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Key Concepts Wearable Cardioverter-Defibrillator Therapy for the Prevention of Sudden Cardiac Death

- 1. Sudden cardiac death (SCD) remains an important and preventable cause of death.
- 2. Despite their obvious benefits, current defibrillator technologies have limitations and risks.
- 3. Transient contraindications to implanted device therapy commonly arise in clinical practice.
- 4. Wearable cardioverter-defibrillators (WCDs) can serve as a temporary means of preventing arrhythmic death without the need for bystander response to cardiac arrest.
- 5. WCDs use vector analysis of surface electrocardiographic signals to detect life-threatening ventricular arrhythmias.
- 6. Patient compliance is an integral part of successful WCD therapy.
- Observational data suggest that the WCD can successfully identify and terminate ventricular arrhythmias.
- 8. WCD use is reasonable when there is a clear indication for an implantable cardioverter-defibrillator (ICD) in the presence of a transient contraindication to an ICD.
- 9. WCD use may be appropriate in clinical circumstances associated with transient increased arrhythmic risk.
- 10. Risk counseling and discussion of patient preferences are integral parts of patient care and WCD therapy.

Piccini JP Sr, Allen LA, Kudenchuk PJ, Page RL, Patel MR, Turakhia MP; on behalf of the American Heart Association Electrocardiography and Arrhythmias Committee of the Council on Clinical Cardiology and Council on Cardiovascular and Stroke Nursing. Wearable cardioverter-defibrillator therapy for the prevention of sudden cardiac death: a science advisory from the American Heart Association [published online ahead of print March 28, 2016]. Circulation. doi: 10.1161/CIR.000000000000394.





