



American Board of Psychiatry and Neurology, Inc.

A Member Board of the American Board of Medical Specialties (ABMS)

CONTINUING CERTIFICATION COMBINED EXAMINATION IN EPILEPSY Content Blueprint

Number of questions: 100	
1. Clinical aspects of epilepsies	13-17%
2. Routine EEG	8-12%
3. Evaluation	25-29%
4. Management	41-45%
5. System-based practice issues	1-3%
6. Mechanisms of the epilepsies	2-4%
TOTAL	100%

Note: A more detailed content outline is shown below.



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CONTINUING CERTIFICATION COMBINED EXAMINATION IN EPILEPSY Content Outline

Content Areas	
01.	Clinical aspects of epilepsies
A.	Classification of seizures
1.	Generalized
a.	Tonic-clonic (in any combination)
b.	Absence
i.	Typical
ii.	Atypical
iii.	Absence with special features
a)	Myoclonic absence
b)	Eyelid myoclonia
c.	Myoclonic
i.	Myoclonic
ii.	Myoclonic atonic
iii.	Myoclonic tonic
iv.	Myoclonic-tonic-clonic
d.	Clonic
e.	Tonic
f.	Atonic
2.	Focal onset
a.	Without impairment of consciousness/responsiveness
i.	With observable motor or autonomic components (roughly corresponds to the concept of focal aware with motor onset seizure)



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	ii.	Nonmotor onset involving subjective sensory or psychic phenomena only (corresponds to the concept of focal aware with non-motor onset seizure)
	iii.	Focal to bilateral tonic clonic
	b.	With impairment of consciousness/ responsiveness (roughly corresponds to the concept of focal impaired awareness seizure)
	c.	Evolving to a bilateral, convulsive seizure (involving tonic, clonic, tonic and clonic, or focal to bilateral tonic-clonic components)
3.		May be focal, generalized, or unclear
	a.	Epileptic spasms
	b.	Atonic
B.		Electro-clinical syndromes and other epilepsies
1.		By age of onset
	a.	Neonatal period
	i.	Self-limited neonatal seizures
	ii.	Self-limited familial neonatal epilepsy
	iii.	Symptomatic neonatal seizures
	iv.	Early myoclonic encephalopathy (EME)
	v.	Early infantile epileptic encephalopathy (Ohtahara syndrome)
	vi.	Other early infantile epileptic encephalopathy (EIEE)
	b.	Infancy
	i.	Epilepsy of infancy with migrating focal seizures
	ii.	West syndrome
	iii.	Myoclonic epilepsy in infancy (MEI)
	iv.	Self-limited non-familial infantile epilepsy
	v.	Self-limited familial infantile epilepsy
	vi.	Severe myoclonic epilepsy of infancy (Dravet syndrome)
	vii.	Myoclonic encephalopathy in non-progressive disorders
	viii.	Hemiconvulsion-hemiplegia-epilepsy syndrome



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c.	Childhood (1-15 years)
i.	Febrile seizures plus, genetic epilepsy with febrile seizures plus
ii.	Panayiotopoulos syndrome
iii.	Epilepsy with myoclonic-atonic seizures (Doose syndrome)
iv.	Childhood epilepsy with centrotemporal spikes (CECTS)
v.	Autosomal dominant nocturnal frontal lobe epilepsy (ADNFLE)
vi.	Late-onset childhood occipital epilepsy (Gastaut type)
vii.	Epilepsy with myoclonic absences (Tassinari syndrome)
viii.	Lennox-Gastaut syndrome
ix.	Epileptic encephalopathy with continuous spike-and-wave during sleep (CSWS)
x.	Childhood absence epilepsy (CAE)
xi.	Acquired epileptic aphasia (Landau-Kleffner syndrome (LKS))
d.	Adolescence to Adult
i.	Juvenile absence epilepsy (JAE)
ii.	Juvenile myoclonic epilepsy (JME)
iii.	Epilepsy with generalized tonic-clonic seizures alone
iv.	Autosomal dominant partial epilepsy with auditory features (ADPEAF)
v.	Other familial temporal lobe epilepsies
C.	Less specific age relationship
1.	Familial focal epilepsy with variable foci (childhood to adult)
2.	Reflex epilepsies
3.	Progressive myoclonus epilepsies (PME)
D.	Distinctive constellations



