

Week Schedule *

Course Director: Dileep Nair

Week 1	Topic: Introduction/EEG 1	Technology Week Director:	D Nair
Day	Time	Week	Instructor
Day 1	9:30 a.m 12:00 p.m.	Welcome to the Epilepsy Center Introduction to EEG Orientation on research for fellows	D Nair
	1:00 p.m 4:00 p.m.	IRB review/education Fellow orientation to Week and Epilepsy service	R Schott Fellows
Day 2	9:30 a.m 11:55 a.m.	Electrical safety and routine EEG Using systems/ entering report/ 10-20 system	T O'Connor
	1:00 p.m 3:00 p.m.	EMG lecture (ACGME fellows)	S90 room
	3:00 p.m 5:00 p.m.	Using systems/ entering report/ 10-20 system	T O'Connor
Day 3	9:30 a.m 11:00 a.m.	Polarity and localization, and montages	T O'Connor
	11:00 a.m 11:55 a.m.	How to read Unknowns	D Nair
	1:00 p.m 3:00 p.m.	EMG lecture(ACGME fellows)	S90 room
	4:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Basic neurophysiology of epilepsy	l Najm
	11:00 a.m 11:55 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	EMG lecture(ACGME fellows)	S90 room
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Artifacts on EEG and mappings	R Burgess
	11:00 a.m 11:55 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	EMG lecture(ACGME fellows)	S90 room
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Week 2	Topic: Normal Variant Topic: Filters, Nonepilept	Week Director: iform Patterns, Coma	R Burgess
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Normal awake EEG patterns at different ages Benign EEG variants	N Foldvary
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	EMG lecture(ACGME fellows)	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Normal sleep EEG patterns Methods of activation of the EEG	N Foldvary
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

* lectures are subject to change

Day 3	9:30 a.m 11:00 a.m.	Non-epileptiform EEG abnormalities EEG evaluation of patients in coma and brain death	R Burgess
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Filters and signal conditioning of EEG Analog to digital conversion, digital filtering of EEG	R Burgess
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Unknown EEG reading	R Burgess
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Week 3	Topic: Epileptic EEG patterns/EEG monitoringWeek Director:		l Najm
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Basic concepts of epileptiform patterns	I Najm
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Focal interictal epileptiform patterns	L Jehi
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 3	9:30 a.m 11:00 a.m.	Generalized interictal epileptiform patterns	I Najm
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Ictal patterns	N Foldvary
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Unknown EEG	L Jehi
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	



Week 4	Topic: Seizure and Epilepsy ClassificationWeek Director:		A Alexopoulos
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Generalized principles of epileptology(5 zones of epilepsy)	A Alexopoulos
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Classification of epilepsies and seizures: General principles	A Alexopoulos
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 3	9:30 a.m 11:00 a.m.	Classification of auras and dialeptic seizures Classification of motor seizures and special seizures	A Alexopoulos
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Lateralizing signs and symptoms of epileptic seizures	P Kotagal
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Unknown EEG	P Kotagal
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Week 5	Topic: Evoked Potentials Week and WorkshopWeek Director:		D Nair
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Introduction to evoked potentials and visual evoked potentials	D Nair
	11:00 a.m 11:45 a.m.	Review of EP homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EP and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Auditory evoked potentials Maturational changes in EP and pediatrics in AEPs	A Gupta
	11:00 a.m 11:45 a.m.	Review of EP homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EP and writing a report for homework	

Day 3	9:30 a.m 11:00 a.m.	Somatosensory evoked potentials Intraoperative monitoring	I Najm
	11:00 a.m 11:45 a.m.	Review of EP homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EP and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	EP cases (VEP/SEP)	D Nair
	11:00 a.m 11:45 a.m.	Review of EP homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EP and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	EP cases (AEP/IOM)	D Nair
	11:00 a.m 11:45 a.m.	Review of EP homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EP and writing a report for homework	

