

CLEVELAND CLINIC CLINICAL EPILEPSY, CLINICAL NEUROPHYSIOLOGY, AND EEG COURSE

Training Programs: Epilepsy and Clinical Neurophysiology
Course Directors: Andreas V. Alexopoulos, MD, MPH and Jessica Fesler, MD

Course Structure:

The clinical neurophysiology/epilepsy course given at the Cleveland Clinic is an intensive 3-month course designed to introduce core clinical competency in clinical neurophysiology and epilepsy training. The course consists of an 8- week lecture series and 4 one-week workshops, where participants have hands-on learning with case-based review & discussion pertaining to epilepsy, video-EEG & clinical neurophysiology.

Foundational Sessions

During the first 8 weeks, lectures and discussions cover in depth topics in epilepsy and clinical neurophysiology. Each week is dedicated to a main core topic that is covered during the week such as EEG technology, normal variants, non-epileptic abnormalities, epileptic patterns, etc. Each week there are morning sessions meant to cover material pertinent to the core topic. In addition there are miscellaneous topics such as evoked potentials, neuropsychology, and sleep scattered throughout. There are also recurring series as detailed below.

- **Monitoring Unit Rounds:** Participants will attend daily video-EEG epilepsy monitoring unit rounds to observe patient case discussions of currently admitted patients on the adult service. If these sessions are cancelled, free time is intended to complete EEG homework and self-study. There are also scattered afternoon sessions.
- **Conferences:** Participants are invited to attend the many scheduled conferences. Please reference detailed list at the end of this document
- **EEG Unknowns:** Purposed to teach participants how to evaluate an EEG in a logical and systematic manner, these sessions focus around a single *mystery* EEG, which is an unlabeled 10-second tracing. Students will individually work 'backwards' to deduce the montage, classification, state and age of the patient, and electrographic abnormalities, with answers prepared before the assigned session. The scheduled session will review the rationale and relevant principles together with a faculty facilitator. The point is to exercise critical thinking skills in applying foundational neurophysiological principles learned in the course to understand why the EEG appears the way it does in certain scenarios.
- **EEG homework:** A routine EEG will be reviewed individually by each participant and a final report generated and submitted prior to the assigned session. The faculty facilitator will review the EEG with the group and discuss any pertinent electrographic findings as well as the formal final classification. Individual performance and progress will be assessed.
- **AED conference:** This is intended to cover in series anticonvulsant medications and discuss the important aspects a prescriber of these medications need to know, with an emphasis on clinically relevant issues and on formulations available in the United States. Participants are assigned to lead a session, in which a one-page summary using the digital template is created and distributed prior to the session. Each learner is responsible for reviewing the handout and medications prior to the in-class discussion. There is a short quiz at the beginning of the session, followed by a discussion facilitated by epilepsy and pharmacy faculty.
- **Research Series:** This is an introduction of fundamental principles and skills in scholarship, data and statistical analysis, systematic interpretation of quality and validity of research, and evidence-based practice.

Workshops

Week 6 : Continuous Bedside Video-EEG Workshop

Students are tasked to review cases of continuous bedside video-EEG monitoring (BEM) in critically ill patients. History and examination are given in written format. Video-EEG and MRI data are provided without interpretation for the groups to analyze. The staff will then facilitate discussion with a specific focus in analyzing & interpreting the patient's electroclinical presentation, etiology and important clinical considerations. Emphasis is placed on accurate classification and reporting of bedside EEG findings. The instructor will provide feedback on the writing styles, traces being selected.

Weeks 11 – 12: Scalp and Intracranial Video-EEG Workshops

The last weeks of the course will consist of one-week workshops focusing on bedside video-EEG monitoring of pediatric epilepsy monitoring unit patients as well as introduction to invasive EEG cases. Assignments will relate to illustrative cases and currently monitored patients.

Week 1		Topic: What is an EEG?	Course Director: J Fesler
Day	Time	Course	Instructor (Location)
MON	8:30 - 5:00 pm	GME Orientation (<u>ONLY</u> scheduled participants)	Lerner Building
TUES	9:30 – 10:30 am	Welcome, Course Overview, and Orientation	J Fesler
	10:45 – 11: 55 am	How to Record an EEG: Electrical Safety & 10-20 System	T O'Connor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference	
WED	9:15 – 10:30 am	What is an EEG Montage?	R Burgess
	10:45 – 11:55 am	Workshop: Placing EEG Electrodes	T O'Connor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	How to access homework & write an EEG report	T O'Connor
THUR	HOLIDAY (OFF)		
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:00 – 9:45 am	How to map: Polarity and Localization	A Alexopoulos
	10:00 – 11:55 am	What is a normal awake EEG? How to identify benign variants	A Alexopoulos
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – levetiracetam, brivaracetam	J Fesler

