Table 2

Heart sounds and murmurs in common congenital heart diseases

Disease	Heart sound	Murmur
Tetralogy of Fallot	Single S2	Long, loud, ejection systolic murmur, best heard over the right ventricular outflow tract
Transposition of the great arteries	Loud single S2	No audible murmur
Ventricular septal defect	Normally split S2	Grade 2 to 5/6, harsh systolic murmur, best heard over the lower left sternal border
Atrial septal defect	Widely split S2	Grade 2-3, soft ejection systolic murmur, best heard at the upper left sternal border
Patent ductus arteriosus	S1 normal, S2 often obscured by the murmur	Grade 1 to 4/6, continuous murmur, best heard at left infraclavicular area or upper left sternal border
Bicuspid aortic valve	Ejection systolic click. S1 normal, S2 splitting absent or paradoxically split	Harsh ejection systolic murmur radiating to carotids, best heard over upper right sternal border