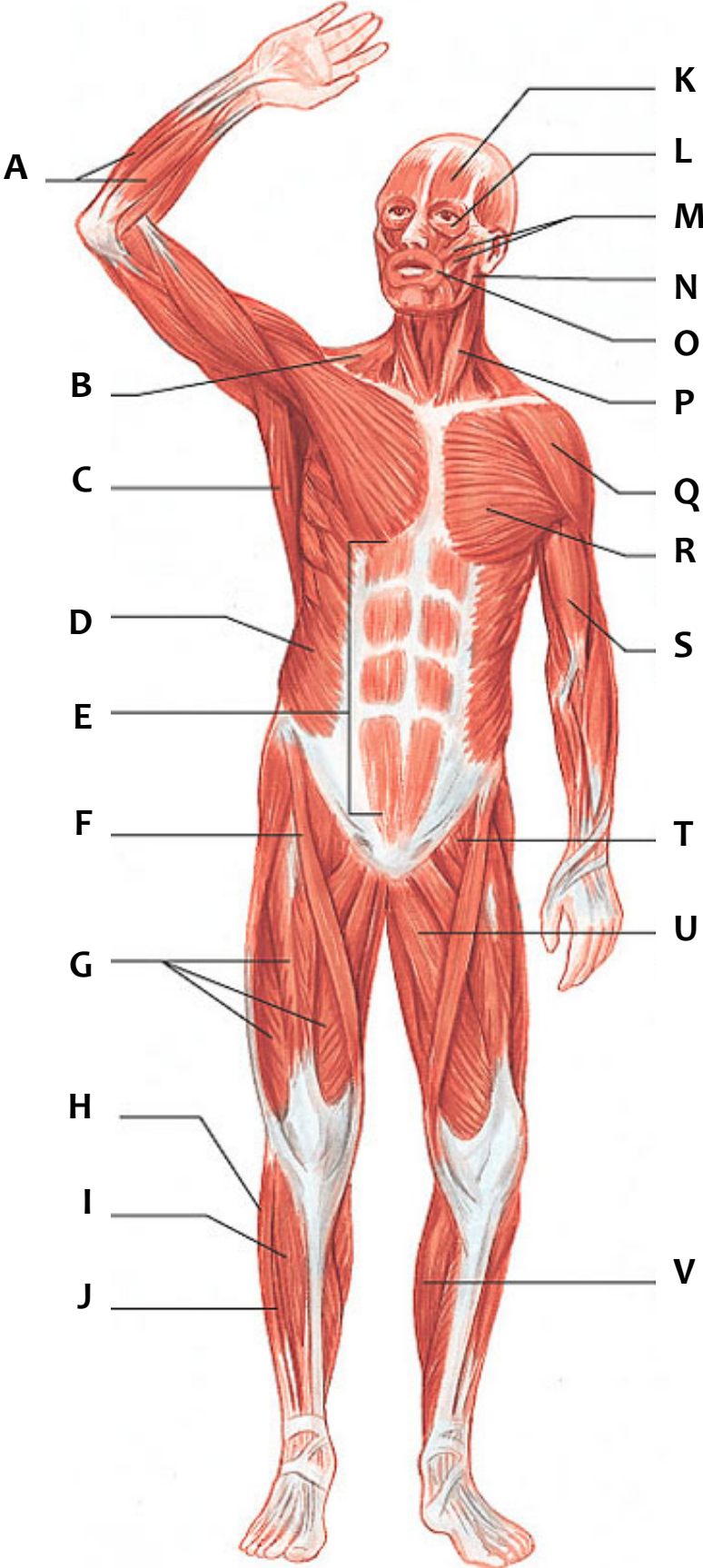
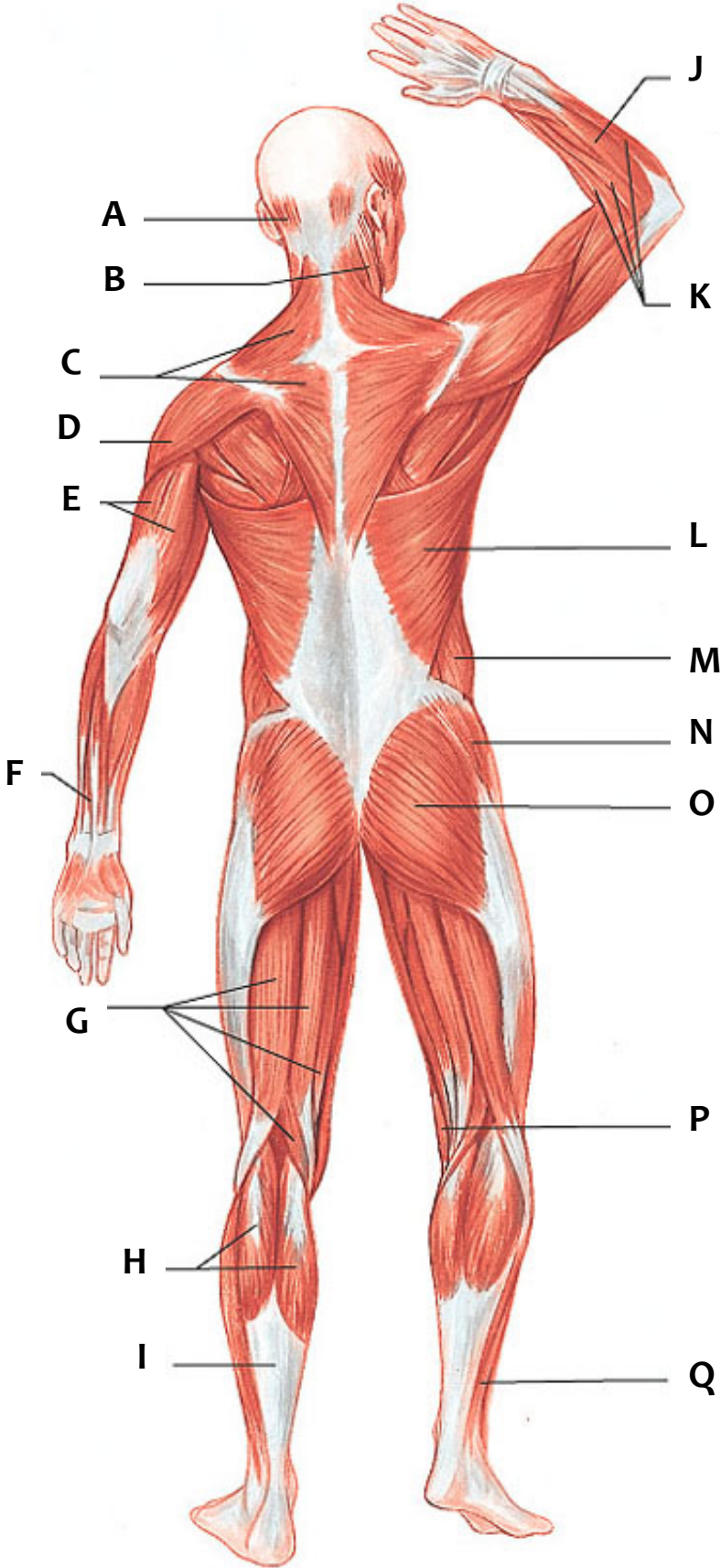


