

# CARDIAC ELECTROPHYSIOLOGY AND CATHETER ABLATION OXFORD SPECIALIST HANDBOOKS I

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**How competitive is cardiac electrophysiology?** A recent report from the National Resident Matching Program (NRMP)<sup>1</sup> showed that approximately 40% of the 130 clinical cardiac electrophysiology fellowship positions in the U.S. remain unfilled. According to the same report, 99% of cardiovascular disease fellowship positions were filled.

**What is the difference between ablation and EP study?** What is an electrophysiology study and catheter ablation? An electrophysiology study is a test to measure the electrical activity of the heart and to diagnose arrhythmia or abnormal heart rhythms. Catheter ablation is a procedure performed to treat some types of arrhythmia.

**What is an EP study in cardiology?** An electrophysiology study (EP study) is a test used to evaluate your heart's electrical system and to check for abnormal heart rhythms. Natural electrical impulses coordinate contractions of the different parts of the heart.

**What catheters are used in electrophysiology?** Electrophysiology catheters are specialised Millar Mikro-Tip Catheters, which are designed to be used with compatible stimulators/amplifiers (purchased separately) to perform standard electrophysiology studies.

**What is the difference between a cardiologist and an electrophysiologist?** What is the difference between a cardiologist and an electrophysiologist? An

electrophysiologist is a specialized type of cardiologist. A cardiologist treats heart disorders and diseases. An electrophysiologist is an expert in your heart's electrical system that controls your heart rhythm.

**How much does a clinical cardiac electrophysiologist make in the US?** The average cardiology electrophysiology salary in the USA is \$98,376 per year or \$47.30 per hour. Entry level positions start at \$50,000 per year while most experienced workers make up to \$200,000 per year.

**What is the difference between a catheter ablation and a cardiac ablation?** Facts About Catheter Ablation Also known as a cardiac ablation or radiofrequency ablation, this procedure guides a tube into your heart to destroy small areas of tissue that may be causing your abnormal heartbeat. Not everyone with a heart arrhythmia needs a catheter ablation.

**How serious is heart ablation surgery?** Ablation has risks, although they are rare. They include stroke and death. If ablation doesn't work the first time, you may choose to have it done again.

**How many times can you have heart ablation?** There isn't a limit on the number of times a patient can have a catheter ablation. A patient can ask for a catheter ablation as many times as they want. Of course, we wouldn't recommend to keep having a catheter ablation again and again, if it's not succeeding.

**What are the disadvantages of electrophysiology?** Weaknesses of in vivo electrophysiology Laminar probes are expensive and use in chronic longitudinal recordings prevents reuse of the electrode. Acute recordings with laminar probes allow reuse but limits analysis to single sessions rather than longitudinal recordings and usually requires very stable head-fixation.

**How much does an electrophysiology study cost?** The cost of an EP study in India can vary widely depending on several factors, including the location of the hospital, the experience of the electrophysiologist, and the complexity of the procedure. On average, you can expect to pay anywhere from around ₹80,000 to ₹1,60,000 for an EP study in India.

**Do and don'ts after heart ablation?** Do not do strenuous exercise and do not lift, pull, or push anything heavy until your doctor says it is okay. This may be for several days. If the catheter was placed in your groin, try not to walk up stairs for the first couple of days.

**Which vein is used for catheter ablation?** Where is the catheter inserted for cardiac ablation? In most cases, your provider inserts the catheter into a large vein or artery in your groin. Sometimes, providers choose to use a vein in your arm or neck instead. Your provider will decide on the best location based on your anatomy and condition.

**What is the electrophysiology study and catheter ablation procedure?** An electrophysiology (EP) study and catheter ablation procedure is performed to evaluate and treat cardiac arrhythmias, or abnormal heart rhythms. Abnormal heart rhythms can occur in children, teens and young adults with or without congenital heart disease.

