INTERMEDIATE TERM FOLLOW UP ON THE RESULTS OF TRANSCATHETER CLOSURE OF DOUBLE COMMITTED SUBAORTIC VSD USING EITHER AMPLATZER DEVICE OR NIT OCCLUD LE COIL

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BACKGROUND
Transcatheter ventricular septal defect (VSD) is a challenging treatment for doubly committed subarterial (DCSA) VSD.

OBJECTIVE
To review intermediate term (3-5 years) results of transcatheter closure of DCSA VSD.

METHODS
We retrospectively reviewed transcatheter closure of DCSA VSD using Amplatzer® device or Nit Occlud® Le VSD Coil.

RESULTS
69/73 patients (94.5%) had closure with median age and weight of 12 years and 37kg. There were 43 devices and 26 coils. The median VSD size in the device group was 6.1±1.8 mm vs 4.6±1.2mm in coil, p<0.001. Trivial to mild AR were found in 34.9% of device group vs 36.5% in coil group with moderate AR of 14% vs 15.4% respectively, p=0.922. Complete closure was 87.5% in device group vs 84.5% in the coil group, p =0.415. At five years follow up trivial to mild AR were 46.9% in device group vs 48% in coil group with moderate AR of 3.1 % vs 0 %,p=0.772.

CONCLUSIONS
Device or coil can be used for transcatheter closure of DCSA VSD in DCSA. The degree AR appeared to be improved at five year follow-up with most of patients showing no or less than mild AR.