



ECHO PRE-SCREENING GUIDE

When heart teams* consider conventional surgery or TEER not indicated in patients with primary or secondary MR, TMVR therapy is the preferred option if the patient is deemed clinically and anatomically suitable.¹

1. STANDARD TTE²

- Parasternal long and short axis

Assess:

- Ventricular dimensions: LVESD: >3 cm or LVEDD: ≤7cm
- EF ≥ 30%
- Length of AML < 25mm and distance AML - Septum > 6mm, to avoid SAM
- Anterior-Posterior (AP) dimension: 25-42mm

2. STANDARD TEE²

Views with and without color:

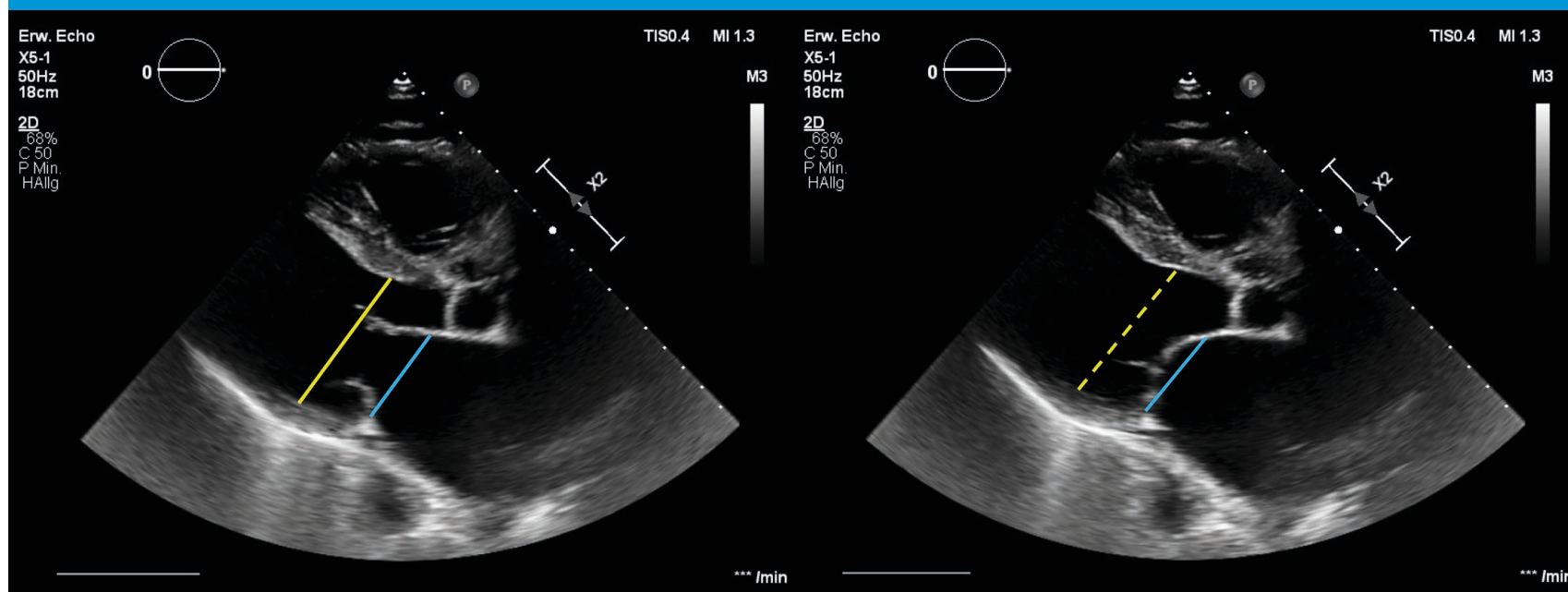
Mid- Esophageal:

- 2 chamber view
- PLAX view (3 chamber view)
- X-plane (IC/3CH)
- Mitral 3D Enface

SAX:

