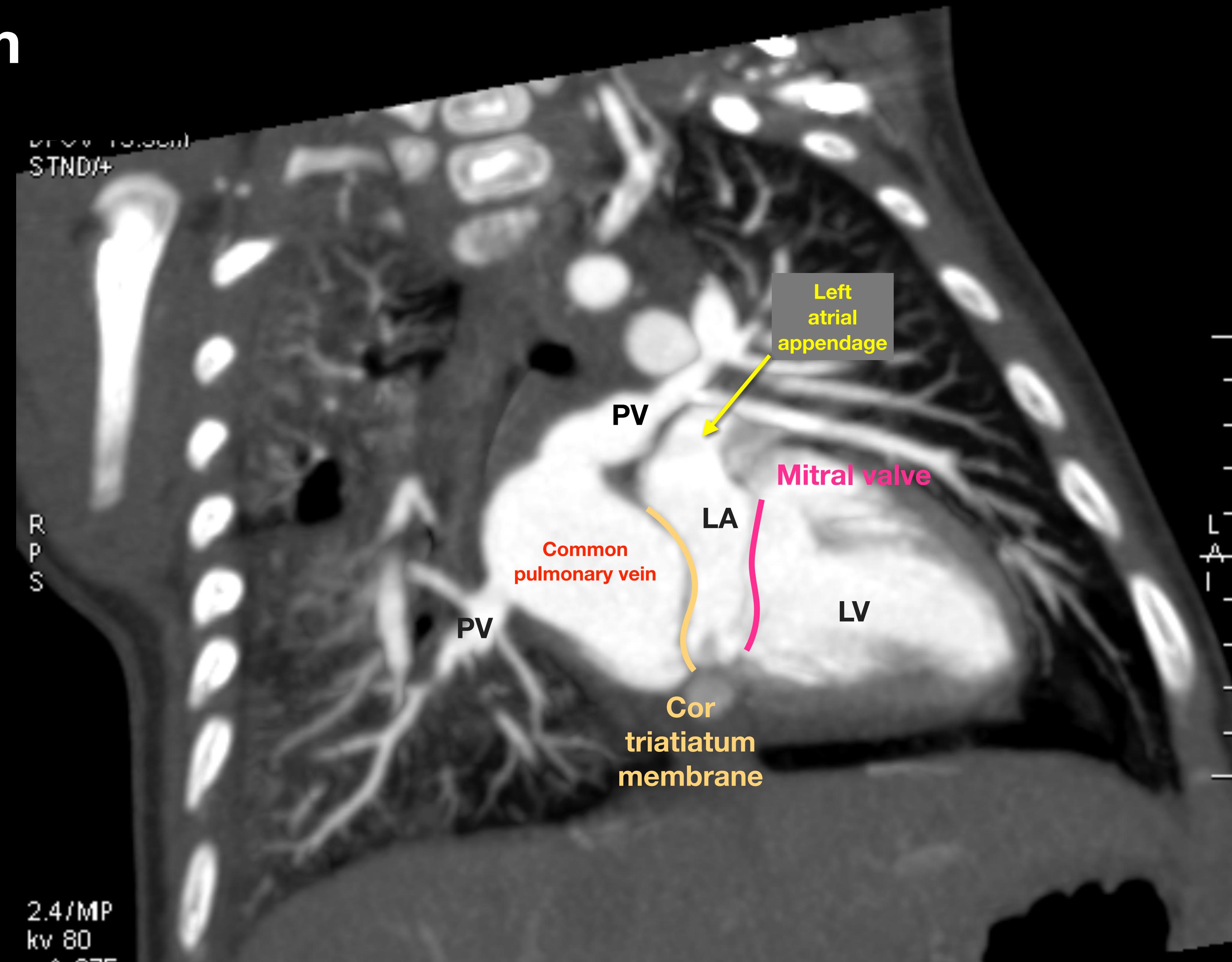


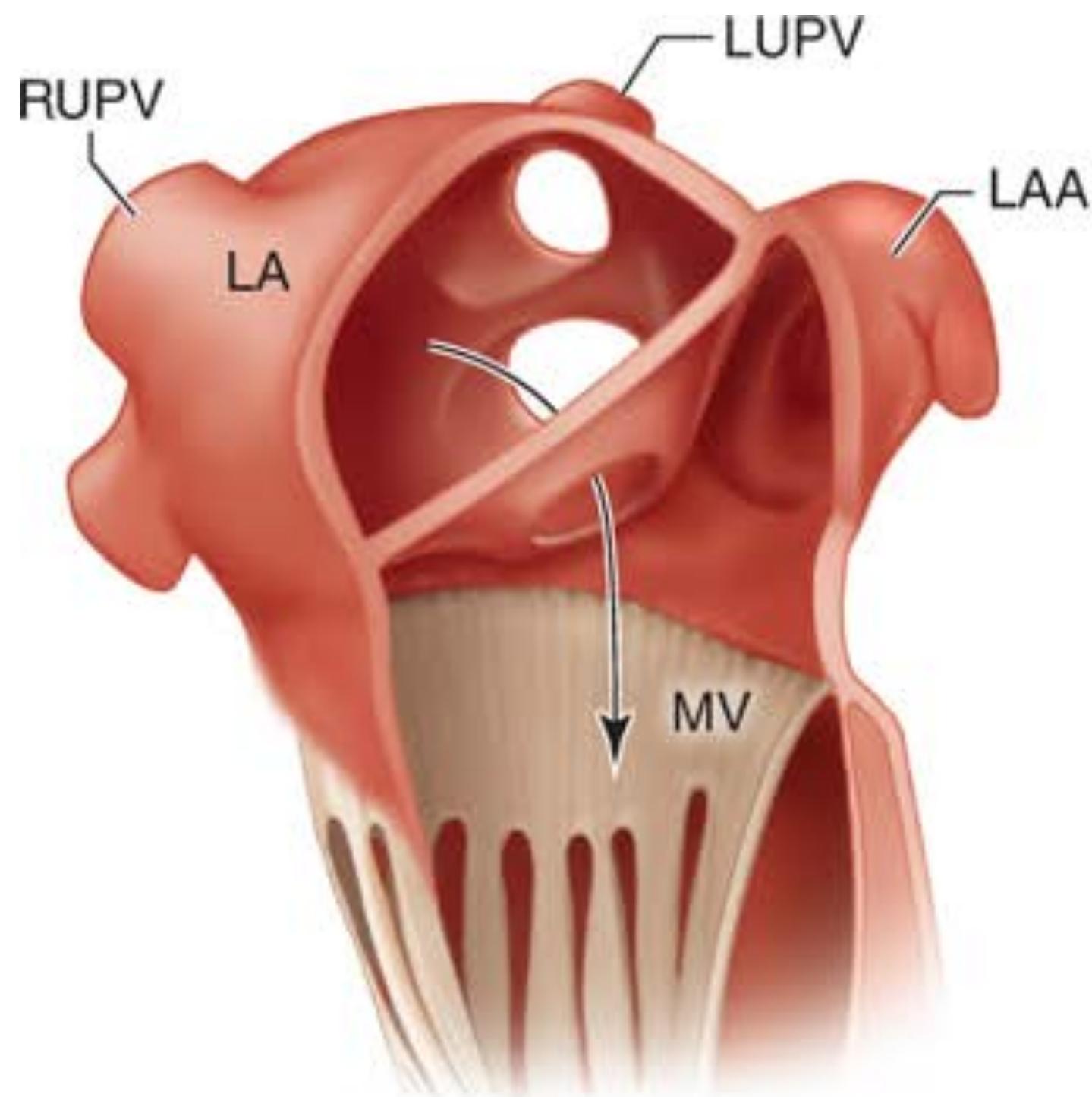
Intramitral ring

Cor triatriatum

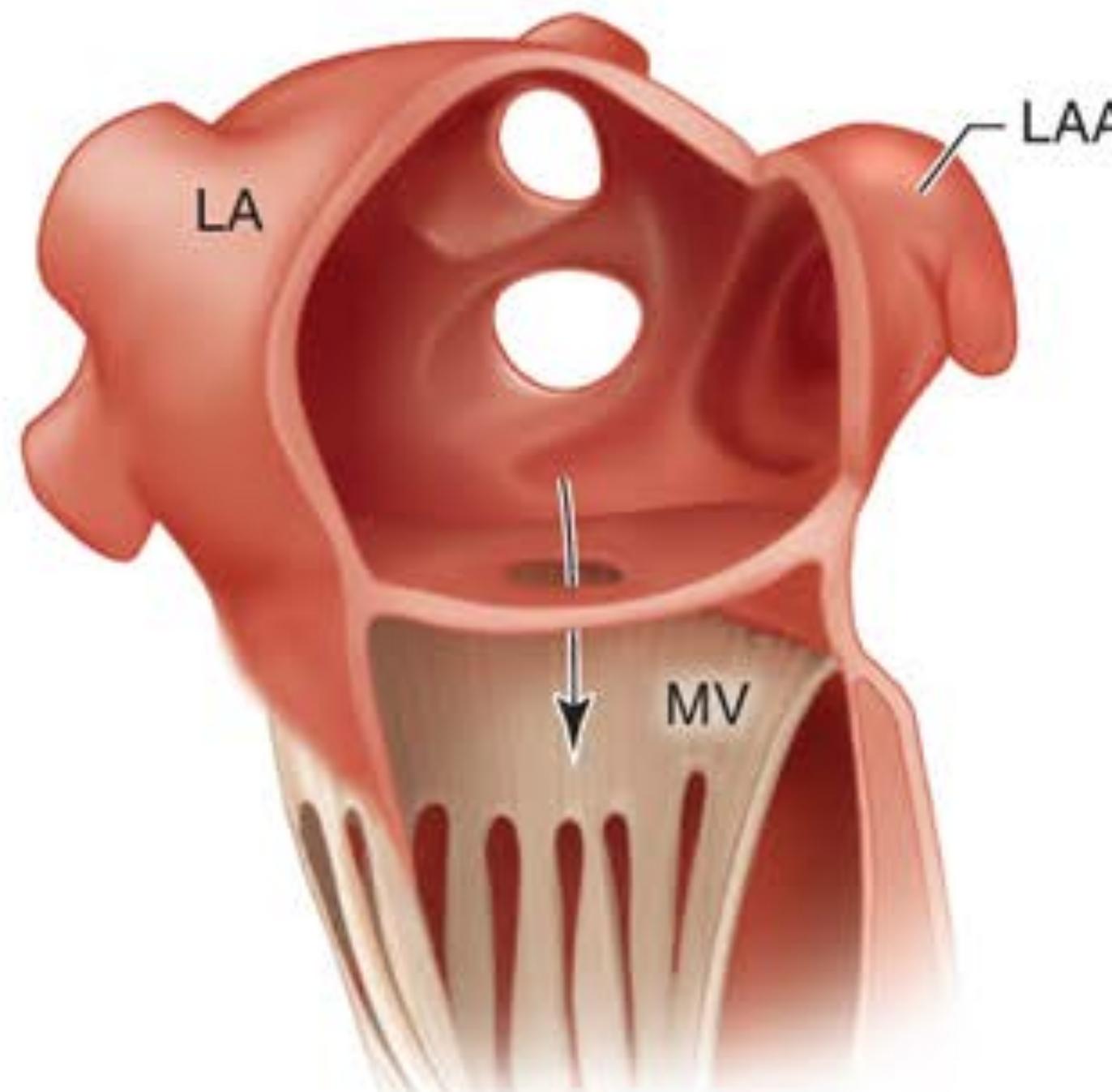


Cor triatriatum

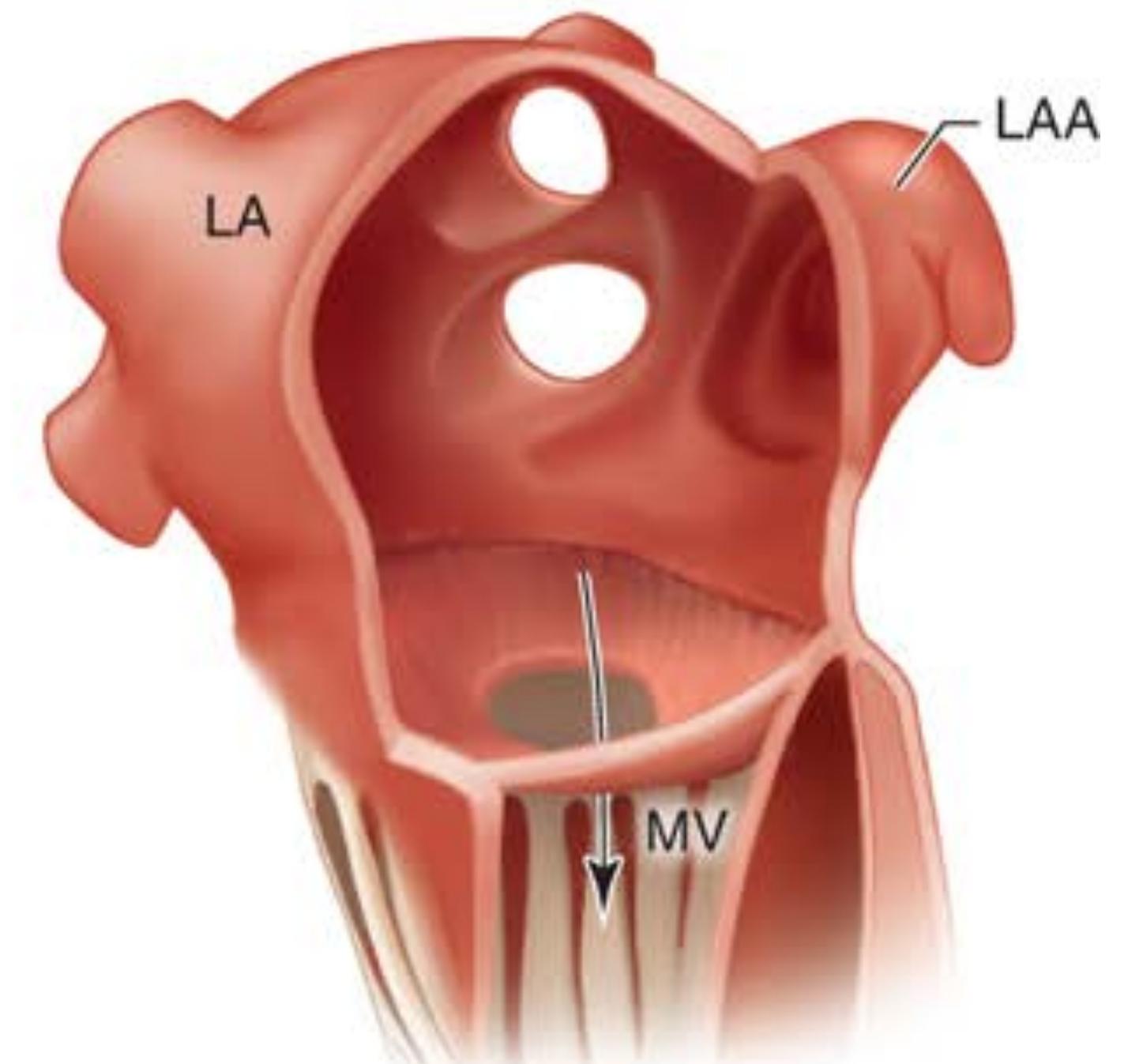




Cor triatriatum

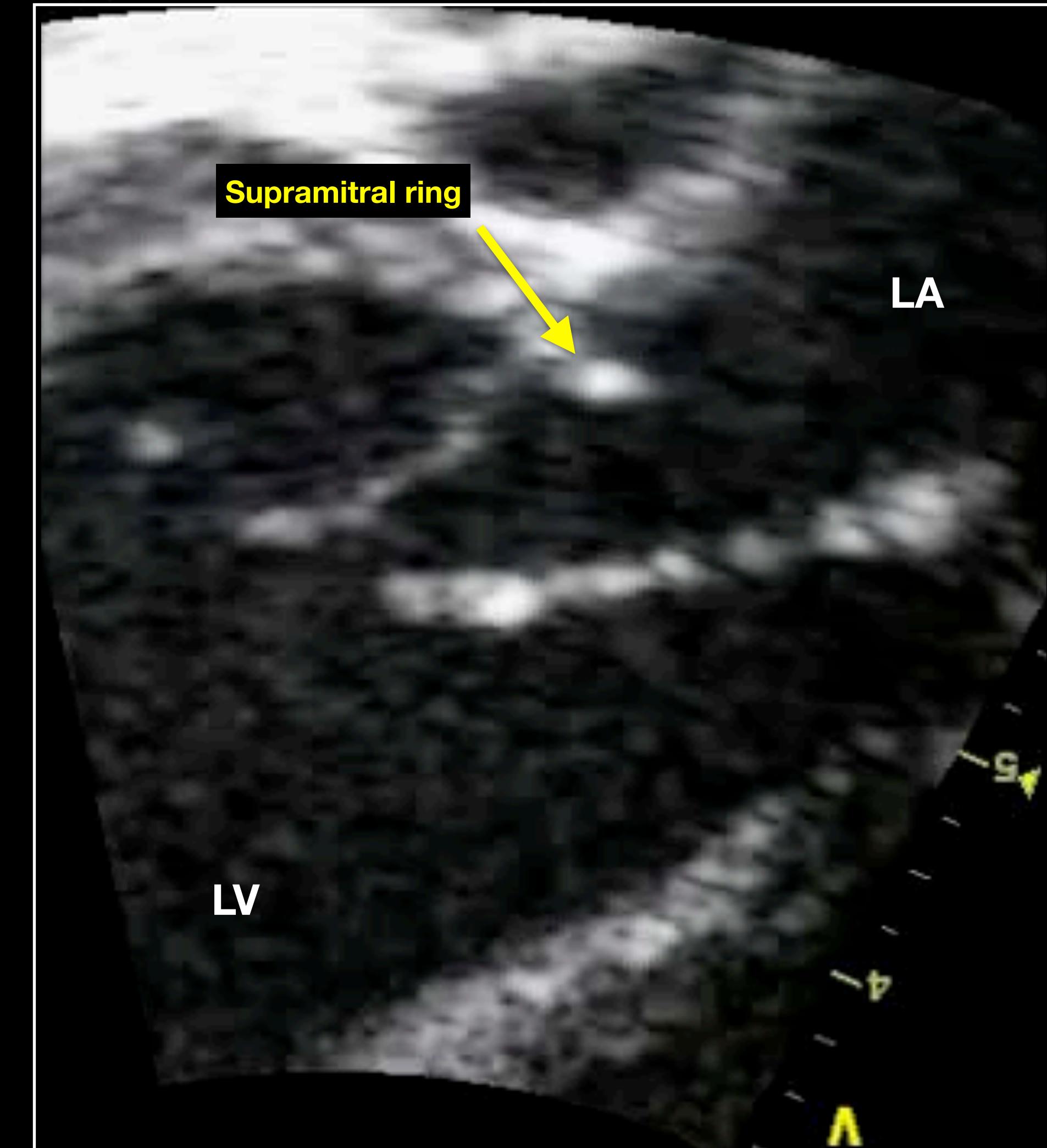
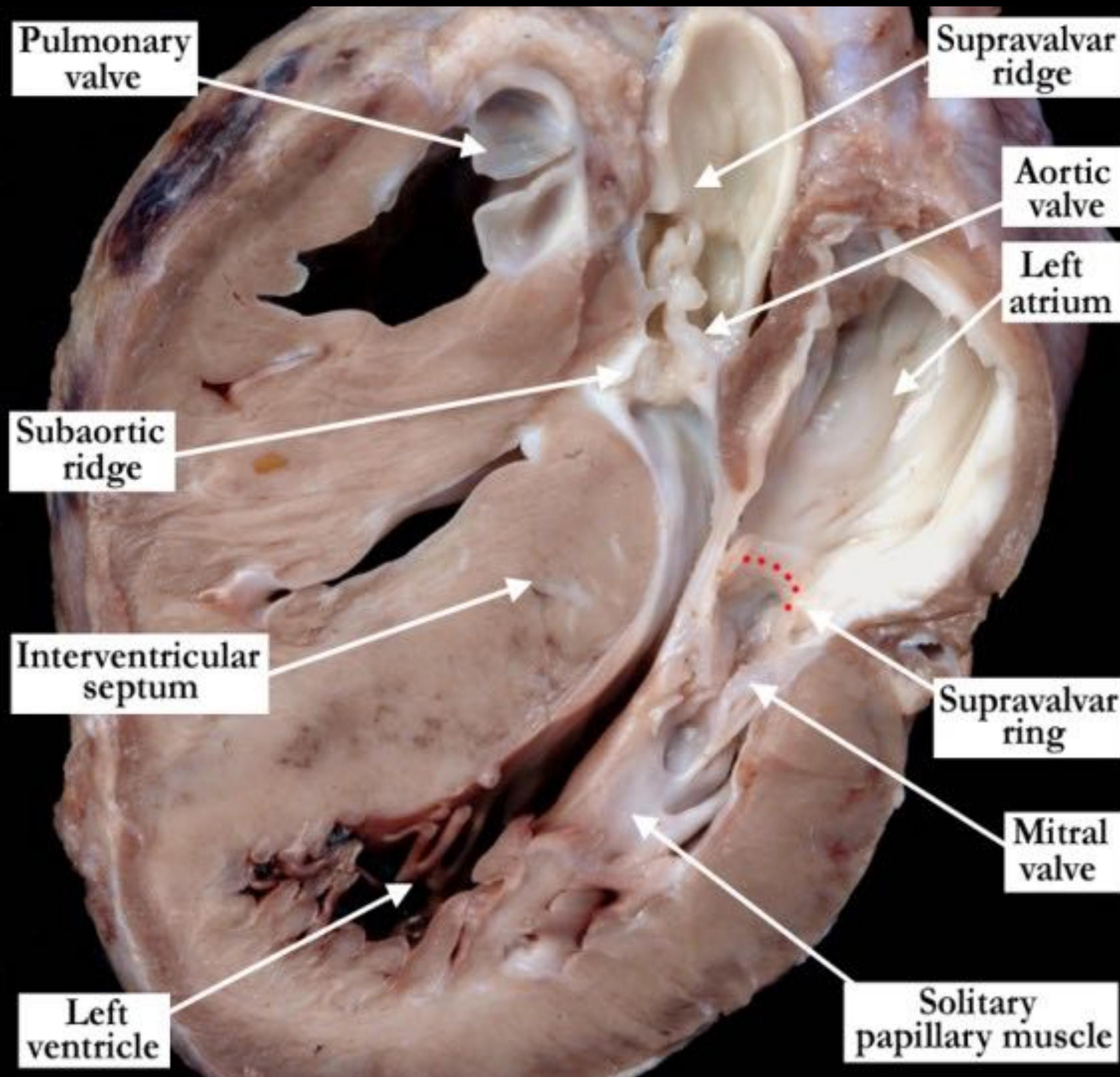