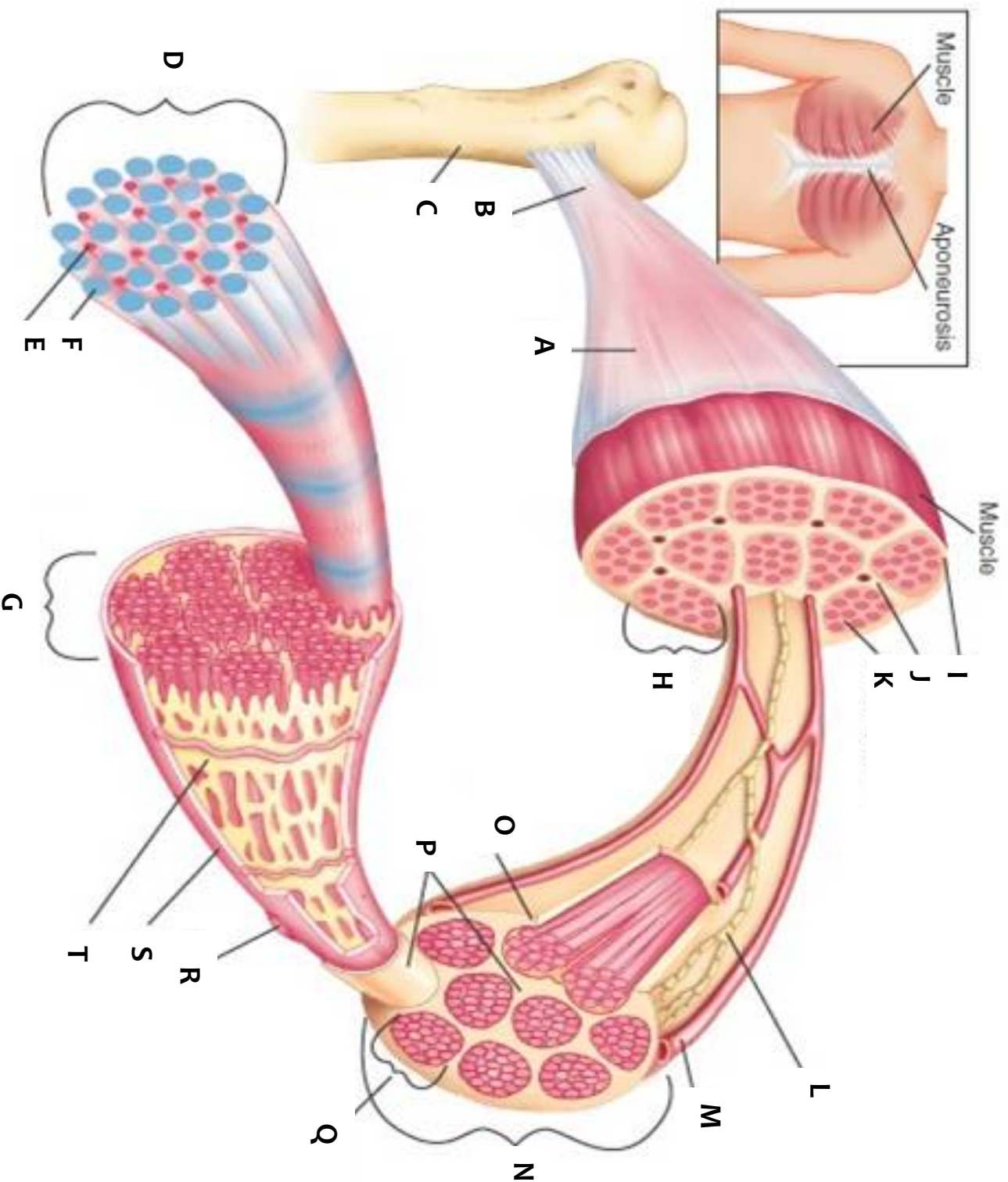
STATION 1: ANTERIOR MUSCLES



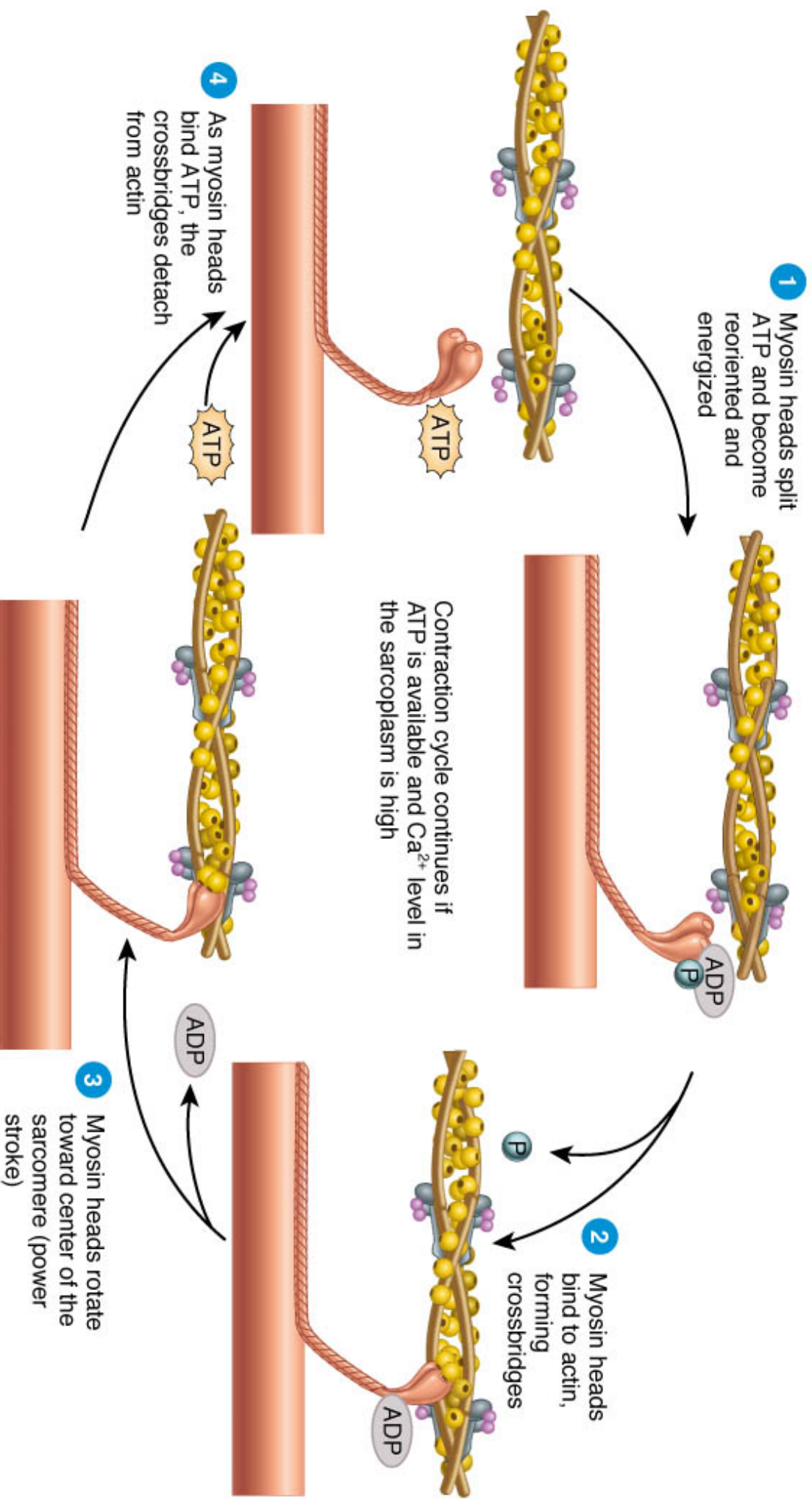
STATION 1: POSTERIOR MUSCLES



STATION 1: MUSCLE STRUCTURE



