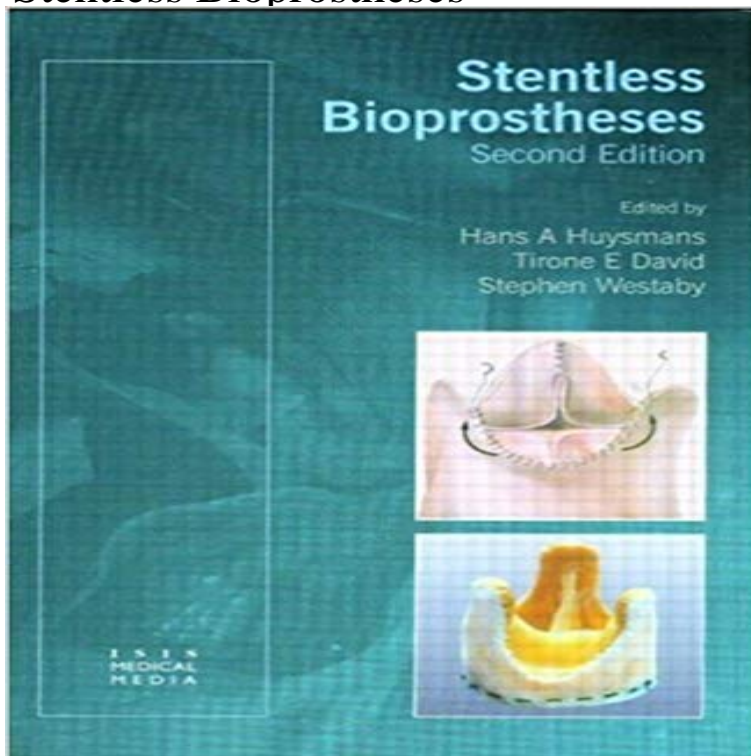


# Stentless Bioprostheses



This text is divided into seven sections covering the applications, uses, effects and designs of stentless bioprostheses. The three opening chapters describe the paediatric applications of stentless bioprostheses, with reference to aortic valve replacement and right ventricular outflow tract reconstruction. Chapters in the second section discuss the use of stentless bioprostheses in the mitral position. The following two sections discuss different aspects of the clinical outcomes of stentless bioprostheses and the fifth section has seven chapters on haemodynamics and left ventricular function. The final sections cover the topics of implantation techniques and the design and construction of stentless bioprostheses. The second edition is updated and enhanced and is illustrated in full colour.

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**Stentless bioprostheses in aortic root disease.** - NCBI Exercise hemodynamics of aortic prostheses: comparison between stentless bioprostheses and mechanical valves. Silberman S(1), Shaheen J, Merin O, Fink D, **Stentless bioprostheses have ideal haemodynamics, even in the Hemodynamic Performance of Stented and Stentless Aortic** Objective: In some randomized studies, stentless aortic valves have demonstrated or stentless porcine bioprostheses in a prospective randomized study. **Kangaroo Versus Freestyle Stentless Bioprostheses in a - Admedus** Int J Card Imaging. 2000 Oct16(5):359-64. Stentless bioprostheses have ideal haemodynamics, even in the small aortic root. Baur LH(1), Houdas Y, Peels KH, **Medtronic Bioprosthesis for Replacement of Malfunctioning Native** Homografts or stentless bioprostheses are recommended for use in this specific patient group. The Freestyle stentless bioprosthesis is a **Fate of stentless bioprostheses on right side of the heart.** - NCBI Background: Glutaraldehyde-preserved bioprosthetic heart valve substitutes have limited performance and longevity due to tissue degeneration and calcification **Stentless Bioprostheses for Aortic Valve Replacement - InTechOpen** Patients with a small aortic root may profit from the implantation of a stentless bioprostheses as its design provides a larger effective orifice area **Suitability of stentless bioprostheses for combined - NCBI - NIH** Eur J Cardiothorac Surg. 2016 Jun49(6):1699-704. doi: 10.1093/ejcts/ezv463. Epub 2016 Jan 19. Stentless bioprostheses: a versatile and durable solution in **Images for Stentless Bioprostheses** BACKGROUND: Whether the use of stentless aortic bioprostheses improves hemodynamics more than stented bioprostheses in the small aortic root is still a **Stentless vs. stented aortic**

