Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2027-04-13

Name	Period	Date	Lesson
		2027-04-13	

Lesson focus

Molecule-to-patient case packet

Key words and questions	Prepared details and student notes

Essential question
What is today's target?

Trace one patient's path from a molecular test result to a clinical decision using validity and reliability. Big idea: How does a molecule-level measurement become the clinical fact a doctor acts on?

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- molecular diagnosis
- validity
- reliability
- false positive
- false negative
- treatment plan

My notes, examples, and questions

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Cornell Notes - Continued

Key words and questions	Prepared details and student notes
Must-know ideas **What should I understand by the end?**	- Validity: a test measures what it claims to measure (e.g., the SNP associated with the disease, not a random marker). - Reliability: the test gives the same result on repeated runs with the same sample; low reliability means low clinical confidence. - Clinical decisions cascade from molecular evidence: a single unreliable result can lead to unnecessary treatment or missed diagnosis. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0-8: Hook timeline; define validity and reliability with one clinical example each - 8-25: Open case packet; list each test and its molecular output - 25-45: Annotate validity and reliability for each test in the margin - 45-60: Write one sentence on which result most influenced the clinical decision - 60-72: Partner check: verify annotations are using the terms correctly - 72-80: Submit annotated case packet to course shell **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Open the synthesis case packet in the shell and read the patient's test history. - List each test the patient received and what molecular evidence it produced. - Mark where validity (right thing) and reliability (consistent result) mattered for each test. - Write one sentence on which result most influenced the clinical decision. - Submit your annotated case packet as your daily evidence. Evidence: Notebook check - Annotated synthesis case packet: each test listed with its molecular output and validity/reliability label, plus one sentence on the most influential result. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- You'll be able to trace a patient from molecule to clinical decision. - You'll be able to apply validity and reliability to real tests. **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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Cornell Notes - Continued

Summary

Today's lesson focused on Molecule-to-patient case packet. The main target was: Trace one patient's path from a molecular test result to a clinical decision using validity and reliability. The evidence of learning is Notebook check: Annotated synthesis case packet: each test listed with its molecular output and validity/reliability label, plus one sentence on the most influential result.. In my own words, the most important idea from today is:

My summary

My final question or connection