3D TEE Assessment Guide
Only measurements not included in the 2D protocols are indicated under MPR below. High volume rate (HVR) may be used instead of 3D gated acquisition. Target frame rates are for the 3D image. CFD images will have much lower rates.

Structure	Suggested Starting Point	Assessment	Optimal 3D Acquisition Modes	Frame rate	Include	2° acquisitions	Analysis
2	ME4C, MELAX, ME2C	Systolic function	Gated 4-6 Full	> 10 Hz > 20 Hz → a3DQ		Cropped ME4C, ME2C	3D LVEF (QLAB 3DQ, a3DQ, TomTec)
RV	ME4C	Systolic function	Gated 4-6 Full	> 10 Hz (> 20 Hz ideal)	Λ	Cropped ME4C	3D RVEF (Tomtec)
		Screening	Live Zoom	> 10 Hz		En Face, PM comm.	MPR
MΛ	MELAX, ME4C	MR	+CFD Gated 4-6 Zoom / Full	> 20 Hz	AV, LVOT	En face, AL comm., PM comm., Ventricular	MPR: 2D valve measures + VC area on CFD
		MS	Gated 4-6 Zoom / Full	> 10 Hz		En Face, Cropped ME4C	MPR: Valve area planimetry
		Screening	Live Zoom	> 10 Hz			
AV	MELAX	Al	+CFD Gated 4-6 Zoom / Full	> 20 Hz	LVOT to prox Asc. Ao		MPR: VC area on CFD
		AS	Gated 4-6 Zoom / Full	> 10 Hz			MPR: Valve area planimetry
À	C V	Screening	Live Zoom	> 10 Hz	Part of AV for		
2	ME4C	TR	+CFD Gated 4-6 Zoom / Full	> 10 Hz (> 20 Hz ideal)	orientation		MPR: VC area on CFD (difficult)
841	C G J W	ASD/PFO	+CFD Gated 4-6 Zoom / Full	> 10 Hz	Part of SVC and		MPR: ASD dimensions, ASD rim
<u> </u>		Trans-sept. punct. guidance	Live Zoom / X-plane (Multi-D)	> 10 Hz	orientation		
-	CEM	Screening / thrombus	Live Zoom / X-plane (Multi-D)	> 10 Hz (> 20 Hz ideal)	Part of MV &		
Š	NEZO.	Closure Device	Gated 4-6 Zoom / Full	> 5 Hz	orientation		MPR: LAA dimensions
Desc. Aorta	DAoSax	Plaque, Dissection	+CFD X-plane (Multi-D) Live Zoom large plaques	> 5 Hz		LAX/SAX high risk lesions	MPR: measure large lesions