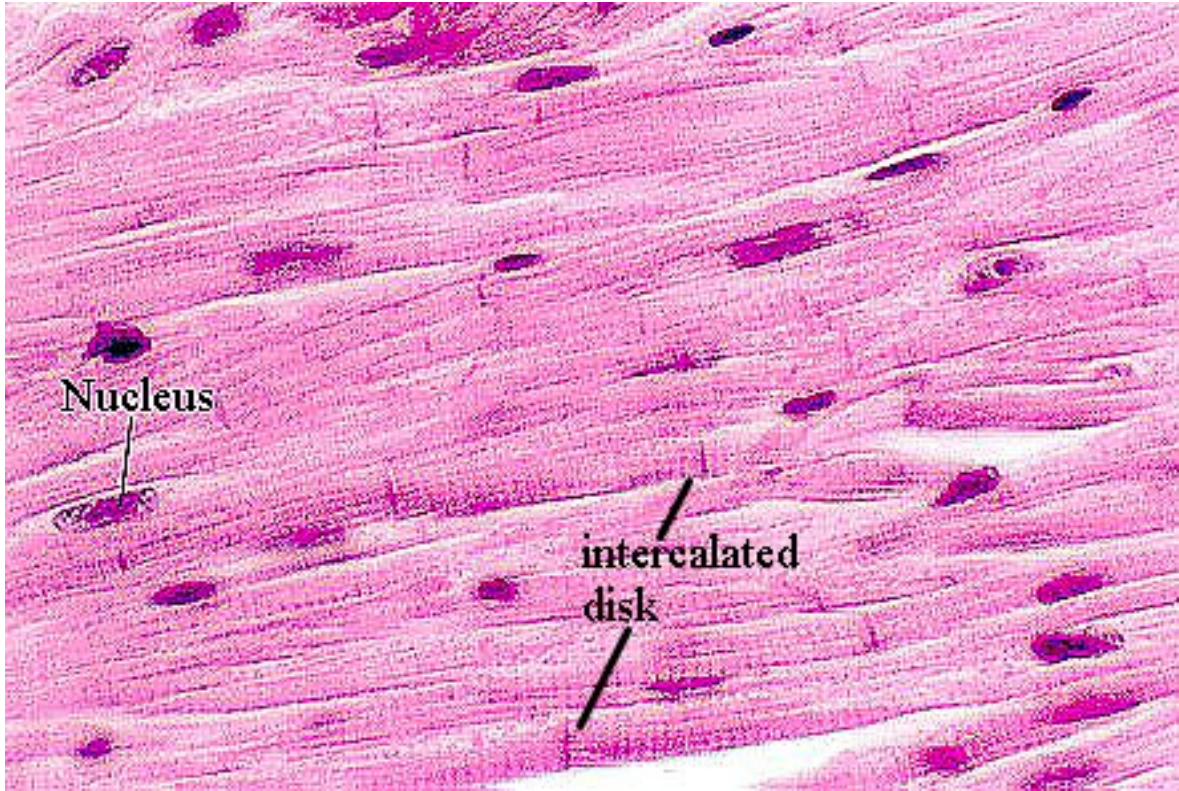
STATION 1: MUSCLE CONTRACTION



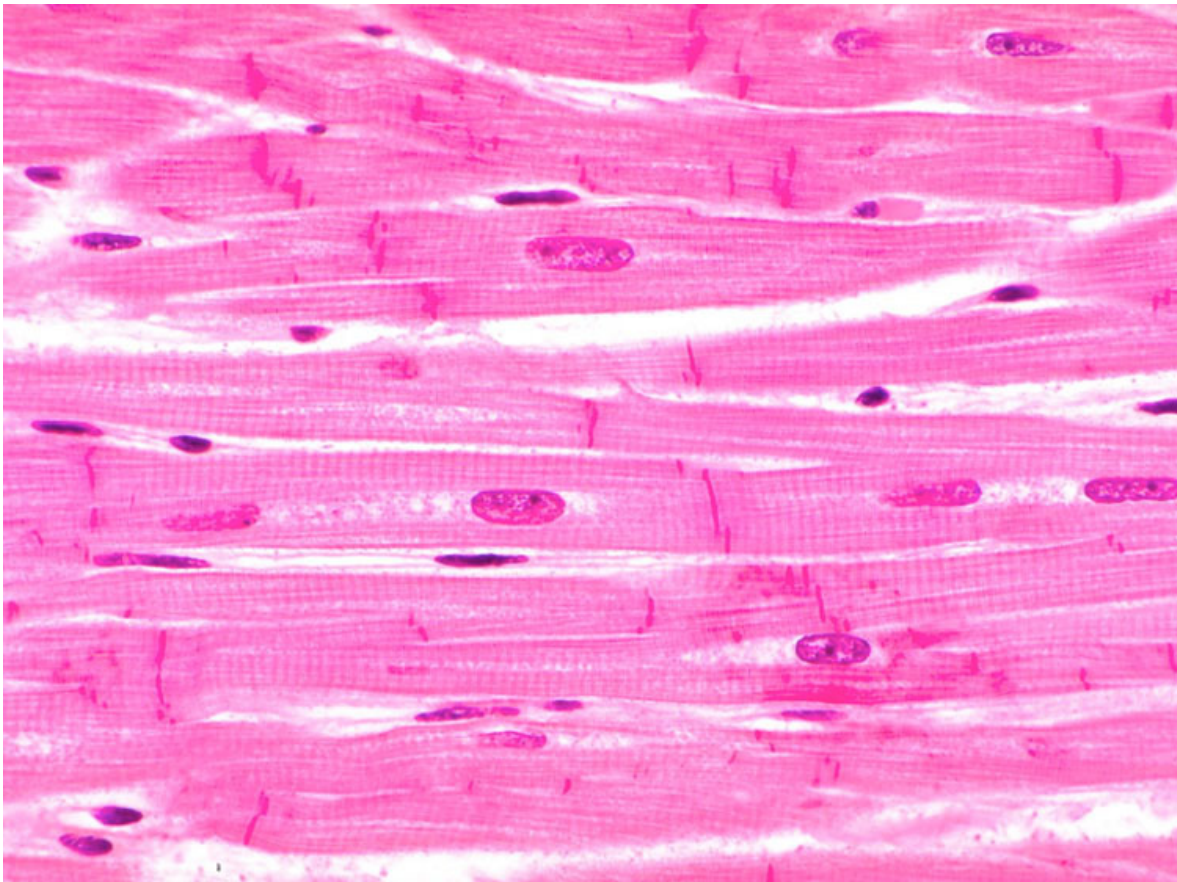
http://classroom.sdmesa.edu/eschmidl/Fo8_06.L.150.jpg

