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Rapid Right Ventricular Pacing for Balloon Valvuloplasty in Congen



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Conclusions: **Rapid right ventricular pacing** is a safe and effective method to provide **balloon stability during balloon dilatation** of the **aortic valve**. It may be applied in other fields of **catheter intervention** where it is desirable to maintain stable device positions during the ...

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Author: I Daehnert, C Rotzsch, M Wiener, P Sch...

Publish Year: 2004

Rapid Right Ventricular Pacing with MR-compatible ...

<https://pubs.rsna.org/doi/10.1148/radiol.10091419>

Jun 01, 2010 · **Rapid right ventricular pacing** is a feasible and effective method with which to achieve **balloon stability** during **MR-guided aortic balloon valvuloplasty** in **swine** solely by using MR-compatible catheters and an MR-compatible pacemaker lead.

Cited by: 6

Author: Mirja Neizel, Nils Krämer, Florian Bönner...

Publish Year: 2010

How to achieve balloon stability in aortic valvuloplasty ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3232530>

Balloon aortic valvuloplasty is now the treatment of choice for **congenital aortic stenosis**. **Balloon stability** may be difficult to achieve and this may result in a suboptimal result or even **valve damage**. We describe the technique of **rapid ventricular pacing** as a safe and effective option for **achieving balloon stability** during **aortic valvuloplasty**.

Cited by: 5

Author: C. Mehta, S. Shebani, Victor E. Grech, J...

Publish Year: 2004

Congenital aortic stenosis: A novel technique for ...

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/ccd.21695>

Rapid ventricular pacing was performed through back-up guidewires inserted into the left **ventricle for balloon** advancement and by an adhesive patch placed on the back of the patient. The

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Rapid right ventricular pacing is an alternative to ...<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1768411>

Conclusions: Rapid right ventricular pacing is a safe and effective method to provide balloon stability during balloon dilatation of the aortic valve. It may be applied in other fields of catheter intervention where it is desirable to maintain stable device positions during the critical phase of the procedure.

Cited by: 83 Author: I Daehnert, C Rotzsch, M Wiener, P Schneid...
 Publish Year: 2004

Congenital aortic stenosis: A novel technique for ...<https://onlinelibrary.wiley.com/doi/pdf/10.1002/ccd.21695>

Rapid ventricular pacing was performed through back-up guidewires inserted into the left ventricle for balloon advancement and by an adhesive patch placed on the back of the patient. The technique was performed during BAV procedure in all of 15 consecutive children diagnosed as congenital aortic stenosis.

Cited by: 17 Author: Tefik Karagöz, Ebru Aypar, İlkay Erdoğan, ...
 Publish Year: 2008

Rapid Right Ventricular Pacing with MR-compatible ...<https://pubs.rsna.org/doi/10.1148/radiol.10091419>

Jun 01, 2010 - Otherwise, a vigorously moving balloon and guidewire can cause hazardous damage to the myocardium, including perforation of the myocardial wall and inadvertent valvular damage. Rapid right ventricular pacing is a widely used method that is used to reduce systemic pressure and thereby assure balloon stability (10–12). To our knowledge, the feasibility of pacing during MR-guided ...

Cited by: 6 Author: Mirja Neizel, Nils Krämer, Florian Bönner, A...
 Publish Year: 2010

Rapid Ventricular Pacing for Catheter Interventions in ...<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1540-8183.2009.00521.x>

Rapid ventricular pacing is a safe and effective method to provide transient decrease in cardiac output at the time of balloon valvuloplasty of the aortic valve. This achieves balloon stability to optimize the desired hemodynamic result while at the same time reduces the possibility of potential damage to the stenosed valve and myocardium.

Cited by: 17 Author: Chetan Mehta, Tarak Desai, Suhair Shebani...
 Publish Year: 2010

Balloon Aortic Valvuloplasty for Congenital Aortic ...<https://www.sciencedirect.com/science/article/pii/S1443950618300775>

Apr 01, 2019 - Introduction. Balloon aortic valvuloplasty (BAV) is a widely-accepted intervention for congenital aortic valve stenosis (AS). Since its first description in children by Lababidi in 1983, BAV has evolved to become the standard of care in many tertiary paediatric centres for primary and secondary treatment of congenital AS in the absence of significant regurgitation.

Cited by: 1 Author: Benjamin Auld, Benjamin Auld, Lindsay Car...
 Publish Year: 2019

(PDF) Cardiac pacing in balloon aortic valvuloplasty<https://www.researchgate.net/publication/6896730...>

Rapid ventricular pacing appears to be an effective and a safe procedure to stabilize the balloon during balloon aortic valvuloplasty and is thought to decrease the incidence of aortic ...

Left Ventricular Rapid Pacing in Balloon Aortic ...<https://www.cathlabdigest.com/content/left...>

Dec 03, 2019 - The performance of BAV requires the employment of temporary ventricular pacing, done in order to transiently decrease cardiac output and minimize displacement forces exerted on the valvuloplasty balloon during inflation. 1,5 Temporary ventricular pacing is traditionally facilitated via the insertion of a temporary pacing wire (TPW) through the femoral, jugular or subclavian veins, then advanced into the right ventricular apex.

How to achieve balloon stability in aortic valvuloplasty ...<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3232530>

Balloon aortic valvuloplasty is now the treatment of choice for congenital aortic stenosis. Balloon stability may be difficult to achieve and this may result in a suboptimal result or even valve damage. We describe the technique of rapid ventricular pacing as a safe and effective option for achieving balloon stability during aortic valvuloplasty.

Balloon Aortic Valvuloplasty - ResearchGatehttps://www.researchgate.net/publication/288841574_Balloon_Aortic_Valvuloplasty

Rapid ventricular pacing (RP) during percutaneous balloon aortic valvuloplasty (BAV) facilitates balloon positioning by preventing the "watermelon seeding" effect during balloon inflation.

Left Ventricular Rapid Pacing Via the Valve Delivery ...<https://www.sciencedirect.com/science/article/pii/S1936879819319910>

Dec 23, 2019 - With this in mind, a technique of rapid ventricular pacing through the left ventricular (LV) guidewire used for balloon advancement during pediatric balloon aortic valvuloplasty was previously developed to obviate the need for a temporary pacing lead (6,7).

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Rapid right ventricular pacing for balloon valvuloplasty in congenital aortic stenosis: A systematic review

Mylonas KS *et al.* RRVP for balloon valvuloplasty

Konstantinos S. Mylonas, Ioannis A. Ziogas, Charitini S. Mylona, Dimitrios V. Avgerinos, Christos Bakoyiannis, Fotios Mitropoulos, Aphrodite Tzifa

Abstract

BACKGROUND

Balloon aortic valvuloplasty (BAV) is a well-established treatment modality for congenital aortic valve stenosis.

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Rapid right ventricular pacing can be expanded in neonates and infants to potentially decrease the incidence of **aortic** regurgitation and reintervention rates, hence avoiding high-risk surgical bail-out procedures for severe **aortic** regurgitation in ...

Rapid right ventricular pacing is an alternative to ...

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Conclusions: **Rapid right ventricular pacing** is a safe and effective method to provide **balloon stability during balloon dilatation** of the **aortic valve**. It may be applied in other fields of **catheter intervention** where it is desirable to maintain stable device positions during the ...

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