

## **CIED (Cardiac Implantable Electronic Devices) - Surgical Patients - Summary Clinical Guideline**

Reference no.:CG-CARDIO/2023/015

Guidance on the use of the safe planning and delivery of procedures using diathermy for patients with cardiac implantable electronic devices i.e., pacemakers and defibrillators/pacemakers and the deactivation of defibrillator (ICD) using a magnet taped over the device. In a patient with an ICD, the magnet response will always be to deactivate an ICD and the pacing behaviour will not change to asynchronous mode. If an asynchronous mode of pacing is manifest following application of a magnet, it is highly unlikely that the device is an ICD, and the device is a pacemaker only. ECG/pulse monitoring is always essential when diathermy is used.

The removal of the magnet from any device will restore it to normal function.

It is recommended that patients with temporarily deactivated ICDs have continuous ECG monitoring, and during the peri-operative period are accompanied by personnel skilled in early detection and treatment of arrhythmias. In high-risk patients (e.g., pacemaker-dependant or ICD patients), or if access to the torso will be difficult during the procedure, it is recommended to place transcutaneous pacing/defibrillation pads prior to non-cardiac surgery.