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Phrenic Nerve Displacement by Intrapericardial Balloon Inflation during Epicardial



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Epicardial Phrenic Nerve Displacement During Catheter ...

<https://www.ahajournals.org/doi/full/10.1161/circep.115.002818>

Epicardial Phrenic Nerve Displacement During Catheter Ablation of Atrial and **Ventricular** Arrhythmias. ... , 2 left-sided accessory pathways, 3 and **epicardial ablation of ventricular tachycardia** ... **Intrapericardial balloon** placement for prevention of collateral injury **during** catheter **ablation** of the left atrium in a porcine model.

Cited by: 10

Author: Saurabh Kumar, Chirag R Barbhaiya, Sam...

Publish Year: 2015

Phrenic Nerve Limitation During Epicardial Catheter ...

<https://www.sciencedirect.com/science/article/pii/S2405500X1830673X>

Balloon displacement of the **phrenic nerve**. **PN displacement** was attempted in 13 of 25 patients (52%): large **balloons** were used in 7 of 13 patients (54%) and small **balloons** in 6 of 13 patients (46%).

Cited by: 2

Author: Kenji Okubo, Nicola Trevisi, Luca Foppoli, C..

Publish Year: 2019

Epicardial Phrenic Nerve Displacement During Catheter ...

https://www.researchgate.net/publication/276210040_Epicardial_Phrenic_Nerve...

Epicardial Phrenic Nerve Displacement During Catheter Ablation of Atrial and **Ventricular** Arrhythmias: Procedural Experience and Outcomes Article in Circulation Arrhythmia and Electrophysiology 8(4 ...

Ablation of Inappropriate Sinus Tachycardia | JACC ...

electrophysiology.onlinejacc.org/content/early/2016/12/12/j.jacep.2016.09.014 ▾

Dec 21, 2016 · Objectives The goal of this study was to describe short- and long-term outcomes in all patients referred for inappropriate sinus **tachycardia ablation**, along with the potential complications of the intervention. Background Sinus node (SN) **ablation/modification** has been proposed for patients refractory to pharmacological therapy. However, available data derive from limited **series**.

Cited by: 1

Author: Moisés Rodríguez-Mañero, Bahij Kreidieh, ...

Publish Year: 2017

Phrenic Nerve and Esophageal Injury During Catheter

Match Overview

1	Internet 84 words www.ncbi.nlm.nih.gov	3%
2	Crossref 48 words Luigi Di Biase, J. David Burkhardt, Gemma Pelargonio, Antonio Dello Russo et al. "Prevention of phrenic nerve injury d	2%
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8	Crossref 12 words Cardiac Electrophysiology, 2011.	<1%

Phrenic nerve displacement by intrapericardial balloon inflation during epicardial ablation of ventricular tachycardia: Case series

Sergio Conti, Vito Bonomo, Antonio Taormina, Umberto Giordano, Giuseppe Sgarito

Abstract

BACKGROUND

Phrenic nerve (PN) injury is one of the recognized possible complications following epicardial ablation of ventricular tachycardia (VT). High-output pacing is a widely used maneuver to establish a relationship between the PN and the ablation catheter tip. The absence of PN capture is usually considered an indication that it is safe to ablate, and successful ablation may be performed at adjacent sites. However, PN capture may influence the procedural outcome. Only a few cases have been reported within the literature, and none have avoided PN injury by using different techniques.

CASE SUMMARY

Three patients with a previous history of myocarditis and one patient with ischemic cardiomyopathy underwent epicardial ablation for drug-refractory VT. Before the procedure, transthoracic echocardiogram, coronary angiogram, and cardiac magnetic resonance imaging (MRI) were performed on all patients. Under general anesthesia, endo/epicardial three-dimensional anatomical and substrate maps of the left ventricle (LV) were accomplished. Before radiofrequency delivery, the course of the PN was identified by provoking diaphragmatic stimulation with high-output pacing from the distal electrode of the ablation catheter. In every case, a scar region with late potentials (LPs) was mapped along the PN course. After obtaining another epicardial access, a second introducer sheath was placed, and a vascular balloon catheter was inserted into the epicardial space and inflated with saline solution, to separate the PN from the epicardium. Once the absence of PN capture had been proved, RF was applied to aim at complete ablation and no VT induction.



