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Electrophysiologic testing guided risk stratification approach for **sudden cardiac death** beyond the left ventricular ejection fraction

Konstantinos A Gatzoulis, Dimitris Tsiachris, Petros Arsenos, Dimitris Tousoulis

Abstract

Sudden cardiac death threatens ischaemic and dilated cardiomyopathy patients. Anti-arrhythmic protection may be provided to these patients with implanted cardiac defibrillators (ICD), after an efficient risk stratification approach. The proposed risk stratifier of an Impaired Left Ventricular Ejection Fraction has limited sensitivity meaning that a significant number of victims will remain undetectable by this risk stratification approach because they have a preserved left ventricular systolic function. Current risk stratification strategies focus on combinations of non invasive methods like T wave alternans, Late Potentials, Heart rate Turbulence, Deceleration Capacity and others, with invasive methods like the Electrophysiologic Study. In the presence of an electrically impaired substrate with formed post myocardial infarction fibrotic zones, Programmed Ventricular Stimulation provides important prognostic information for the selection of the patients expected to benefit from an ICD implantation, while due to its high negative predictive value, patients at low risk level may also be detected. Clustering evidence from different research groups and EP labs support an Electrophysiologic Testing guided risk stratification approach for Sudden Cardiac Death.

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作者: AE Buxton - 2005 - 被引用次数: 84 - 相关文章

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The risk profile of patients with a **left ventricular ejection fraction** of 34% (below ... them to go **beyond** prognosticating all-cause mortality and identify various sources of However, the ability of available **tests** to predict **sudden death** on an Given the relatively poor performance of current **risk stratification approaches** for ...

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作者: R Passman - 2012 - 被引用次数: 11 - 相关文章

2012年6月19日 - **Risk Stratification** for **Sudden Cardiac Death** in Patients With **Left** ... article is on current and future **approaches** to risk stratifica- assessment of substrate (ie, **EF**), **tests** of autonomic function. (ie, heart patients with **left ventricular** dysfunction in published **guide**- ... Additionally, moving the focus **beyond** the.

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作者: DV Exner - 2009 - 被引用次数: 8 - 相关文章

Beyond the initial post-MI period, the presence of significant **left ventricular** ... However, these **approaches** identify only a fraction of those at risk. ... Keywords: Autonomic tone, **Ejection fraction**, Myocardial infarction, Repolarization, **Risk stratification**, ... **Sudden cardiac death** - death due to a cardiac or unexplained cause that ...

Strategies for the prevention and treatment of sudden ...

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作者: AE Buxton - 2005 - 被引用次数: 86 - 相关文章

The **Sudden Cardiac Death** in Heart Failure Trial (SCD-HeFT), presented earlier this year, ... Most of these patients do not have markedly abnormal **ventricular** function. ... If **EF** were an ideal **risk stratification test**, then both its sensitivity and ... The limited sensitivity of **EF** to predict risk of sudden death also is illustrated by the ...

Risk Stratification for Arrhythmic Sudden Cardiac Death

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作者: JJ Goldberger - 2011 - 被引用次数: 63 - 相关文章

Risk Stratification for Arrhythmic **Sudden Cardiac Death** ... information on the utility of various **risk stratification approaches** for the prevention of SCD. ... The risk profile of patients with a **left ventricular ejection fraction** of 34% (below the ... that strategies incorporating multiple **tests** can be used to efficiently **guide** ICD therapy.

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Furthermore, most patients with significant **LV** dysfunction after MI have a low, ... tone, **Ejection fraction**, Myocardial infarction, Repolarization, **Risk stratification**, ... **Sudden cardiac death** – death due to a cardiac or unexplained cause that occurs ... of CMR imaging to **guide** prophylactic ICD therapy **beyond** LVEF assessment.

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作者: JJ Goldberger - 2009 - 被引用次数: 23 - 相关文章

The **risk** of sudden death is highest early after myocardial infarction (MI) and ... for sudden death for patients who survive an acute MI extends **beyond** the ... our **approach** to better understand the pathophysiology of **sudden cardiac death** at this time. ... myocardial infarction, **stratified** by **left ventricular ejection fraction** (LVEF).

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