



Policy Number: PA.100.MPC
Last Review Date: 08/26/2021
Effective Date: 10/01/2021

PA.100.MPC - Subcutaneous Implantable Cardiac Defibrillators (S-ICDs)

Maryland Physicians Care considers **Subcutaneous Implantable Cardiac Defibrillators (S-ICDs)** medically necessary for ALL of the following indications:

1. Candidate for ICD implantation based on ACC/AHA/HRS and CMS indications
2. No indication of cardiac rhythms requiring pacing
3. Passed the S-ICD Electrogram (EGM) screening
4. Any of the following conditions putting the member at high risk for complications from endovascular ICD implantation:
 - a. Prior device infection
 - b. Active systemic infection (bacteremia, sepsis, open ulcers, etc.) or prior systemic infection related to and necessitating implantable device removal
 - c. Vascular occlusion
 - d. Member on dialysis
 - e. Hypercoagulable state
 - f. Member < 50 years old with the expected longevity of ICD placement over 10 years duration

Note: The S-ICD system must have FDA approval and be used only for FDA approved indications.

Background

Sudden cardiac death can be defined as a death due to cardiac causes within one hour of the onset of symptoms. Ventricular fibrillation (VF) or ventricular tachycardia (VT) are the leading causes for sudden cardiac death. The implantable automatic defibrillator is an electronic device designed to detect and treat life-threatening tachyarrhythmias, VF and VT. The device consists of a pulse generator and electrodes for sensing and defibrillating.

According to the FDA, the S-ICD System is intended to provide defibrillation therapy for the treatment of life-threatening ventricular tachyarrhythmias in patients who do not have symptomatic bradycardia, continual (incessant) ventricular tachycardia, or spontaneous frequently recurring ventricular tachycardia that is reliably terminated with anti-tachycardia pacing. The S-ICD monitors cardiac rhythms and delivers defibrillation

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when ventricular tachyarrhythmias are detected. After delivery of a shock, the S-ICD provides post-shock bradycardia pacing therapy when needed.

Code:

33270: Insertion or replacement of permanent subcutaneous implantable defibrillator system, with subcutaneous electrode, including defibrillation threshold evaluations, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters, when performed

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