Class Preparation: Degenerative Disorders

Directions: Match the Degenerative Disorder with the picture and identify 3 signs & symptoms:

A. Amyotrophic Lateral Sclerosis (ALS)   1. muscle fatigue   2. dyspnea   3. dysphagia
B. Parkinson's Disease   1. tremors   2. postural instability   3. pain
C. Myasthenia Gravis   1. muscle fatigue   2. difficulty breathing   3. impaired speech
D. Huntington's Disease   1. involuntary movements   2. facial movements   3. slurred speech
E. Multiple Sclerosis   1. fatigue   2. blurred vision   3. weakness

d ____

Healthy brain

Lateral ventricles
Caudate nucleus
Putamen

Enlarged ventricles

Degeneration and atrophy of the dorsal striatum

b ____

Transmitting Neuron
Dopamine
Receptor Cell
Healthy Patient

Transmitting Neuron
Dopamine
Receptor Cell

a ____

PROGRESSIVE NEUROMUSCULAR DISEASE

UPPER MOTOR NEURON
LOWER MOTOR NEURON

c ____

Normal Neuromuscular Junction

Myelin sheath
Axon
Nicotinic receptors
Muscle
Acetylcholine

Myasthenia Gravis

Myelin sheath
Axon
Nicotinic receptors
Muscle
Acetylcholine
Antibodies against nicotinic receptor

e ____

Signal
Schwann cells
Healthy neuron

Signal
Exposed fiber
Damaged myelin