



SCIENTIFIC DIALOG

ULTRASOUND COURSE IN NEUROSURGERY

Department of Clinical Neurosciences and Mental Health Faculty of Medicine of
Porto University – 22nd of April 2022

VENUE INFORMATION

SCIENTIFIC CONSULTING

Rui Vaz MD, PhD

Head of Neurosurgery Department

Centro Hospitalar Universitário de

São João do Porto, Portugal

INVITED SPEAKER

Geirmund Unsgård, MD, PhD

Norwegian University of Science and

Technology, Trondheim, Norway

COORDENATION AND EXPERTS TEAM

Marisa Cunha MD

Bruno Carvalho MD

SCIENTIFIC SPONSORING

Sociedade Portuguesa de Neurocirurgia

Faculdade de Medicina da Universidade do Porto

INDUSTRY PARTNERS

BK medical, Fujifilm Sonosite, Medtronic, Skymedical SonoScape, Stryker

DIALOG – DEDICATED TO LIFE.

PRELIMINARY AGENDA

09:00	Introduction of the course Bruno Carvalho MD
09:15	Basics of ultrasound imaging, anatomical landmarks and optimizing image interpretation Geirmund Unsgård, MD PhD
10:00	Practical session: Probe selection and Principles of ultrasound acquisition (Industry)
11:00	Coffee break
11:15	3D Ultrasound-guided resection of gliomas – Tips, Tricks and Pitfalls Geirmund Unsgård, MD PhD
12:00	Neuronavigated Ultrasound in Brain Surgery – Illustrative cases Bruno Carvalho MD
12:45	Ultrasound in Hydrocephalus and Chiari malformation Marisa Cunha, MD
13:30	Lunch break
	Hands-on Session
	Module 1 – Setup US Machine (BK Medical)
	Module 2 – Setup US Machine (FujiFilm SonoSite)
14:30	Module 3 – Setup US Machine (Skymedical SonoScape)
	Module 4 – Neuronavigated Ultrasound US-MRI Integration (Medtronic)
	Module 5 – Brain tumor module – Ultrasound and resection
	Module 6 – Ultrasound guided EVD / Shunt insertion
	Closure
18:00	Rui Vaz, MD PhD Head of Neurosurgery Department Patrícia Ruivo Head of Academia Aesculap