Week 2		Topic: What is normal on EEG?	Course Director: R Burgess
Day	Time	Course	Instructor
MON	9:30 – 10:30 am	Review of EEG Homework (#1, 2, 4)	R Burgess
	10:45 – 11:45 am	Review of EEG Unknown (# 1, 2)	R Burgess
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
TUE	8:00 am - 5:00 pm	EPIC training (<u>ONLY</u> scheduled participants)	
	7:30 – 9:30 am	Presurgical Patient Management Conference	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
WED	8:00 – 9:00 am	Research series: Introduction to library resources and literature search	L Hackett
	9:30 – 10:45 am	How to Identify Artifacts How to Read Unknowns	R Burgess
	11:00 – 11:55 am	Review of EEG Homework (#6, 10, 11)	R Burgess
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – topiramate, zonisamide	J Fesler
	5:00 – 7:00 pm	2019 Neurology Trainee Welcome / Bag Ceremony	Q1 - 300
THUR	9:15 – 10:45 am	EEG generation: What does an EEG record?	Z Ying
	11:00 – 11:55 am	Review of EEG Unknown (#3, 4)	R Burgess

	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	4:00 – 5:00 PM	Fellows Only Meeting	A Alexopoulos J Fesler
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:45 am	What is normal sleep EEG? What are activation procedures?	J Fesler
	11:00 – 11:55 am	Review of EEG Homework (#9, 13, 15)	J Fesler
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Understanding EEG signal and filters	R Burgess

Week 3		Topic: What is abnormal on EEG?	Course Director: R Burgess
Day	Time	Course	Instructor
MON	9:15 - 10:45 am	How to identify generalized epileptiform discharges	A Gupta
	11:00 – 11:55 am	Review of EEG Homework (#19, 46, 47)	A Gupta
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – lamotrigine, valproate	J Fesler
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference	
	9:30 – 10:45 am	How to identify and interpret slowing on EEG	R Burgess
	11:00 – 11:55 am	Review of EEG Unknown (#8, 9)	R Burgess
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference	
WED	8:00 – 9:00 am	What does the EEG show in coma and brain death?	R Burgess
	9:15 – 10:45 am	How to identify focal epileptiform discharges	M Naduvil
	11:00 – 11:55 am	Review of EEG Unknown (#6, 7)	M Naduvil
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – lacosamide, perampanel	J Fesler
THUR	9:00 – 10:45 am	How to identify ictal patterns	J Fesler
	11:00 – 11:55 am	Review of EEG Homework (#20, 24) EEG Unknown (#15)	J Fesler
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:45 am	MRI Anatomy of Central Sulcus & Eloquent Region	M Naduvil
	11:00 – 11:55 am	Review of EEG Unknown (#17, 18)	M Naduvil
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	What are PET and ictal SPECT?	G Wu

Week 4		Topic: What tools can be used for surgical evaluation?	Course Director: J Fesler
Day	Time	Course	Instructor
MON	9:15 – 11:55 am	How is neuroimaging used in epilepsy?	S Jones

	1:00 – 2:00 pm	Review of EEG Unknown (#21, 23)	R Burgess
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	4:00 – 5:00 pm	AED Conference - gabapentin, pregabalin	J Fesler
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference	
	9:30 – 10:45 am	How to approach genetics in epilepsy	D Lal
	11:00 – 11:55 am	Review of EEG Homework (#25, 27, 28)	J Fesler
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)	
WED	8:00 – 9:00 am	Research Series: Levels of Evidence, Assessing validity and relevance of scientific content in publication	L Jehi
	9:15 – 10:45 am	What neuroanatomical correlations are helpful in epilepsy surgery?	J Gonzalez Martinez
	11:00 – 11:55 am	What is the relation of neurocutaneous syndromes and epilepsy	A Gupta
	1:00 – 2:00 pm	Review of EEG Homework (#33, 36, 37)	D Lachhwani
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	What is a Wada test? Current Indications	P Kotagal
THUR	9:15 – 10:45 am	What is a neuropsychological evaluation?	R Busch
	11:00 – 11:55 am	Review of EEG Unknown (#24, 26)	D Lachhwani
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:30 – 11:00 am	How to approach common ethical dilemmas in epilepsy	P Ford, L Sankary
	11:00 – 11:55 am	Review of EEG Homework (#29, 31, 32)	V Punia
	1:00 – 2:00 pm	What is EEG-triggered fMRI	B Krishnan
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff

