Aortopulmonary septal defect/window (APW) is a rare cardiac anomaly that results from abnormal communication between the aorta and the pulmonary artery in the presence of two normally separated aortic and pulmonary valves.

**Case report:**
We report an early prenatal diagnosis of APW (type A) and tubular hypoplasia of the aortic arch at 15 weeks' gestation following observation of abnormal nuchal translucency. No other anomalies were detected. CMA and karyotype were normal. Ventricular size and contraction were normal throughout pregnancy.

A male newborn was delivered at 41 weeks, weight 3680gr, Apgar score 9/9

Prostaglandin E1 was initiated after birth. At surgery, a tight coarctation and APW were repaired by pericardial patches and end to side anastomosis of the arch. The postoperative course was uneventful.

**Conclusion**
An early diagnosis of APW and hypoplasia of the aortic arch, a duct dependent lesion, is feasible and allows planning the optimal setting for delivery and postnatal care, thus improves the outcome and reduced mortality and morbidity such as congestive heart failure, pulmonary hypertension and neurological sequela.