### Magnetic Resonance Imaging for patients with cardiac implantable electronic devices

**MR Conditional**
- Clinically appropriate request to General Radiology
- Identify CIED MR Conditional labelling of system and each component and ensure all conditions can be met
- Comprehensive scan protocol according to MR conditions
- Scan booked including appropriate staff available on day of scan

**MR Unlabelled**
- Confirm standard MR safety screening
- CIED interrogation and programming as per manufacturer
- Monitoring during scan: Pulse oximetry +/- ECG
- External defibrillator (ideally with transtelephonic pacing available)
- Routine CIED follow-up unless large lead parameter or battery voltage changes

**Before scan**
- Risk assessment**
  - Device related
  - MR field related
  - Patient related
  - Lower
  - Intermediate
  - Higher
- Consider alternative imaging modalities
- Discussion of risk-benefit and/or obtain patient consent**

**Before scan (additional steps)**
- Confirm and/or obtain consent†
- BLS trained staff present in department
- ACLS staff available on site
- MR Scan acquisition as per MR conditions
- CIED interrogation and programming
- Image review to confirm study complete
- CIED interrogation and re-programming to normal settings

**Day of scan**
- BLS trained staff present in department
- Staff to programme the CIED in department
- ACLS trained staff in hospital
- MR Scan acquisition as per locally agreed protocols

**Stakeholders:**
- Referrer
- Cardiologist
- Radiologist
- MR Safety Expert
- Cardiac Physiologist
- MR Radiographer
- Administrator