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1.	Mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE with HS)
2.	Rasmussen syndrome
3.	Focal emotional seizures with hypothalamic hamartoma
E.	Epilepsies attributed to and organized by structural-metabolic causes
1.	Structural (including tumors, vascular malformations)
2.	Infection
3.	Trauma
4.	Perinatal insults
5.	Stroke
6.	Malformations of cortical development
a.	Neurocutaneous disorders
7.	Mitochondrial and metabolic disorders
8.	Autoimmune/paraneoplastic/inflammatory
F.	Epilepsies of unknown cause
G.	Conditions with epileptic seizures traditionally not diagnosed as a form of epilepsy
1.	Benign neonatal seizures (BNS)
2.	Febrile seizures (FS)
H.	Nonepileptic paroxysmal disorders
1.	Syncope and anoxic seizures
a.	Vasovagal syncope
b.	Reflex anoxic seizures
c.	Breath-holding attacks
d.	Hyperventilation syncope
e.	Compulsive valsalva
f.	Neurological syncope
g.	Imposed upper airways obstructions
h.	Orthostatic intolerance
i.	Long QT and cardiac syncope



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	j.	Hypercyanotic spells
2.		Behavioral, psychological, and psychiatric disorders
	a.	Daydreaming/inattention
	b.	Self gratification
	c.	Eidetic imagery
	d.	Tantrums and rage reactions
	e.	Out of body experiences
	f.	Panic attacks
	g.	Dissociative states
	h.	Nonepileptic seizures
	i.	Hallucinations in psychiatric disorders
	j.	Fabricated/factitious illness
3.		Sleep related conditions
	a.	Sleep related rhythmic movement disorders
	b.	Hypnagogic jerks
	c.	Parasomnias
	d.	REM sleep disorders
	e.	Benign neonatal sleep myoclonus
	f.	Periodic leg movements
	g.	Narcolepsy-cataplexy
4.		Paroxysmal movement disorders
	a.	Tics
	b.	Stereotypies
	c.	Paroxysmal kinesigenic dyskinesia
	d.	Paroxysmal nonkinesigenic dyskinesia
	e.	Paroxysmal exercise induced dyskinesia
	f.	Benign paroxysmal tonic upgaze
	g.	Episodic ataxias
	h.	Alternating hemiplegia
	i.	Hyperekplexia
	j.	Opsoclonus-myoclonus syndrome
5.		Migraine associated disorders
	a.	Migraine with visual aura
	b.	Familial hemiplegic migraine



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	c.	Benign paroxysmal torticollis
	d.	Benign paroxysmal vertigo
	e.	Cyclical vomiting
6.		Miscellaneous events
	a.	Benign myoclonus of infancy and shuddering attacks
	b.	Jitteriness
	c.	Sandifer syndrome
	d.	Non-epileptic head drops
	e.	Spasmus nutans
	f.	Raised intracranial pressure
	g.	Paroxysmal extreme pain disorder
I.		Epidemiology
J.		Status epilepticus (SE)
	1.	Convulsive
	2.	Myoclonic
	3.	Focal motor
	4.	Tonic status
	5.	Hyperkinetic
	6.	Nonconvulsive with coma
	7.	Nonconvulsive without coma
	8.	Refractory and super-refractory
02.		Routine EEG
	A.	Normal
		1. Activation and procedures
		2. Benign variants
		3. Artifacts and technical issues
	B.	Interictal epileptiform patterns
	C.	Ictal patterns (localization, status, hypersarrhythmia, ictal neonatal seizures)
	D.	Encephalopathic patterns
03.		Evaluation
	A.	History, examination, and semiology
	B.	Chemical and metabolic screening



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C.	Specialized EEG
1.	Other supplementary and ambulatory
2.	Video EEG
3.	Invasive EEG recordings
a.	Stereo EEG and other depth electrodes
b.	Subdural grid electrodes
c.	Corticography
i.	Functional mapping
D.	Imaging
1.	Choice of structural imaging (CT, MRI)
a.	Specific protocols
2.	Functional imaging
a.	SPECT
b.	PET
c.	MEG
d.	MRS
e.	fMRI
f.	Diffusion tensor imaging
E.	Neuropsychological testing
F.	Spinal fluid analysis (lumbar puncture)
G.	Genetic analysis
04.	Management
A.	Principles of management
1.	History of new-onset seizure(s)
2.	Acute seizure management
3.	Monotherapy vs. polytherapy
4.	Anti-seizure drug selection
5.	Dosing and drug monitoring
6.	Special situations
a.	Neonate



