

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2026-11-18

Name

Period

Date

Lesson

Lesson focus

Chemo and radiation

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Compare how chemotherapy and radiation kill cancer cells and why each causes side effects. Big idea: Killing cancer cells means disrupting cell division, which always risks collateral damage to healthy tissue.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- biopsy
- staging
- chemotherapy
- radiation
- targeted therapy
- apoptosis
- side effect

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions

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Must-know ideas
What should I understand by the end?

- Chemotherapy circulates systemically and targets any rapidly dividing cell.
- Radiation delivers focused ionizing energy to damage DNA in a defined tumor volume.
- Side effects correlate directly to which fast-dividing healthy tissues are caught in the treatment field.

My notes, examples, and questions

Process notes
What happens during class?

- 0-8: Read treatment notes; define apoptosis in margin
- 8-25: Draw chemotherapy mechanism diagram (systemic, fast-dividers)
- 25-40: Draw radiation mechanism diagram (targeted, DNA damage)
- 40-55: List two side effects each; link to healthy tissue type
- 55-72: Write CER paragraph: chemo vs. radiation for a localized tumor
- 72-80: Peer review CER structure; submit

My notes, examples, and questions

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Key words and questions

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Steps and evidence What do I do and turn in?

- Read the treatment-mechanism notes in the PLTW course shell and define apoptosis.
- Diagram how chemotherapy targets fast-dividing cells throughout the body.
- Diagram how radiation damages cell DNA in a targeted area.
- List two common side effects for each and tie them to healthy fast-dividing tissue.
- Write a CER paragraph claiming which treatment fits a localized tumor and why.

Evidence: CER - CER paragraph arguing which treatment (chemo or radiation) is more appropriate for a localized tumor, with apoptosis and side-effect evidence.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You'll be able to contrast the mechanisms of chemotherapy and radiation.
- You'll be able to explain side effects using apoptosis and healthy-cell damage.

My notes, examples, and questions

Lab or safety notes What must I handle carefully?

No special lab safety notes today. Follow normal classroom and digital-work expectations.

My notes, examples, and questions

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Summary

Today's lesson focused on Chemo and radiation. The main target was: Compare how chemotherapy and radiation kill cancer cells and why each causes side effects. The evidence of learning is CER: CER paragraph arguing which treatment (chemo or radiation) is more appropriate for a localized tumor, with apoptosis and side-effect evidence.. In my own words, the most important idea from today is:

My summary

My final question or connection