1	SEPTAL DEFECTS Michelle Wilson Ed.D, RDMS, RDCS
2	Types of Defects □Atrial □Atrioventricular
	□Ventricular
3	Atrial Septal Defects (ASD) □Secundum defects □Primum defects □Sinus venosus □Coronary sinus
4	Atrial Septal Defects Sonographic Findings □May be difficult to visualize □Four Chamber view □Foramen Ovale □Use a perpendicular approach to best visualize the septum □Color flow □Can be difficult because of the normal foramen ovale □M-mode can also be a reliable documenting tool
5	Atrioventricular Septal Defects (AVSD)
	□Interatrial septum □Interventricular septum □Atrioventricular Valves □Mitral □Tricuspid □Endocardial cushions of the heart fail to fuse
6	Atrioventricular Septal Defects
	□Complete □Large septal defect (atrial and ventricular) □Common atrioventricular valve □Partial □AV valves separate □Cleft of leaflets often present □Septal defects noted (atrial and ventricular) □Intermediate □Least common □Similar to complete AVSD findings □CAV valve stuck to ventricular septum □
7	Atrioventricular Septal Defects Sonographic Findings □Four Chamber View
	LI OUI CHAITIDEL VIEW

LIShort Axis Plane
□Color Doppler
□M-mode
8 Ventricular Septal Defects (VSD)
□Membranous
■Towards base of heart
□Muscular
■Inlet
■AVSD
■Most common
■Outlet
■Superior portion of muscular IVS
□Trabecular
■Mid portion of septum
9 Ventricular Septal Defects
Sonographic Findings
□4chamber
■Perpendicular
□Long Axis of LVOT
□Long Axis of RVOT
☐Short Axis
■Sweep from apex to base
10 Summary
□Atrial Septal Defect
□Atrioventricular Septal Defects
□Ventricular Septal Defects
□Imaging Planes
■Multiple orthogonal planes
■Gray scale imaging
■Color Doppler
■Pulsed Wave Doppler
■M-Mode