**Supplementary Material**

**Supplementary Figure S1**: Transesophageal echocardiography showing intact atrial septum with a septal length of 20mm (A). After transseptal puncture and static balloon dilation of the interatrial septum, an unrestrictive 5mm interatrial communication has been created, with sufficient distance (8mm) between its lower margin and the crux to attempt a 18/6 Atrial Flow Regulator implantation (B).

**Supplementary Figure S2**: Transesophageal echocardiography showing low-velocity, continuous left-to-right inter-atrial shunt through a 18/6 Atrial Flow Regulator.