

Electrophysiology Study Of Heart

== Abstracting and indexing == 1622a1544f

Cardiology Pediatric cardiologists are pediatricians who specialize in cardiology. Physicians who specialize in cardiac surgery are called cardiothoracic surgeons or cardiac surgeons, a specialty of general surgery. Cardiology (from Ancient Greek καρδίᾱ (kardiā) 'heart' and -λογία (-logia) 'study') is the study of the heart. electrophysiology is a branch of the medical specialty of cardiology and is concerned with the study and treatment of rhythm disorders of the heart. Cardiology is a branch of medicine that deals with disorders of the heart and the cardiovascular system, and it is a sub-specialty of internal medicine. The field includes medical diagnosis and treatment of congenital heart defects, coronary artery disease, heart failure, valvular heart disease, and electrophysiology. Physicians who specialize in this field of medicine are called cardiologists 1622a1544f

The training required to become an electrophysiologist is lengthy and requires eight years after medical school (in the U.S.), entailing three years of internal medicine residency, three years of clinical cardiology fellowship, and two years of clinical cardiac electrophysiology. This is necessary due to the significant complexity of patients that electrophysiologists usually treat, the constant advances in methods and equipment used in their daily practice, making the field of electrophysiology one of the most demanding... 1622a1544f The companion journals to Heart Rhythm are HeartRhythm Case Reports, which was founded in 2015 and Heart Rhythm 02, which launched in April 2020. 1622a1544f The first issue of Heart Rhythm was published in May 2004 with Douglas Zipes, MD, FHRS, as the founding editor in chief. The Editor-in-Chief from 2014-2023 was Peng-Sheng Chen, MD, FHRS. The Editor-in-Chief since January 2024 is Sami Viskin, MD. 1622a1544f == Description == 1622a1544f

Electrophysiology study A cardiac electrophysiology study (EP test or EP study) is a minimally invasive procedure using catheters introduced through a vein or artery to record A cardiac electrophysiology study (EP test or EP study) is a minimally invasive procedure using catheters introduced through a vein or artery to record electrical activity from within the heart. This electrical activity is recorded when the heart is in a normal rhythm (sinus rhythm) to assess the conduction system of the heart and to look for additional electrical connections (accessory

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pathways), and during any abnormal heart rhythms that can be induced. EP studies are used to investigate the cause, location of origin, and best treatment for various abnormal heart rhythms, and are often followed by a catheter ablation during the same procedure 1622a1544f

Clinical cardiac electrophysiology the field of electrophysiology one of the most demanding subspecialties of modern medicine. Electrophysiologists are trained in the mechanism, function, and performance of the electrical activities of the heart. Cardiologists with expertise in this area are usually referred to as electrophysiologists. Electrophysiologists work closely with other cardiologists and cardiac surgeons to assist or guide therapy for heart rhythm disturbances (arrhythmias). An electrophysiology study is any of a number of invasive (intracardiac) Clinical cardiac electrophysiology (also referred to as cardiac electrophysiology or simply EP) is a branch of the medical specialty of cardiology concerned with the study and treatment of rhythm disorders of the heart. They are trained to perform interventional and surgical procedures to treat cardiac arrhythmia 1622a1544f

== Definition and scope == 1622a1544f

Circulation (journal) The journal publishes articles related to research in and the practice of cardiovascular diseases, including observational studies Circulation is a scientific journal published by Lippincott Williams & Wilkins for the American Heart Association. Articles become open access after a 12-month embargo period. Its 2021 impact factor is 39. Heart Association. 918, ranking it first among journals in the Cardiac and Cardiovascular Systems category and first in the Peripheral Vascular Disease category. The journal publishes articles related to research in and the practice of cardiovascular diseases, including observational studies, clinical trials, epidemiology, health services and outcomes studies, and advances in applied (translational) and basic research 1622a1544f

Cardiac electrophysiology Cardiac electrophysiology or Electrocardiophysiology is a branch of cardiology and basic science focusing on the electrical activities of the heart. Specialists studying cardiac electrophysiology, either clinically or solely through research, are known as cardiac electrophysiologists. The Cardiac electrophysiology or Electrocardiophysiology is a branch of cardiology and basic science focusing on the electrical activities of the heart. The term is usually used in clinical context, to describe studies of such phenomena by invasive (intracardiac) catheter recording of spontaneous activity as well as of cardiac responses to programmed electrical stimulation - clinical cardiac electrophysiology. However, cardiac electrophysiology

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also encompasses basic research and translational research components 1622a1544f

Journal of the American College of Cardiology Clinical Electrophysiology JACC: Heart Failure American Journal of Cardiology Circulation European Heart Journal "Journal of the American College of Cardiology" The Journal of the American College of Cardiology is a peer-reviewed medical journal covering all aspects of cardiovascular disease, including original clinical studies, translational investigations with clear clinical relevance, state-of-the-art papers, review articles, and editorials interpreting and commenting on the research presented, published by the American College of Cardiology 1622a1544f