Week 6	Week & Workshop: Sleep	Week Director:	C Bae
Day	Time	Week	Instructor
Day 1	9:30 a.m 10:30 a.m.	Introduction of PSG and sleep disorders breathing	N Foldvary
	10:30 a.m 11:15 a.m.	Parasomnia	P Kotagal
	11:15 - 11:45 a.m.	Review of Sleep homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading Sleep and writing a report for homework	
Day 2	9:30 a.m 10:30 a.m.	International classification of sleep disorders	K Budur
	10:30 a.m 11:15 a.m.	Insomnia	K Budur
	11:15 - 11:45 a.m.	Review of Sleep homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading Sleep and writing a report for homework	
Day 3	9:30 a.m 10:30 a.m.	Restless leg syndrome	C Bae
	10:30 a.m 11:15 a.m.	MSLT/Narcolepsy	C Bae
	11:15 - 11:45 a.m.	Review of Sleep homework	
	1:00 p.m 3:00 p.m.	Break for exams	
	3:00 p.m 5:00 p.m.	Reading PSG cases and writing a report	
Day 4	9:30 a.m 11:00 a.m.	PSG cases	C Bae
	11:00 a.m 1:45 p.m.	Review of PSG homework	
	1:00 p.m 3:00 p.m.	Break for exams	
	3:00 p.m 5:00 p.m.	Reading an MSLT writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	MSLT cases	C Rodriguez
	11:00 a.m 11:45 a.m.	Review of MSLT homework	
	1:00 p.m 5:00 p.m.	Midterm exams in T1-20 Conference Room	



Week 7	Topic: Pediatric EEG / Ge	enetics Week Director:	P Kotagal
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Benign focal epilepsy of childhood Childhood absence epilepsy Juvenile myoclonic epilepsy	E Wyllie
	11:00 a.m 1:45 p.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Introduction to medical genetics Genetics of epilepsy Introduction to research in epilepsy	J Bautista
	11:00 a.m 1:45 p.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 3	9:30 a.m 11:00 a.m.	Normal neonatal EEG patterns	D Lachhwani
	11:00 a.m 1:45 p.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Abnormalities of neonatal EEG	P Kotagal
	11:00 a.m 1:45 p.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Pediatric Unknown EEG	I Tuxhorn
	11:00 a.m 1:45 p.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Week 8	Topic: Neuroimaging	Week Director:	l Najm
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Neuroanatomy and imaging of the temporal lobe	I Najm
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Neuroimaging of epilepsy	I Najm
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Day 3	9:30 a.m 11:00 a.m.	Functional imaging of epilepsy	B Diehl
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Nuclear imaging of epilepsy	D Lachhwani
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Unknown EEG samples	D Lachhwani
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	

Week 9	Topic: Pharmacology	Week Director:	l Najm
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Pharmacokinetics of antiepileptic medications	H Morris
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 2	9:30 a.m 11:00 a.m.	Overview of Antiepileptic Medications	H Morris
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 3	9:30 a.m 11:00 a.m.	Treatment of status epilepticus Animal models	A Alexopoulos
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 4	9:30 a.m 11:00 a.m.	Unknown EEG	A Alexopoulos
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Reading an EEG and writing a report for homework	
Day 5	9:30 a.m 11:00 a.m.	Medical management of epilepsy (when to start, factors used to select AEDs, when to stop AEDs)	Guest
	11:00 a.m 11:45 a.m.	Review of EEG homework	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Adult video-EEG assignments	

End of rotation for Neurology residents. Residents to attend lectures if scheduled at 11:00 while rotating on



Week 10	Workshop: Adult Video-E	EG Monitoring Week Director:	l Najm
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Case presentations	I Najm
	11:00 a.m 11:45 a.m.	Neuropsychology lecture	R Busch
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review adult EMU cases	
Day 2	9:30 a.m 11:00 a.m.	Case presentations	l Najm
	11:00 a.m 11:45 a.m.	Wada test lecture	D Dinner
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review adult EMU cases	
Day 3	9:30 a.m 11:00 a.m.	Case presentation	I Najm
	11:00 a.m 11:45 a.m.	Psychiatry/Epilepsy lecture	G Tesar
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review adult EMU cases and finish phase reports	
Day 4	9:30 a.m 11:00 a.m.	Case presentation Review phase report	I Najm
	11:00 a.m 11:45 a.m.	Vagal nerve stimulation	P Kotagal
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review adult EMU cases	
Day 5	9:30 a.m 11:00 a.m.	Case presentation Patient management conference	I Najm
	11:00 a.m 11:45 a.m.	Epilepsy Surgery lecture: Temporal lobe epilepsy	J Gonzalez
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Pediatric video-EEG assignments	

routine EEG, EP/OR monitoring, and Sleep and Epilepsy clinics.

