

# **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.

# Format of the Session



**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.**

# Objectives



**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)



- Patient or family member (personal/social perspective)



- 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**