STATION 3: CARDIAC MUSCLE

A



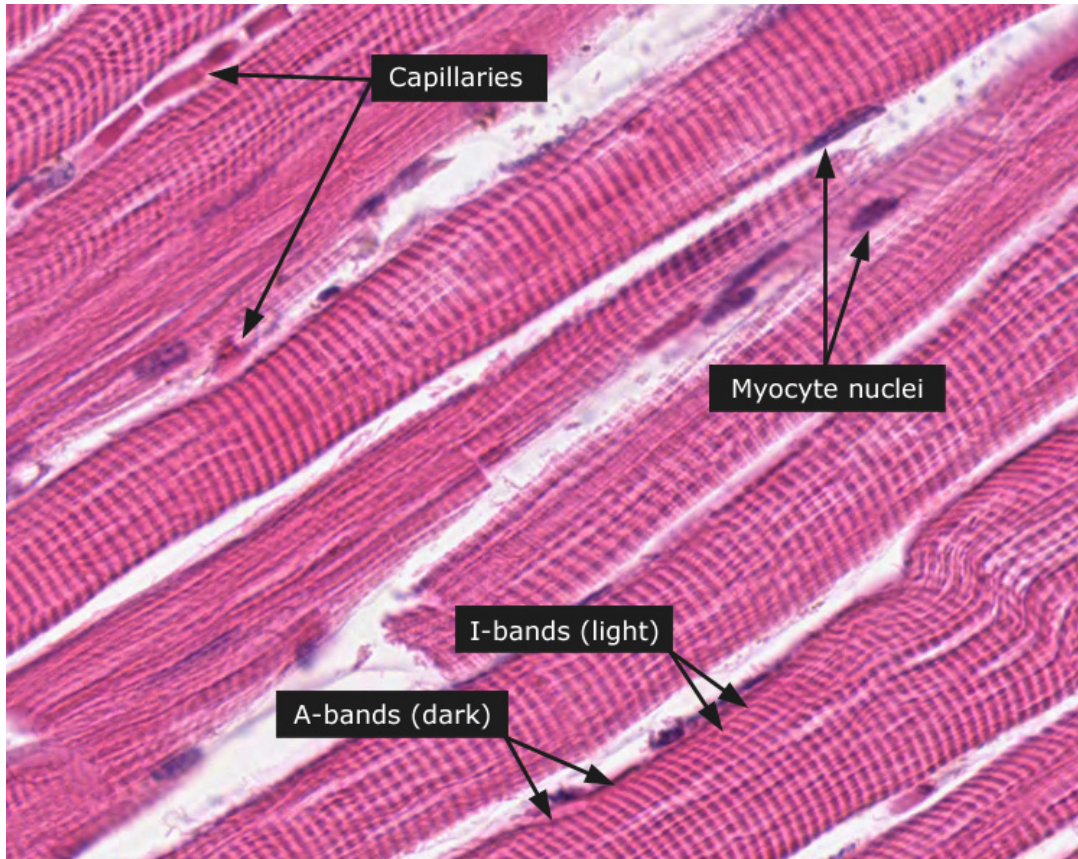
B



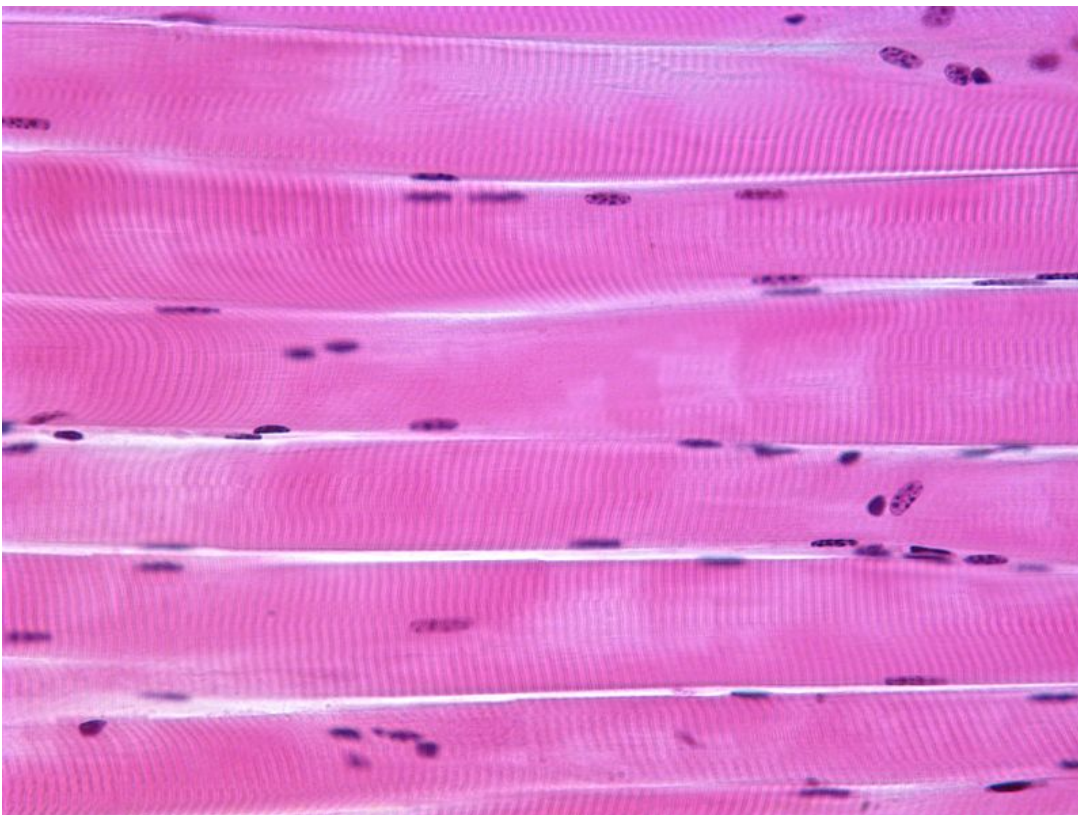
<http://www.cytochemistry.net/microanatomy/muscle/muscle12.jpg>
http://medcell.med.yale.edu/systems_cell_biology/muscle/images/cardiac_muscle.jpg

STATION 3: SKELETAL MUSCLE

A



B

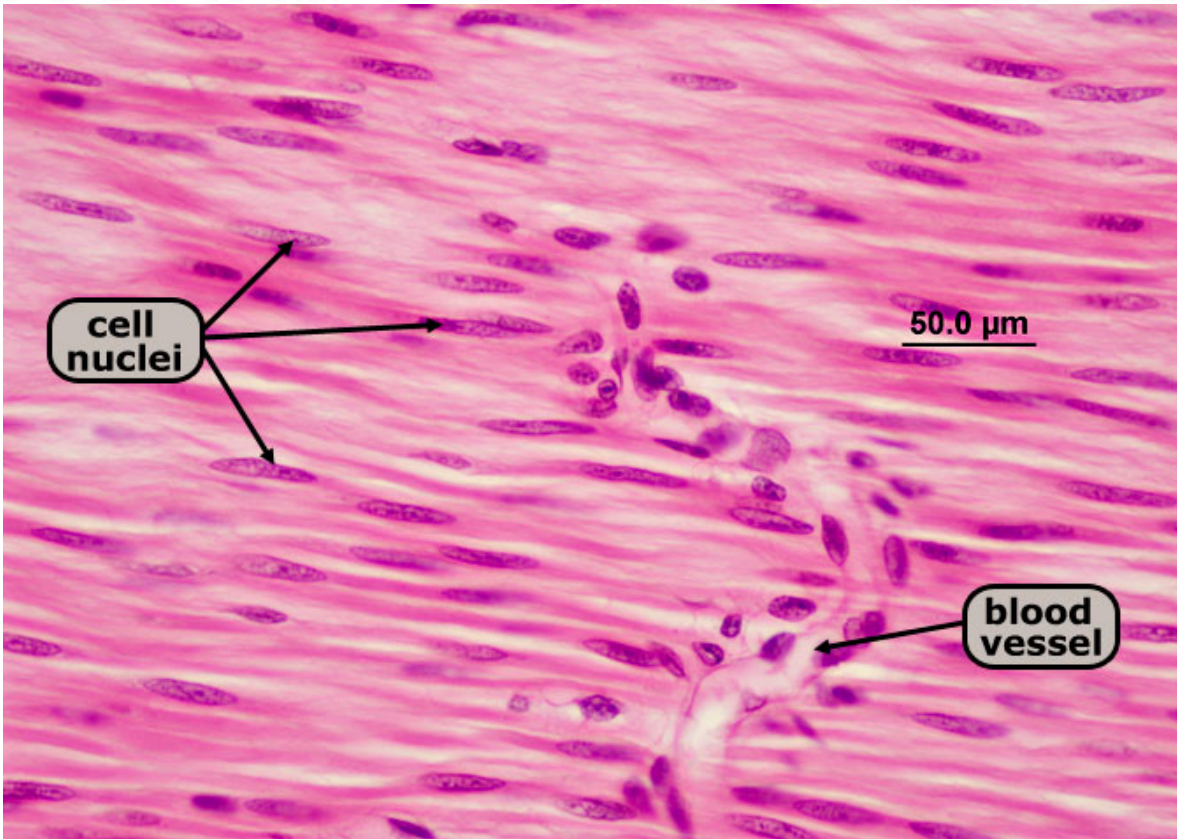


http://stevegallik.org/sites/histologyolm.stevegallik.org/images/SkeletalMuscle_2.jpg

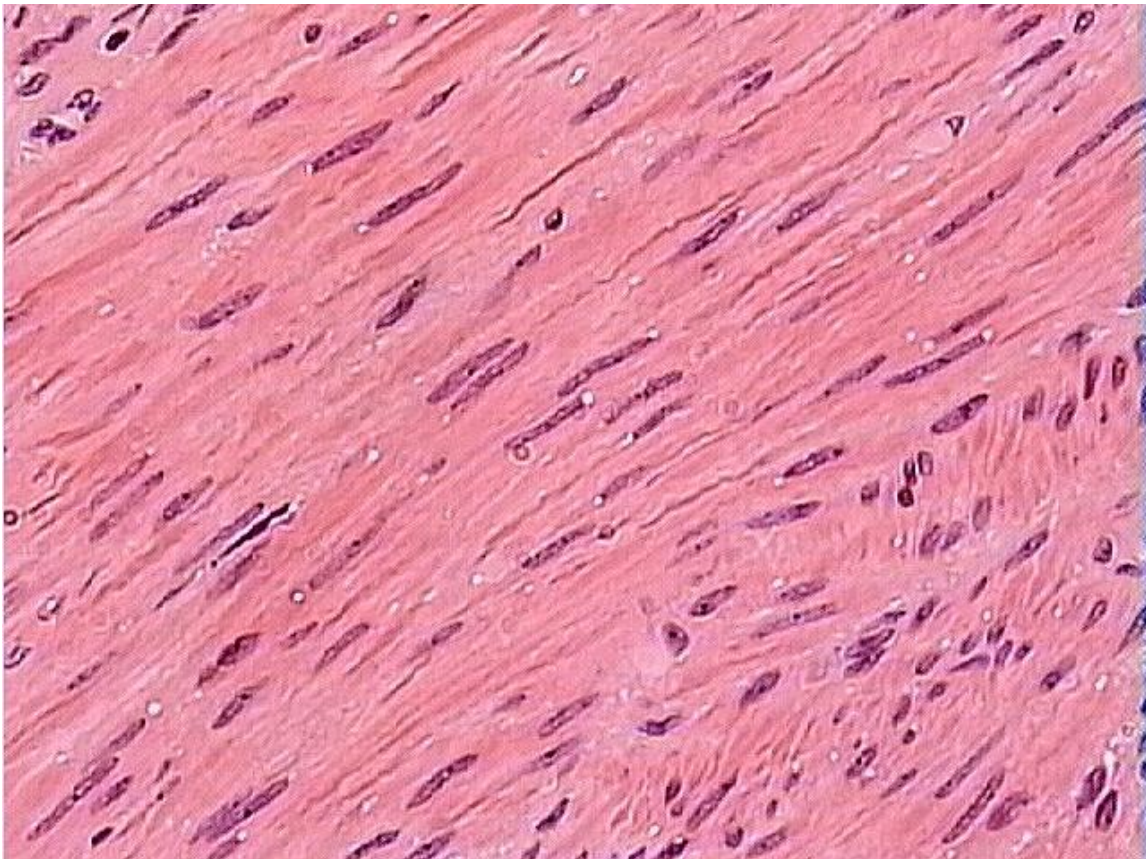
http://www.proteinatlas.org/images_dictionary/skeletal_muscle_1_example_1_1_100_1.jpg