Supamitral ring

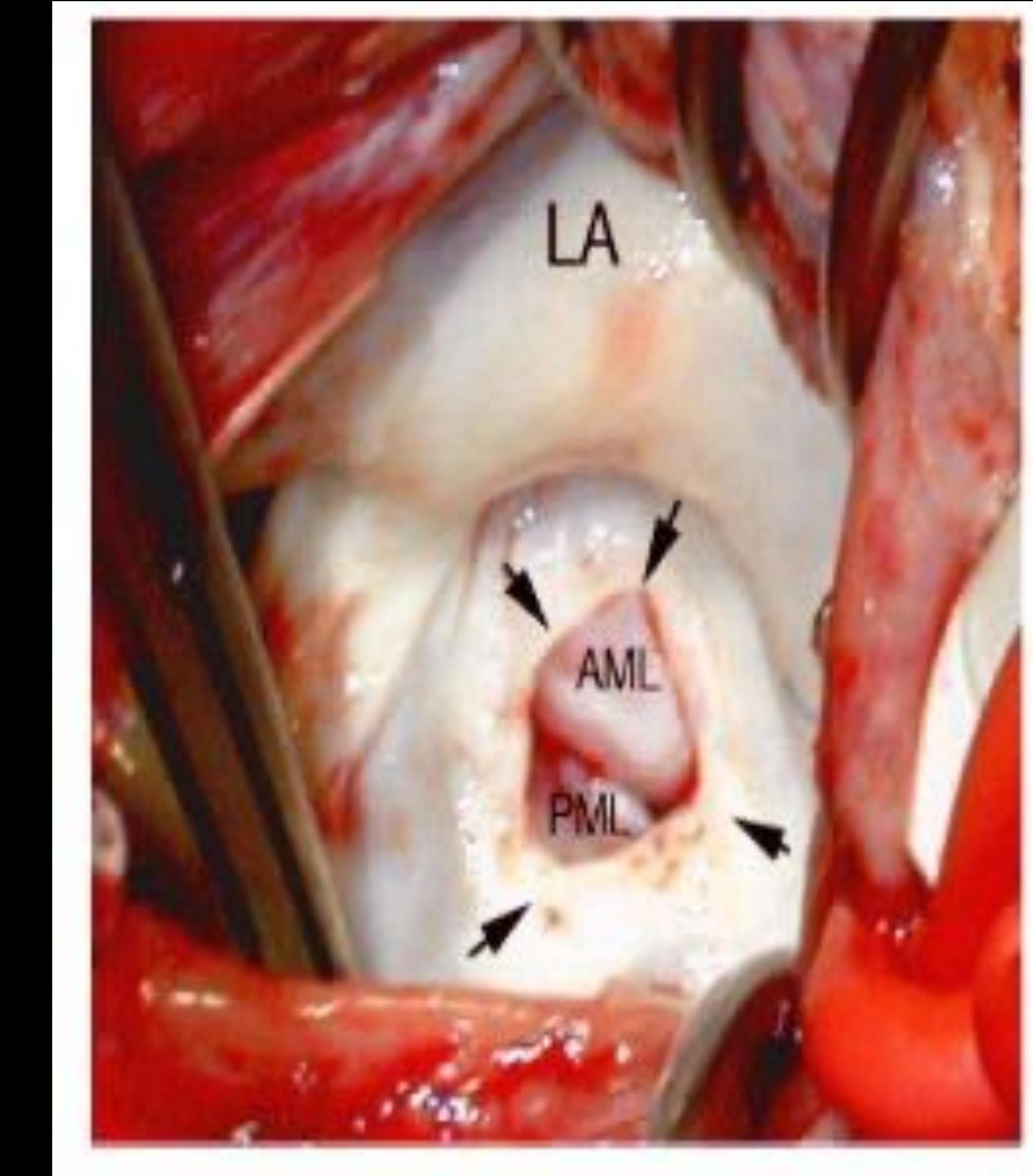
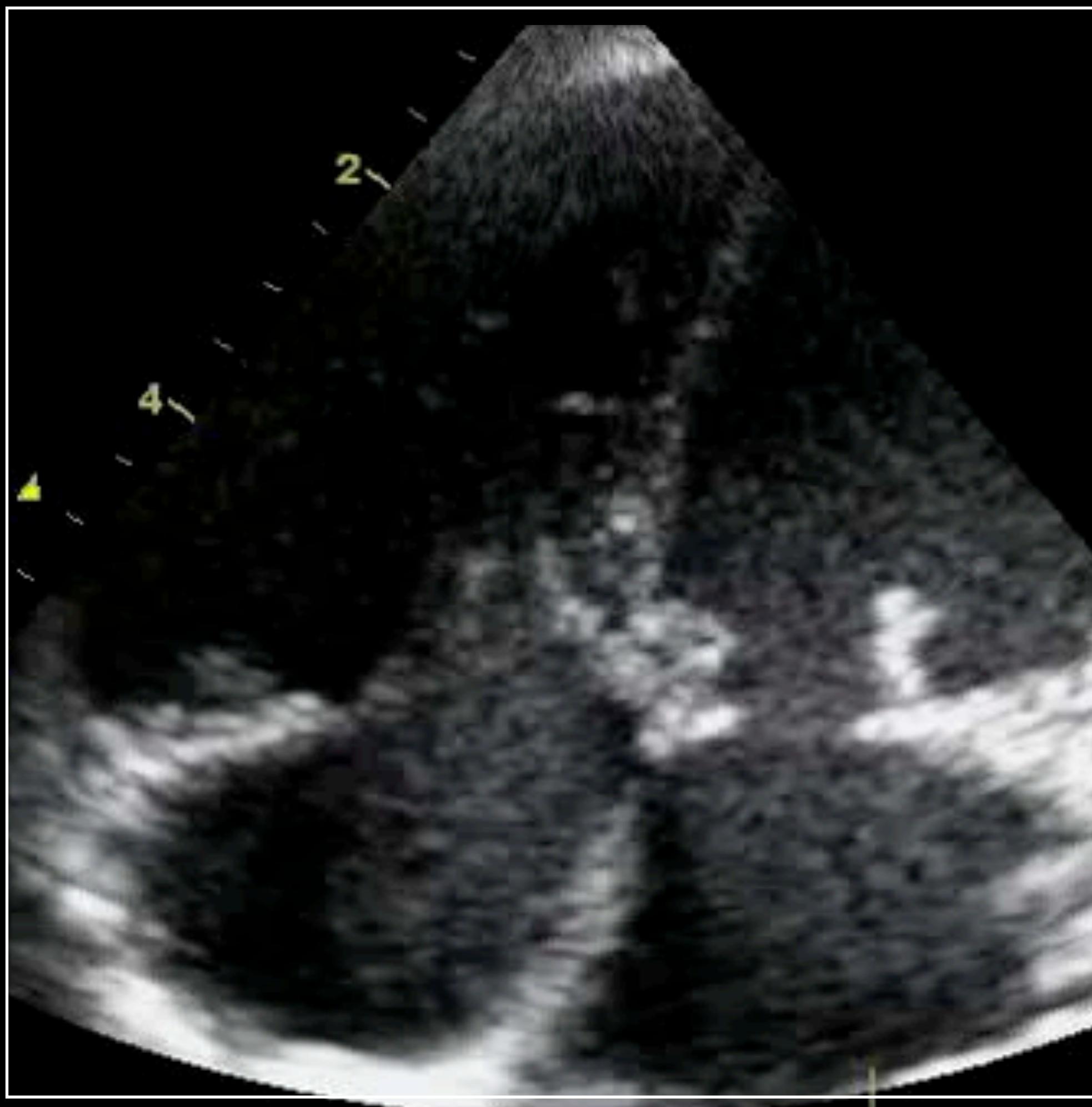


Intramitral ring

Supramitral ring



Supramitral ring



Anomalies of the subvalvar apparatus

- Parachute
- Arcade
- Hammock
- *Straddling*



Normal

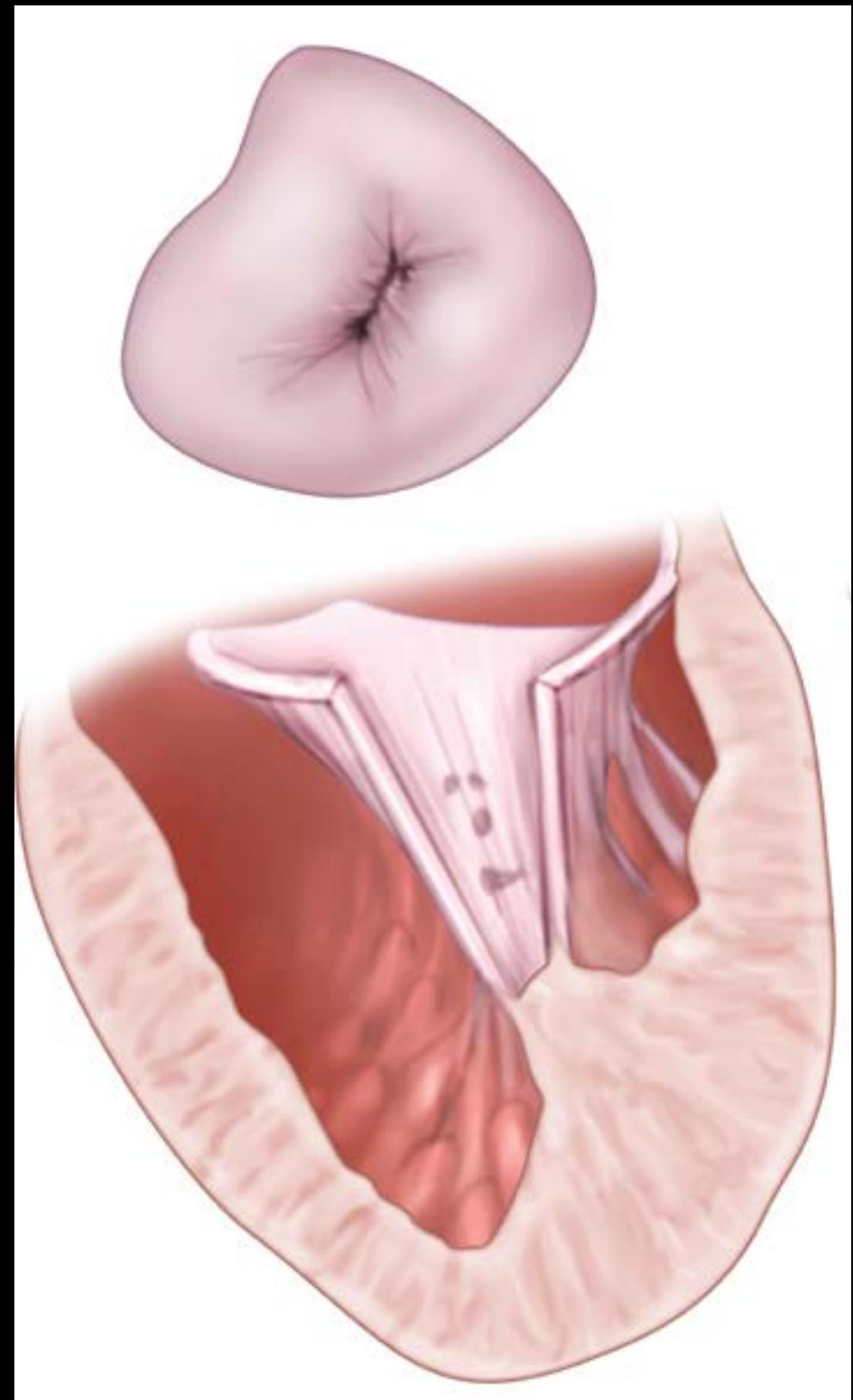


“Typical”

