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Increase safety in interventional arrhythmia procedures using ecadiology tools

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Introduction & Aim: Complications related to medical interventions imply an increase in health expenditure, morbidity and mortality that could be prevented by the implementation of an appropriate risk prevention protocol. The aim of our study was to design several practical checklist APPs (applications) for arrhythmia units to reduce complications and ensure that clinical practice guidelines are followed.

Methodology: We have design and develop similar APPs for arrhythmia procedures who include a checklist with integrate logic and other significant nursery clinical data like informed consent, allergies, dental prostheses, INR, current medication, weight, height, peripheral venous accesses, administered drugs, vital signs, heart rhythm, synchronization and medical staff.

Result: Four APPs have been made and submitted in AppleStore: CARDIOVERSION, TILT TABLE, ARRITMILAB used electrophysiology lab during implants and ablations and finally, FARMALAB used in pharmacological test, others APPs are in development. We have been using our APPs from November 2014 onwards until January 2018, including 1631 patients. The time required for every intervention is not increased and all selected clinical data is checked before and during procedure. In addition, the APP provides quality indicators and statistics for management.

Conclusion: These new applications are intuitive, requiring a minimum of learning time for daily use. The implementation has a low economic cost compared to the advantages in risk prevention of interventional procedures. It is also possible to extract quality indicators and provide data for good management. These APPs are an essential tool ensuring that risk prevention protocols in interventional procedures are followed.

Biography

Enrique García Campo has completed his Bachelor of Medicine from Zaragoza University. He is the Director of Arrhythmia Unit, a premier cardiology service organization. He has published more than 25 papers in reputed journals.

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