

Neuroprognostication after cardiac arrest: what the cardiologist should know

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Two aspects are a key to mastering prognostication of comatose cardiac arrest survivors: a detailed knowledge about the clinical trajectories of consciousness recovery (or lack thereof) and the ability to correctly interpret the results of multimodal investigations, which include clinical examination, electroencephalography, neuroimaging, evoked potentials, and blood biomarkers. While the very good and the very poor ends of the clinical spectrum typically do not pose diagnostic challenges, the intermediate ‘grey zone’ of post-cardiac arrest encephalopathy requires cautious interpretation of the available information and sufficiently long clinical observation. Late recovery of coma patients with initially ambiguous diagnostic results is increasingly reported, as are unresponsive patients with various forms of residual consciousness, including so-called cognitive motor dissociation, rendering prognostication of post-anoxic coma highly complex. The aim of this paper is to provide busy clinicians with a high-yield, concise overview of neuroprognostication after cardiac arrest, emphasizing notable developments in the field since 2020.

Keywords

Cardiac arrest • Coma • Consciousness • Disorders of consciousness • Intensive care • Prognosis

Introduction

Neuroprognostication of cardiac arrest survivors requires a firm understanding of two aspects: first, the trajectories of consciousness recovery that may or may not be anticipated after cardiac arrest (Table 1) and second, the major components of multimodal neuroprognostication and their clinical implications, i.e. clinical exam, neuroimaging, electroencephalography (EEG), evoked potentials, and blood biomarkers (Figure 1).

Neuroprognostication is potentially prone to self-fulfilling prophecy because the prognostic data influence decisions in the intensive care unit about discontinuation of life-sustaining therapy. When multimodal investigations and an adequately long clinical observation period suggest irreversible brain damage, autopsy of post-cardiac arrest patients who die in the intensive care unit confirms irreversible brain damage: In a three-centre cohort study of 187 patients who underwent brain autopsy after cardiac arrest, severe hypoxic-ischaemic encephalopathy was histopathologically found in all patients with bilaterally absent somatosensory-evoked potentials (SSEPs), all patients with grey–white matter ratio < 1:1 on brain computed tomography (CT), all patients with suppressed EEG, more than 90% of patients with burst-suppression EEG, and all patients with neuron-specific enolase (NSE) levels greater than 67 µg/L more than 48 h after cardiac arrest.¹ However, it is becoming increasingly clear that in other patients late awakening is common and that comatose patients may have a good neurological outcome even when initial assessments have yielded ambiguous results. Hence, careful, well-informed and mature decision-making is of the essence.^{1–3}

The aim of this paper is to provide busy clinicians caring for post-cardiac arrest patients with concise information about clinical trajectories of consciousness recovery, highlighting key features that allow practitioners to distinguish between the different acute disorders of consciousness, as well as information about multimodal investigations. The emphasis is on the ‘grey-zone’ of prognostication, i.e. cardiac arrest survivors in whom initial evaluations are neither particularly favourable nor particularly unfavourable (Figure 2), and on notable developments since 2020 (Table 2).

Clinical examination

The key prognostic factor in acute brain injury, including post-cardiac arrest, is the potential to recover consciousness; otherwise, neurorehabilitation is meaningless. Post-cardiac arrest patients typically regain consciousness following a trajectory from coma (which often lasts a few hours only, and almost never longer than 2–3 weeks,²⁷ Table 1) to a state of unresponsive wakefulness syndrome (UWS, characterized by eye-opening and re-occurrence of sleep patterns on EEG, with or without an obvious sleep–wake cycle), which then transitions to a minimally conscious state (MCS, indicated by visual pursuit and/or a localizing motor pattern, with or without the ability to follow simple commands). Finally, a fully conscious state emerges characterized by two-way communication and/or functional use of objects, with or without neuropsychological sequelae.²⁸ The time of this trajectory can range from a few hours to many days or even years, and patients may improve from UWS to MCS and worsen several times until full recovery.^{11,29}

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Table of Contents Cardiac Arrest 1987 Gail Maxwell

1. Understanding the eBook Cardiac Arrest 1987 Gail Maxwell
 - The Rise of Digital Reading Cardiac Arrest 1987 Gail Maxwell
 - Advantages of eBooks Over Traditional Books
2. Identifying Cardiac Arrest 1987 Gail Maxwell
 - 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 Cardiac Arrest 1987 Gail Maxwell
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cardiac Arrest 1987 Gail Maxwell
 - Personalized Recommendations
 - Cardiac Arrest 1987 Gail Maxwell User Reviews and Ratings
 - Cardiac Arrest 1987 Gail Maxwell and Bestseller Lists
5. Accessing Cardiac Arrest 1987 Gail Maxwell Free and Paid eBooks
 - Cardiac Arrest 1987 Gail Maxwell Public Domain eBooks
 - Cardiac Arrest 1987 Gail Maxwell eBook Subscription Services
 - Cardiac Arrest 1987 Gail Maxwell Budget-Friendly Options

6. Navigating Cardiac Arrest 1987 Gail Maxwell eBook Formats
 - ePub, PDF, MOBI, and More
 - Cardiac Arrest 1987 Gail Maxwell Compatibility with Devices
 - Cardiac Arrest 1987 Gail Maxwell Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cardiac Arrest 1987 Gail Maxwell
 - Highlighting and Note-Taking Cardiac Arrest 1987 Gail Maxwell
 - Interactive Elements Cardiac Arrest 1987 Gail Maxwell
8. Staying Engaged with Cardiac Arrest 1987 Gail Maxwell
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cardiac Arrest 1987 Gail Maxwell
9. Balancing eBooks and Physical Books Cardiac Arrest 1987 Gail Maxwell
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cardiac Arrest 1987 Gail Maxwell
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cardiac Arrest 1987 Gail Maxwell
 - Setting Reading Goals Cardiac Arrest 1987 Gail Maxwell
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cardiac Arrest 1987 Gail Maxwell
 - Fact-Checking eBook Content of Cardiac Arrest 1987 Gail Maxwell
 - 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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