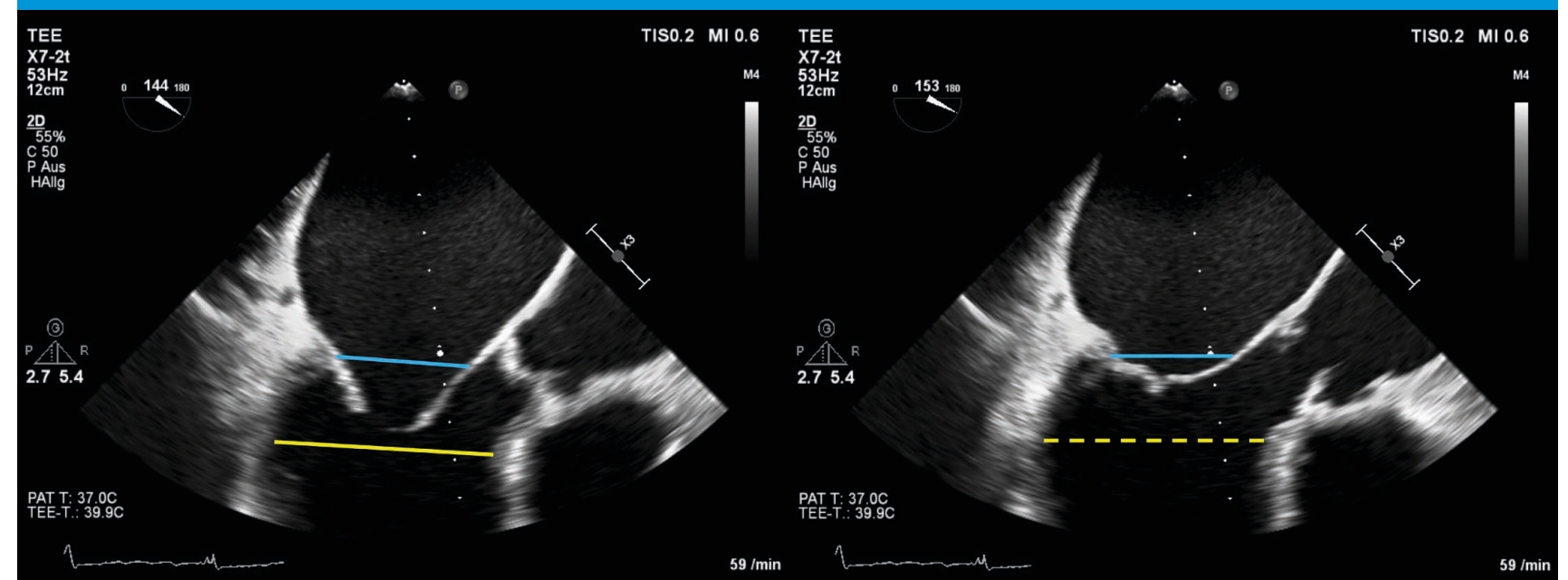
- Mitral valve SAX

Figure 1: Parasternal Long Axis



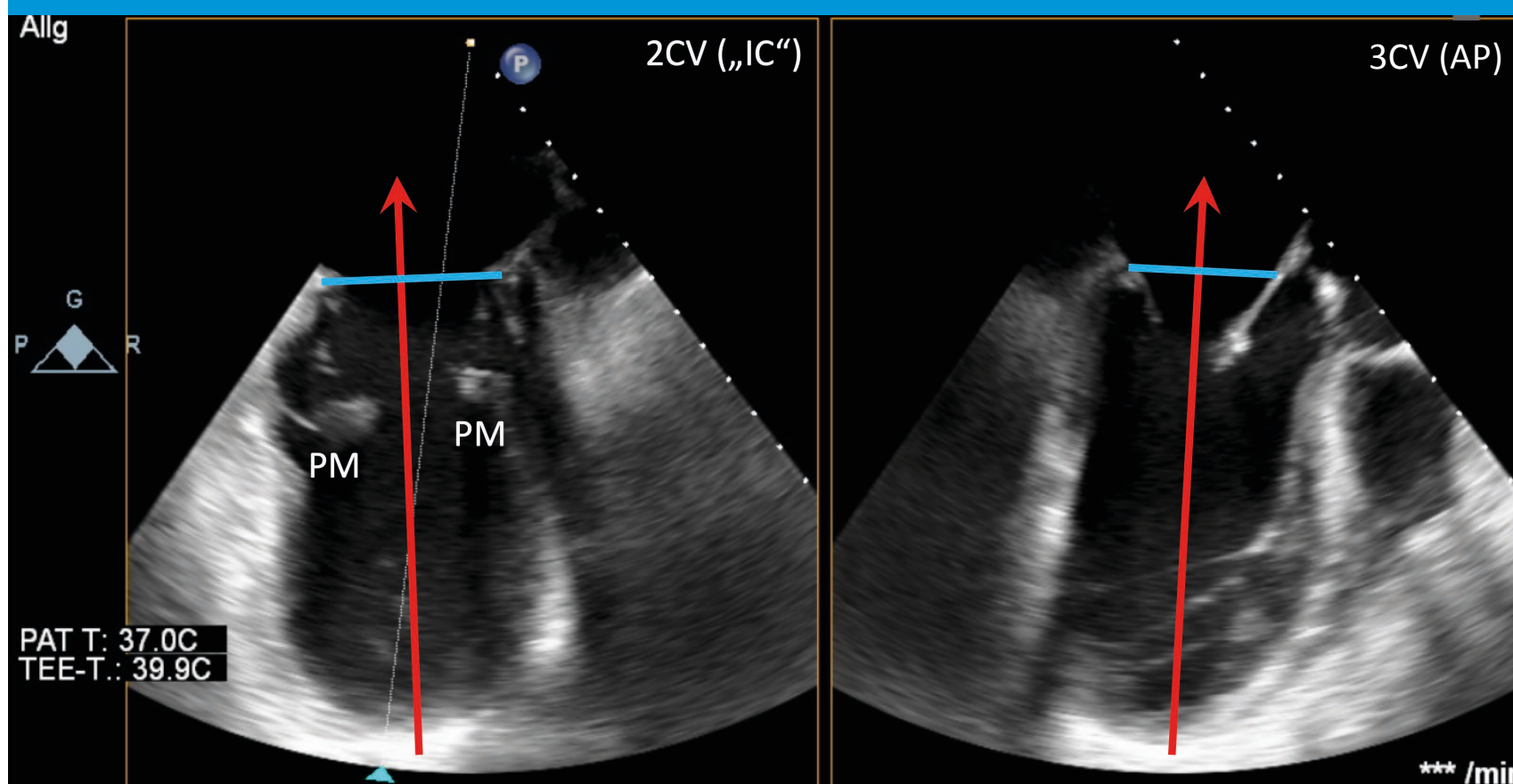
Blue Line - Anterior-Posterior (AP): Annular dimension posterior annulus to trigone (AML hinge point) - see figure 5
 Yellow Solid Line: LVEDD
 Yellow Dotted Line: LVESD
