

# AHA/ACC/HRS Guideline

For Management of Patients With Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death<sup>1</sup>

Recommendations for Wearable Cardioverter Defibrillators (WCD)	Class of Recommendation	Level of Evidence
In patients with an ICD and a history of SCA or sustained VA in whom removal of the ICD is required (as with infection), the WCD is reasonable for the prevention of SCD.	IIa	B-NR
In patients at an increased risk of SCD but who are not ineligible for an ICD, such as awaiting cardiac transplant, having an LVEF of 35% or less and are within 40 days from an MI, or have newly diagnosed NICM, revascularization within the past 90 days, myocarditis or secondary cardiomyopathy or a systemic infection, WCD may be reasonable.	IIb	B-NR

# Recommendations on WCD Therapy

## Year Published Document

**2017** **AHA/ACC/HRS Guideline for Management of Patients With Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death<sup>1</sup>**

WCD is a class II recommendation for a broad range of patients including those with an LVEF of 35% or less and are within 40 days from an MI, or have newly diagnosed NICM, revascularization within the past 90 days, myocarditis or secondary cardiomyopathy or a systemic infection, and ICD explant patients.

**2016** **ESC Guidelines for the Diagnosis and Treatment of Acute and Chronic Heart Failure<sup>2</sup>**

WCD is a class II recommendation for patients with heart failure who are at risk of sudden cardiac death for a limited period or as a bridge to an implanted device.

**2015** **ESC Guidelines for Management of Patients with Ventricular Arrhythmias and Prevention of Sudden Cardiac Death<sup>3</sup>**

WCD is a class II recommendation for patients with poor systolic function until they are candidates for ICD therapy, or in patients after inflammatory heart diseases with residual severe LV dysfunction and/or ventricular electrical instability.

**2006** **International Society for Heart and Lung Transplantation Guidelines for the Care of Cardiac Transplant Candidates<sup>4</sup>**

WCD is a class I recommendation.

1 Al-Khatib, S et al. 2017 AHA/ACC/HRS guideline for management of patients with ventricular arrhythmias and the prevention of sudden cardiac death: A report of the American College of Cardiology/American Heart Association Task Force on clinical practice guidelines and the Heart Rhythm Society. Circulation. 2017;CIR.0000000000000549.

2 Ponikowski P et al. ESC guidelines for the diagnosis and treatment of acute and chronic heart failure. Eur Heart J 2016;37(27):2129–2200.

3 Priori S, Blomstrom-Lundqvist C, Mazzanti A, et al. Euro Heart J 2015., 2015 ESC guideline for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death.

4 Gronda E et al. Heart rhythm considerations in heart transplant candidates and considerations for ventricular assist devices: International society for heart and lung transplantation guidelines for the care of cardiac transplant candidates 2006. J Heart Lung Transplant 2006;25(9):1043–1056.