

MRI York viva September 2010

1. What are the safety considerations when installing a new system? (wanted to talk about shielding, and not putting it near a lift shaft) What if it was a 3T and not a 1.5T?
2. What are the pros and cons of increasing field strength?
3. How does M_z vary during an inversion recovery sequence?
4. Examiner showed T2 weighted sagittal images, one through the spine and brain, another through a prostate. What are the images of and what weighting are they?
5. If $TE=80$ and $TR=1800$, what sequence is this and what weighting do you get? (apparently the fact that flip angle is not mentioned suggests that it's a SPE not a GE)
6. What do you do with a pregnant patient?
7. What does SAR depend on?
8. Draw the pulse diagram for a SPE.
9. How does inhomogeneity effect $T2^*$?

External moderator

What would you need if you were setting up a generic new facility? (wanted to hear the words 'ethics approval' and 'literature review')