**Where is the catheter placed in the EP study?** EP study involves the placement of multipolar electrode catheters in the heart, typically in the right side, which generates intracardiac electrograms (EGMs) followed by programmed electrical stimulation (PES) to trigger a focus arrhythmia.

**What is the highest degree in cardiology?** A Doctorate of Medicine in Cardiology is the highest degree a physician can earn. In addition to medical school, physicians in this field can apply to become permanent lecturers or private teachers in their specialty.

**What are the two types of cardiologists?** General cardiology – Cardiologists who treat patients at risk for cardiovascular disease. These cardiologists will create treatment plans to help minimize a patient's risk of a heart attack. Invasive cardiology – Cardiologists that perform cardiac catheterization to check for blocked arteries or damaged heart valves.

**Do electrophysiologists prescribe medication?** They also may prescribe medication or make lifestyle recommendations. An electrophysiologist may diagnose and treat conditions such as: Bradycardia. A heartbeat that is too slow.

## **What is the highest paid cardiologist?**

**Do cardiac electrophysiologists perform surgery?** They commonly use electrocardiograms (EKGs), exercise tests and echocardiograms as diagnostic tools. They can also perform or recommend certain procedures, such as valve replacement, cardiac catheterization to diagnose and treat coronary artery disease, and heart surgery.

## **Where do cardiologists get paid the most in the US?**

**Is it hard to become an electrophysiologist?** To pursue a career as an electrophysiologist, you must complete medical school, a residency, and further years of study in the field of electrophysiology. Additional qualifications and skills may be useful when dealing with patients and cardiologists in your department.

**Is there a shortage of electrophysiologists?** The growing shortage has been further exacerbated by the long-term effects and heart complications resulting from COVID-19. This shortage extends beyond general cardiology, affecting subspecialties like cardiac imaging and electrophysiology.

**Is cardiac electrophysiology difficult?** 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 subspecialties of modern medicine.

**How big is the cardiac electrophysiology market?** The global electrophysiology devices market size was estimated at USD 10.07 billion in 2023 and is expected to grow at a CAGR of 15.1% from 2024 to 2030.

## **The Man Who Lied to His Laptop: What We Can Learn About Ourselves from Our Machines**

**By Clifford Nass**

In his groundbreaking book, "The Man Who Lied to His Laptop," psychologist Clifford Nass delves into the fascinating relationship between humans and their machines. Nass argues that our interactions with technology shape our perceptions of

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ourselves and the world around us. Through extensive research, he explores the ways in which our laptops and other devices can influence our thoughts, feelings, and behaviors.

**1. Can our machines make us more dishonest?** Nass's research suggests that yes, our machines can make us more dishonest. In one study, participants were asked to answer a series of questions about their online behavior. When they were using a computer or tablet, they were more likely to lie about their behaviors than when they were answering the same questions on paper. Nass attributes this to the anonymity and perceived lack of accountability that technology provides.

**2. Do our machines make us more or less social?** According to Nass, our machines can both make us more and less social. On the one hand, social media platforms can connect us with friends and family around the world. On the other hand, excessive use of technology can lead to social isolation and loneliness. Nass emphasizes the importance of balancing our online and offline interactions for well-being.

**3. Can our machines make us more efficient?** Nass acknowledges that technology can enhance our efficiency in certain tasks. However, he cautions that it can also lead to multitasking and overstimulation, which can impair our ability to focus and complete tasks effectively. Nass suggests that we prioritize the most important tasks and use technology as a tool to support our efforts rather than as a distraction.

**4. How do our machines affect our sense of identity?** Nass argues that our machines can influence our sense of identity through the way they shape our interactions with others and our perception of ourselves. For example, social media platforms can create a sense of belonging and validation, but they can also lead to self-comparison and negative self-esteem. Nass encourages us to use technology in a way that supports our positive self-concept rather than undermines it.