Week 5		Topic: How is the EEG different in children?	Course Director:	A Gupta
Day	Time	Course	Instructor	
MON	8:00 – 9:00 am	AED conference – phenytoin, fosphenytoin	J Fesler	
	9:30 – 10:45 am	What do focal seizures look like in infants and young children?	A Gupta	
	11:00 – 11:55 am	Review of EEG Homework (#34, 43, 48)	A Gupta	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 4:30 pm	Research series: Principles of clinical research and NI Resources	L Jehi	
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference		
	9:30 – 10:45 am	How does the EEG change with brain maturation?	E Pestana-Knight	
	11:00 – 11:55 am	Review of EEG Homework (#35, 59)	E Pestana-Knight	
	1:00 – 2:00 pm	How to interpret and use neuropsychological testing in children with epilepsy	P Klaas	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	

	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)	
WED	9:15 – 10:45 am	Benign focal epilepsy of childhood	E Wyllie
	11:00 – 11:55 am	Review “Homeworkew1” and “Homeworkew3” (bottom of the Homework list, beneath Homework60)	E Wyllie
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – Ethosuximide, Viabatrín, ACTH	E Pestana Knight
THUR	8:00 – 9:00 am	Neonatal EEG Conference	
	9:15 – 10:45 am	Developmental Issues of EEG Expression in Pediatric Candidates for Epilepsy surgery	E Wyllie
	11:00 – 11:55 am	Review “Homeworkew4” and “Homeworkew5” (bottom of the Homework list, beneath Homework60)	E Wyllie
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	1:00 – 4:00 pm	Status Simulation Session (ONLY scheduled participants)	Simulation Center <i>Lara Jehi</i> <i>Elia Pestana Knight</i>
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:45 am	How to Identify Common Pediatric Epilepsy Syndromes	D Lachhwani
	11:00 – 11:55 am	Review of EEG Homework (#56, 60)	D Lachhwani
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30pm	AED Conference - carbamazepine, oxcarbazepine, eslicarbazepine	J Fesler

Week 6	How is the EEG different in Critical Care?		Course Director:	S Hantus
Day	Time	Course	Instructor	
MON	8:00 – 9:00 am	Research Series: Introduction to Statistics	R Honomichl	
	9:15 – 10:45 am	What is continuous EEG and how is it used?	S Hantus	
	11:00 – 11:55 am	How to classify and report continuous EEG	S Hantus	
	1:00 – 4:00 pm	Status Simulation Session (ONLY scheduled participants)	Simulation Center <i>Jessica Fesler</i> <i>Elia Pestana Knight</i>	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff S Neme Mercante	
	4:00 – 5:00 pm	AED Conference - felbamate, rufinamide	J Fesler	
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference		
	9:30 – 10:45 am	How to interpret common ICU EEG patterns	S Hantus	
	11:00 – 11:55 am	Case presentation: Review of Bedside EEG Tracings	S Hantus	
	1:00 – 4:00 pm	Status Simulation Session (ONLY scheduled participants)	Simulation Center <i>Vineet Punia</i> <i>Deepak Lachhwani</i>	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)		
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds		

	9:15 – 10:45 am	How to manage status epilepticus	S Hantus
	11:00 – 11:55 am	Case presentation: Review of Bedside EEG Tracings	S Hantus
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	AED conference – status infusions (propofol, barbituates, ketamine, benzodiazepines)	S Hantus
THU	9:15 – 10:45 am	How does the EEG correlate with multimodal monitoring in the ICU?	C Newey
	11:00 – 11:55 am	How to identify and manage autoimmune epilepsy	A Naduvil
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:45 am	What do periodic discharges mean?	V Punia
	11:00 – 11:55 am	Interesting ICU Case Study	V Punia
	1:00 pm - 3:00 pm 3:00 pm - 5:00 pm	MIDTERM EXAM	

