European
Reference
Network
for rare or low prevalence
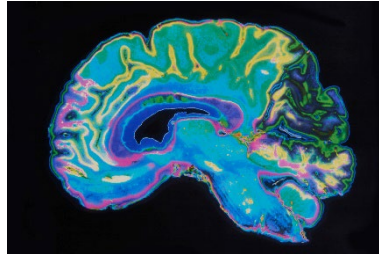complex diseases

⚙ Network
Neurological Diseases
(ERN-RND)

ERN-RND Winter School 2023 - 'NEUROIMAGING'
Online, 23-25. March 2023, Times in CET

Day 1: 23. March 2023, 14:00 -17:00h
Technological and methodological basics of neuroimaging techniques

Learning objective:
- Know generally about basic principles, techniques, pitfalls and limitations in neuroradiology and nuclear medicine including CT, MRI, SPECT and PET scanning

Time	Topic	Speaker
14:00 - 14:45	**Introduction in structural imaging** (CT, MRI, including sequences such as DTI)	Eva Bültmann, Medical University Hannover, DE
14:45 - 15:30	**Introduction in radiotracer imaging** (SPECT, PET)	Jan Booij, Amsterdam University Medical Centers, NL
15:30 - 15:45	*Coffee break*	
15:45 - 16:30	**Introduction in functional MRI**	Edoardo Gioele Spinelli, San Raffaele Scientific Institute, Milan, IT
16:30 - 17:00	**Q&A, Discussion**	

Day 2: 24. March 2023, 09 - 16:30h
Guideline/Diagnostic flowchart-compliant, case based proceedings in neuroimaging in atypical Parkinsonian syndromes, Huntington's Disease, Leukodystrophies and Hyperkinetic disorders

Learning objectives:
- State the recommended sequences, recognize the MRI patterns, identify common imaging for assessing patients with atypical PD syndromes/Leukodystrophies/HD
- Red flags indications when you need to use neuroimaging

Time	Topic	Speaker
09:00 - 10:30	**Atypical Parkinsonian Syndromes**: Diagnostic guideline /flowchart → Red flags → Cases → Neuroimaging protocol	Stéphane Lehericy, University Hospital Pitié Salpétrière, Paris, FR
		Thilo van Eimeren, University Hospital Cologne, DE
	Q&A, Discussion	

10:30 - 10:45	*Coffee break*
10:45 - 12:15	**Huntington's Disease:** Diagnostic guideline/flowchart → Red flags → Case → Neuroimaging protocol **Q&A, Discussion**	Bernhard Landwehrmeyer, University Hospital Ulm, DE Yury Seliverstov, University Hospital Ulm, DE
12:15 - 13:15	*Lunch*	
13:15 - 14:45	**Leukodystrophies:** Diagnostic guideline/flowchart → Red flags → Cases→ Neuroimaging protocol **Group work, case-based and interactive** Cases from the workshop participants **Q&A, Discussion**	Marc Engelen, Amsterdam University Medical Center, NL
14:45 - 15:00	*Coffee break*	
15:00 - 16:30	**Hyperkinetic disorders (Dystonia, chorea, myoclonus):** Diagnostic guideline→ Red flags → Cases → Neuroimaging protocol **Q&A, Discussion**	Martin Reich, University Hospital Würzburg, DE Élida Vázquez Méndez, University Hospital Vall d'Hebron, Barcelona, ES

Day 3: 25. March 2023, 09 - 12:30h

Guideline/Diagnostic flowchart-compliant, case based proceedings in neuroimaging in FTD and Ataxia and HSP

Learning objectives:
- State the recommended sequences, recognize the MRI patterns, identify common imaging techniques for assessing patients with FTD/cerebellar ataxia or HSP
- Red flags indications when you need to use neuroimaging

Time	Topic	Speaker
09:00 - 10:30	**FTD:** Diagnostic guideline/flowchart → Red flags → Cases→ Neuroimaging protocol **Q&A, Discussion**	Vassilis Constantinides, Eginitio University Hospital Athens, GR
10:30 - 10:45	*Coffee break*	

10:45 - 12:15	**Ataxia and HSP:** Diagnostic guideline/flowchart → Red flags → Cases→ Neuroimaging protocol **Group work, case-based and interactive** Cases from the workshop participants **Q&A, Discussion**	Sirio Cocozza, University of Naples Federico II, IT
12:15 - 12:30	*Closing remarks*	

Programme Committee:

Bart van de Warrenburg, Radboud University Medical Center, Nijmegen, NL

Belén Perez Dueñas, Vall d'Hebron University Hospital, Barcelona, ES

Holm Graessner, University Hospital Tübingen, DE

Irena Rektorova, St. Anne's University Hospital, Brno, CZ

Leonidas Stefanis, Eginitio University Hospital, Athens, GR