# Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-04-07

| Name | Period | Date | Lesson |
|---|---|---|---|
| | | 2027-04-07 | |

**Lesson focus**

Intervention model

| Key words and questions | Prepared details and student notes |
|---|---|
| **Essential question**<br>**What is today's target?** | Model how a public health control measure changes the course of an outbreak. Big idea: Modeling an intervention before deploying it shows where it will and will not work.<br><br>**My notes, examples, and questions** |
| **Key words**<br>**What vocabulary unlocks the lesson?** | - incidence<br>- prevalence<br>- morbidity<br>- mortality<br>- contact tracing<br><br>**My notes, examples, and questions** |

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## Cornell Notes - Continued

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| **Must-know ideas**<br>**What should I understand by the end?** | - Each intervention targets a specific part of the transmission chain.<br>- Predicting impact on incidence requires knowing the baseline rate and the reach of the measure.<br>- Every intervention has unintended effects or populations it misses.<br><br>**My notes, examples, and questions** |
| **Process notes**<br>**What happens during class?** | - 0-5 min: Warm-up: which intervention do you think would cut incidence fastest?<br>- 5-20 min: Choose one intervention; identify the population it targets<br>- 20-40 min: Predict how incidence changes and write the reasoning<br>- 40-55 min: Sketch before-and-after epidemic curve with and without the intervention<br>- 55-70 min: Note one limitation or unintended effect with an explanation<br>- 70-80 min: Exit ticket: name your intervention, target population, and predicted incidence change<br><br>**My notes, examples, and questions** |

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| **Steps and evidence**<br>**What do I do and turn in?** | - Choose one intervention such as isolation, vaccination, or contact tracing.<br>- Predict how it changes incidence over the next period.<br>- Identify which population it targets and why.<br>- Note one limitation or unintended effect.<br>- Sketch a before-and-after curve showing the expected impact.<br><br>Evidence: Notebook check - Intervention model with chosen measure, target population, incidence-change prediction, before-and-after epidemic curve sketch, and one stated limitation.<br><br>**My notes, examples, and questions** |
| **Checks for understanding**<br>**How do I know I got it?** | - You modeled an intervention's effect on incidence.<br>- You named the target population and one limitation.<br><br>**My notes, examples, and questions** |

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**Lab or safety notes**
**What must I handle carefully?**

Supplies:
- Computer with spreadsheet software
- Provided outbreak dataset
- Line-list template
- Calculator
- Design notebook
- Printed case summary sheets

**My notes, examples, and questions**

## Summary

Today's lesson focused on Intervention model. The main target was: Model how a public health control measure changes the course of an outbreak. The evidence of learning is Notebook check: Intervention model with chosen measure, target population, incidence-change prediction, before-and-after epidemic curve sketch, and one stated limitation.. In my own words, the most important idea from today is:

**My summary**

## My final question or connection