

Double-Outlet Left Ventricle with L-Malposition of the Great Arteries and Subpulmonary Ventricular Septal Defect

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In a recent issue of your journal we read the interesting report on an infant with “Double-outlet left ventricle with L-malposition of the great arteries and subpulmonary ventricular septal defect” [6].

The authors suggested that “this anatomic variation has not been described to date in patients with a double outlet left ventricle”, this may be indeed a rare finding, however, it has been reported in the literature in at least three occasions in children with double outlet left ventricle [2–4].

In subjects with double outlet left ventricle the L-position of the aorta (i.e. the aorta anterior and left sided) is a well known anatomic pattern in which the ventricular septal defect is usually in subaortic position [1, 5]. However in some rare cases of double outlet left ventricle, the L-position of the aorta can be associated with a subpulmonary ventricular septal defect as clearly showed by two-dimensional echocardiography in the present paper [6] and in the previous reports since 1992 [2, 3].

References

1. Bharati S, Lev M, Stewart R, McAllister HA Jr, Kirklin JW (1978) The morphologic spectrum of double outlet left ventricle and its surgical significance. *Circulation* 58(3 Pt 1):558–565
2. Kiliç A, Saraçlar M, Ozkutlu S (1999) Double outlet left ventricle with subpulmonary ventricular septal defect and pulmonary hypertension. *Cardiol Young* 9(6):624–626
3. Marino B, Bevilacqua M (1992) Double-outlet left ventricle: two-dimensional echocardiographic diagnosis. *Am Heart J* 123(4 Pt 1):1075–1077
4. Pacifico AD, Kirklin JW, Barger LM Jr, Soto B (1973) Surgical treatment of double-outlet left ventricle. Report of four cases. *Circulation* 48(1 Suppl):III19–III23
5. Van Praagh R, Weinberg P, Srebro JP (1989) Double-outlet left ventricle. In: Adams F, Emmanouilides G, Riemenschneider J (eds) *Moss' heart disease in infants, children, and adolescents*, 4th edn. Williams & Wilkins, Baltimore, pp 461–485
6. Vukomanovic V, Prijic S, Bjelakovic B (2013) Double-outlet left ventricle with L-malposition of the great arteries and subpulmonary ventricular septal defect. *Pediatr Cardiol* 34:476–477

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