Week 7		Topic: How to classify and interpret seizures	Course Director:	A Alexopoulos
Day	Time	Course	Instructor	
MON	9:15 – 10: 45 am	What are the five zones of epilepsy?	A Alexopoulos	
	11:00 – 11:55 am	Review of EEG Unknown (#19, 25)	M Naduvil	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference		
	9:30 – 10: 45 am	How to classify seizure semiology How to classify epilepsy	A Alexopoulos	
	11:00 – 11:55 am	Review of Epilepsy Monitoring Unit seizure videos	A Alexopoulos	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)		
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds		
	9:15 – 10:45 am	What semiological features are lateralizing?	P Kotagal	
	11:00 – 11:55 am	Review of EEG Unknown (#27, 28)	P Kotagal	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
THU	9:15 – 10: 45 am	How to interpret semiology: Auras and Dialepsis	A Alexopoulos	
	11:00 – 11:55 am	Review of Epilepsy Monitoring Unit seizure videos	A Alexopoulos	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	1:00 – 4:00 pm	Status Simulation Session (ONLY scheduled participants)	Simulation Center Andreas Alexopoulos Ahsan Moosa Naduvil	
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds		
	9:15 – 10: 45 am	How to interpret semiology: Motor and Special Seizures	A Alexopoulos	
	11:00 – 11:55 am	Review of Epilepsy Monitoring Unit seizure videos	A Alexopoulos	

	1:00 – 2:00 pm	How integration of multimodal neuroimaging and electromagnetic data can help in epilepsy surgery	I Wang
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30-4:30 pm	AED conference (benzodiazepines)	J Fesler

Week 8		Topic: How to medically manage epilepsy	Course Director:	J Fesler
Day	Time	Course	Instructor	
MON	8:00 – 9:00 am	How are ketogenic diet and alternative therapies used to treat epilepsy?	M Naduvil	
	9:30 - 11:00 am	What should be considered when treating women with epilepsy?	N Foldvary Schaefer	
	11:00 – 11:55 am	Review of EEG Homework (#41, 52, 53)	S Neme Mercante	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference		
	9:30 – 10:45 am	How understanding <i>pharmacodynamics</i> and <i>pharmacokinetics</i> can change your practice	K Hetrick and J Fesler	
	11:00 – 11:55 am	Review of EEG Homework (#39, 45, 50)	J Fesler	
	12:00 – 1:00 pm	Fellows Only Meeting	S4-441	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)		
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds		
	9:15 – 10:45 am	How do antiseizure medications work?	J Biedny and J Fesler	
	11:00 – 11:55 am	What should be considered when treating epilepsy in the elderly?	V Punia	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
THU	9:30 – 11:00 am	What is the structure of the temporal lobe and how does it relate to epilepsy?	I Najm	
	11:00 – 11:55 am	What is neuromodulation? Use of VNS, RNS DBS in epilepsy	P Kotagal	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds		
	9:15 – 10:45 am	How to treat generalized epilepsy	J Fesler	
	11:00 – 11:55 am	Review of EEG Homework (#57, 58)	J Fesler	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 5:00 pm	Practical use of AEDs: how to select, start, stop, combine	M Naduvil	

Week 9: How to interpret other clinical neurophysiological studies			
Creating a differential diagnosis for seizure			
Day	Time	Course	Instructor
	8:00 - 9:30 am	What are evoked potentials (EP)?	D Nair

MON		How to understand visual and auditory EPs	
	9:45 – 10:45 am	How to understand somatosensory EPs	A Gupta
	11:00 – 11:55 am	Review of EP tracings	A Gupta
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	What can mimic seizures in children?	E Pestana Knight
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference	
	9:30 – 10:45 am	What are psychogenic nonepileptic seizures (PNES)?	J Bautista
	11:00 – 11:55 am	How to identify PNES on video EEG	J Fesler
	1:00 – 2:00 pm	What sleep disorders are relevant to the epileptologist?	S Neme Mercante
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)	
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds	
	9:15 – 10:45 am	What sleep disorders can look like seizure?	C Rodriguez
	11:00 – 11:55 am	Video review of complex nocturnal behaviors	C Rodriguez
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
THU	9:15 – 10:45 am	How to treat psychogenic nonepileptic seizures	B Tilahun
	11:00 – 11:55 am	How to notate and present a video EEG evaluation	G Cosmo
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 11:55 am	Bad EEG: What not to do	M Bej (T1-20)
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 4:30 pm	How can neuropsychological testing help predict postoperative outcome?	R Busch (T1-20)

Week10	Workshop: Video EEG and presurgical evaluation		Course Director:	I Najm
Day	Time	Course	Instructor	
MON	HOLIDAY (OFF)			
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference		
	9:30 – 11:00 am	What is Patient Management Conference? How to synthesize the presurgical evaluation	I Najm	
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)		
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds		
	9:30 – 11:00 am	Why does brain connectivity matter in epilepsy?	I Najm	
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff	