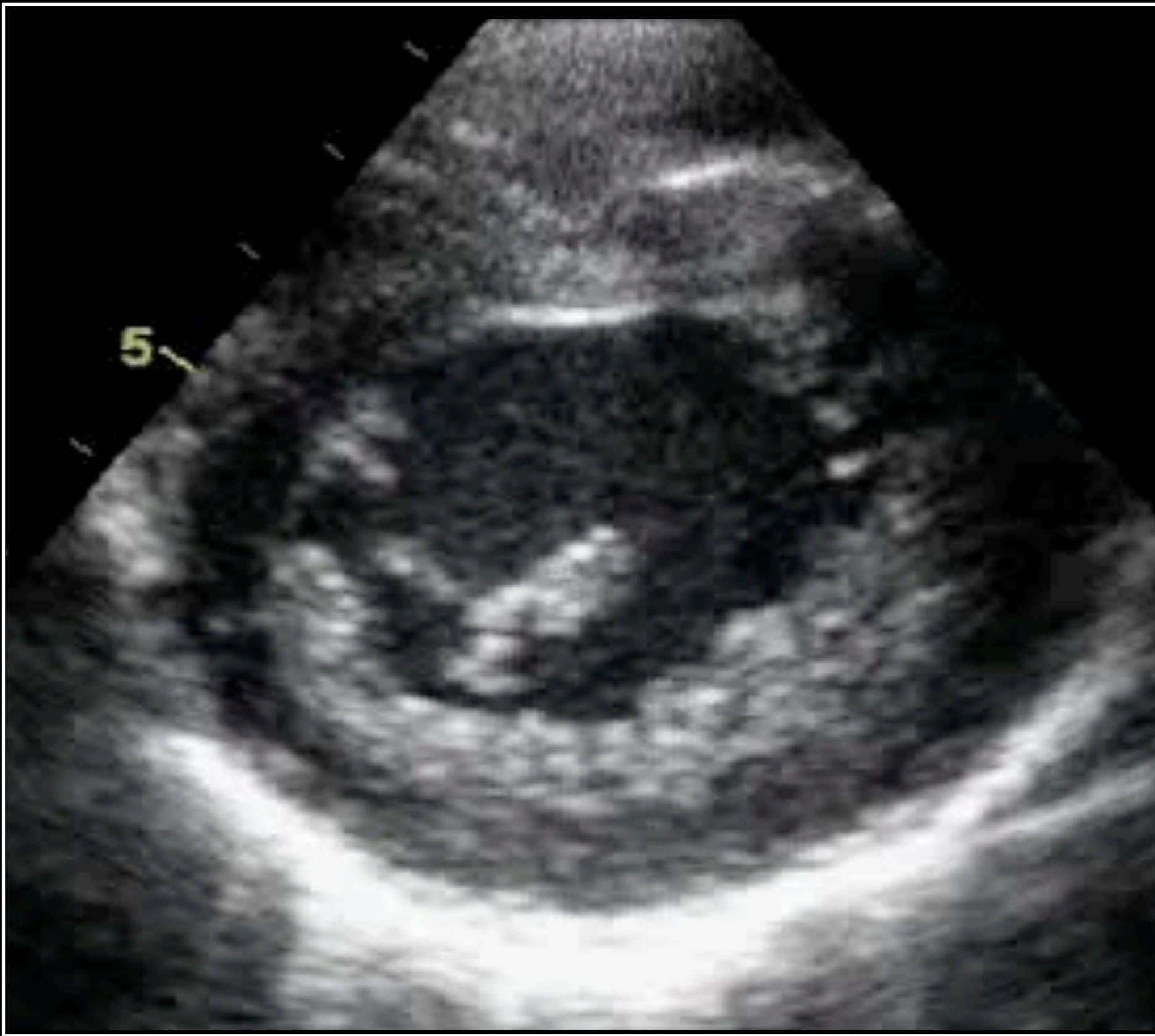


Parachute

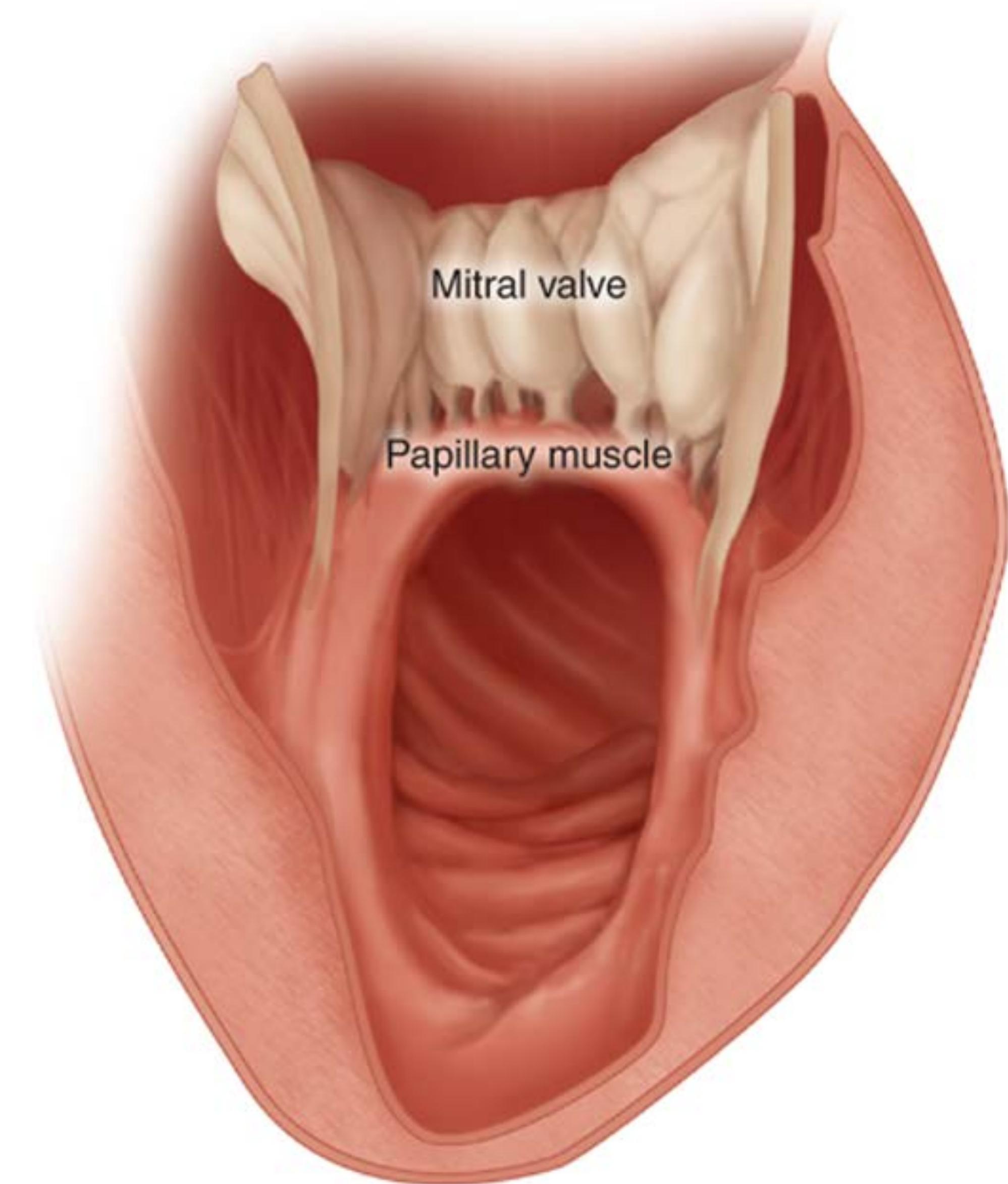
Parachute



Parachute



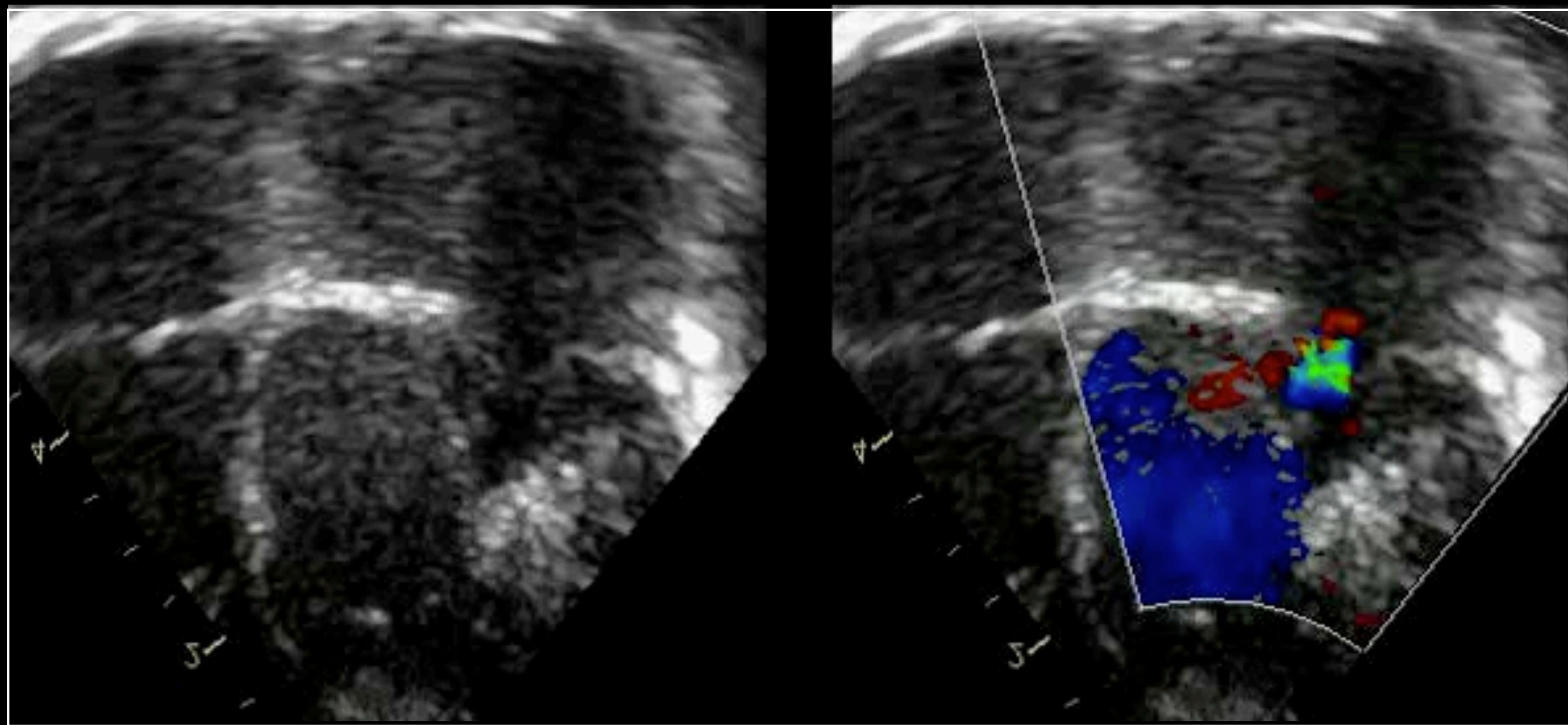
Arcade/hammock



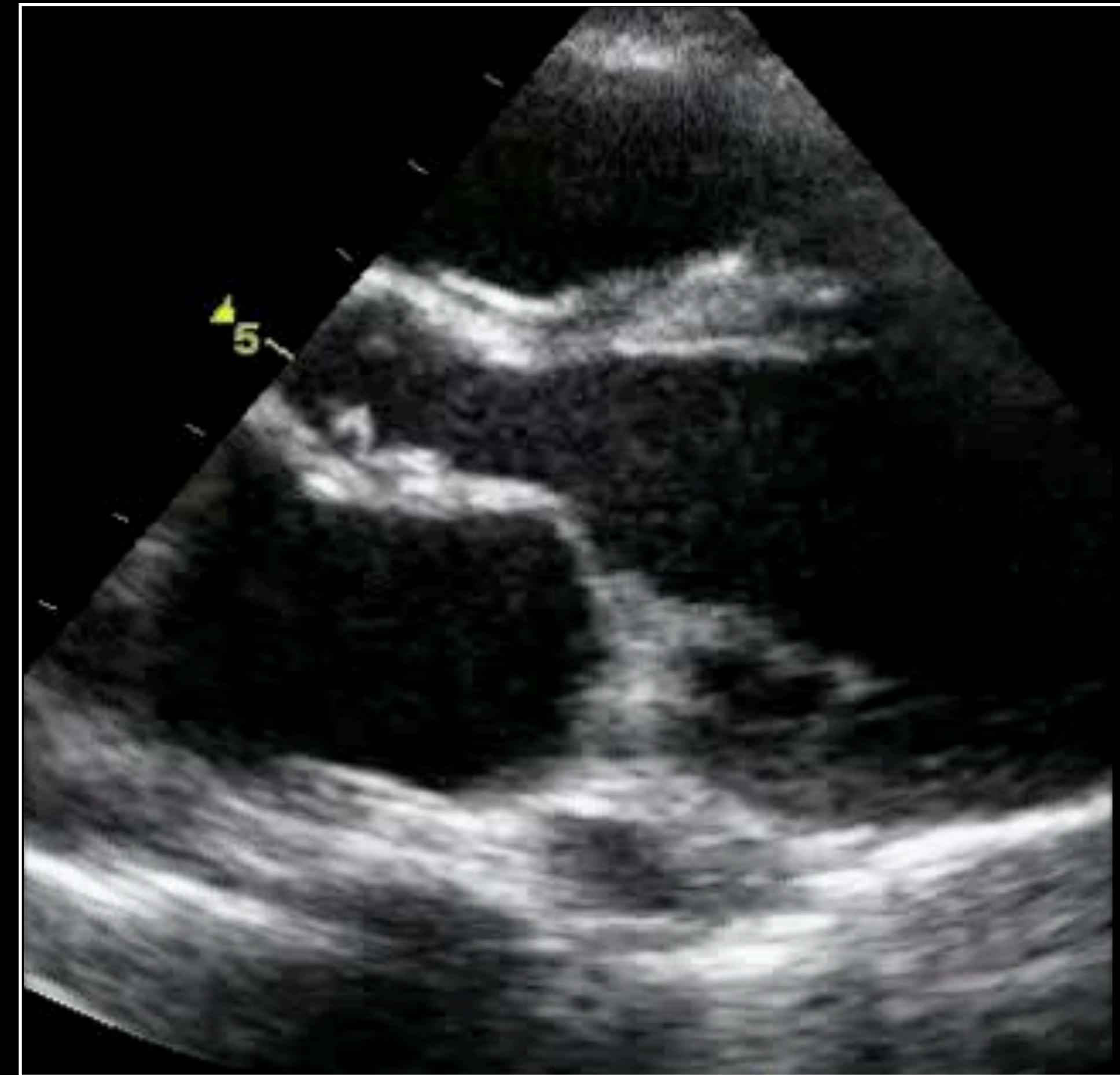
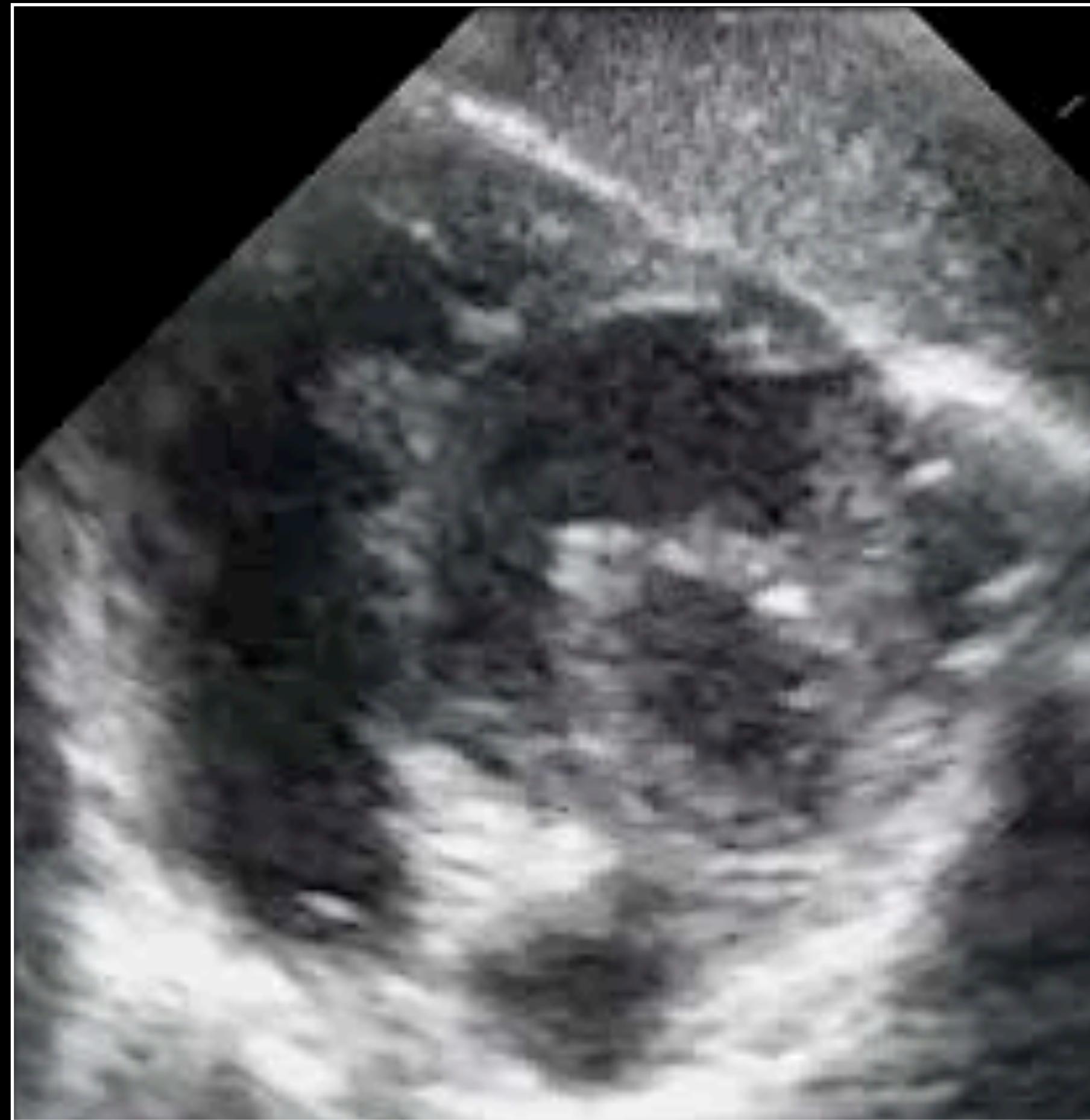
Hammock



