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## Advanced Innovation of Cardiac Surgical Techniques in Paediatrics

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### ABSTRACT

The chronic nature of aortic valve disease and the limits of all existing treatments sets the Ozaki procedure as a desirable option of interventional management in paediatric and adolescent populations significantly for all developing nations where the cost and accessibility of valve prostheses are major problems. The Ozaki procedure is a cutting-edge surgical method designed to replace the inadequacies of commercially available prostheses by reconstructing the aortic valve using an autologous pericardium. The new valve is created from autologous material, it does not elicit an immunological response in the patients and is marked as the highlight of this procedure. As only a few published data are available on the effectiveness of this procedure in paediatric and adolescent populations, to determine its long-term success more research including larger cohorts of paediatric patients, comparison of various graft materials, and longer follow-up are necessary.

**KEYWORDS:** Ozaki Procedure, Cardiac Neocuspidisation, AV Neo, Autologous Pericardium

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