

Table 2. Minimum dataset and additional data comprising the standard adult TTE study. *The table summarizes the minimum and additional data comprising the standard adult TTE stud by view, modality, structure, measurements, and derived calculations. Additional data are annotated with [A]. Views and measurements not supported unanimously are given in italics.* CFM = color flow mapping; PW = pulsed wave Doppler; CW = continuous wave Doppler; LV = left ventricle; RV = right ventricle; LA = left atrium; RA = right atrium; Las = LA in systole; LVIDd/s left ventricular internal diameter in diastole and systole; LVSD/s left ventricular septal width in diastole and systole; LVPWd/s left ventricular posterior wall width in diastole and systole; MV = mitral valve; MR = mitral regurgitation; MS = mitral stenosis; LVOT = left ventricular outflow tract; AR = aortic regurgitation; AS = aortic stenosis; VSD = ventricular septal defect; IVC = inferior vena cava; SVC = superior vena cava; TV = tricuspid valve; TR = tricuspid regurgitation; Vmax, V mean = maximum and mean velocities; VTI = velocity-time integral; Pmax, P mean = maximum and mean pressure gradient; RVOT = right ventricular outflow tract; PV = pulmonary valve; PR = pulmonary regurgitation; PS = pulmonary stenosis; PA = pulmonary artery; PAPs,d = pulmonary artery pressure, systolic/diastolic; AV = aortic valve; RUPV = right upper pulmonary vein; PDA = pervium doctus arteriosum; PHT pressure half-time; DET deceleration time; IVRT = isovolumic relaxation time; RVd right ventricular cavity diameter in diastole; MVA = mitral valve area; IVS = inter-ventricular septum; SAX = short axis; Ch = chamber.

View	Modality	Structures Assessed	Measure	Calculate
Parasternal LAX	2D	LV cavity size, wall thickness, function RV cavity size and function LA size Aortic root & valve – appearance & function	LVIDd/s, LVSD/s, LVPWd/s LAs annulus, root, sinuses, sino-tubular junction, ascending .aorta	FS
	M mode	LV cavity size, wall thickness	LVIDd/s, LVSD/s, LVPWd/s	FS

	CFM	RV cavity size MV AV/aortic root/LA size	RV(d) ± End Systolic separation LAs, cusp separation, root	LA:Ao ratio [A]
		MV inflow / MR LVOT / AR VSD	AR width	AR:LVOT ratio [A]
RV inflow [A]	2D	RV cavity size and function RA, IVC, SVC, ± coronary sinus TV – appearance and function		
	CFM	TV inflow, TR		
	CW	TR	Vmax	PA pressure
RV outflow	2D	RVOT, PV, main PA	PV annulus	
	CFM	RVOT, PS, PR, PA		
	PW	RVOT	Vmax, Vmean, VTI	
	CW	PS PR	Vmax, Vmean Vmax PRed	Pmax, Pmean PAPd
Parasternal SAX (basal)	2D	LA atrial septum RA TV – appearance and function RV cavity size and function PV, PA main, right AV – appearance and function		
	CFM	SVC, RUPV, atrial septum [A] TV inflow, TR [A]		

		RVOT, PS, PR, PA (PDA) [A]	Vmax, Vmean, VTI	
	PW	RVOT [A]	Vmax	PAPs
	CW	TR [A] PS [A] PR [A]	Vmax, Vmean Vmax PRed	Pmean, Pmax PAPd
Parasternal SAX (MV)	2D	LV size, wall thickness, function (basal segments) RV cavity size and function MV – appearance and function	MVA planimetry [A]	
	CFM	MV inflow, MR [A] (VSD)		
Parasternal SAX (cords)	2D	LV size, wall thickness, function (mid segments)		
	CFM	(VSD)		
Parasternal SAX (apex)	2D	LV size, wall thickness, function (apical segment)		
	CFM	(VSD)		
Apical 4Ch	2D	LV cavity size, wall thickness, function (IVS, lateral wall) RV cavity size and function LA size RA size MV – appearance and function TV – appearance and function	Area or volume [A] Area or volume [A]	LA vol index[A] RA vol index[A]
	CFM	MV inflow, MR TV inflow, TR		
	PW	LV inflow (MV tips)	E, E DET,A IVRT [A]	E/A ratio
	CW	MS	Vmax, Vmean [A]	Pmax, Pmean PHT [A] MVA

		MR TS TR	Vmax, Vmean [A] Vmax	Pmax, Pmean PAPs
Apical 5Ch	2D	LV cavity size, wall thickness, function [A] LVOT, AV – appearance and function		
	CFM	LVOT, AV		
	PW	LVOT	VTI [A] Vmax, Vmean [A]	SV, CO Pmax, Pmean
	CW	AS AR	Vmax, Vmean [A] AR DET [A]	Pmax, Pmean
Apical 2Ch	2D	LV cavity size, wall thickness, function (anterior, inferior wall) & appearance		
Apical LAX	2D	LV cavity size, wall thickness, function (IVS, posterior wall) & appearance LVOT, AV – appearance and function		
Subcostal 4Ch	2D CFM	4 chamber structures Atrial septum 4 chamber structures		

Subcostal SAX	2D	SAX structures Atrial septum IVC, Hepatic Veins (modified view) Descending Aorta (modified view)		
	M-mode	IVC	Diameter, Respiratory variation	IVC distens. index
	CFM	SAX structures Atrial septum IVC , Hepatic. Veins Descending. Aorta		
	PW	Hepatic Veins Descending. Aorta		
Supra-sternal	2D	Arch		
	CFM	Arch, coarctation, PDA		
	PW	Descending. Aorta	Flow reversal	
	CW	Ascending Aorta (AS) Descending. Aorta (coarctation)	Vmax, Vmean [A] Vmax, Vmean [A]	Pmax, Pmean Pmax, Pmean