STATION 3: SMOOTH MUSCLE

A



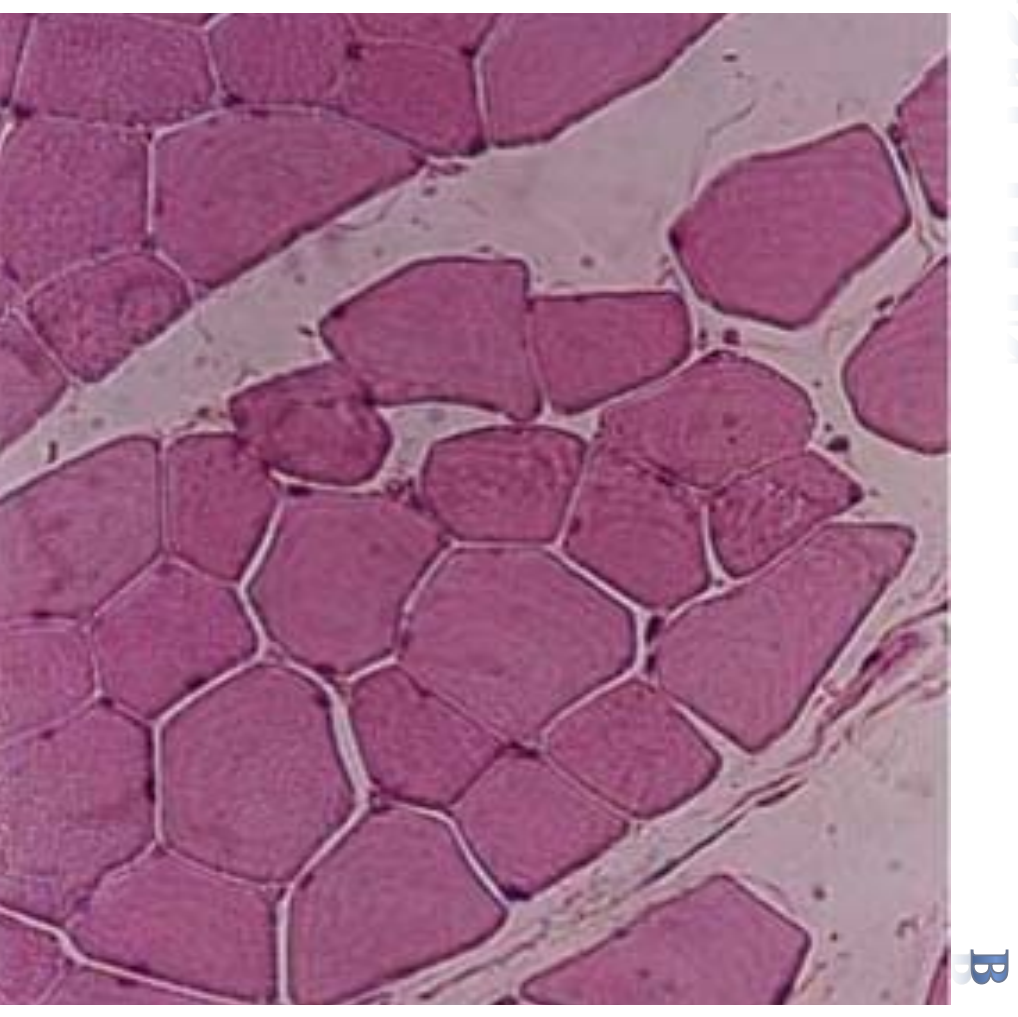
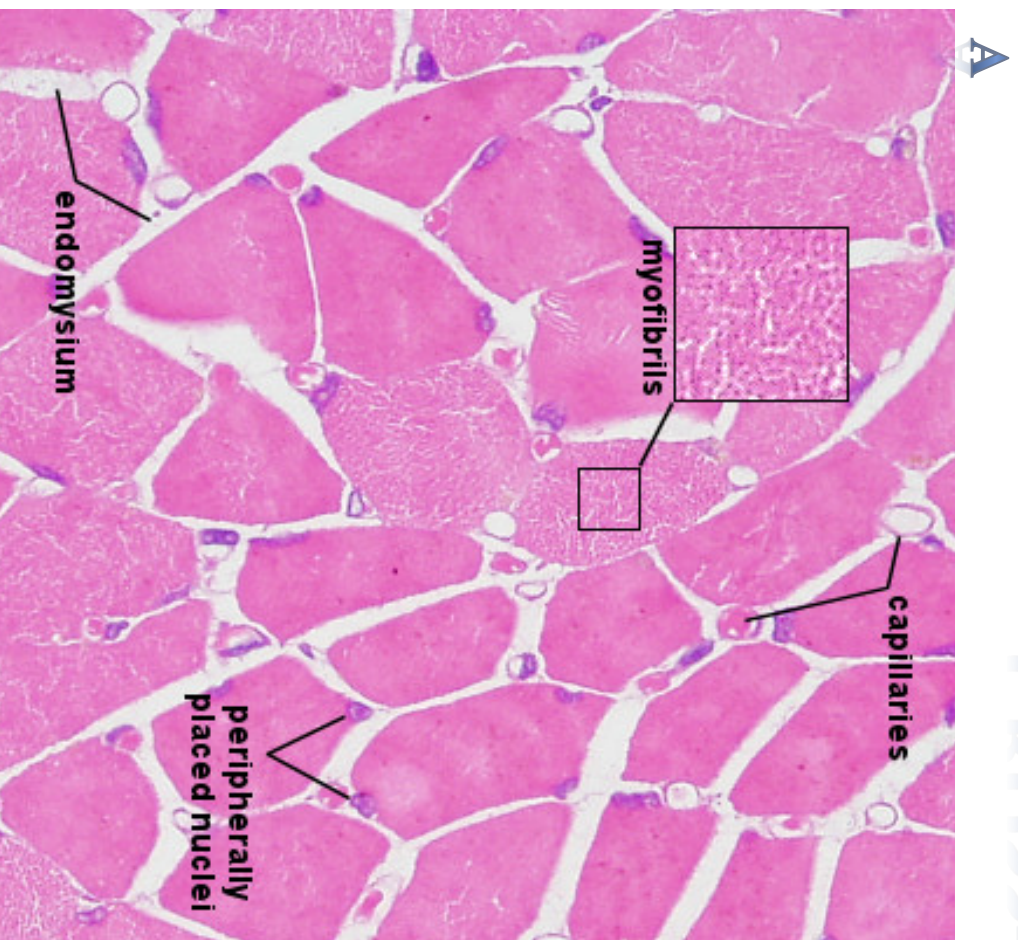
B



http://www.deanza.edu/faculty/mccauley/6a_site_images/tissues-images/smooth-muscle-670.jpg

<http://faculty.clintoncc.suny.edu/faculty/michael.gregory/files/bio%20102/bio%20102%20lectures/animal%20cells%20and%20tissues/Image12.jpg>

STATION 3: SKELETAL MUSCLE CROSS-SECTION



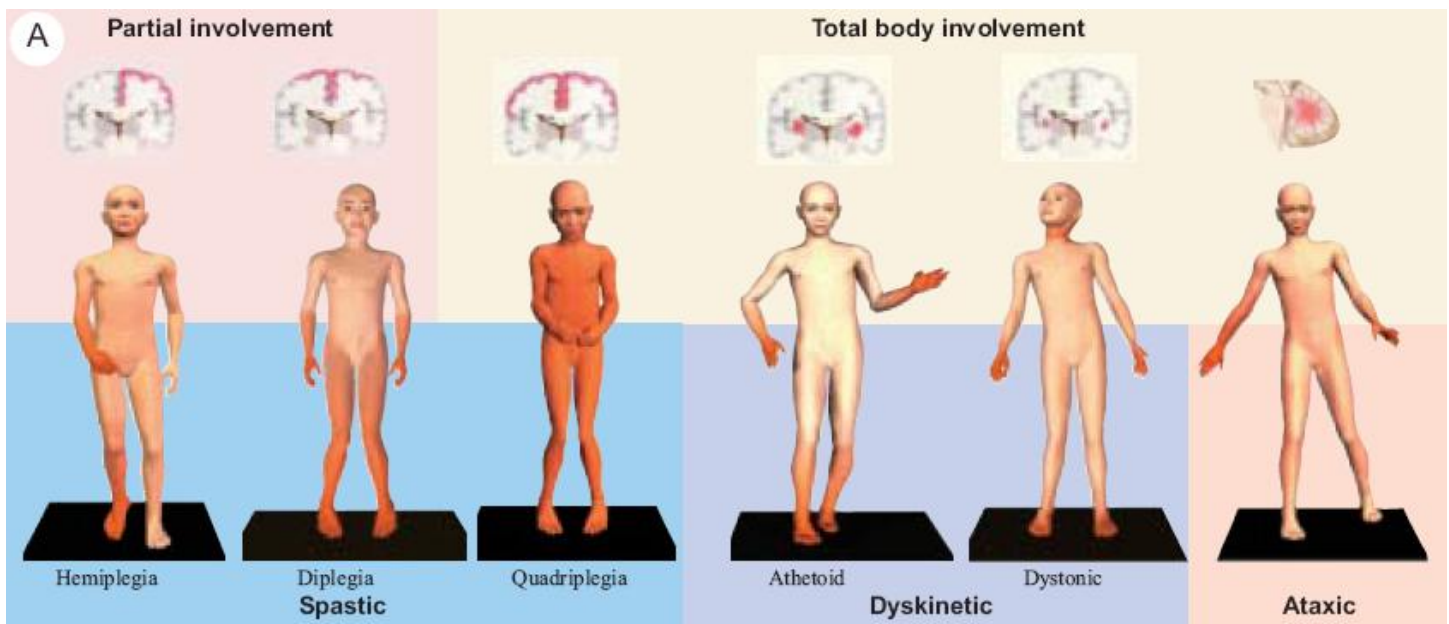
<http://www.lab.anhb.uwa.edu.au/mb140/corepages/muscle/Images/skem042he.jpg>

