



**SUBSPECIALTY CERTIFICATION EXAMINATION
IN CLINICAL NEUROPHYSIOLOGY
2009 Content Outline**

200 Questions	Percent
I. Basic Science	16%
A. Physiology	15%
1. Potentials – resting, action, conduction	5%
2. Synaptic transmission – NMJ, central	5%
3. Generators – anatomy, mechanisms	2%
4. Temperature effects	1%
5. Volume conduction – polarity, far-/near-field	2%
B. Instrumentation	1%
II. EEG	37%
A. Methods	5%
1. Techniques – activation, other	2%
2. Artifacts – specific EEG, physiologic	3%
B. Basic patterns	10%
1. Maturation and age-related changes	5%
2. Variants – normal and uncommon	5%
C. Clinical correlations	22%
1. Seizures and other paroxysmal events	7%
2. Focal lesions	2%
3. Diffuse encephalopathies: coma, death	6%
4. Drugs and treatment effects	2%
5. Periodic and uncertain patterns	4%
6. Infant and pediatric disorders	1%
III. NCS/EMG	37%
A. Methods	7%
1. Anatomy	5%
2. Techniques	2%
a. NCS	
b. EMG	
c. Repetitive stimulation	
d. SFEMG	



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B.	Basic patterns	10%
1.	NCS	
2.	EMG	
3.	Repetitive stimulation	
4.	Artifacts	
C.	Clinical correlations	20%
1.	Peripheral nerve disease	4%
a.	Diffuse axon loss	
b.	Diffuse demyelinating	
c.	Focal	
d.	Multifocal	
e.	Cranial	
f.	Hyperexcitability states (Isaacs, other myokymias, etc.)	
2.	Central disease—motor neuron, cord, stem	2%
a.	ALS	
b.	Other motor neuron diseases	
c.	Cord/stem	
3.	Neuromuscular junction disease	3%
a.	Myasthenia gravis	
b.	LEMS	
c.	Botulism	
d.	Other (repetitive CMAPs with single stimuli, etc.)	
4.	Muscle disease	4%
a.	Inflammatory	
b.	Dystrophy	
c.	Metabolic/toxic (storage diseases, endocrine, mitochondrial, critical illness, steroid, etc.)	
d.	Channelopathies (periodic paralyses, myotonia/paramyotonia congenita, etc.)	
5.	Pediatric disorders	2%
6.	Patterns—prognosis, evolution of disease	5%



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IV. Other CNP	10%
A. Evoked potentials	4%
B. Sleep	3%
C. Autonomic	1%
D. Central EMG, movement disorders	1%
E. Intraoperative monitoring and ICU	1%
F. Ethics	1%
TOTAL	100%