

SMRT

SOCIETY FOR MR
RADIOGRAPHERS & TECHNOLOGISTS
A Section of the ISMRM

A WORLD
OF KNOWLEDGE
FOR MAGNETIC RESONANCE
PROFESSIONALS

MRI Safety Week Quiz Question 2

This IV pole is labelled with the green **MR Safe** sticker and the pump attached to the pole does not have a MR safety label/sticker.

Question: Which of the following options would help avoid a potential MR safety accident?

- a) Assume the pump is not safe to take into the MRI scanner room (Zone 4) and remove it from the pole
- b) Assume that it is safe to use in the MRI scanner room (Zone 4) because someone has peeled the **MR Conditional** sticker off the pump
- c) Assume that because the pump is attached to the pole, that the entire unit is **MR Safe** and can be used safely in the MRI scanner room (Zone 4)
- d) Plug the pump into a power source to ensure it is always charging
- e) Options a & d



This IV pole is labelled with the green **MR Safe** sticker and the pump attached to the pole does not have a MR safety label/sticker.

Question: Which of the following options would help avoid a potential MR safety accident?

- a) Assume the pump is not safe to take into the MRI scanner room (Zone 4) and remove it from the pole
- b) Assume that it is safe to use in the MRI scanner room (Zone 4) because someone has peeled the MR Conditional sticker off the pump
- c) Assume that because the pump is attached to the pole, that the entire unit can be used safely in the MRI scanner room (Zone 4)
- d) Plug the pump into a power source to ensure it is always charging
- e) Options a & d



Learning points:

- Ferrous IV pumps are a risk for projectile accidents as they are attracted to the strong static magnetic field of the MRI scanner
- Avoid combining **MR Safe**, **MR Conditional** & **MR Unsafe** items in one unit. In this case, the pump should be removed from the IV pole to avoid accidental use in the MRI scanner room (Zone 4)
- You should always be aware of manufacturer MR safety recommendations
- **Correct Answer: a**

SMRT

SOCIETY FOR MR
RADIOGRAPHERS & TECHNOLOGISTS
A Section of the ISMRM

A WORLD
OF KNOWLEDGE
FOR MAGNETIC RESONANCE
PROFESSIONALS

Acknowledgments

Contributors: The SMRT Safety Committee (2018)

Disclaimer: This program was developed by the SMRT Safety Committee to provide education to promote safety in the MRI environment. The information presented does not replace any MRI guidelines or site specific policies & procedures.

MRI Safety Resource List

- **ISMRM & SMRT MR Safety Resources: www.ismrm.org/mr-safety-links**
- ACR White paper on MR Safety (2013)
- IEC MRI Safety Recommendations (2014)
- MHRA Safety Guidelines for MRI Equipment in Clinical Use (2015)
- EU Directives on MR safety (2013)
- RANZCR MRI Safety Guidelines
- www.fda.gov: Magnetic Resonance Imaging (MRI Safety)
- www.mrisafety.com