Clinical electrophysiology) Clinical electrophysiology can be utilized in the study and treatment of various physiological conditions, and most notably in clinical cardiac electrophysiology. testing (EEG, electromyography, etc. The two main branches of this discipline are electrotherapy and electrophysiologic testing (EEG, electromyography, etc.) Clinical electrophysiology can be utilized in the study and treatment of various physiological conditions, and most Clinical electrophysiology is the application of electrophysiology principles to medicine 1622a1544f

The journal is abstracted and indexed in the following database: 1622a1544f 2008 saw the appearance of six subspecialty journals. The first edition of Circulation: Arrhythmia and Electrophysiology appeared in April 2008, followed by an edition dedicated to heart failure in May titled Circulation: Heart Failure. The remaining four journals launched once per month from July through October 2008. In order of release they were, Circulation: Cardiovascular Imaging, Circulation: Cardiovascular Interventions, Circulation: Cardiovascular Quality and Outcomes, and Circulation: Cardiovascular Genetics (now published as Circulation: Genomic and Precision Medicine since... 1622a1544f

EP Europace about the study and management of cardiac arrhythmias, cardiac pacing, and cardiac cellular electrophysiology. It is 1 of 13 official journals of the European Society of Cardiology and is the official journal of the society's working groups on Cardiac Cellular Electrophysiology and e-Cardiology and of the European Heart Rhythm Association. It is 1 of 13 official journals of the European EP Europace is a peer-reviewed medical journal published by Oxford University Press that publishes research articles about the study and management of cardiac arrhythmias, cardiac pacing, and cardiac cellular electrophysiology 1622a1544f

It is important for patients not to eat or drink for up to 12 hours before the procedure. This is to prevent

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vomiting, which can result in aspiration, and also cause severe bleeding from the insertion site of the catheter. Failure to follow this simple preparation may result in dangerous consequences. In general, small amounts of water can be consumed up to 2 hours before the exam. Patients should try to schedule the exam at a time when they will be having symptoms and will not need to drive for 2 to 3 days. 1622a1544f == Clinical cardiac electrophysiology == 1622a1544f

Electrophysiology 'amber' [see the etymology of "electron"]; φύσις, physis, 'nature, origin'; Electrophysiology (from Ancient Greek: ἤλεκτρον, romanized: ēlektron, lit. Recordings of large-scale electric signals from the nervous system, such as electroencephalography, may also be referred to as electrophysiological recordings. In neuroscience, it includes measurements of the electrical activity of neurons, and, in particular, action potential activity. They are useful for electrodiagnosis and monitoring. It involves measurements of voltage changes or electric current or manipulations on a wide variety of scales from single ion channel proteins to whole organs like the heart. 'amber' [see the etymology of "electron"]; φύσις, physis, 'nature, origin'; and -λογία, -logia) is the branch of physiology that studies the electrical properties of biological cells and tissues. Electrophysiology (from Ancient Greek: ἤλεκτρον, romanized: ēlektron, lit 1622a1544f

== History == 1622a1544f == Abstracting and indexing == 1622a1544f If the reason for... 1622a1544f All cardiologists in the branch of medicine study the disorders of the heart, but the study of adult and child heart disorders each requires different training pathways. Therefore, an adult cardiologist (often simply called "cardiologist") is inadequately trained to take care of children, and pediatric cardiologists are not trained to treat adult heart disease. Surgical aspects outside of cardiac rhythm device implant are not included in cardiology and are in... 1622a1544f == Specializations == 1622a1544f The journal is abstracted and indexed in Current Contents, EMBASE, MEDLINE, Science Citation Index, and Scopus. According to the Journal Citation Reports, the journal has a 2024 impact factor of 22.3. 1622a1544f

Heart Rhythm It is the official journal of the Heart Rhythm Society, the Cardiac Electrophysiology Society, and the Pediatric & Congenital Electrophysiology Society. Other sections include contemporary reviews, unique case reports, viewpoints, Hands On, images, creative concepts, and editorial commentaries. New sections in 2024 include Iconic Figures and Top Stories. Its major Heart Rhythm is a peer-reviewed medical journal published by Elsevier that covers the study and management of cardiac arrhythmia. Its major focus is research and therapy of heart rhythm disorders, including mechanisms and electrophysiology, clinical and experimental, genetics,

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ablation, devices, drugs, and surgery. official journal of the Heart Rhythm Society, the Cardiac Electrophysiology Society, and the Pediatric & Congenital Electrophysiology Society 1622a1544f

Electrophysiological (EP) studies are performed to assess complex arrhythmias, elucidate symptoms, evaluate abnormal electrocardiograms, assess risk of developing arrhythmias in the future, and design treatment. These procedures include therapeutic methods (typically radiofrequency ablation, or cryoablation) in addition to diagnostic and prognostic procedures. Other therapeutic modalities used in this field include antiarrhythmic drug therapy and implantation of pacemakers, implantable cardioverter-defibrillators and cardiac... 1622a1544f == Preparation == 1622a1544f

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