

## **Dextro-Transposition of the Great Arteries (D-TGA)**

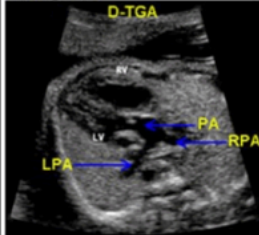
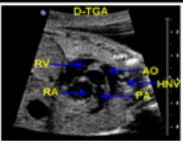

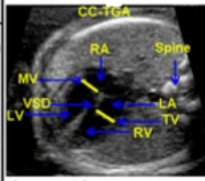
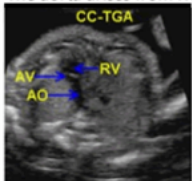


## Transposition of the great arteries (TOGA)

**Dextro-TOGA, 4CV:** normal; **LVOT:** PA arises from left ventricle and branches; **RVOT:** parallel arrangement of great vessels; **3-VT:** large ascending aorta, and SVC.

**CC-TOGA, 4-CV:** right ventricle is on the left; **LVOT:** PA arises from the LV and branches; **RVOT:** aorta arises from the RV

**CC-TOGA:** the ventricles exchange places; the right is on the left side and the left is on the right side. The PA arises from the transposed LV and the aorta arises from the transposed RV.

Defect	4 Chamber	LVOT	RVOT	3-VT
Dextro-transposition of the great arteries (D-TGA): Associated with: cardiac, extra-cardiac and karyo-type abnormalities	4-CV commonly normal; the LV and RV are in their normal anatomic positions	Pulmonary artery (PA) arises from left ventricle (LV) & branches; Aorta arises from the right ventricle (RV) 	 Parallel orientation of aorta and pulmonary artery in oblique plane right to left of the fetus AO anterior vessel with HNV (head and neck vessels).	Large vessel, the transverse ascending aorta (AA), with SVC to right 
Congenitally corrected (CC-TGA): Associated with other cardiac abnormalities	The RV is on the left side*  *the ventricles are transposed	The PA arises from the LV and branches; the aorta and the pulmonary artery are in parallel orientation on longitudinal view	The aorta arises from RV 	Vessel size is variable depending upon associated defects

RV=right ventricle, LV=left ventricle, LPA=left pulmonary, RPA=right pulmonary artery, SVC=superior vena cava, RA=right atrium, MV=mitral valve, VSD=ventricular-septal defect, TV=tricuspid valve, MV=mitral valve; LA=left atrium; AO=aorta, AV=aortic valve

The PA is identified by its branching and always arises from the LV whether or not the ventricles are transposed.

Note: The summary above includes both D-TGA and CC-TGA. Information about **CC-TGA** is given in a separate chapter.