

Tuesday 10/11 (A) and Wednesday 10/12 (B)

Do Now:

- 1) **Email:** ACT Tracker from last week (Wk 6)
- 2) **Watch** the Youtube clips: “Genetics 101” and “Genetic Mutation Animation”
- 3) **Read** [this article](#) about genetic disorders. “*Check your mirrors!*”
- 4) **Question:** If you were about to become a parent, would you want to know the chances that your unborn child would have a genetic disorder like Down Syndrome? Why or why not?

Big Ideas:

Muscular System
Genetics
Ethics in Healthcare

Objectives:

- Relate genetics to the muscular system.
- Identify which muscle function(s) is/are affected by a particular muscular health problem.
- Distinguish between the symptoms and treatment options for a muscular health problem.

Homework: You will email both assignments during the first five minutes of next class

1. Each team member must **research 1 potential disease/health condition** to analyze differential diagnoses possibilities. Cite your sources. (Use Assessment box to capture your final summarized information; you may be randomly called on to defend your analysis of the likelihood that Jordan has/does not have your specific disease)
Note: You should also review your S & O section to ensure you have used the appropriate anatomical terminology (at least 3 terms). Also, be sure you used the diagram to refer to & label the muscles involved.
2. Using [this diagram](#) as an example, try to draw your family tree with the health conditions for any family members you know. Circles are females and squares are males.
How do you think genetic counselors use these charts?
What does your family tree tell you?

Agenda:

- 1) **Prepare for Visit:** Review the patient medical chart (completed by your nurse) before walking into the examination room to meet Jordan and his parents. Use it to begin your SOAP notes. (5m)
- 2) **Plan Questions:** Consult your team of physicians to discuss what do you already know & what questions you need to ask. Think about how a normal doctor visit would go? How are you going to sequence your questions so they flow and make sense for the patient and family? (10m)
- 3) **Consult the Patient:** Ask your questions in a professional, clear way. (15m)
You should be able to fill out:
Subjective: Associated Symptoms, Frequency, Past Medical History
Objective: Measurements (from background info)
- 4) **Consult Your Physician Team:** Review information with your team and figure out what additional questions you'd like to ask and/or which tests you'd like to run. (10m)
- 5) **Final Consult:** Ask any remaining questions to the patient, family, or lab technician. (5m)
- 6) **Brainstorm Differential Diagnoses:** As a physician team, discuss possible diagnoses, using background research as needed. Come up with a list of at least 3 possible diseases or conditions that Jordan may have. (15m)

Muscular System Case: Jordan's Mystery

Adapted from: http://www.mhhe.com/biosci/ap/ap_casestudies/cases/ap_case08.html

Your Role: Orthopedic Physician

Driving Question:

Why does Jordan have pneumonia, and how can it be treated?

Assessment:

-SOAP notes rubric

-Exam on Muscular System (end of week)

SOAP Notes	
Subjective:	
Associated Symptoms	
Frequency	
Radiation	
Character	
Onset	
Location	
Duration	
Exacerbating Factors	
Relieving Factors	
Past Medical History (Social, Family, Medications, Allergies)	<p><u>Past medical history</u> (when was the last time the patient went to the doctor, have they had any surgeries, do they have any conditions like diabetes, etc)</p> <p><u>Social History</u> (does the patient drink, smoke, or use any drugs [your students SHOULD ask these questions], marital status, children, occupation [does the patient work at a job where they sit at a desk all day or somewhere they are exposed to harmful chemicals, etc], sexual history, live alone or with others, etc)</p> <p><u>Family History</u> (any conditions/diseases run in the family?)</p> <p><u>List of Medications</u> (patient might say "I'm currently using Nicoderm because I recently quit smoking)</p> <p><u>List of Allergies</u></p>

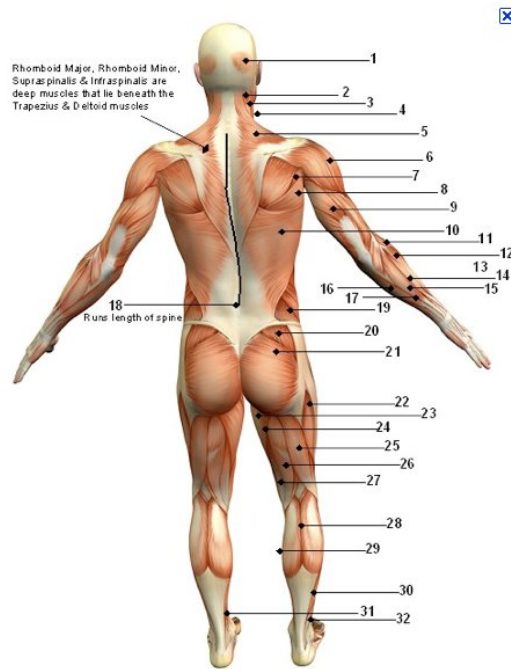
Objective:

Vital Signs

Standard in bold (Body Temperature 98.6F, 38.5C, Pulse 50-80 beats/min, Blood Pressure 120/80, Respiratory Rate 12-20 breaths/min)

Physical Exam Results

(Label the findings on the model, so you can show the patient and patient's parents)



Results from labs

Measurements

Assessment:

Diagnosis
Differential Diagnosis List

Differential Diagnosis:

- 1.
- 2.
- 3.
- 4.

(Homework: Each Team member must write and research 1 potential disease/health condition with which this person is dealing. Make sure you cite your source! Work harder this time around to replace your old SOAP note grade!)

Name of disease you researched: _____

Explanation of disease and relation to notes above:

(Source: _____)

Final Diagnosis:

Plan:

Plan steps

Description

Thursday 10/13 (A) and Friday 10/14 (B)

Do Now:

- 1) Email:** Homework (S-O-A and Family Tree). If you did not complete the HW, write an email explanation as to why you did not complete the homework. If I do not receive this in the first 5 minutes of class, you will be required to attend mandatory office hours. (5m)
- 2) Peer-evaluate** S-O-A. First, open the Rubric PDF. Then, switch iPads and evaluate you partner using the S-O-A rows only (5m)
- 3) Share** basic information about the disease you researched with your team and evaluate how aligned it is to the evidence from Jordan's case. (5m)

Homework:

1. Complete 2 more ACT quizzes. Time yourself! 7 minutes per passage! Let's get ready for this ACT!
2. Study for the Muscular System Test

Agenda:

- 1) M&M Conference:** Discuss Jordan's case at the biweekly M&M conference with the other physicians at UICCP Hospital (5-10m)
- 2) Physician Team Debrief:** Narrow down the list from the class. Research the risk factors, definitions, symptoms, and treatments for these diseases. Using evidence, choose your final diagnosis for Jordan. (10-15 min)
- 3) Plan:** Develop an aligned plan for Jordan's care & treatment. Research and complete the Plan part of your SOAP notes. Prepare to share a 1-minute diagnosis and treatment plan with Jordan's parents aloud to the class. (10-15 min)
- 4) Communicate Diagnosis & Plan:** Present final diagnoses & plans (10-15m)
 - Team 1: _____
 - Team 2: _____
 - Team 3: _____
 - Team 4: _____
 - Team 5: _____
 - Team 6: _____
- 5) The Truth:** Jordan has _____ (2m)

Challenge to the TOP Physicians at UICCP Hospital:

Frantic Phone Call: *Doctor Firecat, I've been thinking more and more about your diagnosis, and I just don't understand how this is possible. We don't have a family history of this, and we're hoping to have another child in the near future. I'm just not sure if we should given Jordan's diagnosis. Can you please explain what my chances are of having another child with this disease?*