 Distance between blue and yellow lines between 1.5-2cm

Figure 2: 3 Chamber View



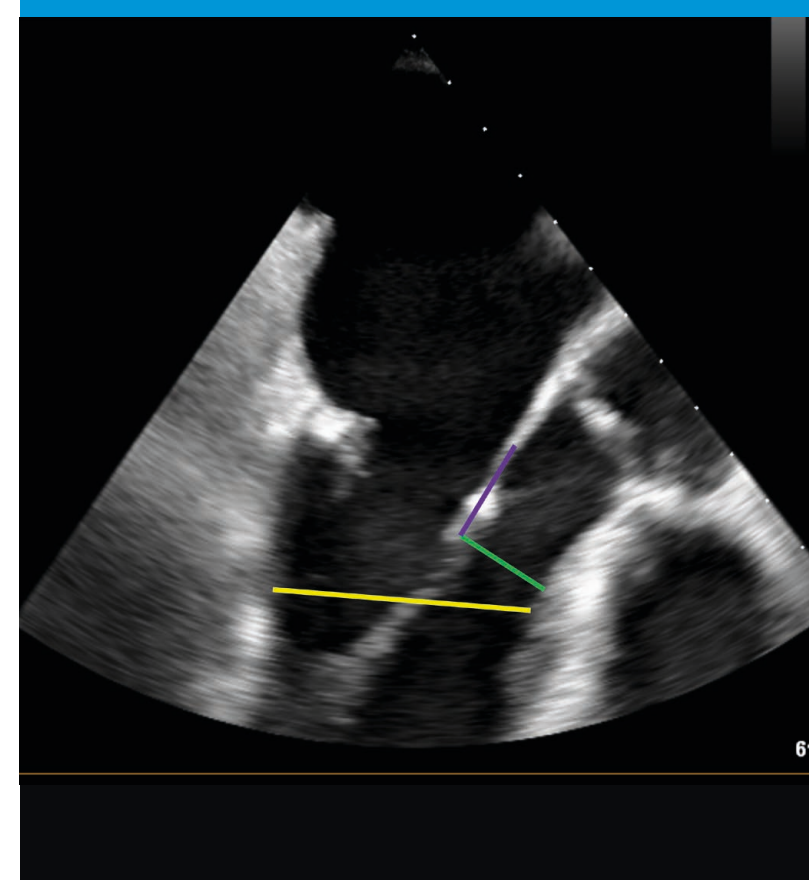
Blue Line - Anterior-Posterior (AP): Annular dimension posterior annulus to trigone (AML hinge point) - see figure 5
 Yellow Solid Line: LVEDD
 Yellow Dotted Line: LVESD
 Distance between blue and yellow lines between 1.5-2cm

