**Bio 12 Summary Project: Create your own Case Study**

Based on what you have learned this year, create a scenario of a patient with a disorder involving one or more of the human body systems as well as discussing the scientific mechanism of the disorder (gene expression, biological molecules, transport across a membrane, etc).

You will present your case study to the group.

Audience participation: Audience will correctly guess what tests will be ordered. You will give results. Audience may try to determine diagnosis.

**Outline of Case Study Presentation:**

1. **Patient and complaint details**
   1. **Patient details:** name, sex, age, ethnicity.
   2. **Presenting complaint:** the reason the patient presented to the hospital (symptom/event).
   3. **History of presenting complaint:** highlighting relevant events in chronological order, often presented as how many days ago they occurred. This should include prior admission to hospital for the same complaint.
   4. **Review of organ systems:** listing positive or negative findings found from the doctor’s assessment that are relevant to the presenting complaint.
2. **Past medical and surgical history**
   1. **Social history:** including occupation, exposures, smoking and alcohol history, and any recreational drug use.
   2. **Medication history, including any drug allergies:** this should include any prescribed medicines, medicines purchased over-the-counter, any topical preparations used (including eye drops, nose drops, inhalers and nasal sprays) and any herbal or traditional remedies taken.
   3. **Sexual history:** if relevant to the presenting complaint.
   4. **Family history:** do any family members have same/related ailment
3. **Details from a physical examination:** this includes any relevant findings to the presenting complaint and should include relevant observations.
4. **What Diagnostics Ordered?**
5. **Laboratory investigation and imaging results:** abnormal findings are presented.
6. **Final Diagnosis**

**Presentation must include:**

* Discussion of body system involved (how it manifests and if it affects other systems)
* Brief discussion of mechanism on a molecular level using knowledge of gene expression, cell biology and biological molecules and hormones.
* Decide on what diagnostic tests to use.
* You decide what results.
* Bonus: Depending on what results you present, you may be lead in an unexpected direction. Do you need further tests?
* Audience to guess general ailment. Must have a final diagnosis