	4:00 – 5:00 pm	Scalp video-EEG case-based analysis & interpretation	Epilepsy Chiefs
THU	8:00 – 9:00 am	Neonatal EEG Conference	
	9:15 – 10:30 am	What surgical techniques are used for epilepsy?	B Bingaman
	10:30 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	4:00 – 5:00 pm	Scalp video-EEG case-based analysis & interpretation	Epilepsy Chiefs
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:30 am	What is the outcome of epilepsy surgery?	L Jehi
	10:30 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:30 pm	How to write an EMU video EEG report	J Fesler

Week 11 Workshop: Intracranial Video-EEG Monitoring		Course Director:	J Bulacio
Day	Time	Course	Instructor
MON	8:30 – 9:30 am	What are the indications for invasive monitoring?	J Bulacio
	9:30 - 10:30 am	When to use sEEG versus subdural grids?	J Bulacio
	10:30 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5: 30 pm	How to interpret sEEG: Introduction to a classic case	J Bulacio
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference	
	9:30 – 11:00 am	How to create an implantation map and impact of semiology	J Bulacio
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)	
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds	
	9:00 – 10:00 am	How to interpret sEEG: Case analysis	J Bulacio
	10:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	12:00 – 4:30 pm	Research Training (ONLY scheduled participants)	
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
THU	9:00 – 10:30 am	What is cortical stimulation and mapping?	J Bulacio
	10:30 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:00 – 5:00 pm	How to interpret sEEG: Case Conclusion	J Bulacio
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:00 – 10:30 am	When to consider hemispherectomy	M Naduvil
	10:30 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor

	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
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Week 12 Workshop: Pediatric Video-EEG			Course Director: M Naduvil
Day	Time	Course	Instructor
MON	9:15 – 10:45 am	Pediatric video-EEG case-based analysis: Review of history and historical semiology	A Gupta
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
TUE	7:30 – 9:30 am	Presurgical Patient Management Conference	
	9:30 – 11:00 am	Pediatric video-EEG case-based analysis: Review of scalp EEG	M Naduvil
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
	3:30 – 5:00 pm	Invasive Patient Management Conference (Fellows)	
WED	8:00 – 9:00 am	Pediatric Neurology / Pediatric Epilepsy Grand Rounds	
	9:15 – 10:45 am	Pediatric video-EEG case-based analysis: Review of imaging and ancillary testing	M Naduvil
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
THU	8:00 – 9:00 am	Dr. Wyllie's Pediatric Epilepsy Case Conference	E Wyllie
	9:15 – 10:45 am	Pediatric video-EEG case-based analysis: Review of video EEG report	M Naduvil
	11:00 am – 2:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	2:00 – 3:30 pm	Adult Monitoring Unit Rounds	EMU staff
FRI	8:00 – 9:00 am	Epilepsy Center Grand Rounds	
	9:15 – 10:30 am	Pediatric video-EEG case-based analysis: Patient Management Conference	D Lachhwani
	10:30 – 1:00 pm	Daily Video-EEG Monitoring: Data Review	Co-monitoring supervisor
	1:00 pm - 3:00 pm	Final Exam	
	3:00 pm - 5:00 pm		

Didactic Conferences

Tuesdays

7:30 am – 9:30 am Epilepsy Presurgical Patient Management Conference*

12:00 pm – 1:00 pm Neurology Grand Rounds

resumes Aug 6

3:30 pm – 5:30 pm Invasive Evaluation Patient Management Conference*
(if patients to be discussed)

Wednesdays

8:00 am – 9:00 am Pediatric Neurology Grand Rounds
(resumes Aug 7) alternating with
Pediatric Epilepsy Grand Rounds*

Fridays

8:00 am – 9:00 am Epilepsy Grand Rounds*

Epilepsy Monitoring Unit Rounds

Monday – Friday

2:00 pm – 3:30 pm Adult Epilepsy Monitoring Unit Rounds**

Additional Conferences

5:00 pm – 7:00 pm **Epilepsy Journal Club***
Hosted by epilepsy faculty & fellows
Dates to be announced – monthly

8:00 – 9:00 am **Neonatal EEG Conference***
First Thursday of the month

8:00 am – 9:00 am Pediatric Neuroradiology Conference
Second and fourth Thursday of the month

To be announced **Neurophysiology/Evoked Potential Conference***
To be announced

Monday **Antiepileptic Management Case Conference***
Starting in September

8:00 am – 9:00 am **Dr. Wyllie’s Pediatric Epilepsy Case Conference***
Third Thursdays of the month beginning in September

3:30 pm – 5:30 pm **Dr. Najm’s Adult Epilepsy Case Conference***
*To be announced – often Tuesday afternoon when PMC
is cancelled or immediately following*

* required conferences

** Fellows will need to be prepared & ready to discuss their assigned patients in EMU during these times.