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	b.	Developmental delay
	c.	Cognitively impaired
	d.	Elderly
	e.	Systemic illness
	i.	Hypoxia-ischemia
7.		Gender issues in epilepsy
	a.	Fertility and impotence
	b.	Catamenial epilepsy
	c.	Epilepsy in pregnancy
8.		Discontinuation of medication
B.		Anti-seizure therapies
1.		Specific drugs (regular and extended-release formulations)
	a.	Acetazolamide
	b.	ACTH
	c.	Carbamazepine
	d.	Clonazepam
	e.	Clorazepate
	f.	Diazepam (oral and rectal gel)
	g.	Divalproex sodium
	h.	Ethosuximide
	i.	Felbamate
	j.	Gabapentin
	k.	Lacosamide
	l.	Lamotrigine
	m.	Levetiracetam
	n.	Lorazepam
	o.	Oxcarbazepine
	p.	Phenobarbital
	q.	Phenytoin
	r.	Pregabalin



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s.	Primidone
t.	Rufinamide
u.	Tiagabine
v.	Topiramate
w.	Valproate
x.	Vigabatrin
y.	Zonisamide
z.	Clobazam
aa.	Eslicarbazepine
bb.	Midazolam
cc.	Perampanel
dd.	Cannabidiol
ee.	Brivaracetam
ff.	Stiripentol
gg.	Cenobamate
hh.	Other
2.	Mechanisms of action of above drugs
3.	Drug interactions (pharmacokinetic/pharmacodynamic)
4.	Drug toxicities and teratogenicity
5.	Monitoring principles
6.	Other therapies
a.	Diet therapies
i.	Indications
ii.	Patient selection
iii.	Monitoring
iv.	Duration
b.	Hormonal therapies
i.	ACTH
ii.	Other steroidal therapies
c.	Immunoglobulin therapy



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	d.	Vagus nerve stimulation
	e.	Other forms of stimulation
	f.	Alternative and complementary therapies
C.		Surgical therapies
	1.	Indications for referral
		a. Definition of intractable epilepsies
		b. Duration of epilepsy and failure of response to medication
	2.	Evaluation for possible surgery
		a. Wada testing and special neuropsychological evaluation
	3.	Types of surgical procedure
		a. Focal resections
		i. Temporal lobe
		ii. Frontal lobe
		iii. Parieto-occipital
		b. Hemispherectomies
		i. Neocortical
		ii. Standard anterior temporal lobectomy
		iii. Selective mesial resections
		c. Multiple subpial transections
		d. Corpus callosotomies
		e. Repeat surgical procedures
		f. Other
	4.	Complications of surgery
		a. Outcome
D.		Status epilepticus
	1.	Acute management
	2.	Drug therapy
		a. First-line
		b. Second-line
		c. Third-line



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3.	Anesthetic therapies
4.	Continuous EEG monitoring
5.	Systemic complications
6.	Outcome
E.	Psychosocial management
1.	Patient and family education
a.	Drug information
b.	Compliance
c.	Safety issues
i.	Sleep deprivation
ii.	Sports participation
iii.	Drug and alcohol risks
iv.	Driving regulations
v.	Piloting regulations
vi.	Bathing
2.	School and work situations
a.	IEPs
b.	ADA
c.	Disability
3.	Quality of life
a.	Dating
b.	Marriage
c.	Stigma
4.	Sleep and epilepsy
5.	Prognosis and counseling
F.	Comorbidities and adverse outcomes including SUDEP
1.	Psychiatric issues
2.	Cognitive issues
3.	Mortality
4.	Migraine



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5.	Medical complications
6.	Sleep
05.	Systems-based practice issues
A.	Public policy issues (education, driving, research funding)
B.	Working with educational systems
C.	Employment issues
D.	Clinical trials of new therapies
E.	Forensic epilepsy
F.	Ethics
06.	Mechanisms of the epilepsies
A.	Pathophysiology of the epilepsies
B.	Physiological basis of epileptic EEG patterns
C.	Pathology of the epilepsies