Figure 3: Biplane with papillary muscle



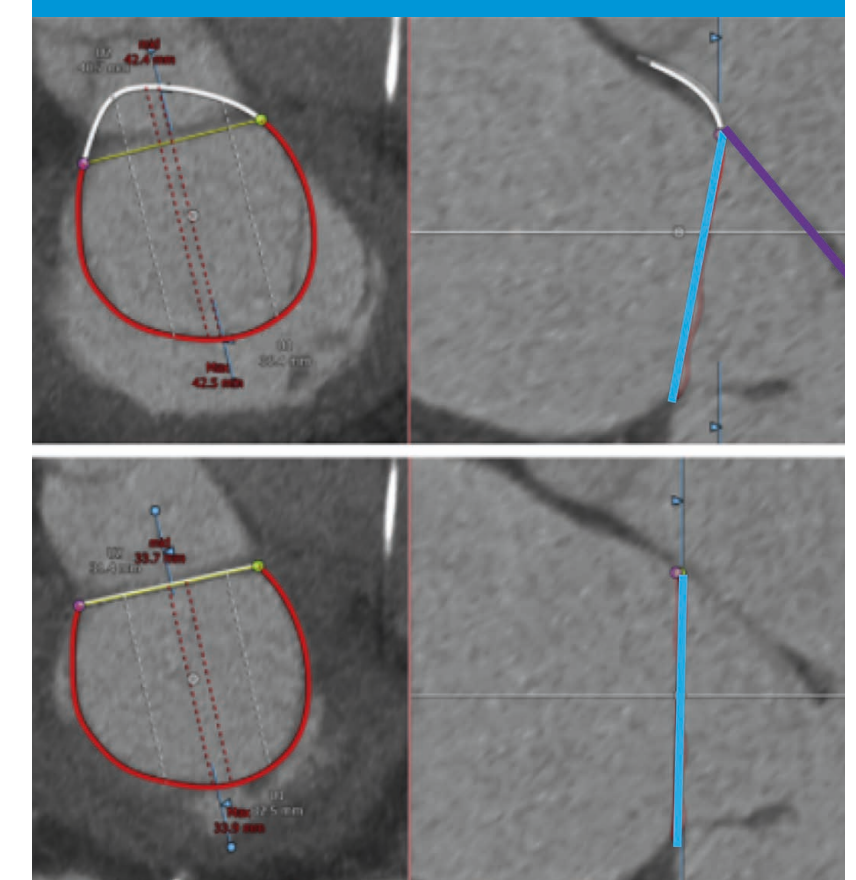
Red Arrow: Trajectory of Intervention
 PM: Papillary Muscle
 Blue Line: Annular dimensions inter-commissural (IC, left) and anterior-posterior (AP, right)

Figure 4: Distance AML – Septum



Green Line: AML to septum shortest distance (independent of cardiac phase)
 Yellow Solid Line: LVEDD in diastole
 Purple Line: Leaflet length from hinge point to leaflet tip - see figure 5

Figure 5: CT reference example³



Blue Line: Annular Dimensions
 Purple Line: Leaflet length from hinge point to leaflet tip

ACCEPTABLE RANGES¹

Using standard annular segmentation method:

Anterior-Posterior (AP) dimension: 25 to 42 mm
 Inter-Commissural (IC) dimension: 35 to 48 mm

Entire perimeter: 100 to 145 mm

→ MOVE TO CT IF POTENTIAL TENDYNE™ PATIENT

* For patients with severe MR

1. TENDYNE™ Mitral Valve System IFU

2. Hahn R, et al. Guidelines for Performing a Comprehensive Transesophageal Echocardiographic Examination: Recommendations from the American Society of Echocardiography and the Society of Cardiovascular Anesthesiologists. J Am Soc Echocardiogr 2013;26:921-64.

3. Blanke P, et al. A simplified D-shaped model of the mitral annulus to facilitate CT-based sizing before transcatheter mitral valve implantation. J Cardiovasc Comput Tomogr. 2014 Nov-Dec; 8(6): 459-467.

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