**5. What can we learn from our machines?** Nass believes that our machines can teach us valuable lessons about ourselves. By observing our behaviors and interactions with technology, we can gain insight into our own motivations, values, and vulnerabilities. Nass urges us to reflect on how our use of technology impacts our lives and to make conscious choices about how we interact with our machines.

## **The World War II GI: US Army Uniforms 1941-45 in Colour Photographs**

### **An Intriguing Glimpse into the Fabric of History**

During World War II, the United States Army underwent a significant transformation in its uniforms, reflecting the technological advancements and changing needs of the conflict. These uniforms played a vital role in protecting and equipping soldiers on the front lines. Through stunning colour photographs, we can delve into the details and significance of these iconic garments.

#### **Q: What were the key features of the M1941 Field Uniform?**

**A:** The M1941 Field Uniform introduced a more functional and streamlined design compared to previous iterations. Its distinctive features included a cotton herringbone twill fabric, button-down pockets, and a wide-brimmed fatigue hat. Soldiers wore these uniforms in combat zones and during training.

#### **Q: How did the M1943 Field Uniform differ?**

**A:** The M1943 Field Uniform was designed to address the shortcomings of the M1941 uniform. It incorporated a heavier-weight fabric, shoulder straps, and a shorter coat. It also introduced a helmet liner for additional head protection. This uniform became the standard for US Army combat troops for the remainder of the war.

#### **Q: What were the specialized uniforms worn by paratroopers and tankers?**

**A:** Paratroopers wore specialized uniforms designed for airborne operations. These included the M1942 Paratrooper Jump Suit, which featured a reinforced seat and pockets for carrying equipment. Tankers, on the other hand, wore uniforms made of fire-resistant Nomex material, which protected them from burns and explosions.

#### **Q: How did the Army's uniforms evolve during the Pacific Campaign?**

**A:** The tropical environment of the Pacific Campaign necessitated changes to the standard uniforms. Soldiers wore lightweight Jungle Utility Uniforms made of cotton and rayon, which were more breathable and comfortable in hot and humid conditions. Additionally, they carried mosquito nets and helmet covers to protect

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themselves from disease and insects.

**Q: What were the symbolic elements of the GI's uniform?**

**A:** Beyond their practical functions, the GI's uniforms also carried significant symbolic weight. The eagle and star insignia on the helmet represented the American flag, while the division patches and unit crests displayed the soldiers' affiliation and pride. The uniform as a whole became a symbol of American patriotism and the nation's commitment to the war effort.

Through these colour photographs, we gain an intimate understanding of the uniforms worn by US Army soldiers during World War II. These garments not only protected and equipped the troops but also served as a powerful reminder of the sacrifice and determination that defined that era.

**Syspro Orientation Training Guide: Search Functionality**

**Q: How can I search for a specific document or file within Syspro?**

**A:** To initiate a search, click on the "Search" icon located in the top-right corner of the Syspro window. Enter your search criteria in the "Search for" field, then click the "Search" button or press Enter.

**Q: Can I use wildcards in my search?**

**A:** Yes, you can use the asterisk (\*) *wildcard to represent any number of characters.* For example, searching for "inv" will return all documents containing the string "inv" anywhere in the document name.

**Q: How do I narrow down my search results?**

**A:** You can refine your search by using the "Field" drop-down menu to specify which field or fields to search within. Additionally, you can use operators such as "AND" and "OR" to combine search terms and specify logical conditions.

**Q: Can I save my search criteria for future use?**

**A:** Yes, you can create saved searches by clicking on the "Save Search" button.

Enter a name for your search, then click "OK" to save it. You can access your saved

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searches from the "Saved Searches" tab.

**Q: Where can I find more information on Syspro's search functionality?**

**A:** The Syspro Orientation Training Guide provides comprehensive documentation on all aspects of Syspro, including the search functionality. You can access the guide from within Syspro by clicking on the "Help" menu and selecting "Orientation Training Guide."

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