Cornell Guided Notes

Human Anatomy & Physiology (Human Body Systems) | 2027-02-02

Name	Period	Date	Lesson
		2027-02-02	

Lesson focus

Bioethics: bone donation and 3D parts

Key words and questions	Prepared details and student notes

Essential question
What is today's target?

Debate whether 3D-printed and donor bone implants should be prioritized by ability to pay, then post a CER. Big idea: When medical resources are scarce, society must decide on allocation principles that balance fairness, need, and outcome.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- osteoblast
- osteoclast
- compact bone
- spongy bone
- fracture
- joint
- ligament

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?**	- Bone grafts can come from the patient (autograft), a donor (allograft), or synthetic/3D-printed materials (alloplast). - Allocation ethics asks whether decisions should be based on medical urgency, likelihood of benefit, or waiting-list order. - Pathologies like osteoporosis, osteosarcoma, and avascular necrosis may require bone grafts, making graft access a real clinical issue. **My notes, examples, and questions**
Process notes **What happens during class?**	- 0-5: Intro: graft types and scarcity framing - 5-20: Independent reading and two fair-rule list with risks - 20-40: John Carroll bioethics debate - 40-55: Draft claim and strongest evidence - 55-75: Write and post CER - 75-80: Class share: which allocation principle came up most? **My notes, examples, and questions**

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Steps and evidence **What do I do and turn in?**	- Read the prompt: when bone-graft material is scarce, who should receive it first? - List two fair allocation rules and one risk of each. - Choose a side and write a one-sentence claim with your reasoning. - Debate in your John Carroll bioethics group and record the strongest counterpoint. - Post a CER response defending your allocation principle. Evidence: CER - One-paragraph CER defending a specific allocation principle for scarce bone-graft material. **My notes, examples, and questions**
Checks for understanding **How do I know I got it?**	- You can propose and defend an allocation rule for scarce grafts. - You can respond to a fairness counter-argument. **My notes, examples, and questions**

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Lab or safety notes
What must I handle carefully?

Supplies:
- Articulated skeleton or bone model
- Cross-section bone sample or image set
- Fracture radiograph image set
- Metric ruler
- Lab notebook
- Safety goggles

My notes, examples, and questions

Summary

Today's lesson focused on Bioethics: bone donation and 3D parts. The main target was: Debate whether 3D-printed and donor bone implants should be prioritized by ability to pay, then post a CER. The evidence of learning is CER: One-paragraph CER defending a specific allocation principle for scarce bone-graft material.. In my own words, the most important idea from today is:

My summary

My final question or connection