



Training Agenda

Essential MR Safety: Next Steps

OBJECTIVES

This 7 hour course builds upon the Essential MR Safety Course and includes significant updates, exercises and workshops on B1+rms, pacemaker function and scanning, MR safety policy writing, suite layout for safety plus updates and a review of the Essential MR Safety material. A 30 minute multiple choice exam is also included. The course is designed to be suitable for delegates who have previously attended Essential MR Safety and also for first time attendees. It has been specifically tailored for New Zealand healthcare professionals working on the Siemens MR platform.

AGENDA

DAY 1

- 5:00 pm Registration
- 5:30 pm
 - § Fields and forces: basic physical interactions
 - § Bioeffects review and update: B0 B1 dB/dt
 - § SAR & B1+rms masterclass
- 7:15 pm Break
- 7:30 pm
 - § Pregnancy and contrast agent safety update
 - § Other hazards: acoustic noise, cryogenes
 - § Putting actions into words: writing a MR safety policy (exercise)
- 9:00 pm Finish

DAY 2

- 5:00 pm
 - § Passive resistance: scanning passive implants
 - § Electrical resistance: Active implants- pacemaker function, MR conditional and "legacy" pacemakers, SAR and lead heating, neurostimulators.
 - § Would you scan this? Understanding the conditions, off-label scanning exercises on spatial gradients, SAR and B1+rms
- 7:00 pm Break
- 7:15 pm
 - § Location, Location, Location: MRI suite design for safety (exercise)
 - § Feedback on policy-writing exercise
 - § Next steps: the 3 roles model in New Zealand - discussion
 - § MCQ test (results will be fed back to candidates individually)
- 9:00 pm Finish