

MEDNOVUS™

Transcript of Dr. Emanuel Kanal video excerpt.

Video available at <http://mrimetaldetector.com/blog/?p=20>

Transcript of an audio recording made of Dr. Emanuel Kanal's presentation, entitled "MR Safety Update, 2008", made at the 2008 AHRA annual meeting in July of 2008.

"There's another topic I'd like to introduce to you rather briefly. I won't have time to demo it, but I would encourage you to demo it to yourselves. They have ferromagnetic scanning equipment. Now I think metal detectors have absolutely no role in MR environments at all. They're useless. They're a waste of time. They don't find anything that's worth anything in real life. They're just as useless in MR environments as they are in airports. But there's a new kind of metal detector in the last five or so years called a ferromagnetic detector. Now ferromagnetic detectors detect only metals that find themselves – in a sense – attracted to magnetic fields. Now THAT'S an entirely different story and I, as well as the ACR Safety Committee as well as –you'll hear in a moment – the Joint Commission... Now that is something that I think is appropriate for us to be aware of. And frankly I use them and suggest that others use them in their screening.

This is from Mednovus corporation. This is when it's silent and this is when it's alarming – it changes red, lights going off, tells you which part of it is alarming and makes all these noises and you want to throw a shoe at it – as long as it has no metal tacks on the shoe. And this is also from Mednovus corporation this is a hand-held ferromagnetic scanner. We purchased – I believe – 17 of these for the University of Pittsburgh Medical Center.

This is what it looks like when it's silent and taking THAT particle that I just showed you from that patient and putting it on a piece of paper right next to the detector you see it's alarming, it makes a noise, it's quite disturbing, etc... So yes, it certainly brings to your attention something even quite that tiny, it can find.

The Joint Commission came out with a paper specifically dealing with MRI safety accidents – this was on February 14th, 2008 – and in this they quote extensively from the literature that radiology has written about this including and especially the ACR's documentation and the ACR's recommendation, most of which they seem to have essentially just have cut-and-pasted to.

Number one injury in the MR environment today, thermal. Now I agree that that's the number one *reported* adverse event, I'm not convinced that it's the number one source of *injury* in MR environments. I believe that there may be many, many more projectile events still occurring that if it's serious enough they try to settle without going to report and without going to trial.

If there are questions I'll be glad to try and take a few.

Would screening for Zone 3, would going through a ferromagnetic detector suffice? Listen very carefully because I seem to have mislead you. My opinion is that these devices are FANTASTIC. They have found things AFTER my techs – and with tremendous respect to you, I have the best techs in the world. Yours are second best. [laughs] I have the best techs in the world (could you imagine what life must be like working with me? [laughs]) These guys are darn good and I have had my techs screen, clear – the way we've set up the research studies, we've tested all these devices I've showed you. Formal. Prospective. Blinded. And we've had our techs screen "you done? You finished? You cleared?" Let's bring 'em in and before you bring them in, one last screen through these devices "wah, wah wah," and find something that the patient denied was

there. It is in my opinion a TREMENDOUS adjunct and it is extremely helpful. It is never – as of today – to be used as the only screen. It is in addition, not instead.

Thank you very much for your time and thank you for your attention. [applause]”

Dr. Emanuel Kanal, FISMRM, FACR, AANG, is the director of Magnetic Resonance Services for the University of Pittsburgh Medical Center and serves as the Chair of the ACR’s MR Safety Committee.

This video and transcript are made available by Mednovus, Inc.,

www.MEDNOVUS.com

Mednovus is the premier manufacturer of ferromagnetic detection systems for MRI screening, helping to reduce projectile accidents and protecting patients, staff and millions of dollars of equipment investment.