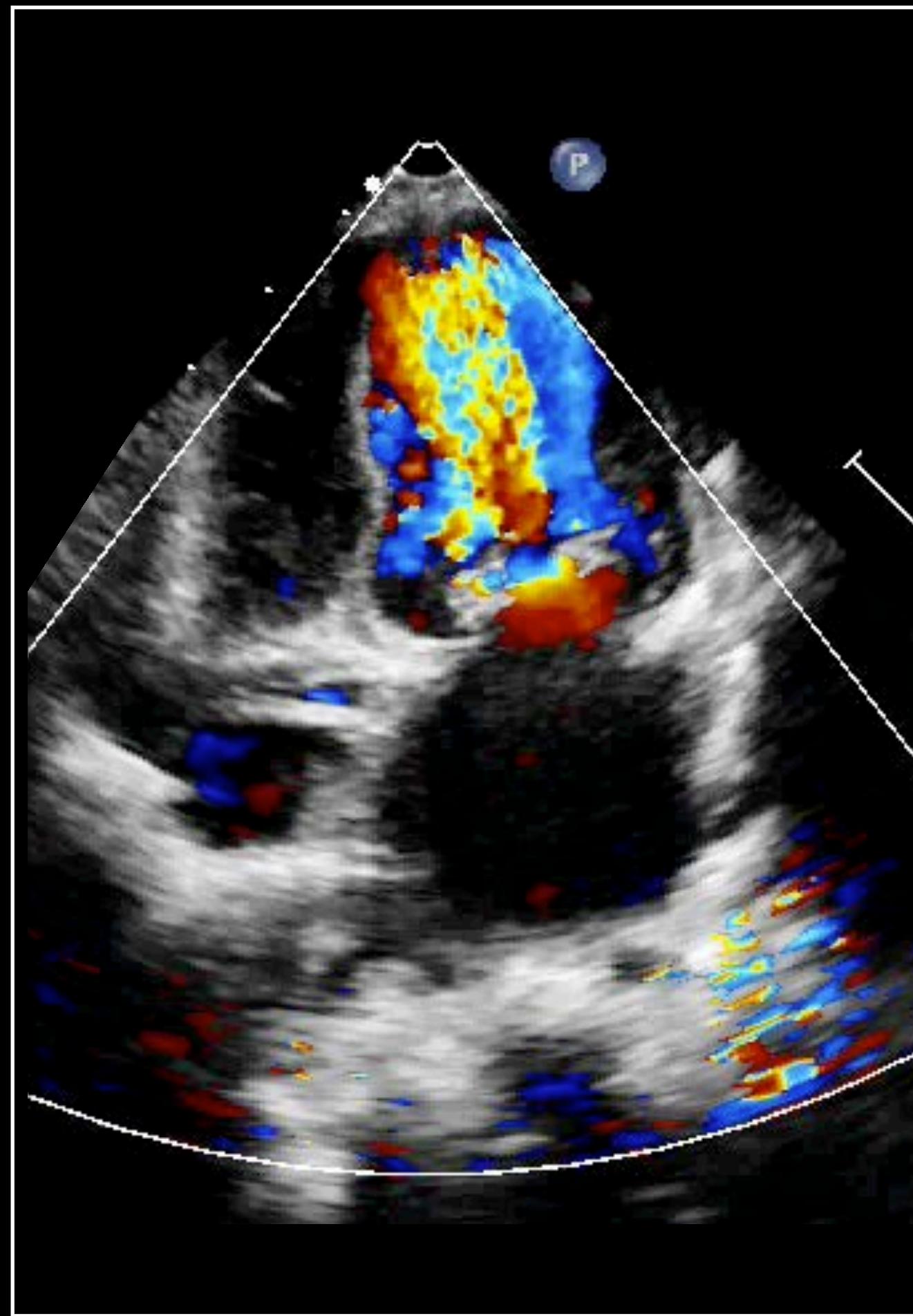
Hammock

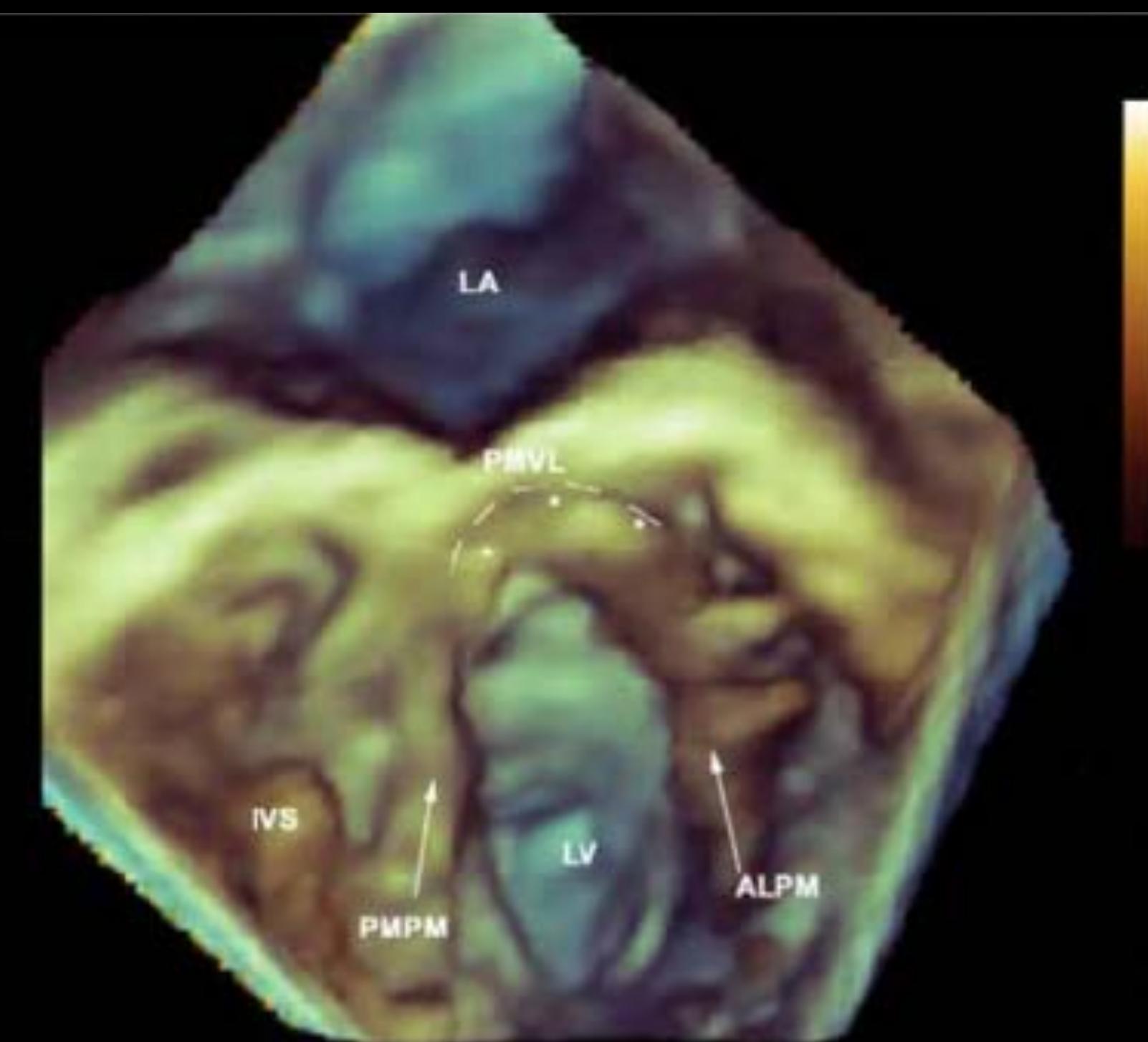
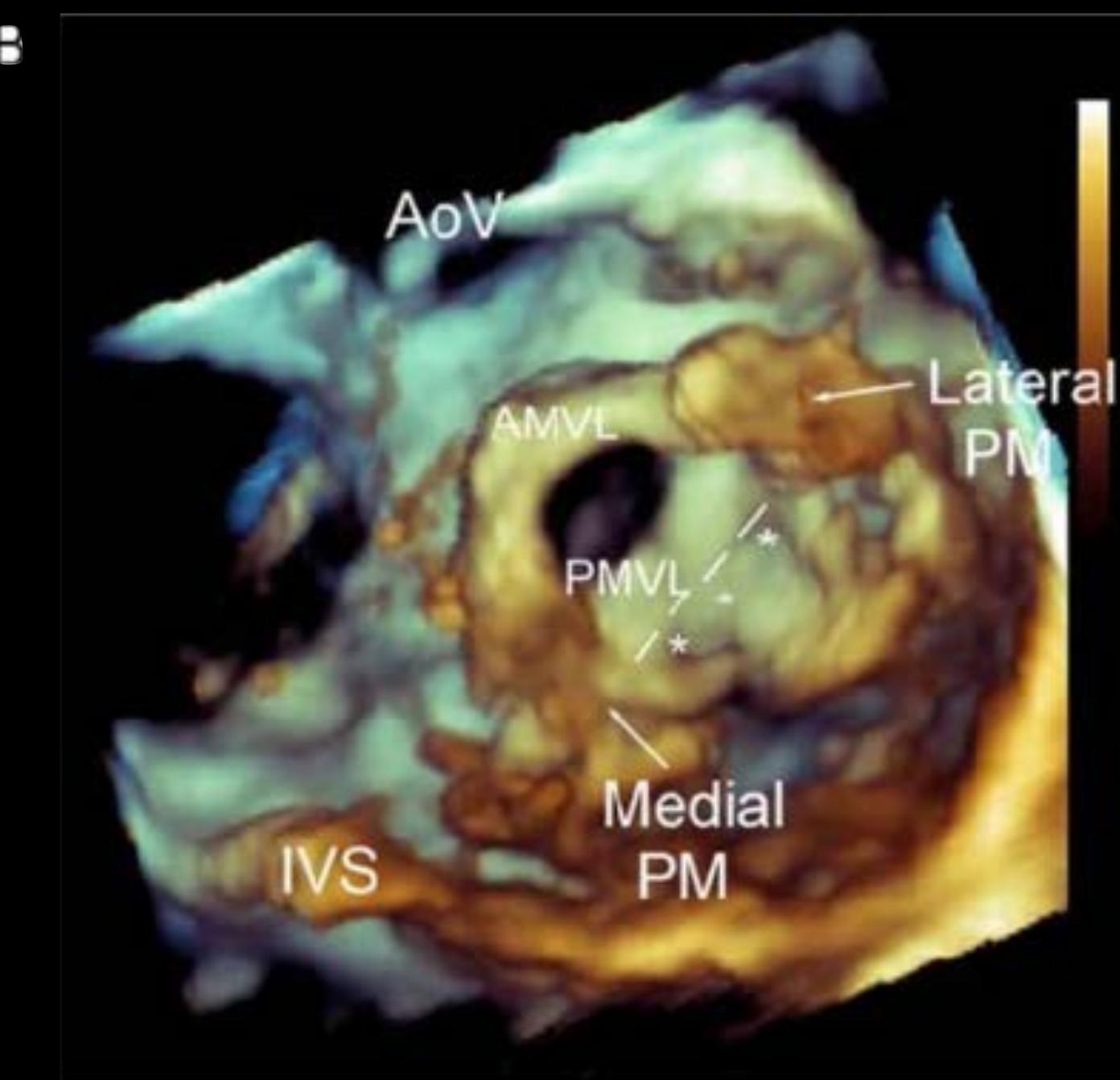
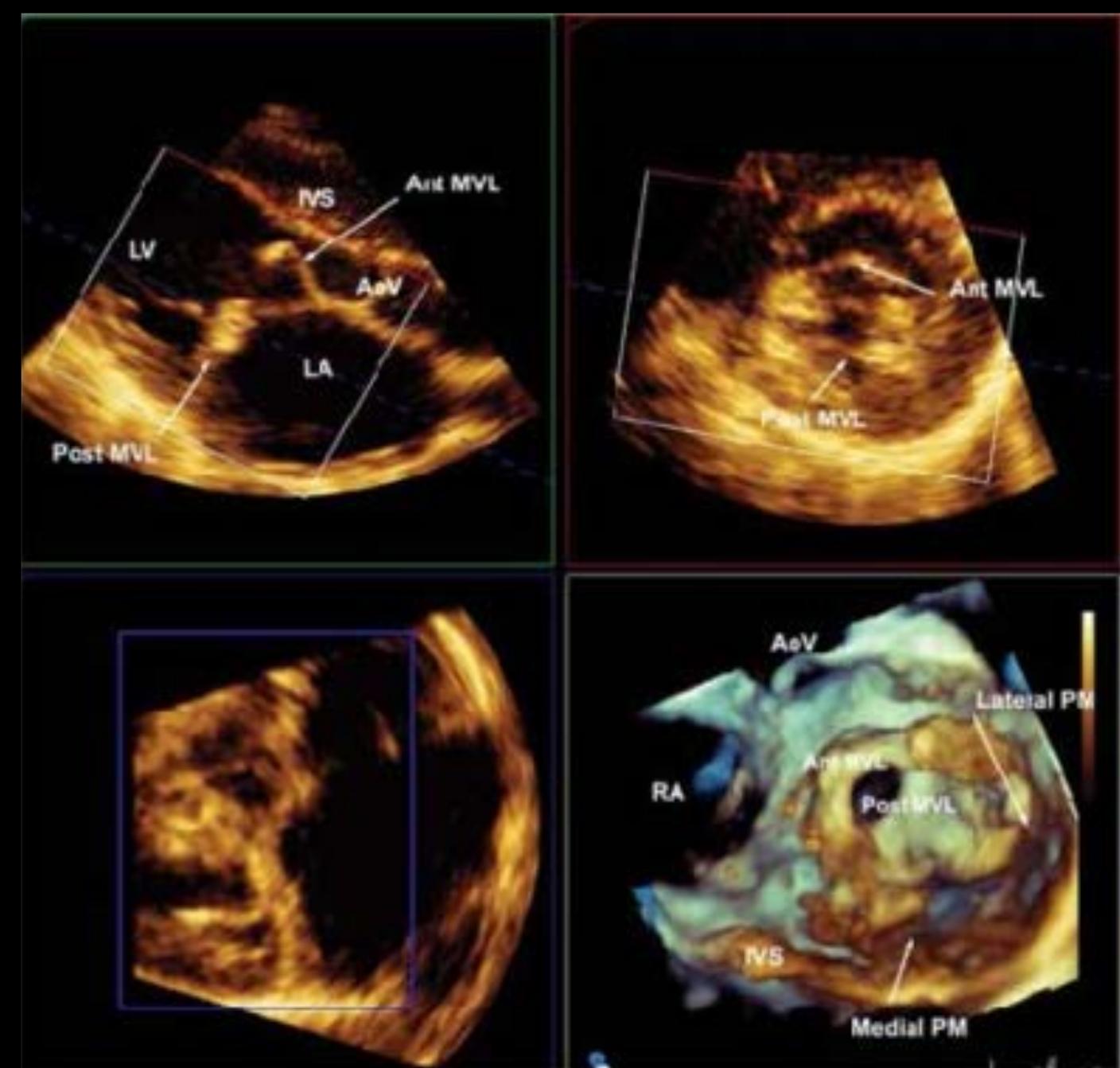
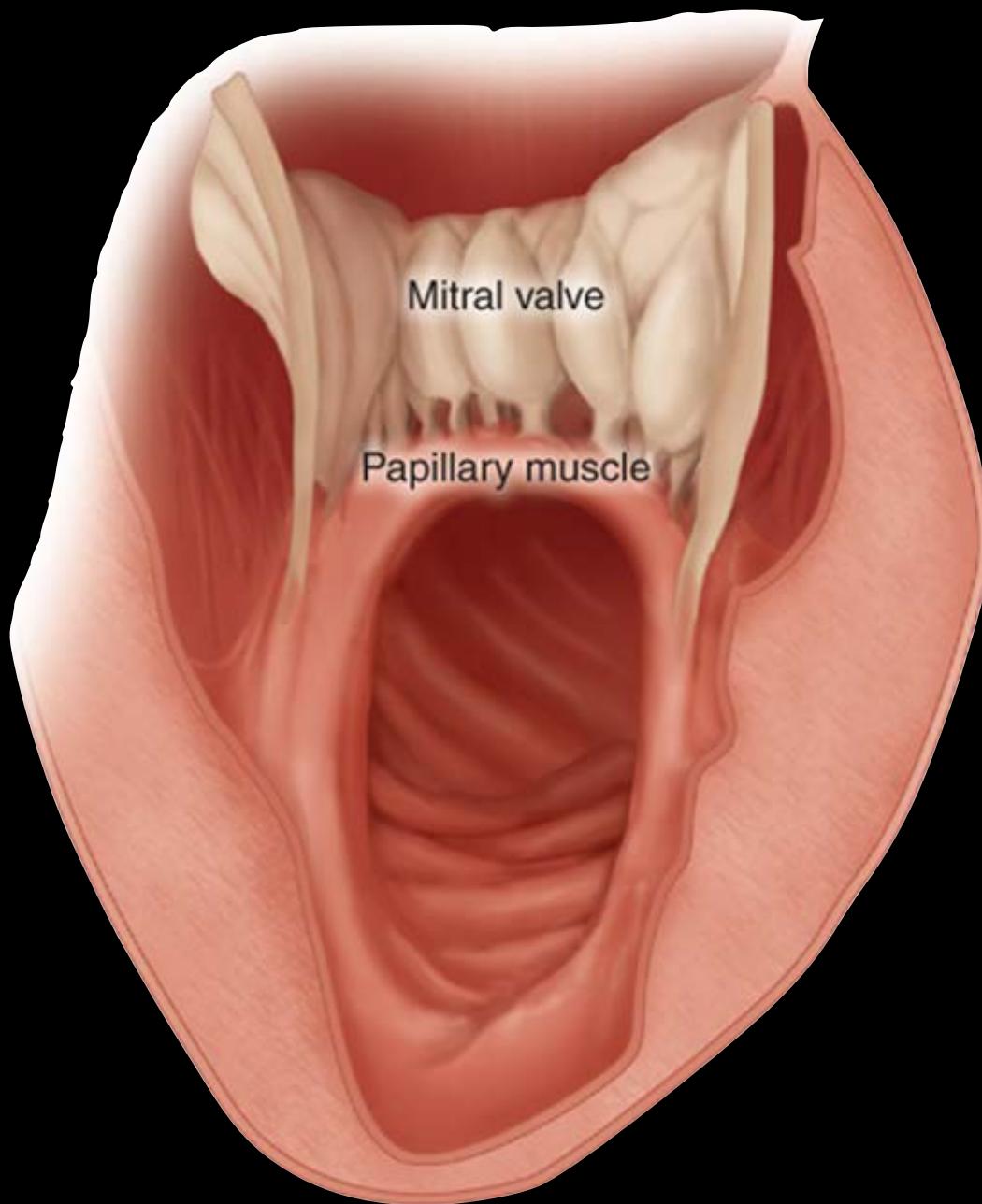


