Are Amplatzer Duct Occluder II Additional Sizes devices dedicated only for smaller children?

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Aim: To present our experience with Amplatzer Duct Occluder type II Additional Sizes (ADOIIAS) for closure of different types of patent ductus arteriosus (PDA) in patients with distinct age compartments.

Methods and results: There were analyzed group of 103 patients, in whom PDA (diameter below 3.5 mm) was closed with ADOIIAS. The median age of treated patient was 3.0 y (from 0.1 till 24 yo) - 55 pts (53.4%) were older than 3 years. Ductal anatomy defined by angiography showed Type A in 42 pts (40.8%), type C in 6 (5.8%), type D in 21 (20.5%), type E in 34 pts (33.0%). Two embolization of the device occurred shortly after implantation.

Both occluders were retrieved percutaneously. One death occurred in neonate 4 days after ADOIIAS implantation not related with the procedure (cause multiorgan failure). In all patients next day after the procedure total occlusion of PDA was confirmed. No protrusion of the device to aorta nor pulmonary artery was seen in any patient in follow-up.

Conclusions: Application of Amplatzer Duct Occluder type II Additional Sizes is good therapeutic option to treat adequate PDA. The implant may successfully substitute coil implantation in all age groups.