

Forensics Tissue Lab

Case Study:

Investigators arrived at the scene of the crime at 5:35pm to find 2 bodies lying in the living room of an apartment. One victim was female and the other was male. Blood spatter was found around the bodies and most of the furniture was damaged or destroyed. No murder weapon was found, but the wounds indicated a knife had been used to stab both victims repeatedly. The investigators took pictures and several tissue samples were taken from each victim and sent to the lab for analysis.

As the pathologist, you will be analyzing the tissue samples and giving your recommendations about what took place the afternoon of the killings.

Case Study Report

Tissue Pictures With Magnification (40X, 100X, or 400X)	Description – main characteristics of tissue , detailed description of tissue (what you see), location in the body	Main Tissue Type and Example Name

Summary of Other Investigators Tissues: Walk around to other groups and look at 3 other tissues that were different from your own and *write down the name of specific tissue name in the chart. Then fill in the characteristics of that tissue from your notes.*

Tissue Name	Characteristics

Final Analysis: As a group, *write a paragraph summary about what happened to result in the death of the two people. Be sure to include which tissues from the ones you analyzed would have looked abnormal and why (include the location on the body that was injured).*

Discussion Questions: *Answer the following questions in complete sentences.*

1. How does structure relate to the function of the tissues of the body? List 5 specific examples of how the tissues structure allows it to function the way it does (can be tissues that were not discussed in the lab)
 - a. Ex: The simple squamous cells looks flat and are one layer thick which helps with moving oxygen through the cells in the lungs very rapidly.

1.

2.

3.

4.

5.

2. Would it have been difficult to identify the tissues if they were not labeled? How close were the pictures in the textbook to the appearance of the tissue in the prepared slide?