Hammock

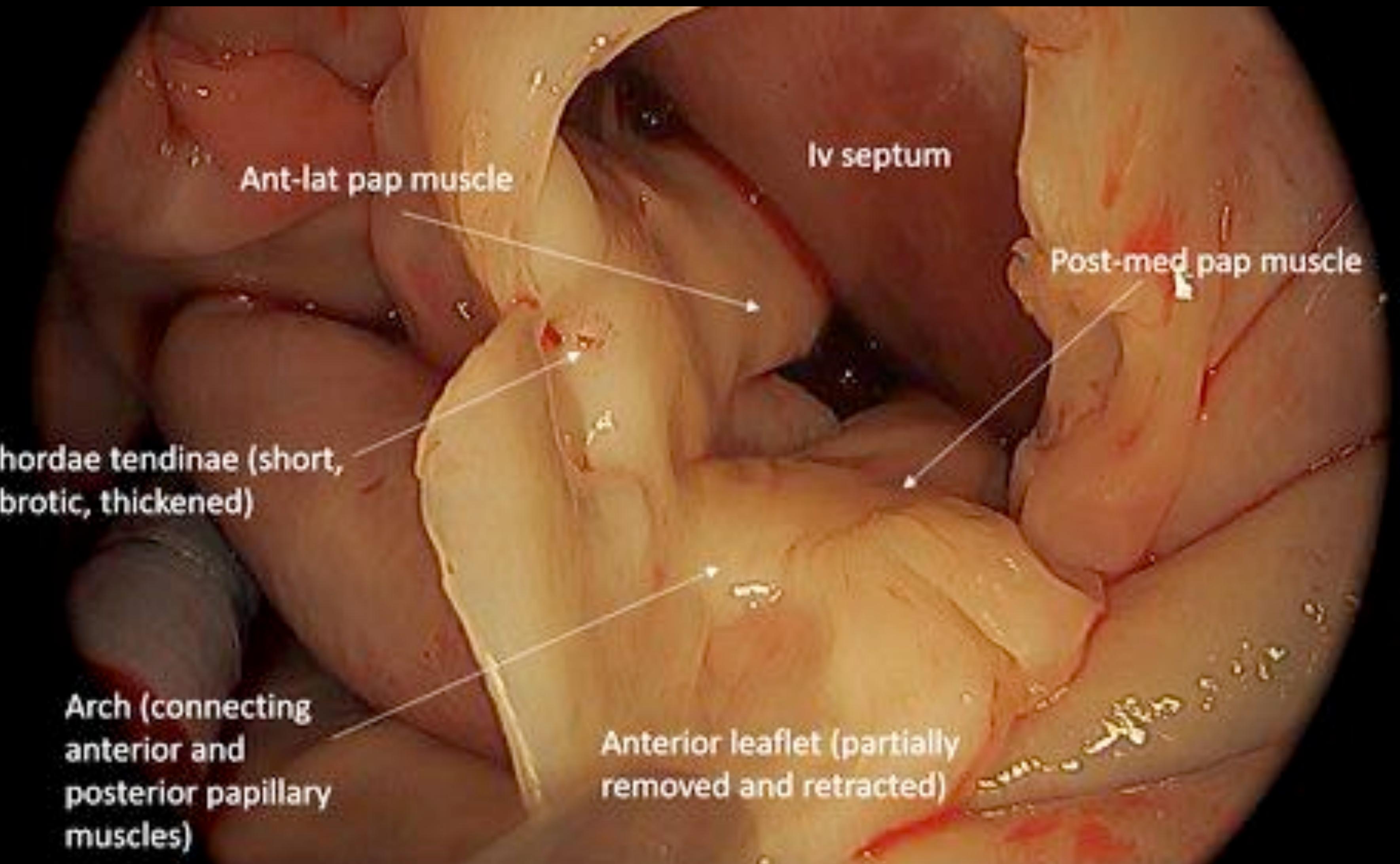


Arcade/hammock

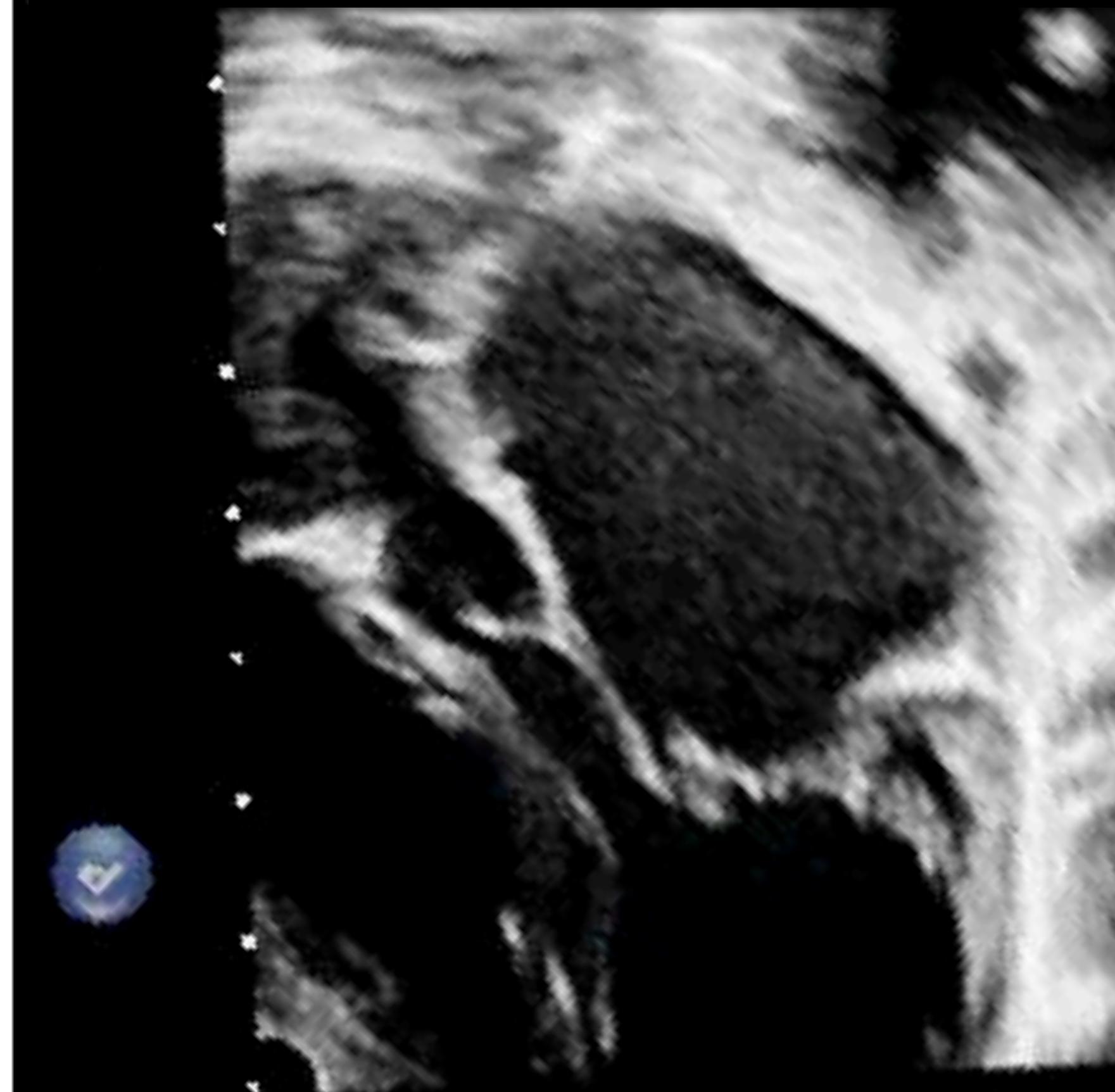
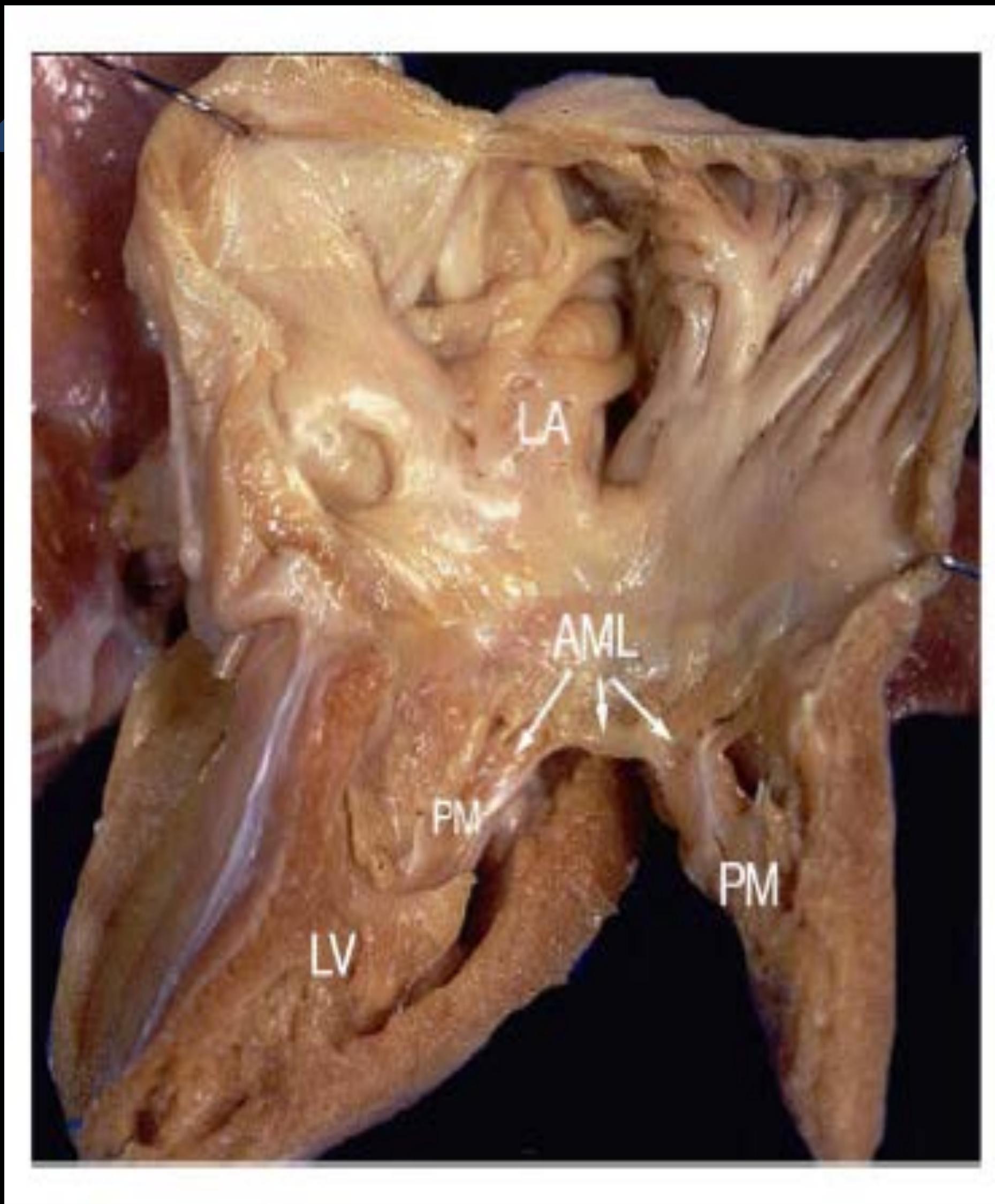




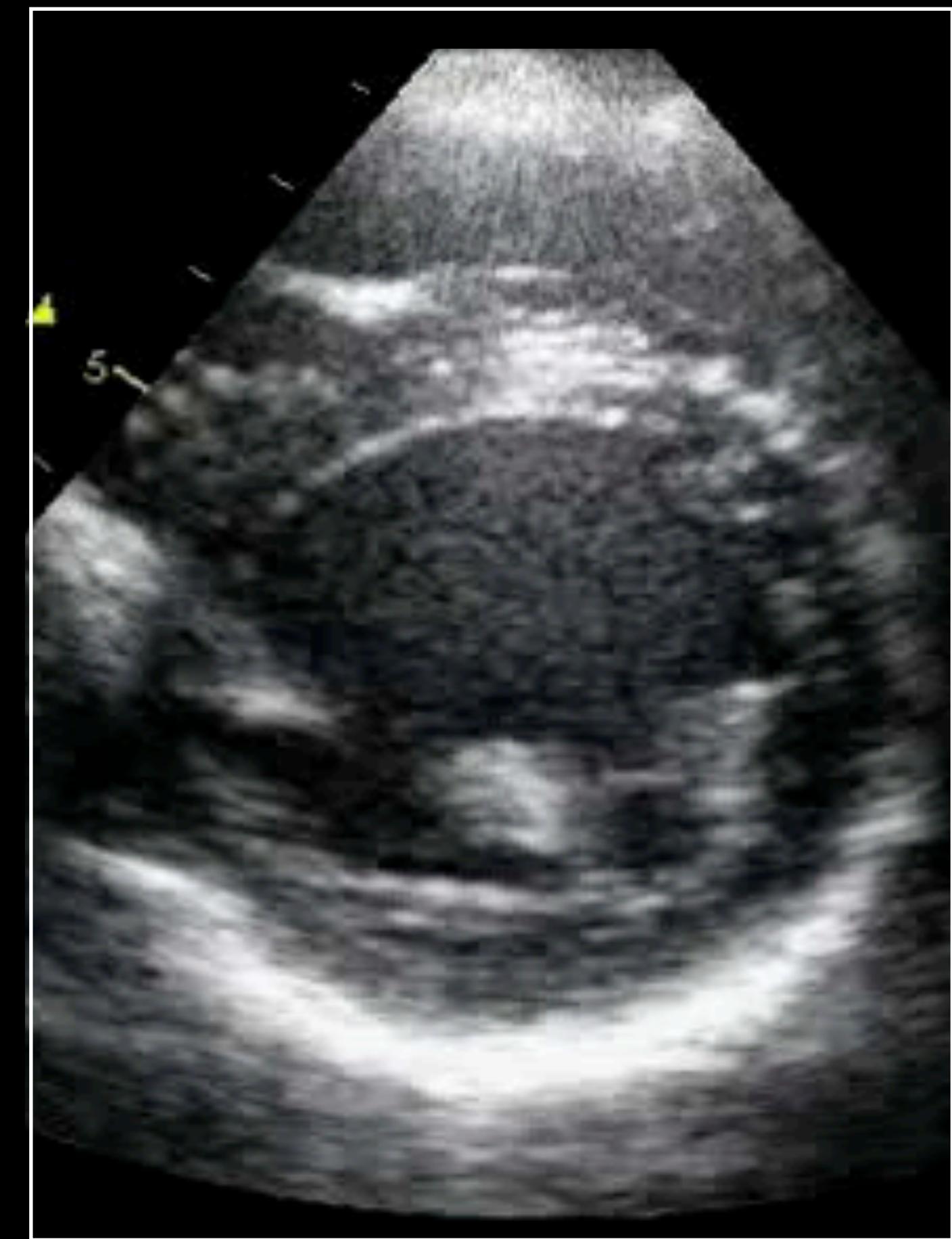
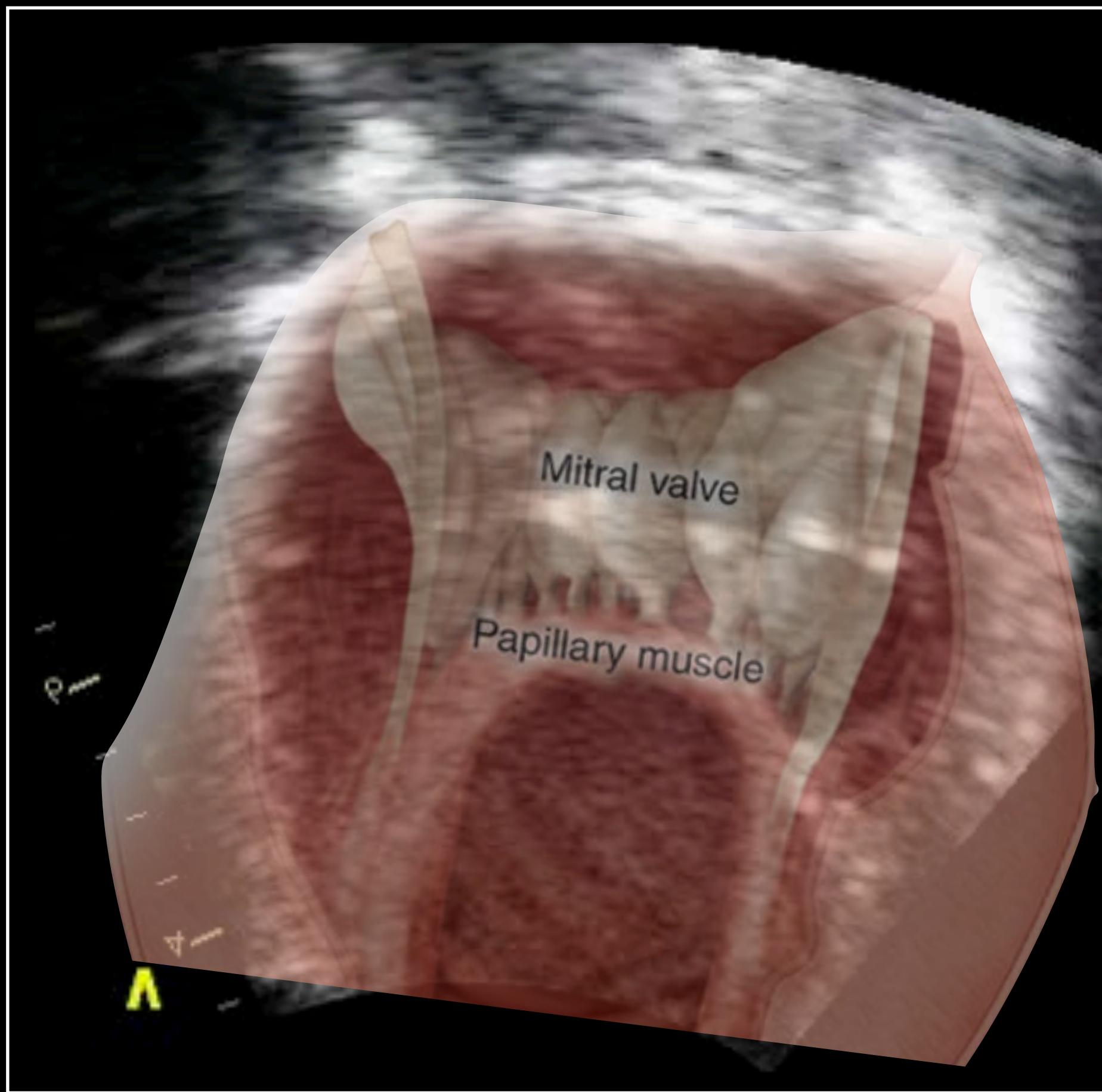
Arcade/hammock



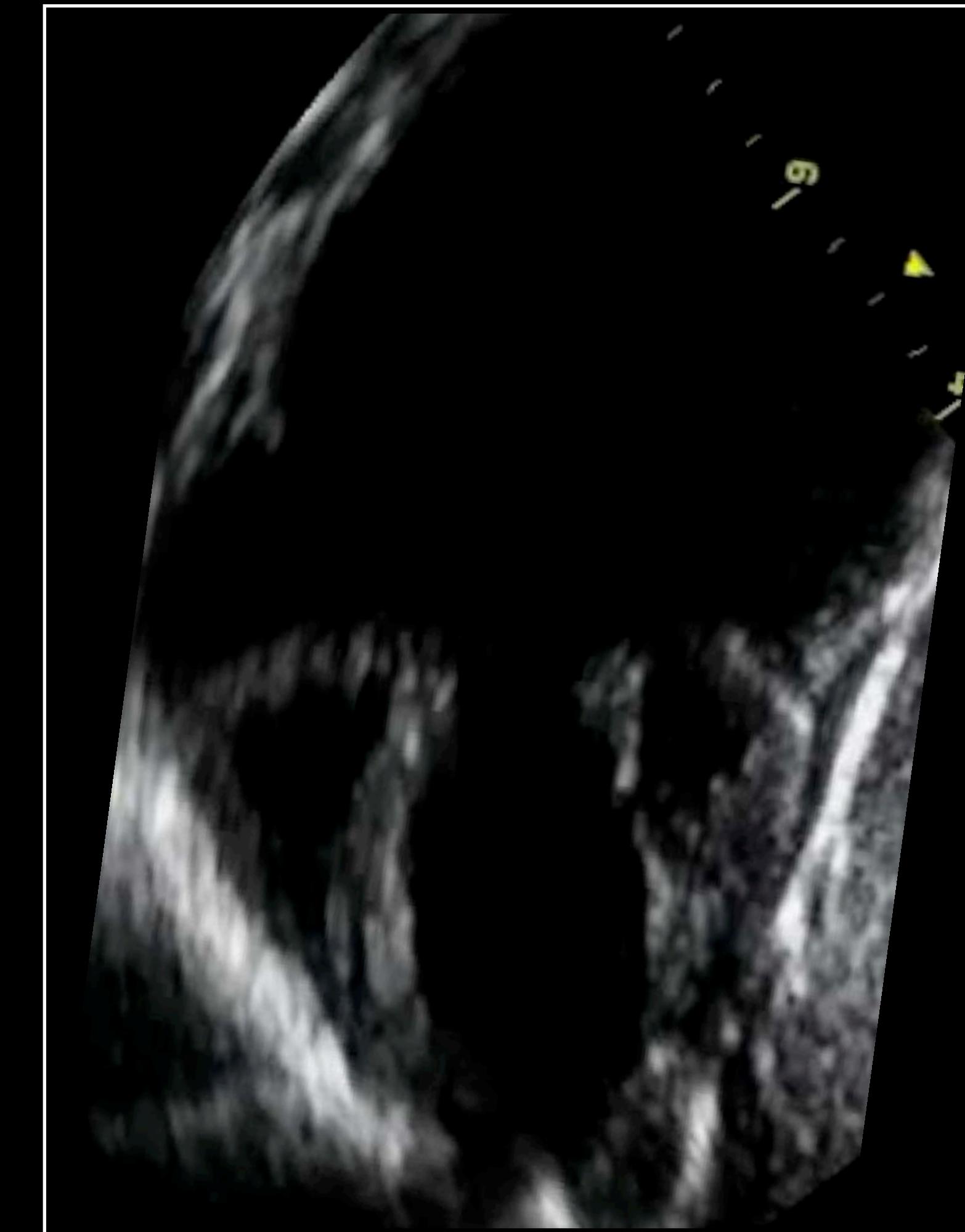
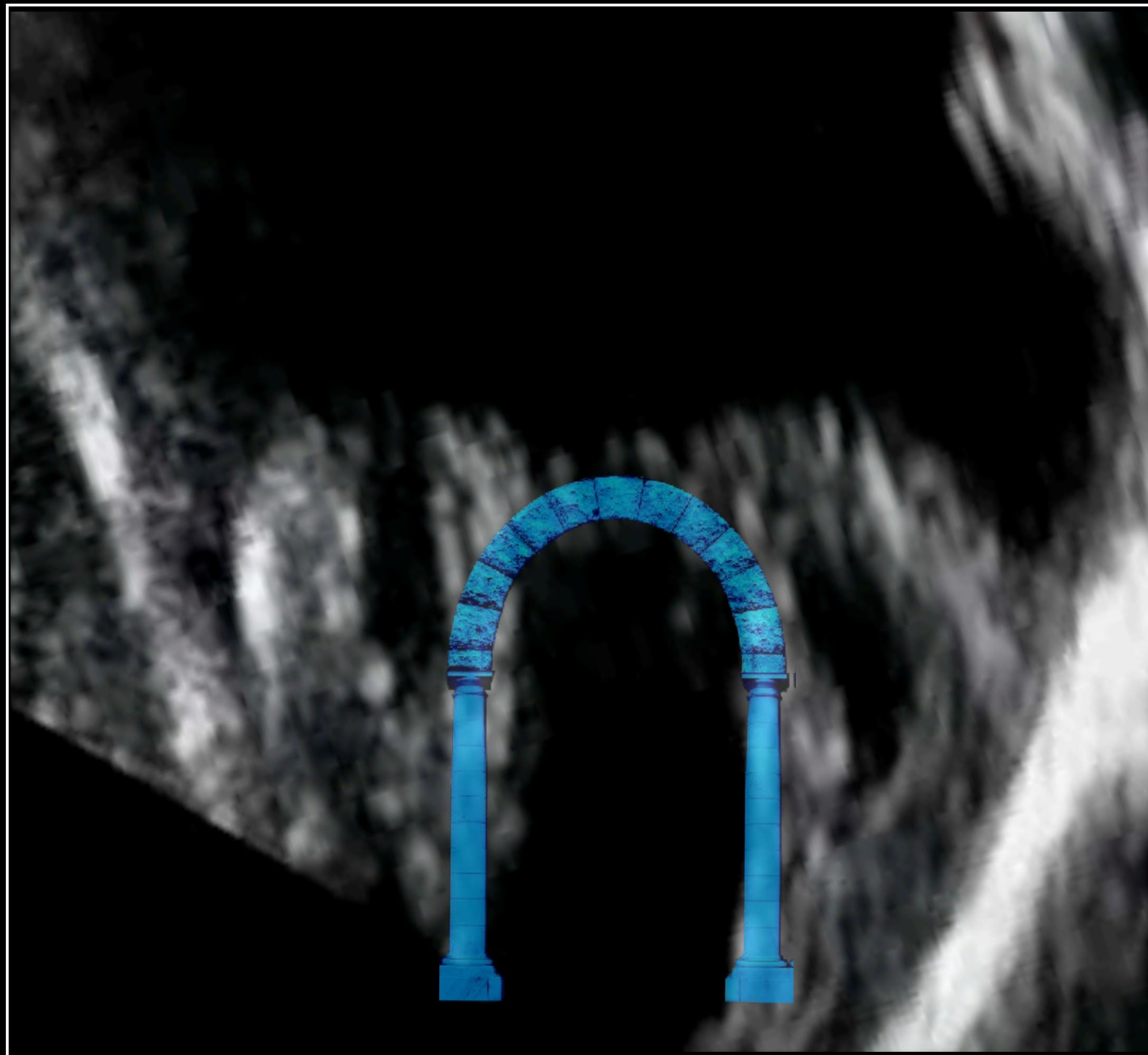
Arcade/hammock