<http://www.histology-world.com/photomicrographs/striatedmuscle1.jpg>

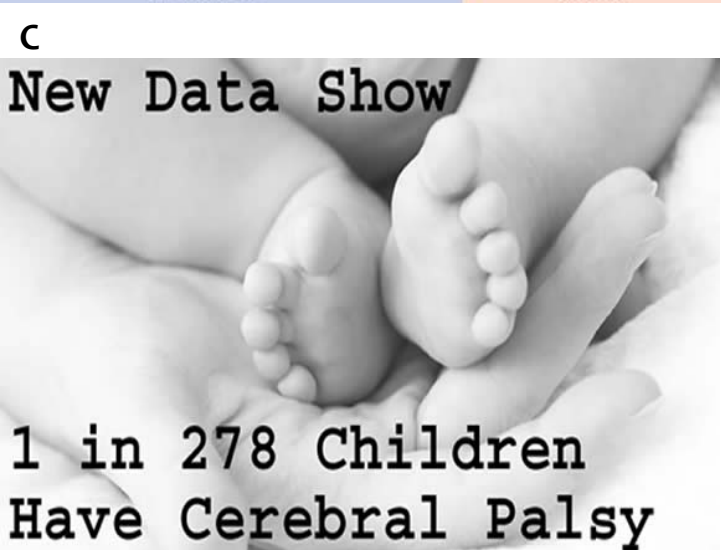
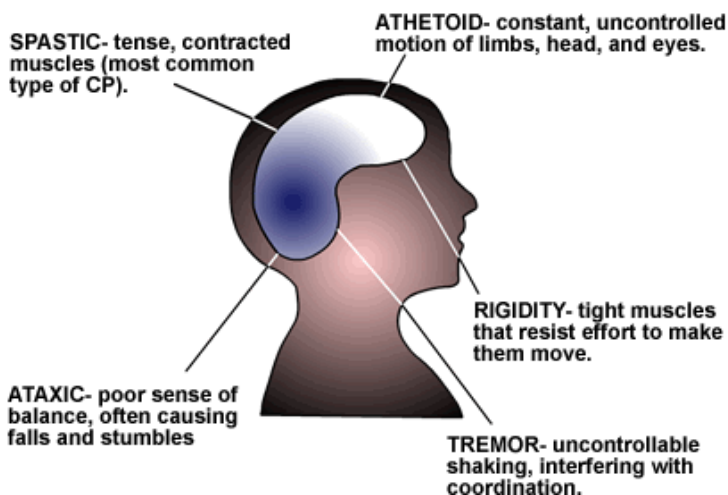
Station 5: Cerebral Palsy

Spastic paralysis causing muscle weakness

Causes & Risk Factors	Symptoms	Treatment Options
<ul style="list-style-type: none"> Brain injury or abnormality Hypoxia during Premature birth Brain infections Head injury Bleeding in the brain 	<ul style="list-style-type: none"> Mild to severe Delayed development Muscle tightness Abnormal gait Joint contracture Paralysis Seizures 	<ul style="list-style-type: none"> No cure Medication for symptoms Physical therapy Surgical intervention



B TYPES OF CEREBRAL PALSY



- A. http://disability-claims.net/images/types_of_cp.gif
 B. http://trialx.com/g/Dyskinetic_Cerebral_Palsy-1.jpg
 C. http://4.bp.blogspot.com/_n_OcMnQ5i6w/TOSzXFqamil/AAAAAAAAACg/TzD4a_hUVR8/s1600/cerebralpalsy1.jpg

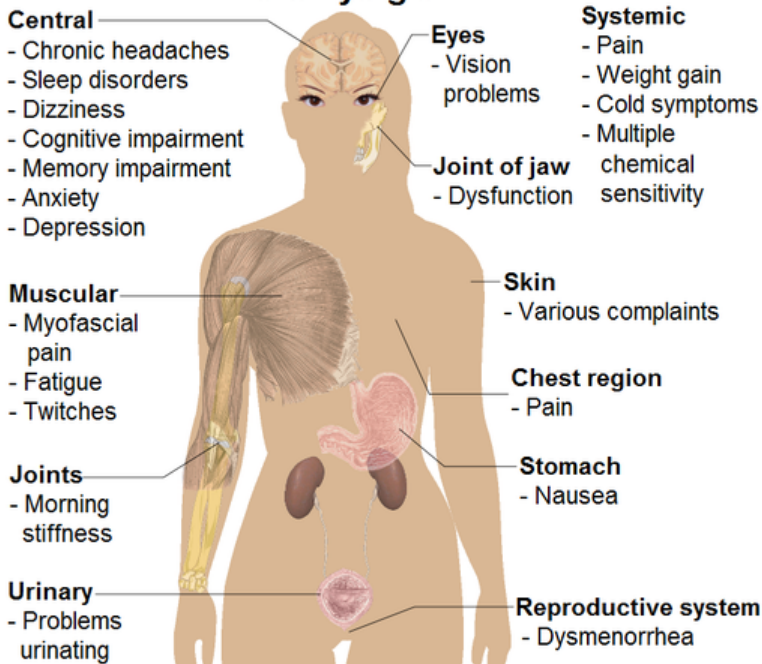
Station 5: Fibromyalgia

Muscle pain

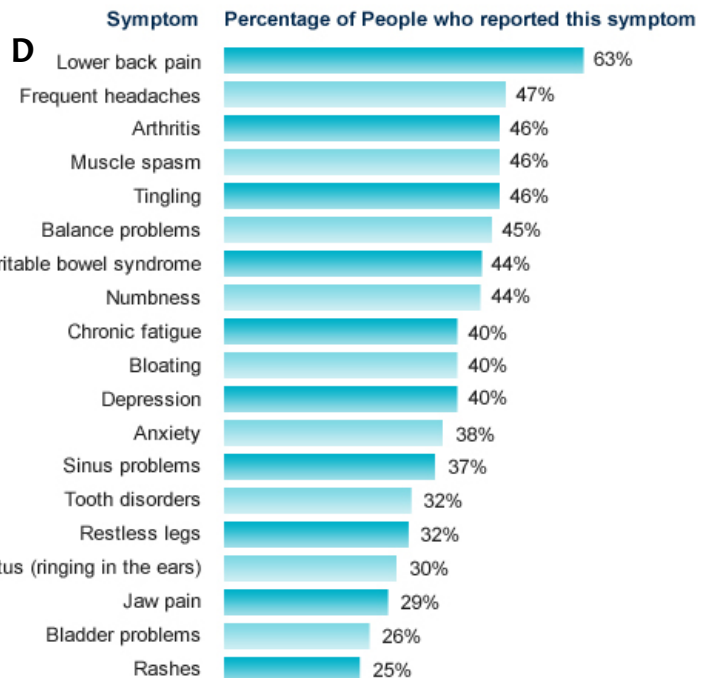
Causes & Risk Factors	Symptoms	Treatment Options
<ul style="list-style-type: none"> Exact cause is unknown, possibly: Physical trauma Abnormal pain response Sleep disturbances Infection More common in women 	<ul style="list-style-type: none"> Muscle pain Tender points Joint pain Stiffness Fatigue Depression Insomnia 	<ul style="list-style-type: none"> Physical therapy Exercise regimen Massage Relaxation techniques Medication Lifestyle change

