**Case Report:** A 40-y-old woman was referred at 19 weeks of pregnancy for management of a foetal intra-thoracic mass. Foetal echocardiography revealed a fistula between the left subclavian artery and an extremely dilated left superior vena cava (LSVC) (1A), a large and tortuous ductus arteriosus (DA) and marked aortic isthmal hypoplasia (1B). Prenatal MRI confirmed the diagnosis. The baby was born at term. After postnatal echocardiographic confirmation, intravenous prostaglanids were started to maintain the DA patent. Cardiac catheterization was performed on day 6 of life from femoral arterial and venous accesses. Aortographies showed a very dilated proximal left subclavian artery, a short and restrictive fistula (3 mm) and a very dilated LSVC (1C); isthmal hypoplasia was confirmed but without significant peak-to-peak gradient (5 mmHg). The fistula was easily crossed retrogradely and closed with an Amplatzer® ADO II 4 x 4 mm device with no residual shunt on angiography (1D) and echocardiography.

**Legend:** Fig. 1 At the top: foetal echocardiography showing the fistula between left subclavian artery and LSVC (A), hypoplasia of aortic isthmus and the large ductus arteriosus (B); at the bottom: aortic angiography of the fistula before (C) and after (D) deployment of the device.

Prostaglandin infusion could be weaned. Clinical evolution was uneventful without significant blood pressure gradient. The baby was discharged 4 days after the procedure. Clinical follow-up at 2 months is favorable with only mild isthmal hypoplasia and obstruction, but no arterial hypertension.

**Conclusion:** Precise prenatal assessment of congenital arterio-venous fistulae involving systemic thoracic vessels is possible. It allows rapid postnatal treatment before development of congestive heart failure. Transcatheter occlusion is a safe and effective alternative to surgery. Aortic coarctation resulting from foetal diminished flow through the isthmus may be associated.

---