

School of MRI 2025 - "MR SAFETY COURSE: RESHAPE YOUR SKILLS"

Bolzano, 15-18 January 2025

Preliminary program - 05/11/2024

Session title	Speaker	Lecture time [h]	Hands on time [t]	Speaker profession**	Modality	Start time
PRE.-COURSE	F. Santini, Ing, PhD, University Basel					
Basics: The 3 electromagnetic fields in MR. What are they for and which are the associated risks?	A. Lanaro, Ing. PhD, MR Product specialist, Siemens Healthineers, Milan	1,5		E	online only recorded *	
Basics: MRI sequences from the safety point of view	M. Maieron, Physicist, Udine	1,5		E	online only recorded *	
Basics: The patient at risk for MR examinations		1		P	online only recorded *	
DAY 1						
Participants registration						08:00
Introduction to the course - get to know each other	C. Quattrocchi - N. Oberhofer	0,5		MD - P		08:30
B0 safety issues and ferromagnetic detectors	M. Keen, Physicist PhD (Metrasens)	0,75		P		09:00
B0 and implantable devices	U. Zanovello, Ing, PhD, INRIM Torino	0,75		E		09:45
Coffee break						10:30
RF related safety issues	M. Bonatti, MD, Bolzano	1		MD		11:00
RF heating and implantable devices	G. Schäfers, Ing, MRComp, Gelsenkirchen	1		P		12:00
Lunch						13:00
MR site planning: what works and what should be avoided	N. Oberhofer, Phys, Bolzano	0,75		P		14:00
MR shielding (static & RF): a glance behind	Speaker from IMEDCO	0,75		P		14:45
Coffee break						15:30
Hands on n.1a: magnetic field and ferromagnetic detectors	representatives of companies		1,25	P	groups, rotating	16:00
Hands on n. 1b: tips and tricks to reduce RF-heating	G. Schäfers, Ing, MRComp, Gelsenkirchen		1,25	E		end 18:30
Welcome reception						19:00

DAY 2						
dB/dt related safety issues	to be defined	1		MD		08:00
dB/dt and implantable devices	Speaker form a company with simulation software	1		P		09:00
Coffee break						10:00
RF induced patient heating: what do manufacturer offer to avoid hot spots?	manufacturer representatives	1		P/E		10:30
dB/dt induced peripheral nerve stimulation (PNS): what do manufacturer offer to reduce PNS?	manufacturer representatives	1		P/E		11:30
Lunch						12:30
Contrast agents – state of the art	C. Quattrocchi, MD, Univ. Trento	0,75		MD		13:30
The environmental burden of MRI (Gd, He, energy,...)	A. Rovira, MD, Univ. Barcelona	0,75		MD		14:15
Coffee break						15:00
Hands on: n 2a: SAR-safety in practice	to be defined		1	T	groups, rotating	15:15
Hands on n. 2b: tips and tricks to evaluate dB/dt	D. Trevisan, Phys, Bolzano		1	P		17:15
Faculty dinner						19:00
DAY 3						
Clinical workflow optimization for MR safety	MR Team Bolzano	1		MD, T, N		08:00
Risk management in MR environment	to be defined	1				09:00
Coffee break						10:00
MR accidents review - lessons learned	M. Davanzo, Ing, INAIL, Rome, C. Quattrocchi, MD	1		E, MD		10:30
Case study: decisions in case of incomplete information	to be defined	1		MD		11:30
Lunch						12:30
Hands on n. 3: protocol adaptation	Product specialists		2		small groups	13:30
Coffee break						15:30
Hands on: examples of SAR and dB/dt handling by vendors	Siemens, Philips, GE		1,5		3 groups	16:00 end 17:30
Social activity	Private guided visit to Ötzi-Museum					18:00

DAY 4						
Hands on: practical MR safety (in groups): safety walk, emergency, critical situation simulation	3/4 groups (M. Bonatti, D. Trevisan, Bolzano MR team and others)		3	T, MD, P	3/4 groups rotating	08:00
Briefing	C. Quattrocchi - N. Oberhofer		0,5		group reporting	11:00
Final exam			1			11:30
Course end						12:30
Optional social activity	Easy trekking tour to a nearby panoramic site (Renon)					13:30 end 17:00
Total on-site course duration		15	12,5			

**MD = medical doctor, P = physicist, E = engineer, T = MR technician, N = nurse

REGISTRATION

<http://212.237.43.214/cmsweb/Login.asp?IDcommessa=BE2604&Lang=IT>

Course-secretary
 congressi@bibagroup.it
 k.lanza@bibagroup.it

All quotes are VAT included

	Early bird until December 10th	Late fee from December 10th
1st participant	600	730
2nd participant same institution	480	610
3rd participant same institution	250	360