

# USE OF OCCLUTECH MUSCULAR VSD OCCLUDER IN CONGENITAL CARDIAC DEFECTS

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## BACKGROUND

Occlutech Muscular VSD Occluder (OMVSDO) is the latest device introduced by Occlutech for the closure of Muscular VSD. It benefits the braided technology of the other devices of this company which gives a softer consistency to this device. We report our experience of using this device in our first 6 patients.

## METHODS

The patients' age ranged from 4-14 years and weight from 21-50 kilograms. Four patients had muscular VSD, and one a perimembranous VSD with pouch (two exit holes 8 and 3 mm, respectively). The remaining patient had a failed Glenn shunt in whom after positive balloon test occlusion, we decided to close the forward flow via pulmonary valve. OMVSDO of sizes 4, 6, 8, 10 (two devices), and 12 were used.

## RESULTS

In 3 patients with VSD and the one with forward flow closure, the procedures were completely successful. Forward flow closure eliminated the upper body edema and plethora of the patient. One patient with highly positioned muscular VSD developed complete heart block before device release. The device was retrieved and the block was returned to normal. In the patient with two exit holes, we tried to close the larger 8 mm hole with a 10 mm device but it was passed through the defect in the first attempt. In the second attempt, after device implantation we realized that it occluded the smaller hole and fortunately most of the shunt. We decided to release the device and occluding the other hole in future.

## CONCLUSION

OMVSDO is a promising device for the closure of muscular VSD and some other cardiac defects. Although it is softer and more flexible than the similar devices, it may cause heart block.