A

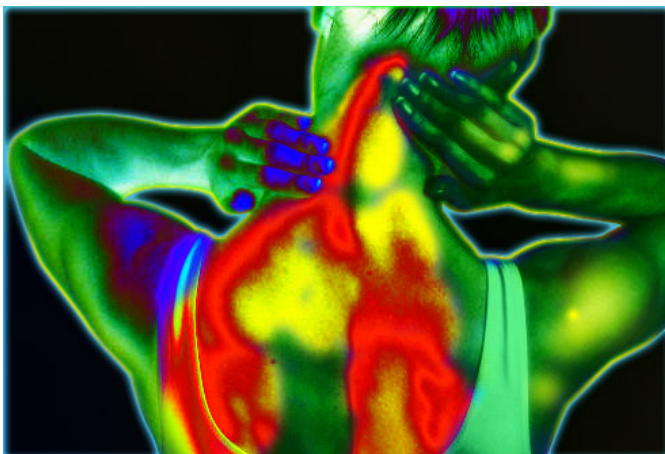
Symptoms of Fibromyalgia



B



C

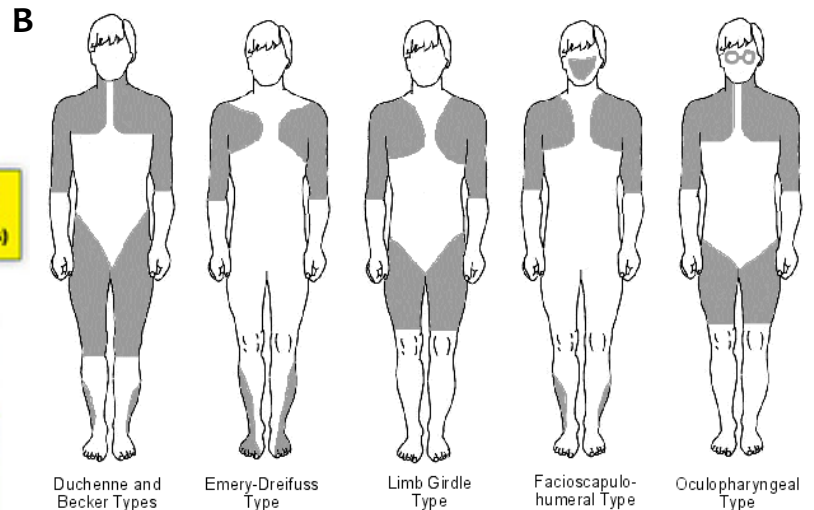
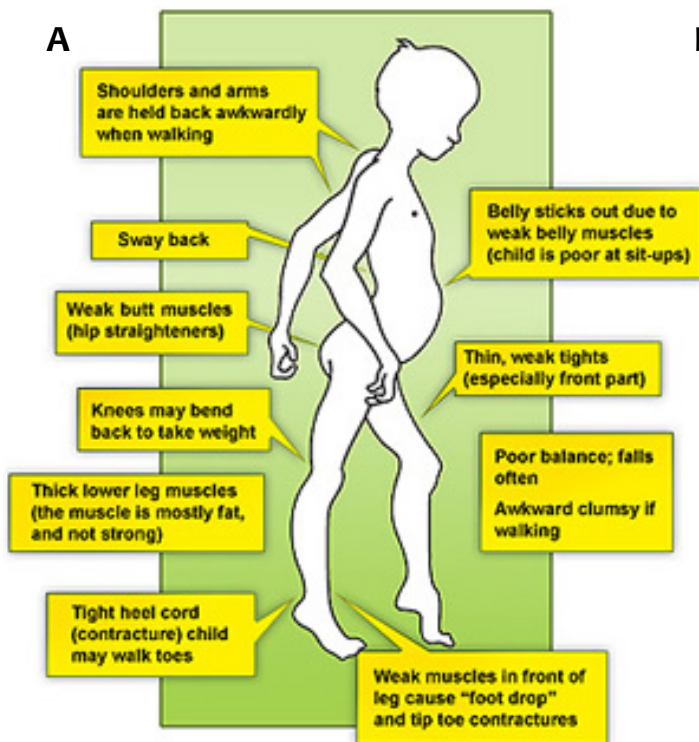


- A. <http://img2.timeinc.net/health/images/slides/fibro-wrist-pain-300x200.jpg>
 B. http://upload.wikimedia.org/wikipedia/commons/thumb/3/39/Symptoms_of_fibromyalgia.png/512px-Symptoms_of_fibromyalgia.png
 C. http://img.webmd.com/dtmcms/live/webmd/consumer_assets/site_images/articles/health_tools/fibromyalgia_overview_slideshow/getty_rm_photo_of_woman_holding_neck.jpg
 D. http://www.fibrocenter.com/images/subPages/symptom_percent.jpg

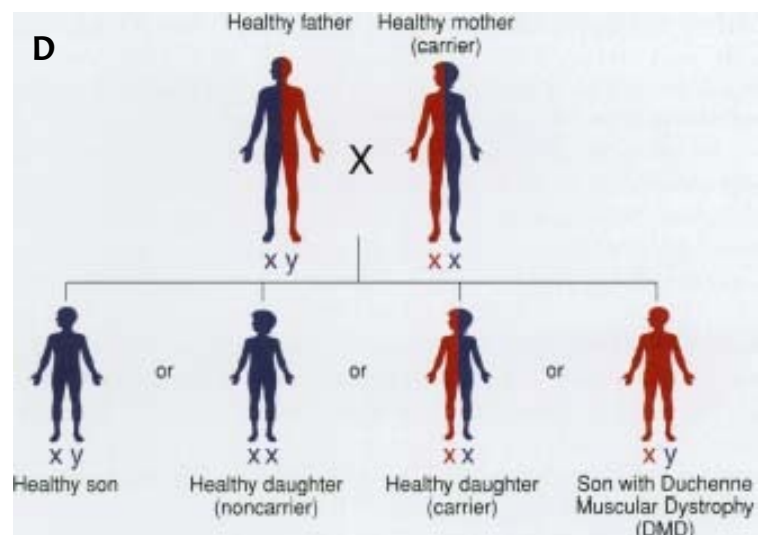
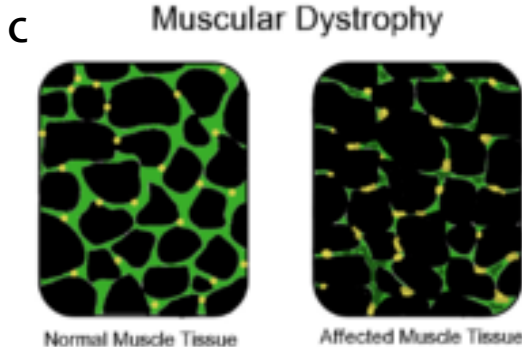
Station 5: Muscular Dystrophy

Muscle weakness and atrophy

Causes & Risk Factors	Symptoms	Treatment Options
<ul style="list-style-type: none"> • Genetic • Different types depending on mutation: <ul style="list-style-type: none"> • Duchenne • Becker • Myotonia congenital • Myotonic • Emery-Dreifuss • Facioscapulohumeral 	<ul style="list-style-type: none"> • Mental retardation • Muscle weakness • Eyelid drooping • Loss of strength • Muscle atrophy • Delayed motor skills 	<ul style="list-style-type: none"> • No known cure • Physical therapy • Medication • Surgery to improve function • Physical activity (as much as possible)



