

FETAL CIRCULATION

bypasses the pulmonary circuit

FORAMEN OVALE (interatrial opening) *connects the right and left atria*
[fossa ovalis in adults]

DUCTUS ARTERIOSUS *connects the pulmonary & aortic trunks*
[ligamentum arteriosum in adults]

Congenital defects

Foramen ovale remains open [left-to-right shunt]

left ventricle must work harder: *pulmonary hypertension,*
pulmonary edema & cardiac enlargement

Ductus arteriosus remains open [right-to-left shunt] *cyanosis*

Ventricular septal defects (most common) same symptoms as patient FO

Tetralogy of Fallot

1] narrow pulmonary trunk 2] incomplete interventricular septum

3] aorta over interventricular septum 4] enlarged right ventricle

Transposition of great vessels

Atrioventricular septal defect (common in *Downs syndrome*)