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Usefulness of Andrastents for dilation of different vessels

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Aim : To present our experience with application of new cobalt - chromium stents (namely Andrastents XL/XXL).

Methods: There were 91 patients treated with 93 Andrastents - 53 (aged 8-65 years) with native CoA or ReCoA, 16 (aged 6-64 y) with left or right pulmonary stenosis (PS) closely to the bifurcation (native or postsurgical). In 19 pts (aged 11-40 y) the procedure was presenting before Melody valve implantation (in calcified pulmonary homograft or native RVOT). In 3 patients Andrastents were implanted in different places to dilate stenosis of: superior vena cava (in 7,5 y o child), Fontan tunnel (in 17 y old boy), and PFO (interatrial septum in complex heart defect in 19 old yo boy). Mean follow-up was 3,4 (0,2-5,4) years.

Results: All procedures were finished successfully in all but two patients without any complications with good clinical improvement. Two migration of stents occurred – one in RVOT and another in LPA (without clinical consequences). In all cases successful dilation of stenosed place with significant gradient reduction occurred. In 2 cases of native CoA (23 and 34 y old man) in early follow-up (6 and 8 months after the procedure) in angio CT small aneurysm formations was observed. Both patients were treated successfully with covered stents. In follow-up no fracture of the stent nor any others complications were observed.

Conclusions: Implantation of Andrastents XL and XXL is a good therapeutical option for the treatment of stenosed great vessels.