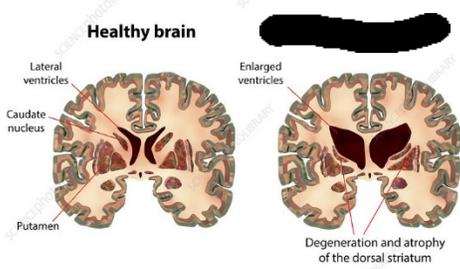
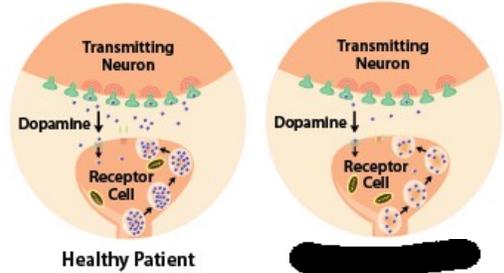
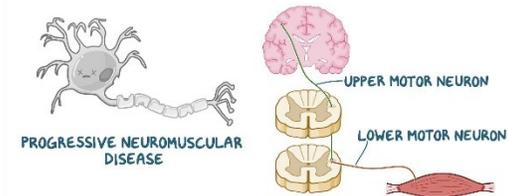
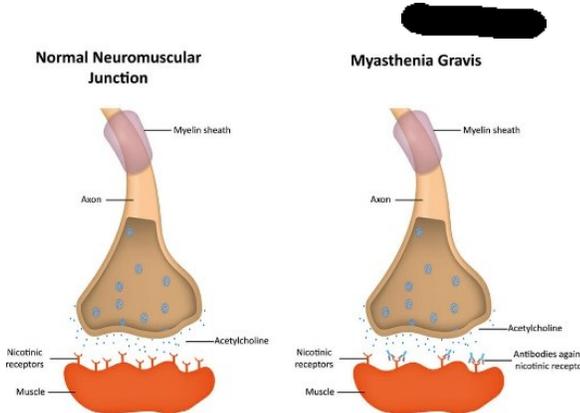
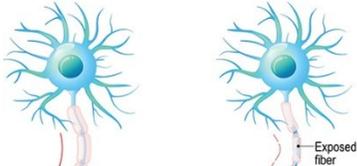


Class Preparation: Degenerative Disorders

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

<p>A. Amyotrophic Lateral Sclerosis (ALS)</p> <ol style="list-style-type: none"> 1. Muscle Weakness that progresses 2. Twitching in hands, feet, shoulder, tongue... 3. Difficulty swallowing 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> D </div>	 <p>Healthy brain</p> <p>Lateral ventricles Caudate nucleus Putamen</p> <p>Enlarged ventricles Degeneration and atrophy of the dorsal striatum</p>
<p>B. Parkinson's Disease</p> <ol style="list-style-type: none"> 1. Sleep disorders 2. Rigidity 3. Unstable posture and stiffened muscles, tremor 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> B </div>	 <p>Transmitting Neuron Dopamine</p> <p>Receptor Cell</p> <p>Healthy Patient</p>
<p>C. Myasthenia Gravis</p> <ol style="list-style-type: none"> 1. Droopy Eyelids, blurry or double vision 2. Muscle Weakness and fatigue 3. Limited facial expressions 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> A </div>	 <p>PROGRESSIVE NEUROMUSCULAR DISEASE</p> <p>UPPER MOTOR NEURON LOWER MOTOR NEURON</p>
<p>D. Huntington's Disease</p> <ol style="list-style-type: none"> 1. Loss of coordination 2. Slurred speech and difficulty swallowing 3. Jerking and twitching 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> C </div>	 <p>Normal Neuromuscular Junction</p> <p>Myelin sheath Axon Acetylcholine Nicotinic receptors Muscle</p> <p>Myasthenia Gravis</p> <p>Myelin sheath Axon Acetylcholine Antibodies against nicotinic receptor Nicotinic receptors Muscle</p>
<p>E. Multiple Sclerosis</p> <ol style="list-style-type: none"> 1. Severe fatigue 2. Weak and heavy limbs 3. Difficulty hearing 		 <p>Exposed fiber</p>