Arcade/hammock

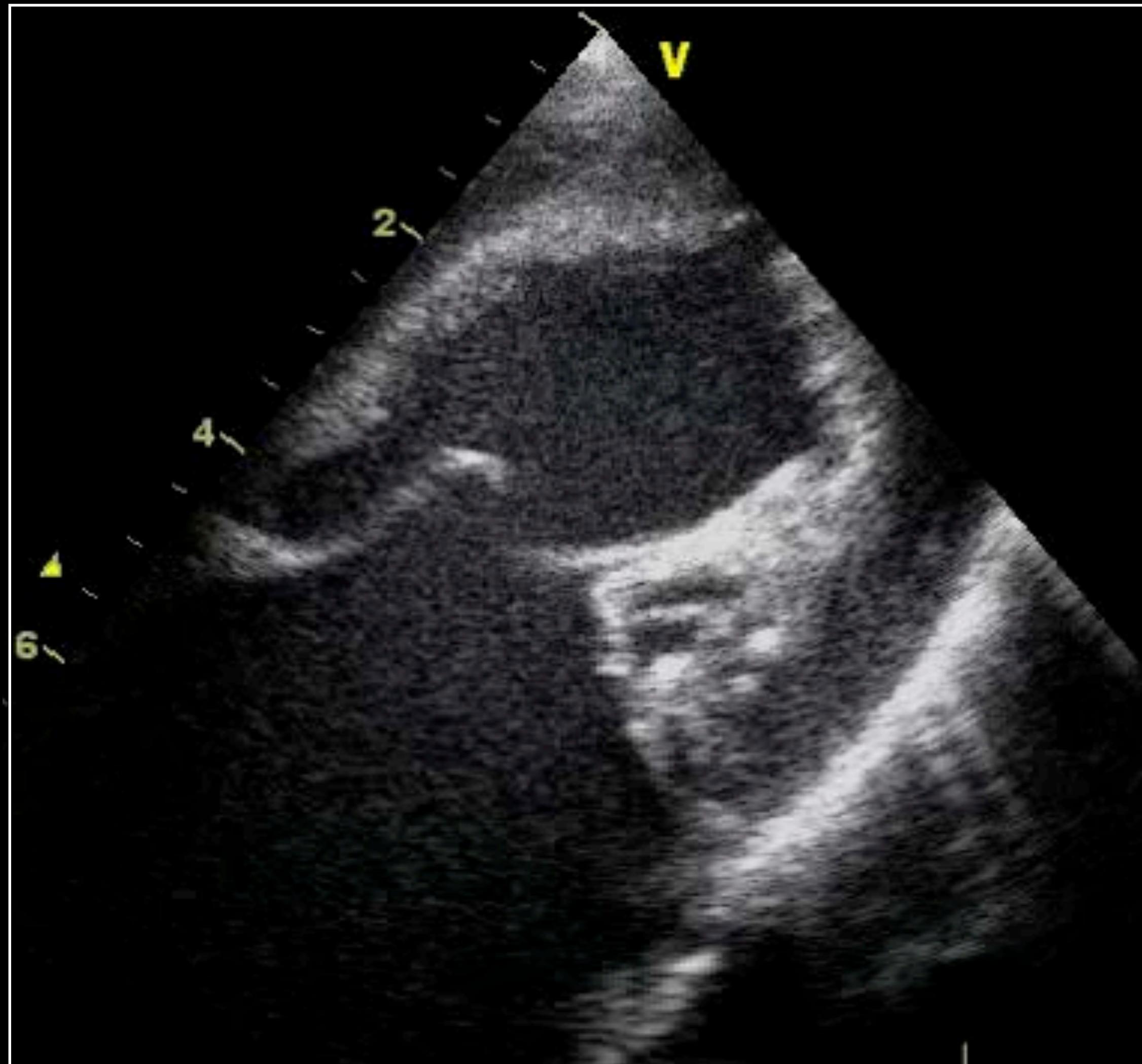


Arcade

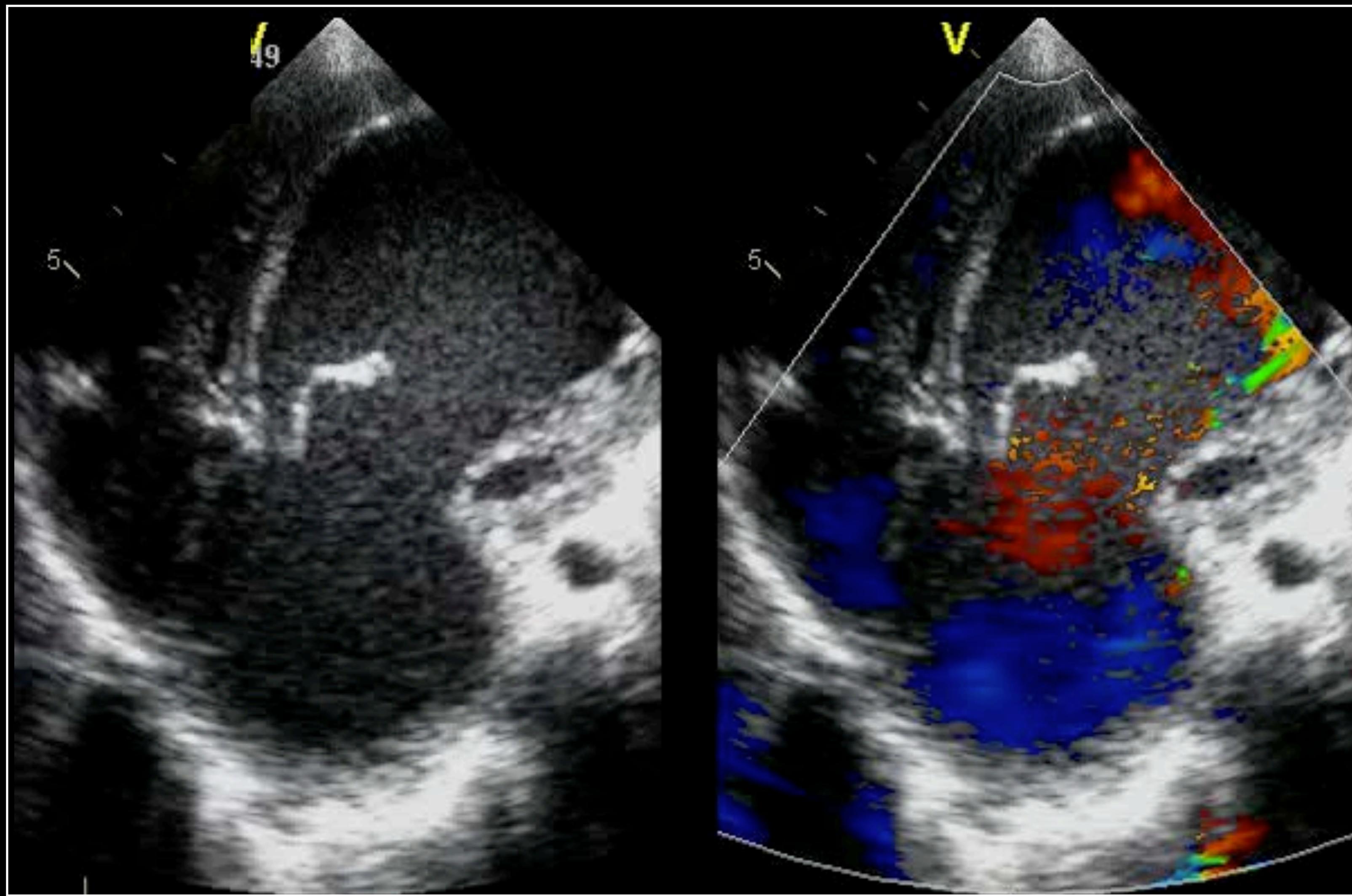


Anomalies of the mitral valve in CHD

ALCAPA – Mitral regurgitation - ischemic

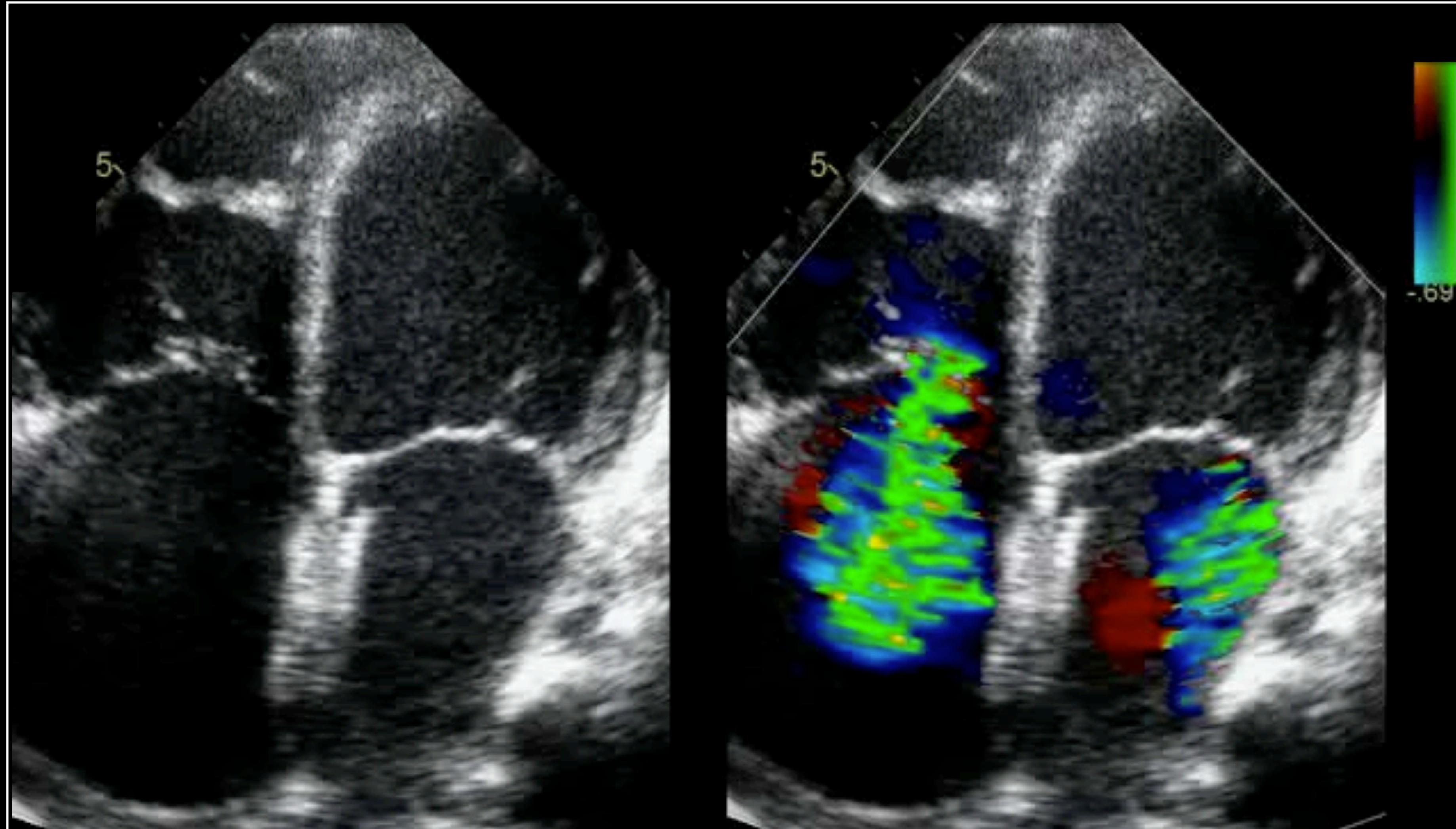


ALCAPA – Mitral regurgitation - ischemic

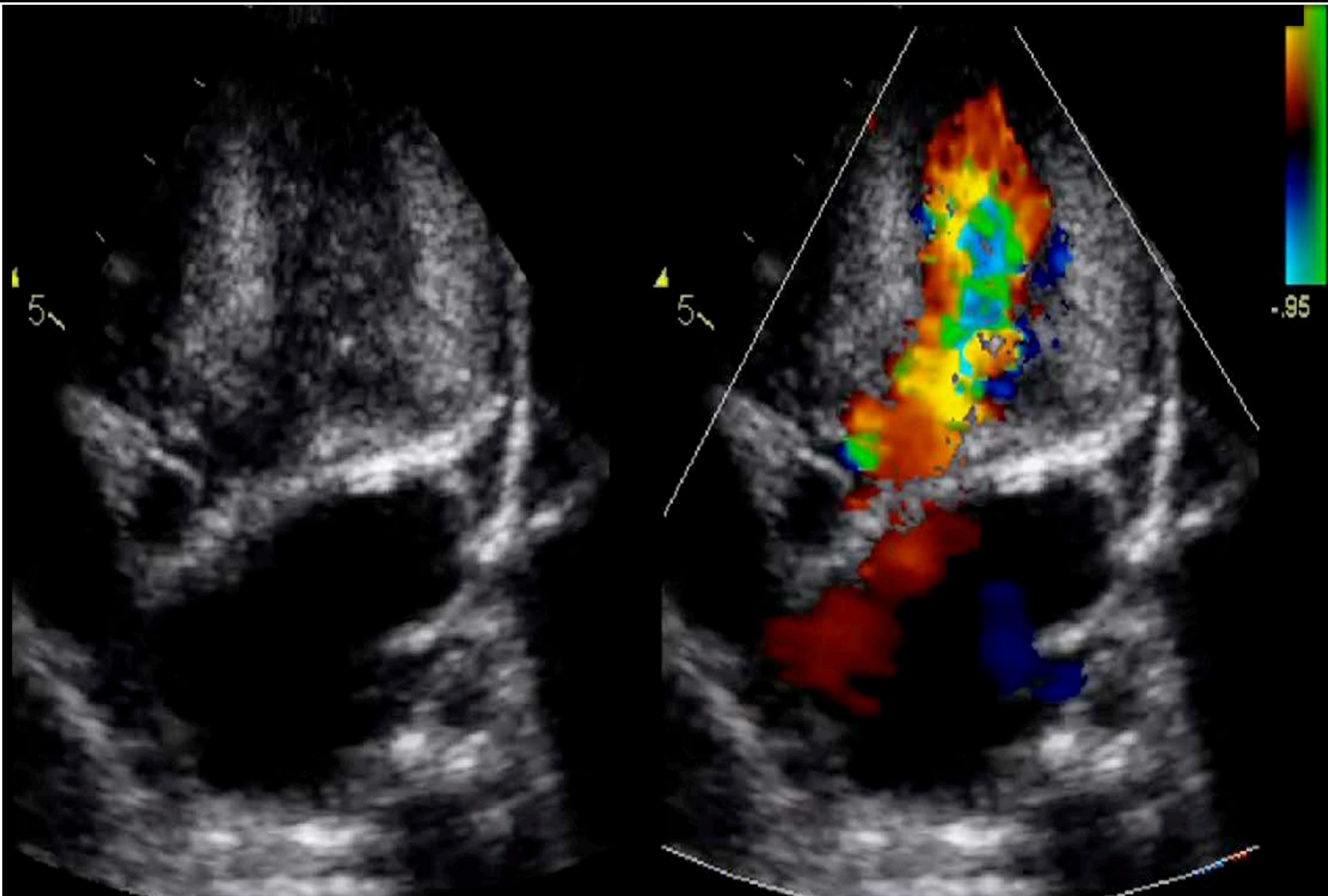
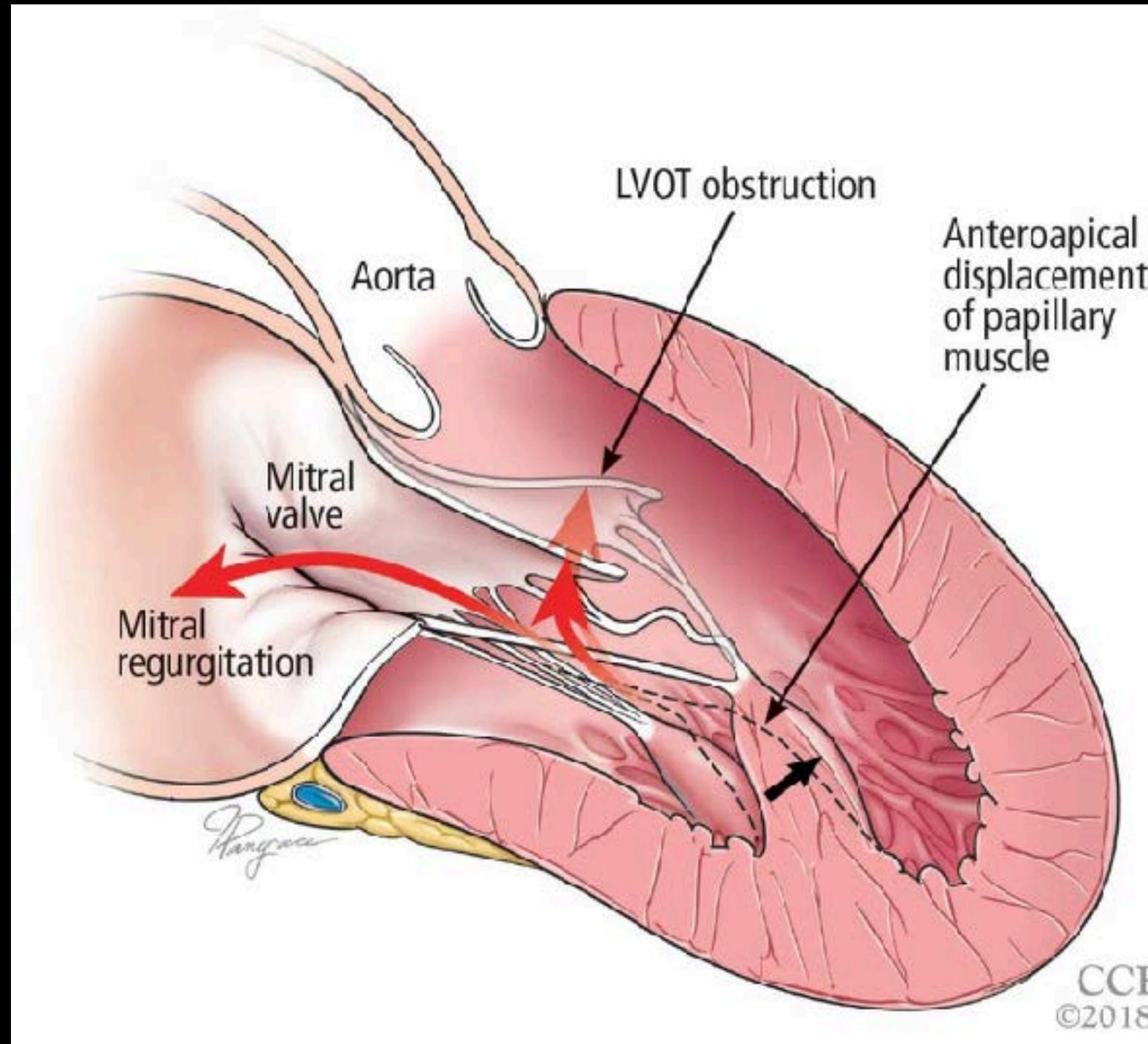