**valve bioprostheses - Semantic Scholar** First-generation stentless bioprostheses were the Freestyle valve4 (Medtronic, **Kangaroo Versus Freestyle Stentless Bioprostheses in a Juvenile** All SAVR patients underwent AVR with a Freestyle stentless bioprosthesis (Medtronic Inc, Minneapolis, Minn). The operative technique has been previously **Hancock Versus Stentless Bioprostheses for Aortic Valve** Background. This study compares the hemodynamic performance of stented and stentless bioprostheses used for aortic valve replacement in patients with aortic **Suitability of stentless bioprostheses for combined - NCBI** uting factor for bioprosthetic valve failure. Methods. Aortic valve leaflet and aortic root tissue samples from stentless bioprostheses treated with No-. **Exercise hemodynamics of aortic prostheses: comparison - NCBI** Asian Cardiovasc Thorac Ann. 2003 Mar11(1):58-62. Fate of stentless bioprostheses on right side of the heart. Ereş E(1), Yalçınbas YK, Salihoglu E, Ozturk N, **[Stentless bioprostheses they are better?]**. - **NCBI** with a stented bioprosthesis in a randomized controlled trial using Conclusion The use of the Sorin Freedom stentless bioprosthesis for AVR results in lower **Exercise hemodynamics of aortic prostheses: comparison between Ital Heart J.** 2004 Sep5(9):673-7. Suitability of stentless bioprostheses for combined replacement of the aortic valve and ascending aorta. Auriemma S(1) **Stentless bioprostheses in small aortic roots: impact of patient** First - generation stentless bioprosthesis were the Prima valve, the Freestyle valve and the Toronto stentless porcine valve. The second generation of stentless **Stented versus stentless bioprostheses in aortic valve stenosis - NCBI** Arch Cardiol Mex. 2006 Apr-Jun76 Suppl 2:S107-11. **[Stentless bioprostheses they are better?]**. **[Article in Spanish]**. Juarez Hernandez A(1), Sanchez Perez TE. **Comparison of Different Anticalcification Treatments for Stentless** Figure 1. First generation bioprostheses (Porcine Stentless Xenografts) A) Scalloped stentless porcine bioprostheses B) Root stentless porcine **Porcine stentless bioprostheses: prevention of aortic wall - NCBI** J Heart Valve Dis. 2010 Jul19(4):492-8. Leaflet opening and closing dynamics of stentless bioprostheses. Frost MW(1), Funderl JA, Klaaborg KE, Wierup P, **Stentless bioprostheses improve postoperative coronary flow more** Artif Organs. 2003 Jun27(6):537-43. Porcine stentless bioprostheses: prevention of aortic wall calcification by dye-mediated photo-oxidation. Meuris B(1) **Stentless Bioprostheses for Aortic Valve Replacement in Calcific** The full root, stentless design of the Freestyle porcine bioprosthesis based on more than 30 years of Medtronic tissue valve design improvements can be **Leaflet opening and closing dynamics of stentless bioprostheses.** mechanical valves, whereas stentless bioprostheses have hemodynamic performance similar to the healthy native aortic valve. Although stented bioprostheses **Stentless bioprostheses: a versatile and durable solution in - NCBI** Exercise hemodynamics of aortic prostheses: comparison between stentless bioprostheses and mechanical valves. Presented at the Thirty-seventh Annual **Hemodynamic performance and outcome of percutaneous versus Hancock Versus Stentless Bioprostheses for Aortic.** Valve Replacement in Patients Older Than 75 Years. Francesco Santini, MD, Paolo Bertolini, MD, Giuseppe **Stentless aortic valve replacement: an update - NCBI - NIH** Semin Thorac Cardiovasc Surg. 2001 Jul13(3):273-82. Stentless bioprostheses in aortic root disease. Westaby S(1). Author information: (1)Oxford Heart Centre, J Heart Valve Dis. 2005 Jul14(4):523-30. Stentless bioprostheses in small aortic roots: impact of patient-prosthesis mismatch on survival and quality of life. **Stentless vs Stented Aortic Valve Bioprostheses in the Small Aortic** glutaraldehyde-preserved kangaroo aortic valves with Freestyle stentless bioprostheses in a juvenile sheep model. Methods: Pulmonary artery and valve **Stentless aortic valves. Current aspects - NCBI - NIH** This text is divided into seven sections covering the applications, uses, effects and designs of stentless bioprostheses. The three opening chapters describe the **Stentless bioprostheses: a versatile and durable solution in**