E-POSTER

SHORT-TERM OUTCOME OF TRANSCATHETER CLOSURE OF VENTRICULAR SEPTAL DEFECTS BY OCCLUTECH DEVICE

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Introduction

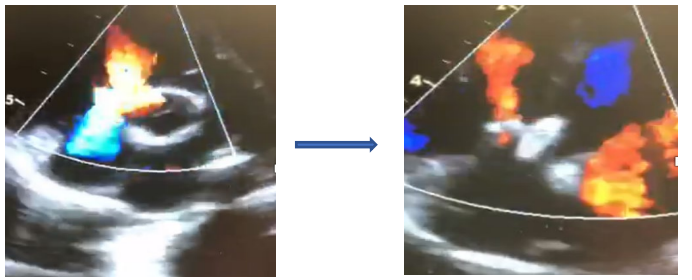
Transcatheter closure of ventricular septal defect (VSD) is an effective method alternative to surgical closure. The aim of the study is to evaluate the procedural result, early and short-term follow-up outcome of transcatheter closure of VSD by Occlutech device

Material & Method

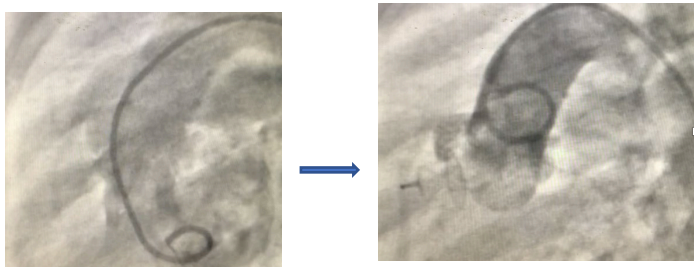
From January 2021 to June 2022, we retrospectively identified the patients who underwent transcatheter device closure of VSD. All patients underwent transthoracic echocardiography (TTE) and electrocardiogram (ECG) before and after the procedure. Follow-up evaluation was done at 1, 2, 6 and 12 months thereafter with TTE.

Results

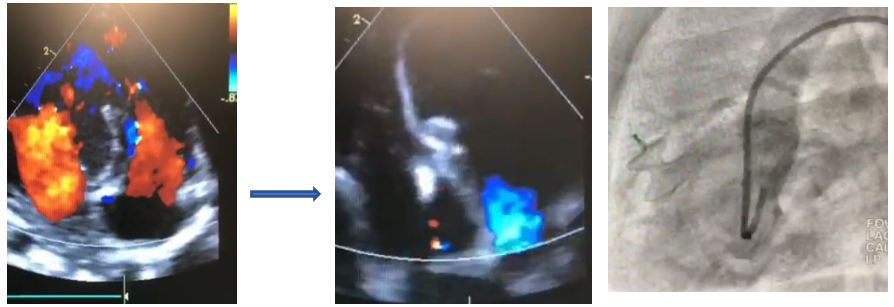
38 patients had of transcatheter VSD closure (2 outlet-type and 36 perimembranous VSD). Mean age 36.9 ± 38.6 months (range 8 ~ 168), mean weight: 13.1 ± 7.4 kg (range 5.9 ~ 40). Mean size of waist of the implanted device: 4 mm. Success rate = 97.4% (37 patients). 7 patients (18,4%) had trivial residual shunt, spontaneous closure after 2 months. One patient (2.6%) had transient bradycardia during procedure, due to delivery system. 3 patients (7.9%) had transient mild tricuspid regurgitation. No patient had significant heart block nor aortic valve regurgitation.



LV to RA shunt VSD



Sub aortic VSD



Muscular VSD

Conclusion

➢In our experience, the incidence of serious adverse event is extremely low and no late onset of complete heart block with excellent success rate and follow-up results, confirming the transcatheter closure of VSD by Occlutech VSD device is a valuable alternative to surgical closure in selected patients