Acquired anomalies of the mitral valve

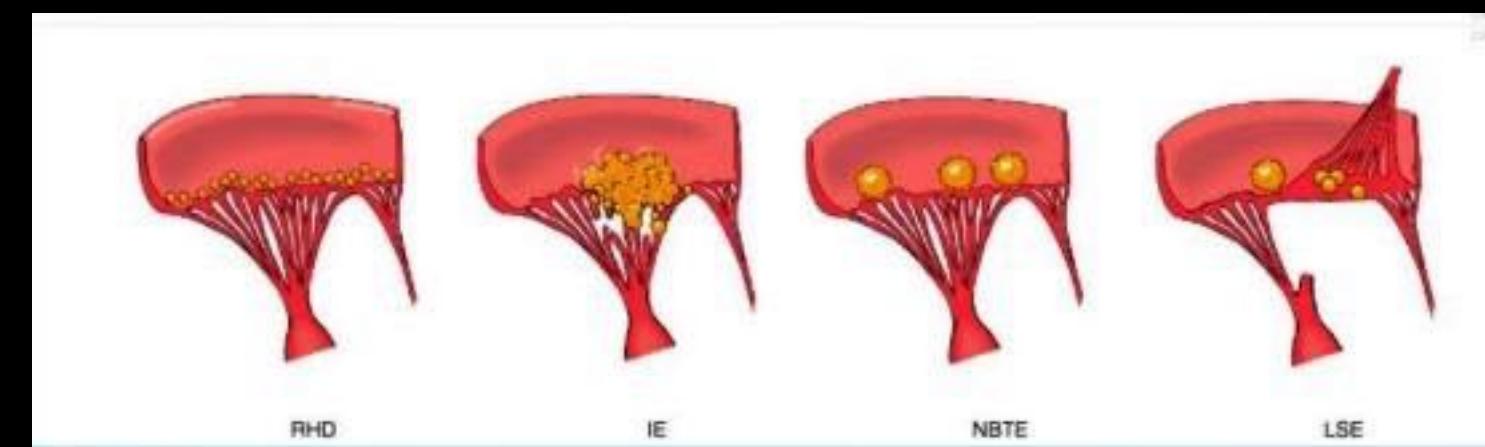
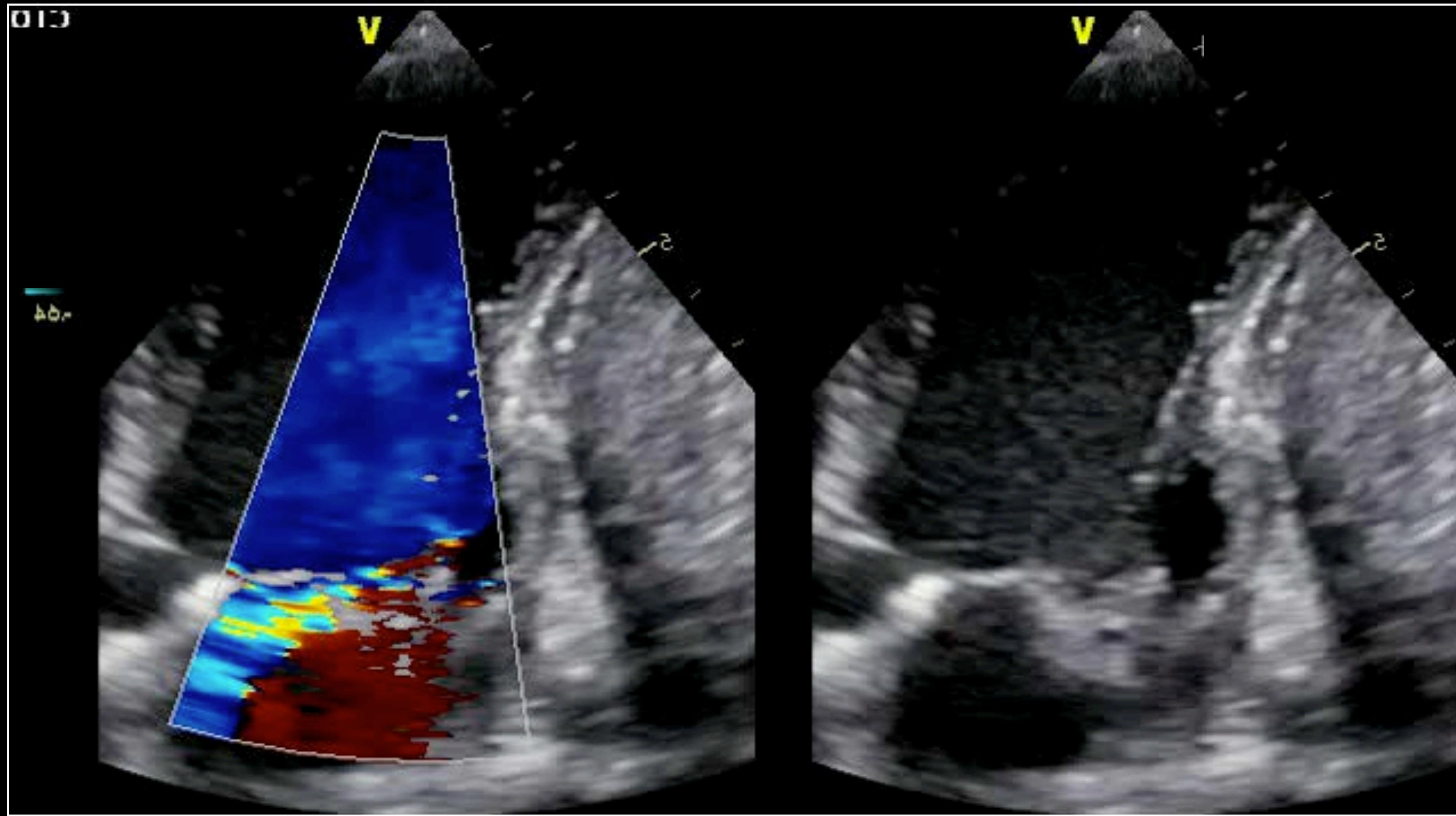
Dilated cardiomyopathy



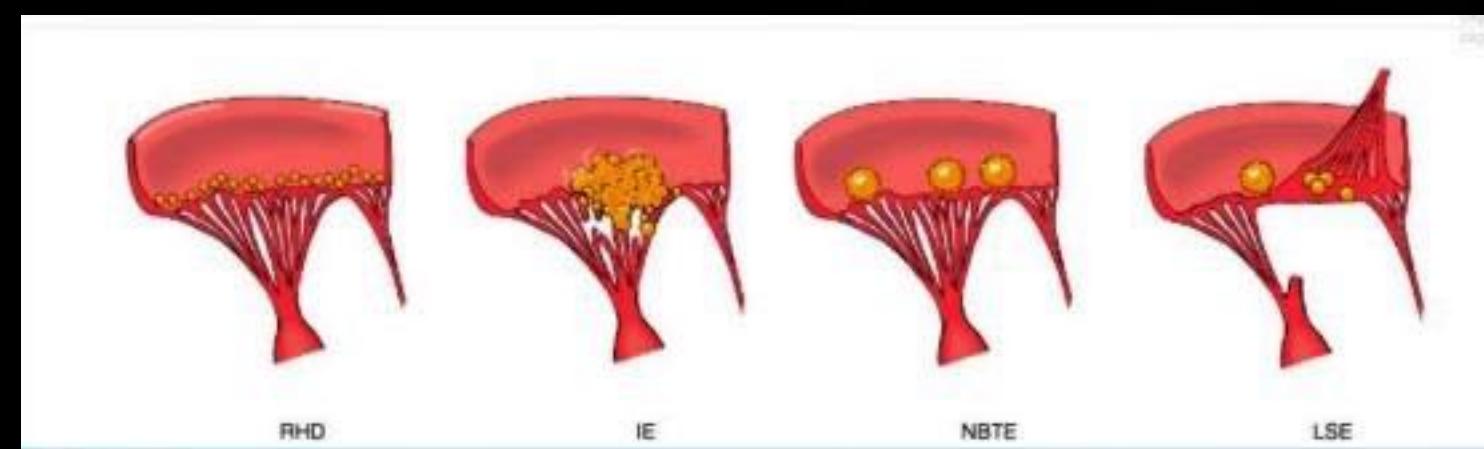
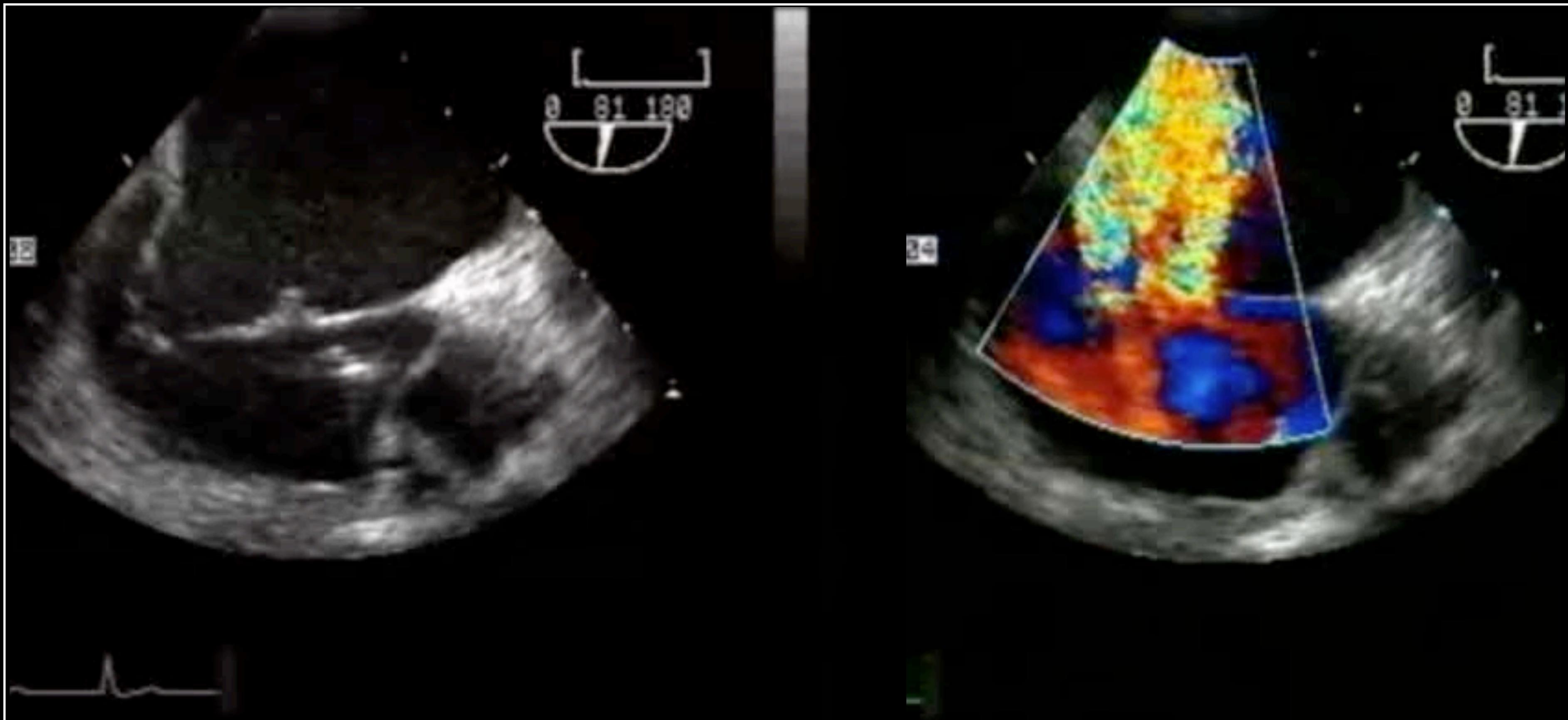
Hypertrophic cardiomyopathy



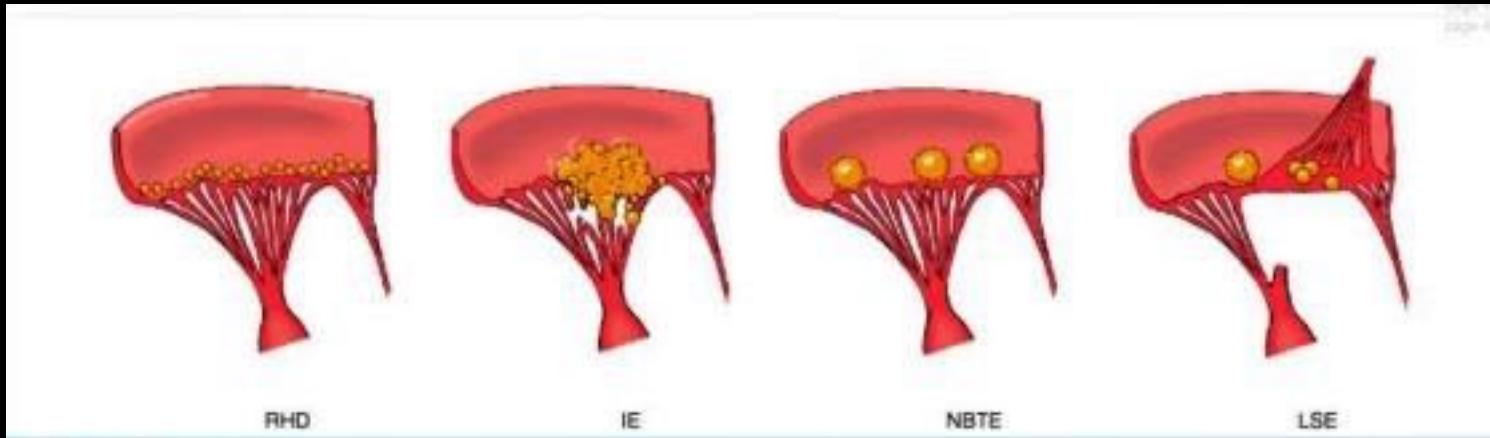
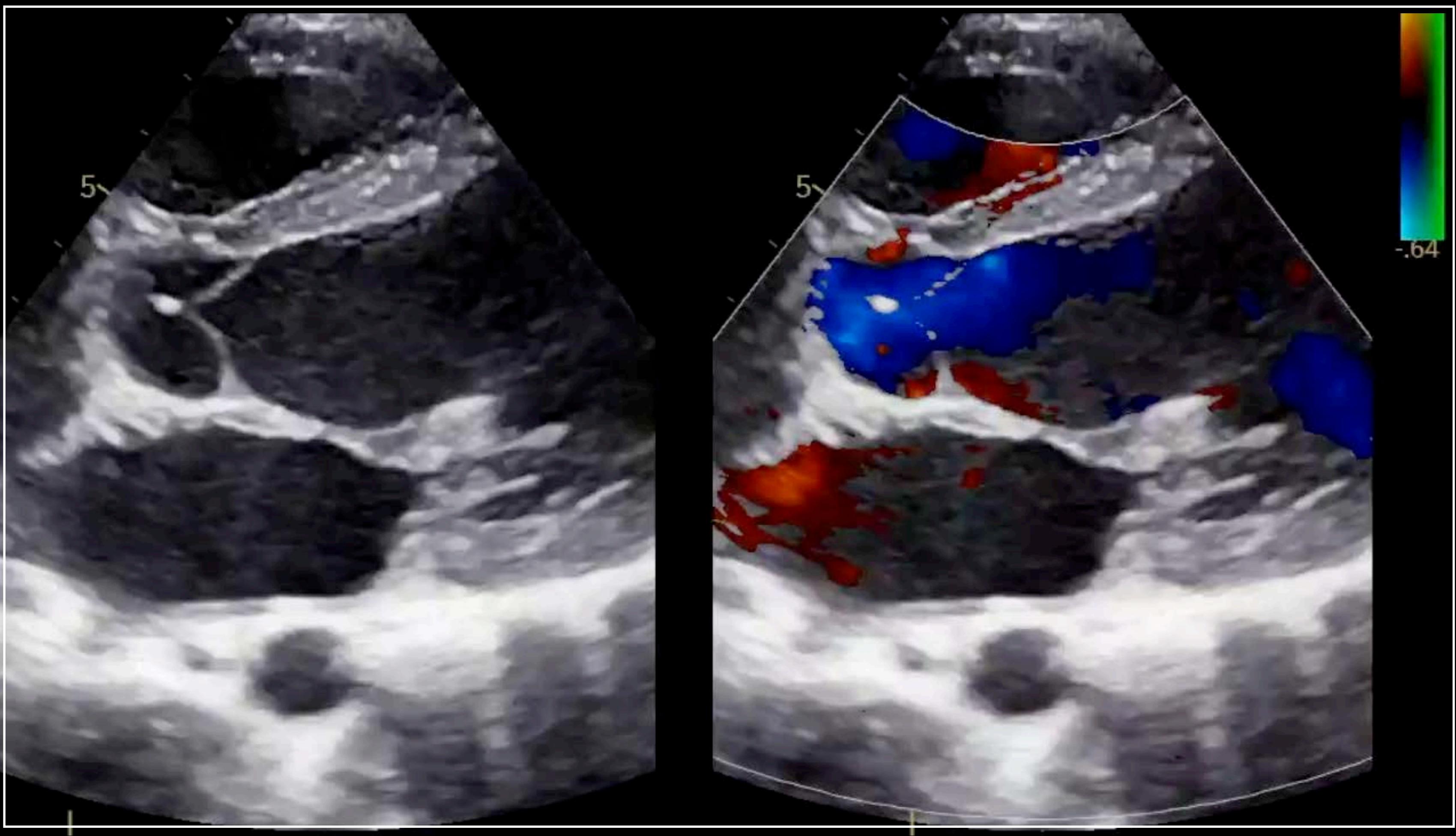
Mitral valve endocarditis



