

22 SPRING BIOL 320 - CASE STUDY 2

Sharada Bhat

Congratulations! Your team has been assigned the role of an fictious emergency team. Arya a hypothetical 25 years old female has been in a car accident and has been brought to the emergency department where you are an imaginary physician. You start making a hypothesis based on your knowledge from lab 6-10. Yes, here is where the anatomy and physiology would help you.

Describe how the blunt trauma would affect the following:

- 1) If the trauma was on the thorax what would be its effect on the heart, Cardiac cycle and Conduction system, Lungs and Respiration
- 2) If the trauma was on the abdomen, what would be affected? The abdomen is divided into 9 quadrants, talk about the different structures from your lab that can be affected in each quadrant
- 3) On further examination you notice that have reddish discoloration on the skin over the right hypochondriac, epigastric, left hypochondriac region, and umbilical region. You suspect internal haemorrhage. Why would that happen? Speculate at a rational and done-in-the-lab level.
- 4) Histology that could be affected (Suprise me)
- 5) Write a beautiful (Yes, I would like to weep), concise and precise conclusion that integrates all you wrote above.

Instructions:

- Start your document with **your names and section**. (There are marks for it)
- Next write **maximum 3 pages** integrating the last 5 labs. (There are marks for keeping it in the limit minimum 2 pages maximum 3 pages)
- Information should be from the lab manual and prelab videos majorly. (More marks)
- You can use a base concept from other resources but build up the material using your understanding from the labs. **Cite all references**. (Not included in the 3 pages)
- Your response should be written as an essay with **a paragraph dedicated to each sub question**.
- You can use flow-charts, diagrams, pictures. If you know me, you know you can be as creative you want to.
- Talk about the anatomy and physiology affected based on your lectures, pre-lab videos and lab 6 -10 understanding.
- Integrate the information and your understanding into a smooth flowing written document.

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Rubric:

	Excellent	Competent	Needs work	Needs serious work
Five topics	All 5 questions are answered and tied into the diagnosis. (8)	4 questions are answered and tied into the diagnosis. (6)	3 questions are answered and tied into the diagnosis. (4)	<3 questions are answered and tied into the diagnosis. (2)
Tying in systems	Each question is correctly answered and link to the main problem is explained. (6)	4 question is correctly answered and link to the main problem is explained. (4)	3 question is correctly answered and link to the main problem is explained. (3)	<3 question is correctly answered and link to the main problem is explained. (0)
Cohesiveness and thoroughness	Essay is at least 2 pages and paragraphs are well synced (3)	Essay is <2 pages and paragraphs are well to somewhat well synced (3)	Essay is <2 pages and paragraphs are not well synced (1)	Essay is less than one page or totally haphazard. (0)
Grammar / spelling	No errors (3)	Minor grammatical errors (2)	Minor grammatical and spelling errors. (1)	Major grammatical and/ or spelling issues (0)

Free to email or ask me doubts in-person

All the Best!

I am sure you will do great!