Main areas of muscle weakness in different types of dystrophy

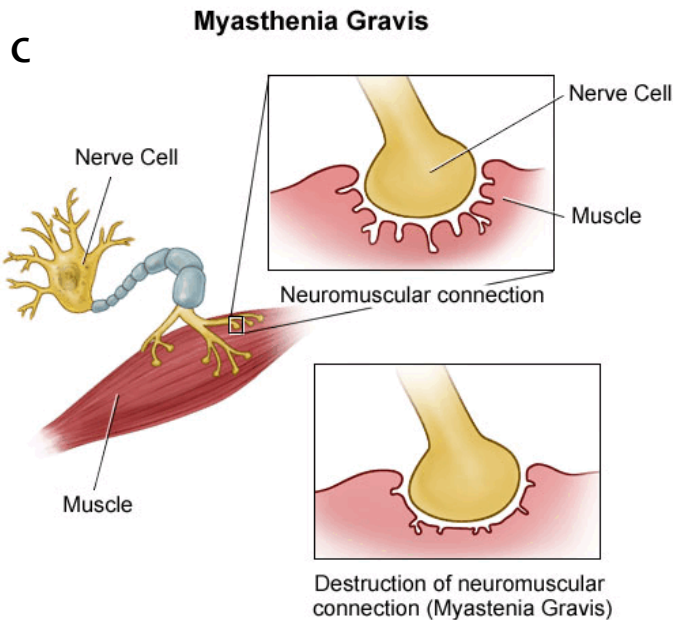
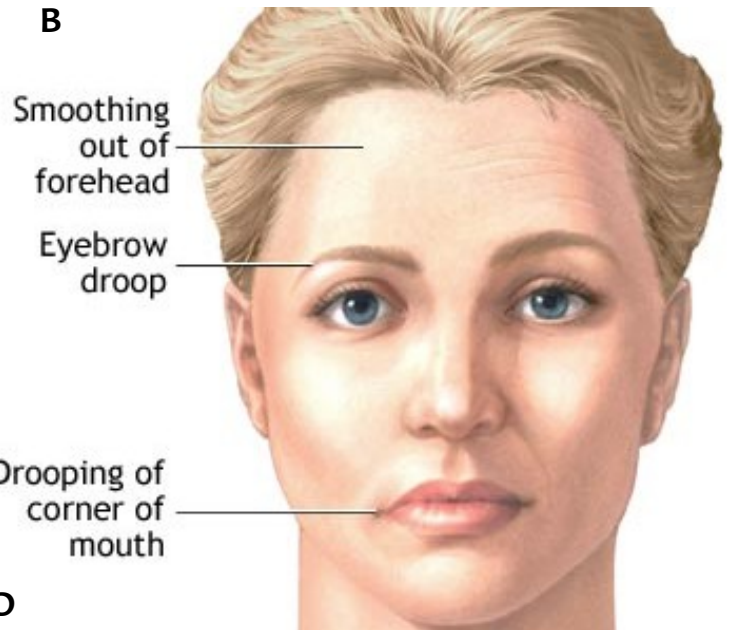


- A. <http://upload.wikimedia.org/wikipedia/commons/thumb/7/75/MuscularDystrophy.png/230px-MuscularDystrophy.png>
- B. <http://medical.cdn.patient.co.uk/images/249.gif>
- C. http://www.humanillnesses.com/original/images/hdc_0001_0002_o_img0183.jpg
- D. http://24.media.tumblr.com/tumblr_ltsr1wZiSa1qimj78o1_400.jpg

Station 5: Myasthenia Gravis

Neuromuscular disorder that blocks neurotransmitters

Causes & Risk Factors	Symptoms	Treatment Options
<ul style="list-style-type: none"> • Autoimmune • Possible tumor of the thymus • Age • More common in women 	<ul style="list-style-type: none"> • Muscle weakness • Shortness of breath • Swallowing and chewing difficulty • Facial paralysis • Drooping eyelids • Double vision 	<ul style="list-style-type: none"> • No known cure • Medications • Thymectomy • Eye patch for double vision



D Table 2. Frequency of psychiatric disorders in patients with myasthenia gravis.

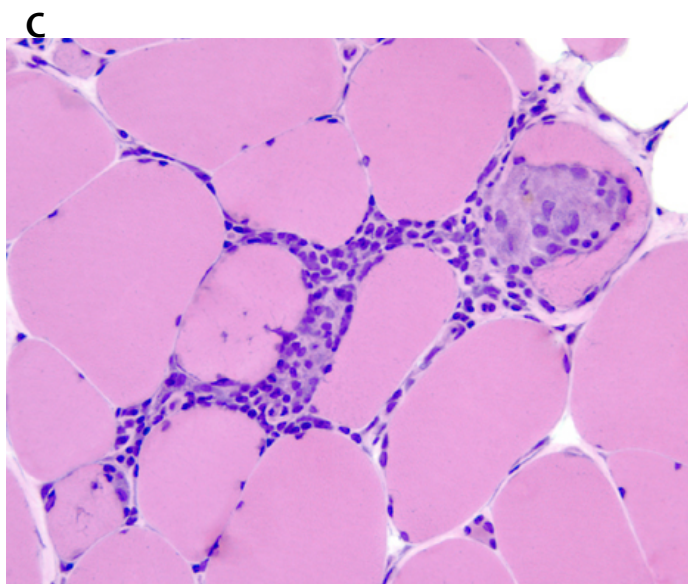
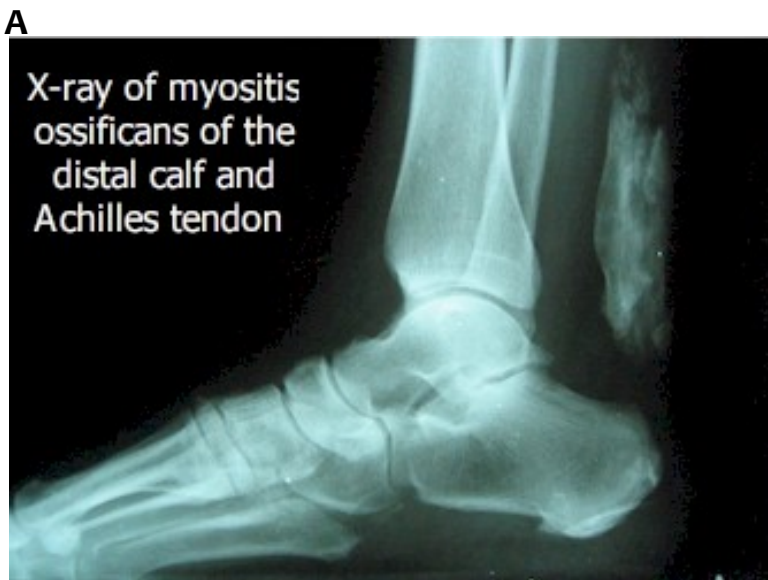
Psychiatric disorders	Patients (N=41)		
	N	Proportion	95% Confidence Interval (Lower limit-Upper limit)
Depressive disorders	11	26.1%	(13.3%-40.4%)
Major depression	7	17.1%	(5.6%-28.6%)
Dysthymia	4	9.8%	(0.7%-18.8%)
Bipolar disorder	1	2.4%	(0%-7.2%)
Anxiety disorders	19	46.3%	(31.1%-61.1%)
Generalized anxiety disorder	10	24.4%	(11.3%-37.5%)
Panic disorder	7	17.1%	(5.6%-28.6%)
Social anxiety disorder	14	34.1%	(19.6%-48.7%)
Specific phobia disorder	15	36.6%	(21.8%-51.3%)
Obsessive-compulsive disorder	4	9.8%	(0.7%-18.8%)
Psychotic disorder	0	0%	(0%-0%)
Suicidal ideation	3	7.3%	(0%-15.3%)

- A. <http://www.chop.edu/export/system/galleries/images/hospital/conditions/myasthenia-gravis-168639.gif>
 B. <http://byhealth.com/files/myasthenia-gravis.jpg>
 C. <http://upload.wikimedia.org/wikipedia/commons/thumb/ff/ff/Myasthenia.jpg/220px-Myasthenia.jpg>
 D. <http://www.scielo.br/img/revistas/anp/v69n2a/ao6tabo2.jpg>

Station 5: Myositis

Inflammation of the muscle

Causes & Risk Factors	Symptoms	Treatment Options
<ul style="list-style-type: none"> • Autoimmune • Infection • Medication induced • Muscle trauma 	<ul style="list-style-type: none"> • Muscle weakness • Swelling • Tenderness • Muscle damage • Myalgia • Rash • Fatigue 	<ul style="list-style-type: none"> • Medication • Antibiotics • Reduce inflammation



D

Type of Myositis	Patients	Mean Age (Range)	Women	Cases of Malignant Disease
	<i>n</i>	<i>y</i>	%	<i>n</i> (%)
Overall	537	51.9 (1.2–88.9)	55	116 (22)
Polymyositis	321	57.1 (16.5–88.9)	57	58 (18)
Dermatomyositis	85	51.7 (17.4–84.7)	55	36 (42)
Inclusion-body myositis	52	63.4 (28.8–84.0)	40	12 (23)
Myositis associated with connective tissue disease	30	48.5 (22.6–73.0)	62	8 (27)
Childhood myositis	49	7.7 (1.2–15.8)	51	2 (4)

- A. <http://www.beverlyhillsneurology.com/pics/myositis-polymyositis-dermatomyositis.jpg>
 B. http://www.myfootshop.com/images/medical/x-rays/myositis_ossificans_mod.jpg
 C. <http://neuromuscular.wustl.edu/pics/people/patients/Hands/DMhands.jpg>
 D. <http://annals.org/data/Journals/AlM/19985/8TT1.jpeg>