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<https://www.sciencedirect.com/science/article/pii/S2405500X1830673X>

Phrenic Nerve Displacement Using the Balloon. Fluoroscopic images of the displacement of the phrenic nerve using a large balloon (20 mm × 45 mm) in the RAO (A) and LAO (B) views and a small balloon (6 mm × 20 mm) in the RAO (C) and LAO (D). In these cases, when the balloon was inflated, the phrenic capture successfully disappeared.

Cited by: 3

Author: Kenji Okubo, Nicola Trevisi, Luca Foppoli,...

Publish Year: 2019

Epicardial Phrenic Nerve Displacement During Catheter ...

<https://www.ahajournals.org/doi/10.1161/CIRCEP.115.002818>

Collateral phrenic nerve (PN) injury can occur after endocardial catheter ablation of atrial fibrillation (AF), 1 atrial tachycardias (AT), 2 left-sided accessory pathways, 3 and epicardial ablation of ventricular tachycardia (VT). 4 – 6 Right PN injury during ablation of atrial arrhythmias originating from the crista terminalis, superior vena cava (SVC), or the right upper pulmonary vein can be ...

Cited by: 13

Author: Saurabh Kumar, Chirag R Barbhaiya, Sa...

Publish Year: 2015

INTRAPERICARDIAL BALLOON PLACEMENT FOR ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3766741>

Intrapericardial balloon retraction of the LA for prevention of esophageal injury during endocardial catheter ablation was recently reported. 8 Balloon inflation 9,10 or infusion of air 11 into the pericardial space has also been used for protection of the left PN during epicardial VT ablation. Despite these case reports, no systematic assessment of an intrapericardial balloon protection strategy has been performed to demonstrate protection of collateral tissues during LA ablation.

Cited by: 24

Author: Shiro Nakahara, Rafael J. Ramirez, Eric ...

Publish Year: 2010

Protecting the right phrenic nerve during catheter ...

[https://www.heartrhythmcase reports.com/article/S2214-0271\(16\)30089-6/fulltext](https://www.heartrhythmcase reports.com/article/S2214-0271(16)30089-6/fulltext)

Proximity to the nerve may be identified by capture during pacing to avoid injury during energy

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2015年5月11日 - **Epicardial Phrenic Nerve Displacement During Catheter Ablation** of ... In 2 **ventricular tachycardia** cases, absence of PN capture was ... Experience with phrenic **displacement** is limited to **case** reports, small **series**, or animal experiments. created by **balloon inflation in** patients with atrial arrhythmias.

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作者: S Kumar - 2015 - [被引用次数: 16](#) - [相关文章](#)

the **phrenic nerve** can be targeted successfully with **phrenic nerve displacement** strategies. steerable sheath/4 mm-catheter combination or the use of an esophageal or gastrointestinal **balloon** delivered via a steerable sheath.

[Epicardial phrenic nerve displacement during catheter ... - NCBI](#)

<https://www.ncbi.nlm.nih.gov> › [pubmed](#) - [翻译此页](#)

作者: S Kumar - 2015 - [被引用次数: 16](#) - [相关文章](#)

2015年5月11日 - **Epicardial phrenic nerve displacement during catheter ablation** of atrial and **ventricular arrhythmias**: procedural experience and outcomes. ... or a vascular or an esophageal **balloon** (8 patients) was ultimately successful.

缺少字词: ~~intrapericardial inflation~~ Case series

[INTRAPERICARDIAL BALLOON PLACEMENT FOR ...](#)

<https://www.ncbi.nlm.nih.gov> › [pmc](#) › [articles](#) › [PMC3766741](#) - [翻译此页](#)

作者: S Nakahara - 2010 - [被引用次数: 38](#) - [相关文章](#)

2009年9月17日 - Right **Phrenic Nerve Displacement** The reported prevalence of PN injury as a complication of AF **ablation** is 0.11% to 0.48%. Methods to prevent left PN injury **during epicardial catheter ablation** for **ventricular tachycardia** have been proposed.