

Contemporary Management of Complex Ventricular Arrhythmias

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Abstract

Percutaneous catheter ablation is an effective and safe therapy that can eliminate ventricular tachycardia, reducing the risks of both recurrent arrhythmia and shock therapies from a defibrillator. Successful ablation requires accurate identification of arrhythmic substrate and the effective delivery of energy to the targeted tissue. A thorough pre-procedural assessment is needed before considered 3D electroanatomical mapping can be performed. In contemporary practice, this must combine traditional electrophysiological techniques, such as activation and entrainment mapping, with more novel physiological mapping techniques for which there is an ever-increasing evidence base. Novel techniques to maximise energy delivery to the tissue must also be considered and balanced against their associated risks of complication. This review provides a comprehensive appraisal of contemporary practice and the evidence base that supports recent developments in mapping and ablation, while also considering potential future developments in the field.

Keywords

Ventricular arrhythmia, ventricular tachycardia, mapping, scar, ablation, endocardial, epicardial

Disclosure: BW has received unrestricted research fellowships and consultancy payments from Boston Scientific. MW and BW have received funding from the Advanced Ventricular Arrhythmia Training and Research Program administered by St George's Hospital Charity. AL and MS have received unrestricted grants from Abbot Laboratories.

Received: 29 November 2021 **Accepted:** 6 February 2022 **Citation:** Arrhythmia & Electrophysiology Review 2022;11:e04. **DOI:** <https://doi.org/10.15420/aer.2021.11.04>

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Sudden cardiac death is a leading cause of global mortality, with 6 million deaths per year attributed to ventricular tachyarrhythmia.¹ In at-risk groups, ICD improves survival, and is superior to medical therapy in both the primary and secondary prevention of sudden death.²⁻⁷ ICD therapy does not prevent arrhythmia, of course. Recurrence is common, even in the presence of anti-arrhythmic medications, which can themselves be associated with significant adverse effects.⁸⁻¹⁰ ICD shock therapies are also associated with increased mortality and reduced quality of life.¹¹⁻¹⁴

Percutaneous catheter ablation is an effective and safe solution that can eliminate ventricular tachycardia (VT), reducing the risk of recurrent arrhythmia and future ICD therapies. In expert hands this can be achieved with low procedure-related complications and extremely low early mortality.¹⁵⁻²²

Catheter Ablation: Indications

In patients with structural heart disease, expert consensus guidelines currently recommend catheter ablation for VT after failure of anti-arrhythmic drug (AAD) therapy, or for patients in whom AAD therapy is either not tolerated or not desired (class I indication).²³

The most robust evidence for catheter ablation is in patients with both VT and ischaemic heart disease (IHD). VANISH was a randomised controlled trial in which patients with IHD and an ICD, who experienced VT despite AAD therapy, were randomised to either catheter ablation or an escalation in AAD therapy. After a mean follow-up of >2 years, a significant reduction in the combined primary outcome of death, ICD shock or VT storm was

observed in the ablation cohort, with a subgroup analysis showing that patients who were already taking amiodarone obtained the greatest benefit.²⁴ In the IHD population, catheter ablation is therefore recommended over escalation in AAD therapy for patients who experience VT despite amiodarone.

In patients with IHD, catheter ablation may also be considered after a first episode of monomorphic VT to reduce the future risk of shock therapies (class IIb indication). This recommendation is supported by the findings of SMASH-VT, a randomised controlled trial in which patients with a history of MI and a secondary prevention ICD indication were randomised to either ICD alone or ICD plus prophylactic catheter ablation. In this trial, appropriate ICD shocks were significantly reduced in the catheter ablation cohort with no increase in mortality.²⁵

These findings were further supported by VTACH, a randomised controlled trial of ICD versus ICD and ablation, which recruited patients with prior stable VT, MI and reduced ejection fraction (<50%). Time to recurrence of VT or ventricular fibrillation (VF) was significantly longer in the ablation group (18.6 versus 5.9 months), while freedom from ventricular arrhythmia at 2 years was also significantly greater postablation (47% versus 29%).²⁶

Ablation prior to ICD implantation is also a potentially promising strategy in patients with IHD, but this has not yet been shown to offer benefit over a deferred ablation strategy.²⁷ However, we eagerly await the publication of on-going trials in this area, such as PARTISA (NCT01547208).²⁸

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Table of Contents Contemporary Management Of Ventricular Arrhythmias

1. Understanding the eBook Contemporary Management Of Ventricular Arrhythmias
 - The Rise of Digital Reading Contemporary Management Of Ventricular Arrhythmias
 - Advantages of eBooks Over Traditional Books
2. Identifying Contemporary Management Of Ventricular Arrhythmias
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Contemporary Management Of Ventricular Arrhythmias
 - User-Friendly Interface
4. Exploring eBook Recommendations from Contemporary Management Of Ventricular Arrhythmias
 - Personalized Recommendations
 - Contemporary Management Of Ventricular Arrhythmias User Reviews and Ratings
 - Contemporary Management Of Ventricular Arrhythmias and Bestseller Lists
5. Accessing Contemporary Management Of Ventricular Arrhythmias Free and Paid eBooks
 - Contemporary Management Of Ventricular Arrhythmias Public Domain eBooks
 - Contemporary Management Of Ventricular Arrhythmias eBook Subscription Services
 - Contemporary Management Of Ventricular Arrhythmias Budget-Friendly Options
6. Navigating Contemporary Management Of Ventricular Arrhythmias eBook Formats

- ePub, PDF, MOBI, and More
 - Contemporary Management Of Ventricular Arrhythmias Compatibility with Devices
 - Contemporary Management Of Ventricular Arrhythmias Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Contemporary Management Of Ventricular Arrhythmias
 - Highlighting and Note-Taking Contemporary Management Of Ventricular Arrhythmias
 - Interactive Elements Contemporary Management Of Ventricular Arrhythmias
 8. Staying Engaged with Contemporary Management Of Ventricular Arrhythmias
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Contemporary Management Of Ventricular Arrhythmias
 9. Balancing eBooks and Physical Books Contemporary Management Of Ventricular Arrhythmias
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Contemporary Management Of Ventricular Arrhythmias
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Contemporary Management Of Ventricular Arrhythmias
 - Setting Reading Goals Contemporary Management Of Ventricular Arrhythmias
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Contemporary Management Of Ventricular Arrhythmias
 - Fact-Checking eBook Content of Contemporary Management Of Ventricular Arrhythmias
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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