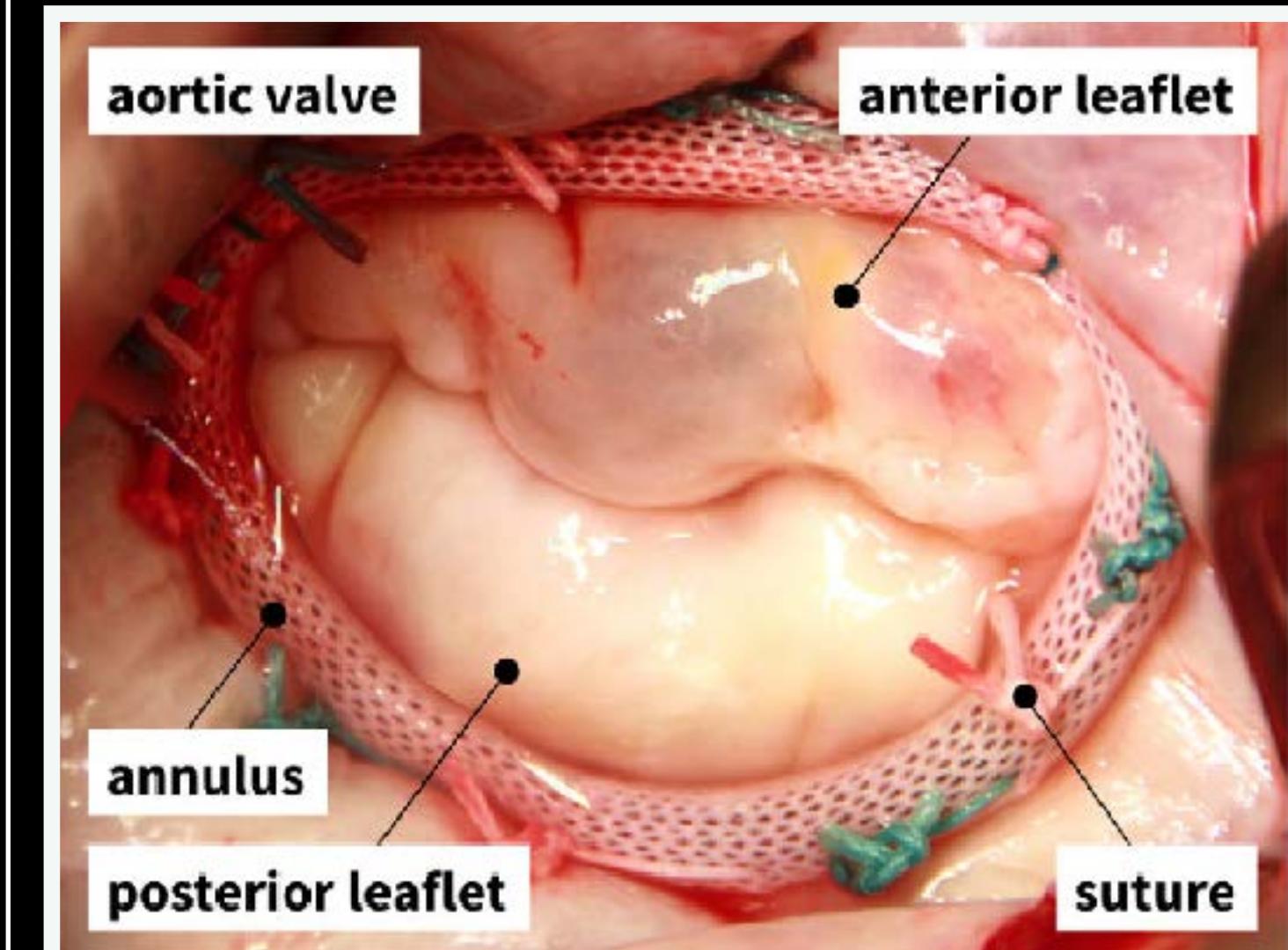
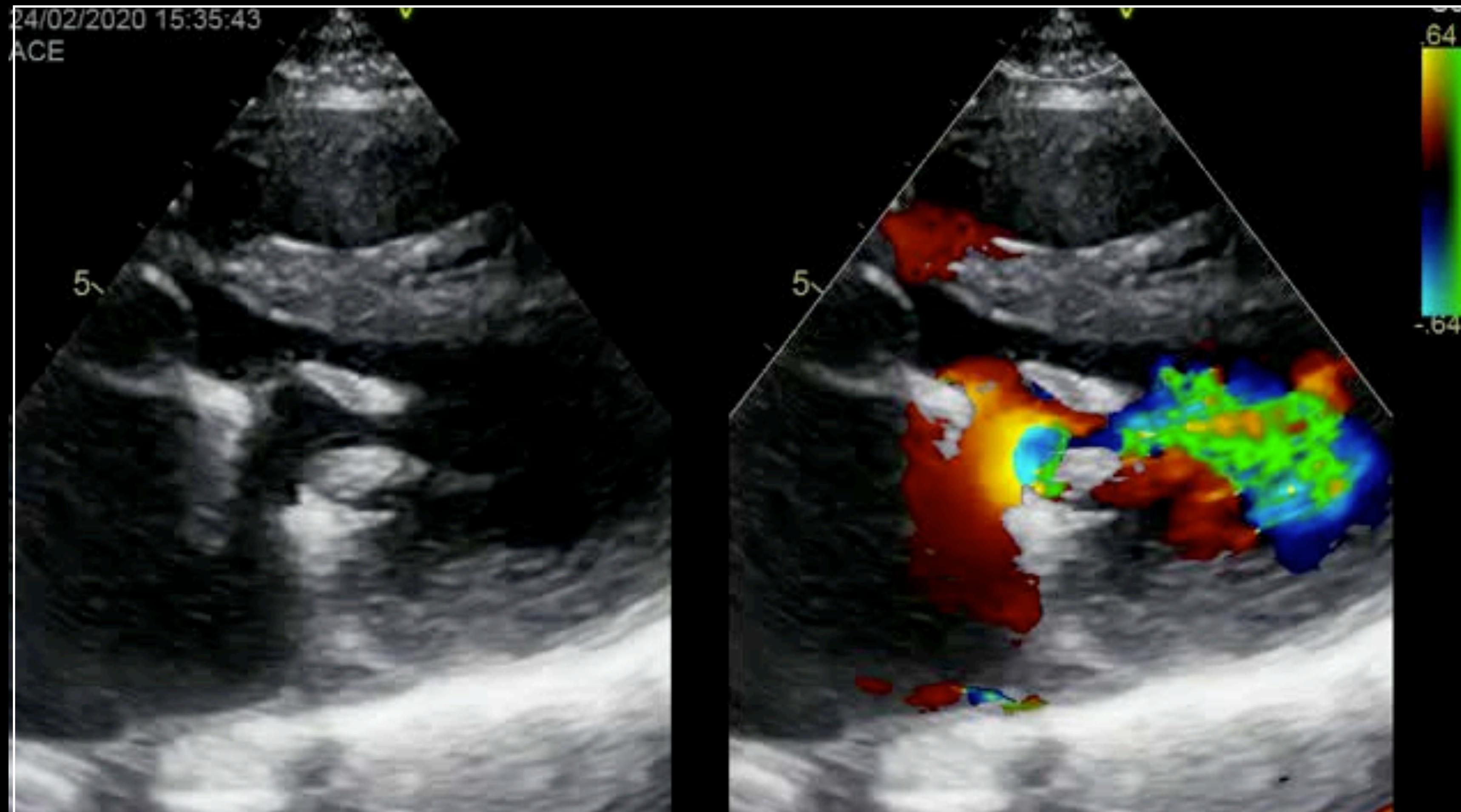
Mitral valve endocarditis



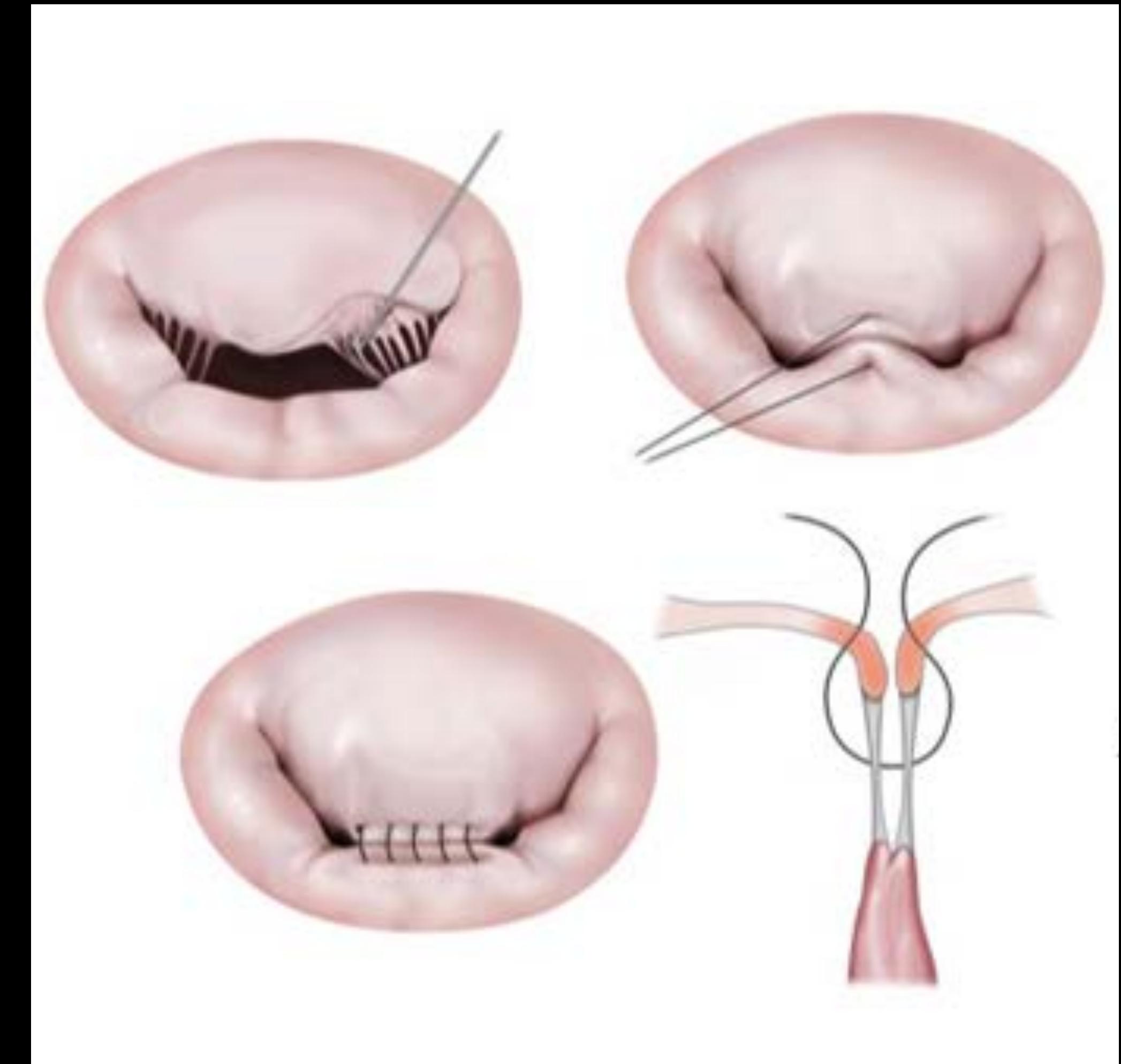
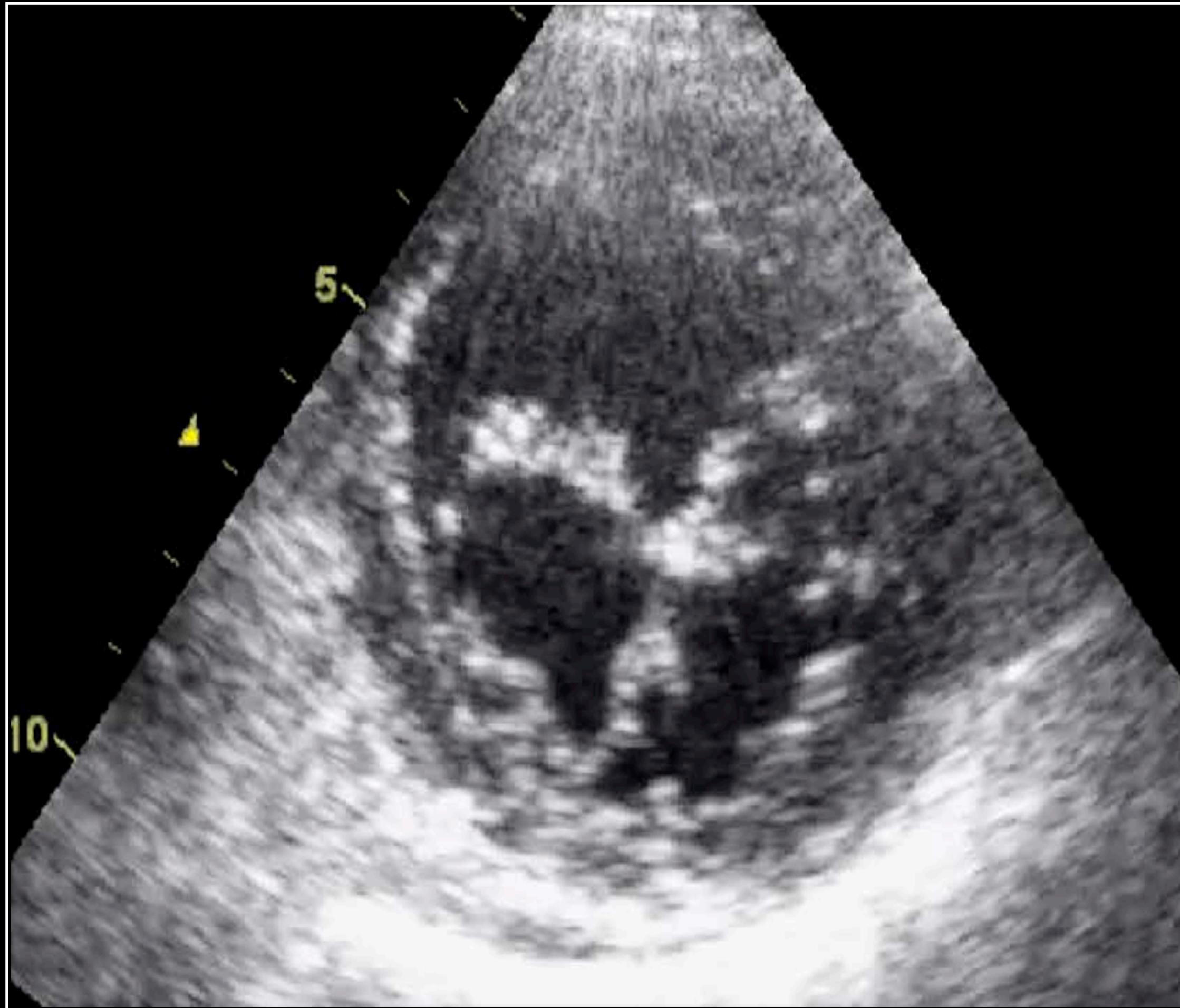
Rhumatism



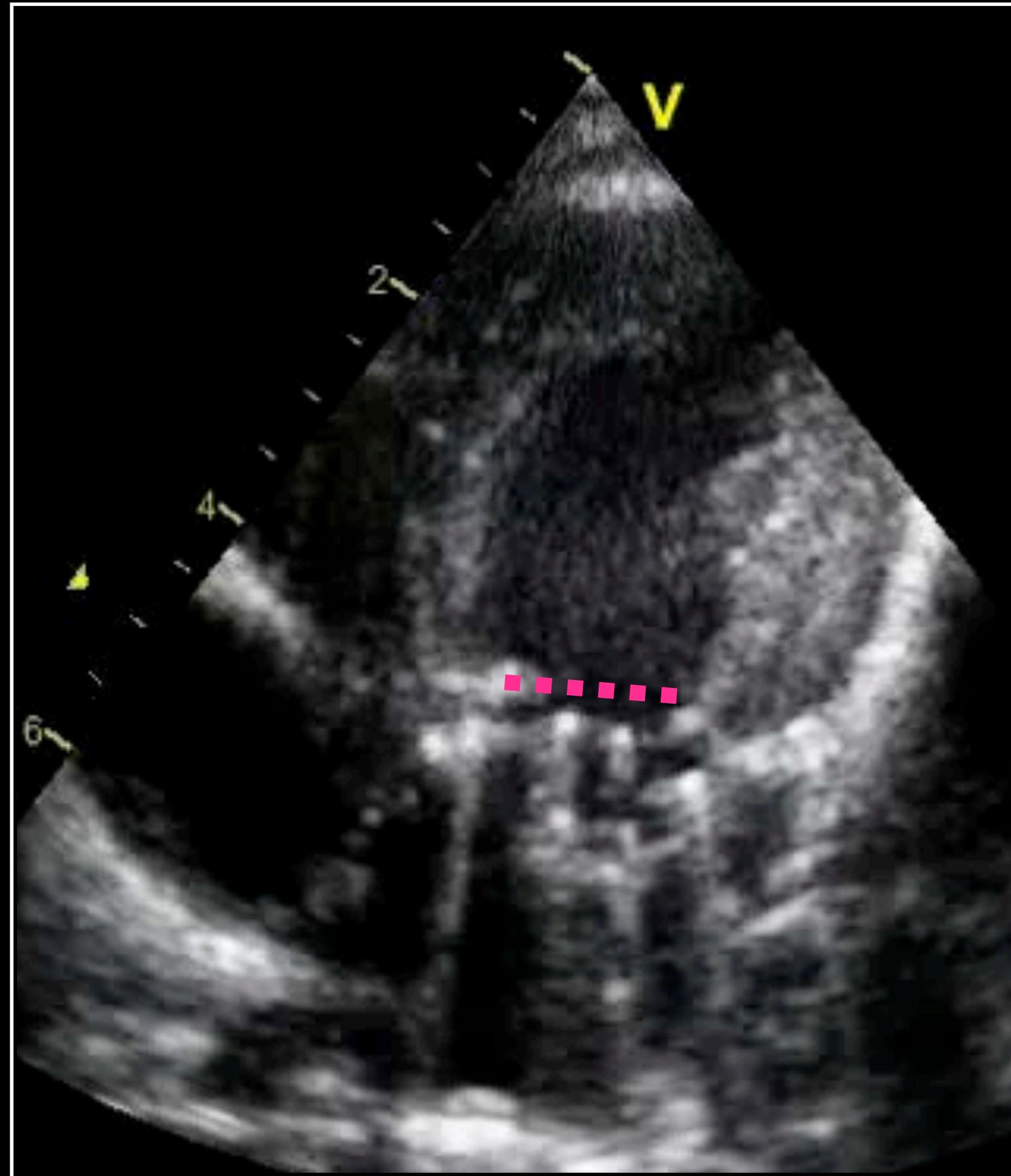
Mitral ring



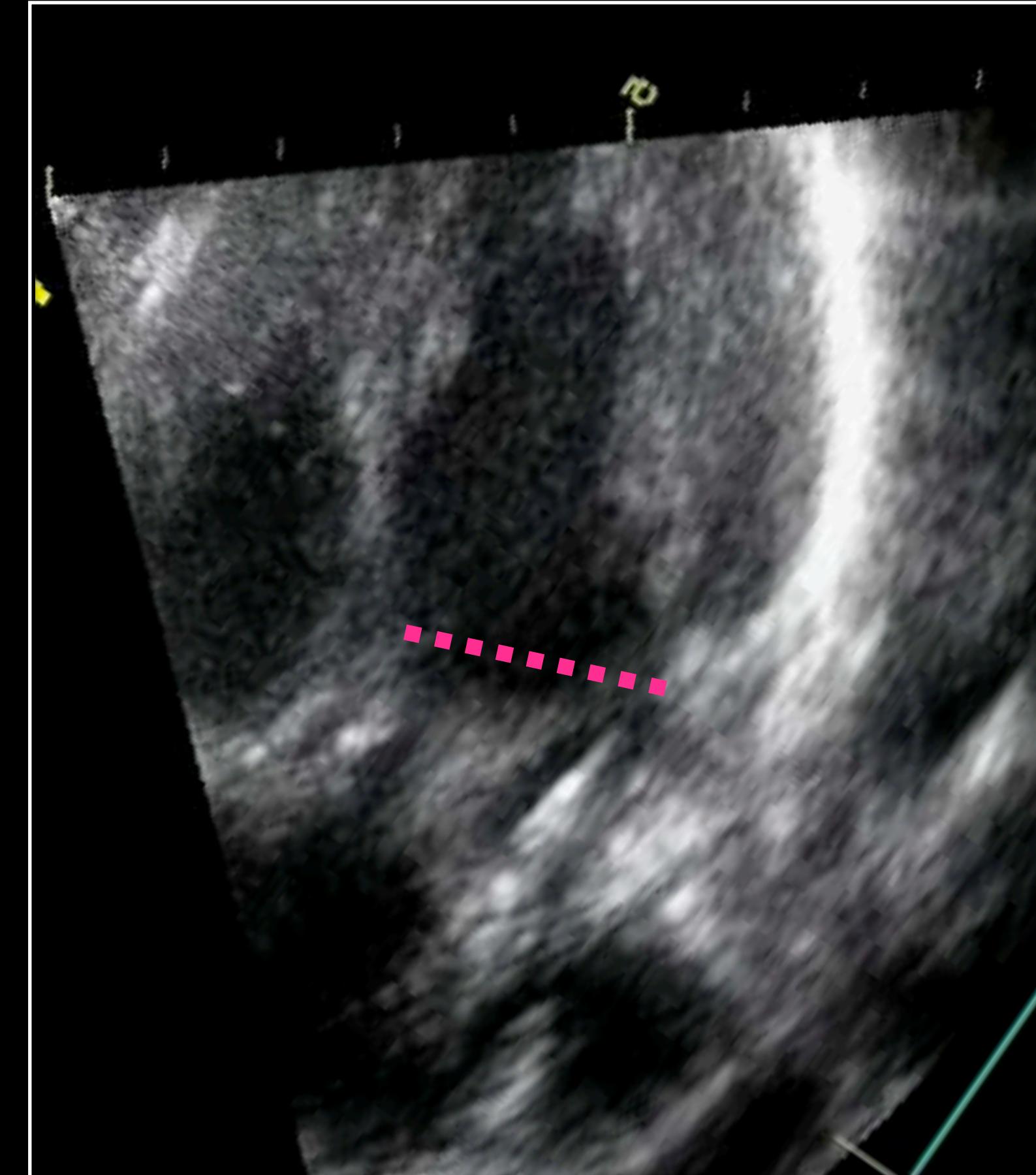
Alfieri repair



Mitral prothesis



In left atrium



In left atrium



CPC
Cardiomyopathies
Paris
Centre



Collective ignorance is our motivation
Curiosity is our strength
Research is our path

Individual experience is the brake
Indifference is the weakness
Argument from authority is the threat