Week 11	Workshop: Pediatric Vide	o-EEG Monitoring Week Director:	A Gupta
Day	Time	Week	Instructor
Day 1	9:30 a.m 11:00 a.m.	Case presentation	A Gupta
	11:00 a.m 11:45 a.m.	Special characteristics of pediatric epilepsy surgery	A Gupta
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review pediatric EMU cases	
Day 2	9:30 a.m 11:00 a.m.	Case presentation	A Gupta
	11:00 a.m 11:45 a.m.	Ketogenic diet and other non-pharmaceutical therapies	D Lachhwani
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review pediatric EMU cases	
Day 3	9:30 a.m 11:00 a.m.	Case presentation	A Gupta
	11:00 a.m 11:45 a.m.	Neurocutaneous epilepsy syndromes and brain malformation	A Gupta



1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
3:00 p.m 5:00 p.m.	Review pediatric EMU cases and finish phase report	

Day 4	9:30 a.m 11:00 a.m.	Case presentation Review phase report	A Gupta
	11:00 a.m 11:45 a.m.	Catastrophic epilepsies amenable by surgery	E Wyllie
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Review pediatric EMU cases Research presentation - Fellow 1	
Day 5	9:30 a.m 11:00 a.m.	Case presentation Patient management conference	A Gupta
	11:00 a.m 11:45 a.m.	Epilepsy Surgery lecture: Hemispherectomy	B Bingaman
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds	
	3:00 p.m 5:00 p.m.	Invasive video-EEG assignments Research presentation - Fellow 2	

Week 12	Workshop: Invasive Video	D-EEG Monitoring Week Director:	D Nair	
Day	Time Week		Instructor	
Day 1	9:30 a.m 11:00 a.m.	Case presentation Non-invasive information	D Nair	
	11:00 a.m 11:45 a.m.	Indications for invasives	D Nair	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds		
	3:00 p.m 5:00 p.m.	Review invasive EMU cases Research presentation - Fellow 3		
Day 2	9:30 a.m 11:00 a.m.	Case presentation Patient management	D Nair	
	11:00 a.m 11:45 a.m.	Subdural and depth recordings	D Nair	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds		
	3:00 p.m 5:00 p.m.	Review invasive EMU cases Research presentation - Fellow 4		
Day 3	9:30 a.m 11:00 a.m.	Case presentation Invasive recordings	D Nair	
	11:00 a.m 11:45 a.m.	Cortical stimulation	D Nair	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds		
	3:00 p.m 5:00 p.m.	Review invasive EMU cases Research presentation - Fellow 5		
Day 4	9:30 a.m 11:00 a.m.	Case presentation Cortical stimulation/SEPs	D Nair	
	11:00 a.m 11:45 a.m.	Cortical SEP mapping	D Nair	
	1:00 p.m 3:00 p.m.	Adult/Pediatric monitoring unit rounds		
	3:00 p.m 5:00 p.m.	Review invasive EMU cases Finish phase reports		
Day 5	9:30 a.m 11:00 a.m.	Case presentation Review phase report	D Nair	
	11:00 a.m 11:45 a.m.	Surgical Technique to Invasive EEG/SEEG	J Gonzalez	



	1:00 p.m 5:00 p.m.	Final exam in T1-20 Conference Room	
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Didactic Conferences

Mondays 8:00 a.m 9:00 a.m.	Neuroscience Grand Rounds*	Bunts Auditorium (TT1-100)
Tuesdays 7:30 a.m 9:00 a.m.	Epilepsy Patient Management*	T1-20 Conference Room
Wednesdays 8:00 a.m 9:00 a.m.	Pediatric Neurology & Pediatric Epilepsy Grand Rounds	T1-20 Conference Room
Thursdays 8:00 - 9:00 am	Unknown Epilepsy Case Discussion	Epilepsy Center Conference Room (S5-530)
Fridays 8:00 a.m 9:00 a.m.	Epilepsy Grand Rounds*	T1-20 Conference Room

Monitoring Unit Rounds

Daily (Monday -Friday)		
1:30 p.m 3:30 p.m.	Adult Epilepsy*	T1-20 Conference Room
2:30 p.m 4:00 p.m.	Pediatric Epilepsy*	M52 EEG Reading Room

Additional Conferences

8:00 a.m 9:00 a.m.	Neuroradiology Epilepsy Conference* (six times per year on Wednesdays)	to be announced
8:00 a.m 9:00 a.m.	Neurophysiology Tracing Conference* (six times per year on Wednesdays)	to be announced
8:00 a.m 9:00 a.m.	Epilepsy Journal Club* Hosted by Epilepsy faculty <i>(Six times per year)</i>	to be announced

* required conferences