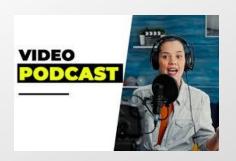
Student Project Works Q&A#2

Project Checkpoint – Video Podcast on Rare & Neurodegenerative Diseases

Goals of Today's Session



- Check each group's progress on their assigned disease.
- Discuss how you are integrating clinical, molecular, experimental, and social aspects.
- Help you refine the storyline and roles for your video podcast.
- Identify missing information before you move to the next phase.





Each group has 3-4minutes to present their preliminary work.

Followed by 3 minutes of feedback & discussion.

All members must speak briefly — even if their final role in the podcast is different.

What to Present

(Eventually with slides)



- Disease summary:
- Key symptoms, gene(s), and biological pathway.
- Draft structure of your podcast:
- Who plays each role and how the story will unfold.
- Open questions:
- What you still need to understand or confirm.

Scientific Focus



When presenting, make sure you can explain:

- How the molecular defect leads to the cellular phenotype.
- Why this mechanism results in the clinical symptoms.
- Which experiments helped discover this relationship.
- What kind of test or experiment you would perform to explore it further.

Therapeutic & Translational Dimension



When presenting, make sure you can explain:

- Mention current treatments and unmet needs.
- Suggest one or two future therapeutic strategies (e.g. gene therapy, repurposing, CRISPR).

Social & Communication Aspects



When presenting, make sure you can explain:

- How does this disease affect patients and families?
- What message do you want to deliver to the audience through your podcast?
- How will you balance scientific accuracy and accessibility?

What We Will Discuss Together

What is the key molecular pathway involved?



How do your clinical and biological explanations connect?

What experiment would you design to test your hypothesis?

What is your communication strategy for the podcast?

After the Session

Each group should:



Continue preparing the scientific content and slides for Q&A 2.

Keep meeting regularly as a team — all members work on all parts of the project.

This Q&A is not an exam — it's a checkpoint for constructive feedback.

Be curious, ask questions to other groups, and share ideas!

Student Project Work: Video Podcast



For your final group project, you will produce a video podcast (12–15 minutes) focusing on a rare genetic disorder or a neurodegenerative disease.





Your podcast should demonstrate your ability to integrate clinical, molecular, and cellular knowledge with experimental and translational perspectives, while also reflecting on the broader social impact of these diseases.

Task

In groups of 4 students, you will design and record a video podcast.



Each group member will take on a role:

Interviewer (moderator)





Clinician (clinical and diagnostic perspective)



Researcher (molecular, cellular, and therapeutic perspective)



Content Guidelines

Your podcast must include:

- •Clinical Phenotype Describe the main signs and symptoms.
- •Molecular & Cellular Biology Explain the underlying mechanisms.
- •Key Experiments Present the discoveries that clarified disease mechanisms, and propose additional experiments you would perform.
- •Therapeutic Strategies Summarize current treatments and discuss potential future approaches (drug development, gene therapy, repurposing).
- Social Impact Discuss the burden on patients, families, and society.
- •Slides (3–5 max) should accompany the video to illustrate the key points.

Generic Video Podcast Script (Any Rare/Neurodegenerative Disease)

Duration: ~12–15 minutes

Roles: Interviewer, Patient/Family member, Clinician, Researcher

Slides: 3-5 to illustrate key points (phenotype, molecular pathway,

experiments, therapies, social impact)

Visual support, not full text









