

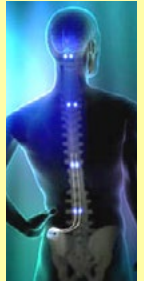


# SMRT MRI Safety Active Implanted Biomedical Devices

Does your patient have an implanted device that is electronic, programmable, or provides active therapy?

Need to obtain the following information:

- Manufacturer name
- Model name and/or number
- Serial number



Does the active implanted device have MRI safety information?

- 'MR Conditional'
- 'MR Unsafe'
- Not tested or labeled for MRI
- FDA warning



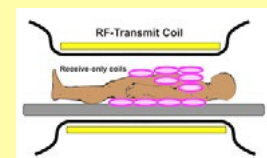
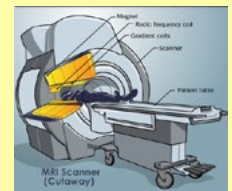
Risk versus Benefit decision is conducted by the MR Physician

- Does the device require special programming or monitoring?
- Any scanning limitations?
- Are there exclusion zones?
- Do you have the personnel and necessary equipment to meet the 'MR conditional' labeling requirements of the device?



Device labeling 'MR conditions' necessary to fulfill can include:

- Field strength ( $B_0$ )
- Maximum spatial gradient level ( $B_0$ )
- RF coil (transmit-receive coil or whole body transmit coil)
- SAR and/or  $B1+rms$  levels
- Time varying gradient magnetic fields (dB/dt or slew rate)
- Length of each MRI acquisition/scan



Is your MRI suite equipped and ready to handle adverse events?

- Overriding safety warnings can result in injuries and potentially life-threatening events

