



# Cardiac Electrophysiology: A Visual Guide for Nurses, Techs, and Fellows

By Paul D. Purves, George J. Klein, Peter Leong-Sit, Raymond Yee, Lorne J. Gula, Andrew D. Krahn

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*The Essential Visual Guide to Basic Cardiac Electrophysiology*

*Cardiac Electrophysiology: A Visual Guide for Nurses, Techs, and Fellows* fulfills the need of allied health personnel and new fellows for a practical, hands-on pictorial guide that clearly illustrates the essential concepts of clinical cardiac electrophysiology. More than 70 high-quality tracings, diagrams, fluoroscopic images, and electroanatomic maps accompanied by detailed discussions of each image offer a fundamental understanding of cardiac electrophysiology equipment, principles, and procedures:

- Catheter placement, hardware connections, and intracardiac signals
- Normal electrogram sequences associated with sinus rhythm
- Methodologies used to uncover the mechanisms of common clinical tachycardias

In addition, commentaries provided throughout the book introduce more advanced principles for readers who want to delve further into the EP study.

Authored by a team of experts, *Cardiac Electrophysiology: A Visual Guide for Nurses, Techs, and Fellows* is an invaluable resource for a complex technology, providing superb guidance in acclimating new trainees and personnel to the EP laboratory and empowering them with the knowledge and skills needed to practice clinical electrophysiology.

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## **Editorial Review**

### **Review**

"Paul Purves is a unique EP technologist who has coupled his technical expertise and knowledge of EP with a passion for understanding the underpinnings of the study, and teaches what he knows to other technologists, nurses, and indeed physicians. He is a gifted teacher who has coordinated and assembled the collective wisdom of our team into this reader-friendly and unique visual guide to performing and understanding the arrhythmia study. It surpasses the needs of a simple introduction and will be useful to all levels of trainee who want to understand what is really going on and move to the next level."

--**George J. Klein, MD, FRCP(C)** --From the Foreword

### **Description**

Practitioners new to the field of electrophysiology need a training manual that illustrates concepts. Using large, easy-to-read diagrams and illustrations, this book helps to meet this need.

### **Purpose**

Initially designed as a workbook with a collection of tracings to illustrate the basic concepts of electrophysiology to students and electrophysiology fellows, this publication has expanded to become a more comprehensive book and training manual. Large, easy-to-read illustrations help explain the topics.

### **Audience**

It is intended to be used by nurses, technologists, students, and electrophysiology fellows performing diagnostic studies used in the treatment of tachycardia. All of the contributing authors work in the division of cardiology at the University of Western Ontario.

### **Features**

The book begins with a discussion of the basic concepts of catheter placement, signal processing, basic conduction intervals, conduction velocity and refractoriness. It then provides more descriptive detail on supraventricular tachycardia diagnostic studies and progresses to more advanced rhythm tracings. The large, colorful, easy-to-read illustrations are the best feature of this book. The supplemental commentaries accompanying each tracing also are very useful for beginning practitioners.

### **Assessment**

This would be very useful as a training manual or reference for beginning practitioners. I anticipate that it would be kept in an electrophysiology lab so that staff could refer to the illustrations and descriptions.

----**Doody Review by Elaine Hannigan, RN, MSN** (Purdue University School of Nursing)

### **About the Author**

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