<<CARTO系统临床应用指南>>

图书基本信息

书名：<<CARTO系统临床应用指南>>

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前言

The progression of catheter ablation is tremendous and miraculous. Recently, avariety of complex arrhythmias can be conquered by electrophysiology （EP） physiciansdue to catheter ablation. But the conventional catheter, ablation with fluoroscopy isinaccurate, cumbersome, and associated with high radiation exposure for both patientsand physicians. A new three dimensional electroanatomical navigation system, OARTOSystem, finally shed the light on the future of EP. For the better use and furtherunderstanding of OARTO System, we write the book by the experience summarization ofOARTO clinical application in our EP center.The OARTO Navigation System was the world's first 3D electroanatomical navigationsystem. It provides unparalleled views of the electrical activity of the heart through real-time data on 3D, color-coded cardiac maps. It also ensures precise real-time tracking ofcatheter location, allowing for safe and accurate diagnosis, shortening the learning curve.Firstly, as is known, "more complex for arrhythmia, more detailed for mapping". Soonly precise cardiac mapping can guide us on the road of truth to the genesis ofarrhythmia. But the conventional cardiac mapping technology cannot meet the needs,especially for complex arrhythmia,hemodynamic compromise,and nonsustainedtachyarrhythmia. However, the CARTO System utilizes current technological advances to provide you with. （Electroanatomic mapping. The3D geometry of cardiac chamber is reconstructed in real time with the electrophysiological information superimposed on the map. Rapid diagnosis of clinical conditions use easy-to-read 3D maps. The system enables delineation of the reentry and trigger mechanism that is the basis for tachyarrhythmias. （Activation mapping. It provides activation propagation map by integrating the 3D cardiac map and intracardiac electrogram. （Substrate mapping. The scar area, low-voltage area and normal myocardium can be displayed directly through voltage map. It helps to understand the myocardial viability, mark the distribution of scar, and assist the analysis for the mechanism of arrhythmia. Secondly, catheter ablation has been applied to treatment of atrial flutter and fibrillation, recently. However, the ablation lesions in these cases are usually more complex than the regular point ablations for other arrhythmias. Thus, 3D localization, which means providing precise 3D heart anatomy as well as real-time tracking of catheter location, and allowing accurate and reproducible repositioning of the catheter tip on top of a previously defined target, is more useful. The CARTO System just gives us this vivid and accurate 3D image of cardiac chamber, and guides us to visualize the future of advanced EP.

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内容概要

The OARTO Navigation System was the world's first 3D electroanatomical navigation system. The book was written by a group of experts in clinical electrophysiology. The companions wrote the book to introduce the principle, process, basic skills and multiple functions of CARTO System. There is also a large amount of OARTO images in the book for better understanding and more practical. This is the merely professional book about the clinical application of CARTO System. The book meets the needs of cardiologists and specialists to stay abreast of the electrophysiology field.

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章节摘录

插图：

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编辑推荐

《CARTO系统临床应用指南(英文版)》The progression of catheter ablation is tremendous and miraculous. Recently, a variety of complex arrhythmias ' can be conquered by electrophysiology(EP)physicians due to catheter ablation. But the conventionaI catheter. ablation with fluoroscopy is jnaccurate, cumbersome, and associated with high radiation exposure for both patients and physicians. A new three dimensionaI electroanatomical navigation system CARTO System, finally shed the light on the future of EP. For the better use and further understanding of CARTO System, we write the book by the experience summarization of CARTO clinicaI application in our EP center.

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