



Virtual Learning

Medical Interventions

April 9, 2020



Medical Interventions

Lesson: April 9, 2020

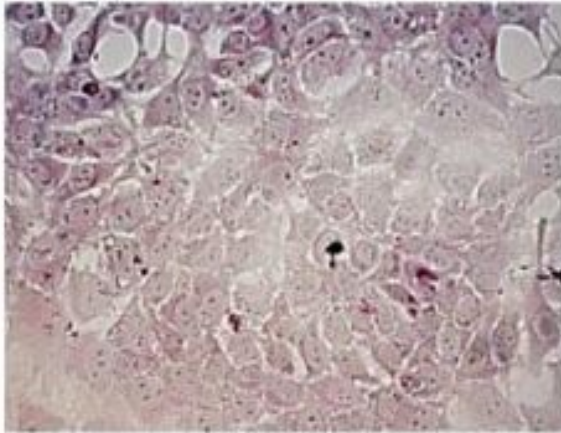
Objective/Learning Target:

Describe the differences in the appearance of normal cells and cancer cells. (3.1.3)

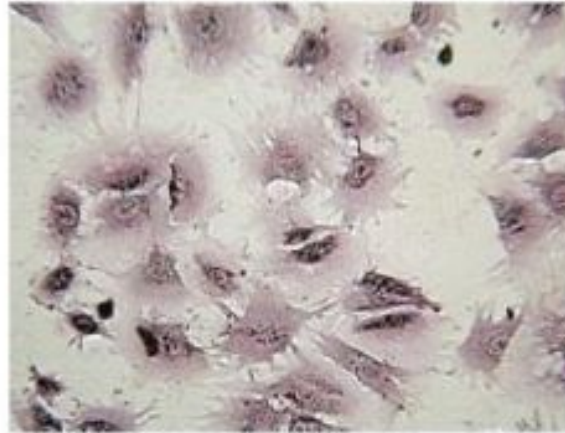
Let's Get Started

1. View [this video](#) showing what different types of cancer cells look like. What do you notice about their appearance?
2. Describe 3 differences between the pictures below.

Normal epithelial cells



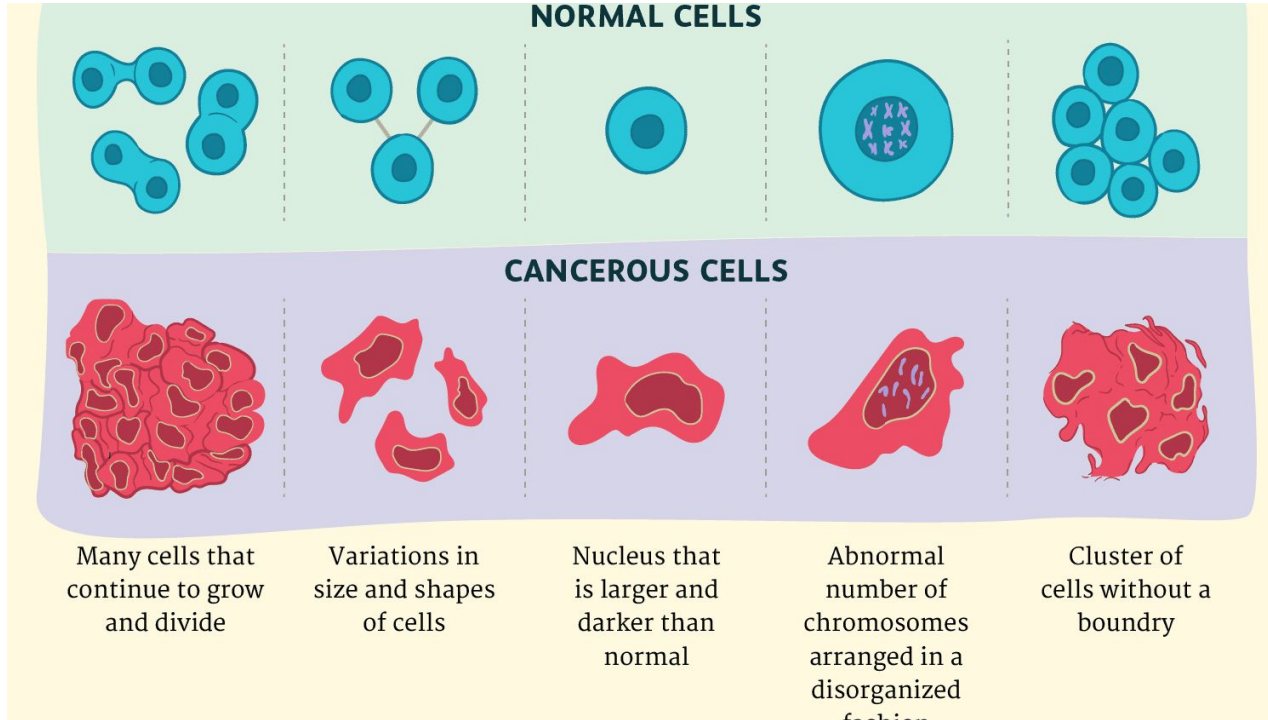
Cancer epithelial cells



Activity

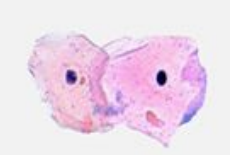



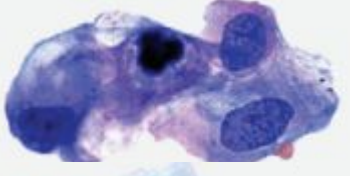
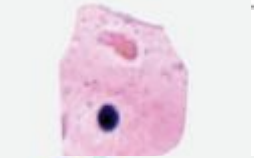
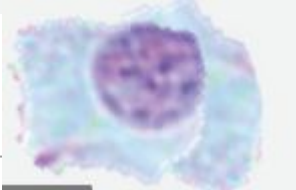

1. Read through [this article](#) on the differences between normal and cancer cells.
2. In your notebook or on a sheet of paper, create a visual graphic organizer that explains the difference between cancer and normal cells. Include characteristics such as:
 - a. Size/Shape
 - b. Nucleus
 - c. Spreading
 - d. DNA

Activity - Answer



Practice

Indicate whether A or B is the cancerous cell amongst the pairs. Explain why.

	A	B
1.		
2.		
3.		
4.		

Practice - Answers

1. B - large and variably shaped nuclei
2. A - many dividing cells/disorganized arrangements
3. A - variation in size and shape of nuclei
4. B - loss of normal features (shape/morphology)

Additional Practice

1. If you were inspecting tissue taken from a tumor biopsy, what characteristics would you look for that would indicate the presence of cancer cells? Describe three distinct differences you would expect to see between normal cells and cancer cells.
2. Check your understanding by completing the table with the appropriate terms

Drag & Drop Activity

Characteristics of Normal & Cancerous Cells

	Normal	Cancerous
Number of Cells		
Shape of Cells		
Number of Nuclei		
Amount of Cytoplasm		

Less Less Less Even More More More Irregular

Additional Resources

Here is a deeper dive article that explains more differences between normal and cancer cells:

- <https://www.thoughtco.com/normal-cells-versus-cancer-cells-373383>