

## Case Study: Sensitive Teeth

Ginny and Valerie - Sensitive Teeth



Knowledge Level: **Intermediate**

**Designed for the Full case** (Includes the treatment objective tab and treatment portion of the case report)

Time allotment for students either in class or out of class: **3-4 hours**

Ideal group size: **4-5 members**

### Objectives:

- Students will work in groups and evaluate a patient case entirely online.
- Students will analyze and record findings from assessment information provided in the simulation.
- Students will demonstrate evidence-based decision making by searching the literature and resources develop a differential diagnosis and treatment objectives for the patient's condition.
- Students will cite literature sources used to develop their differential diagnosis.
- Students will write a case report including subjective, objective, differential diagnosis, and treatment objectives sections.

**Problem:** Ginny and Valerie have an unknown condition that has caused them to have small, sharp, sensitive teeth. It is your job, as a group, to evaluate all the assessment information provided to you through the website on Ginny and Valerie, use resources provided and an online literature search to develop a differential diagnosis for Ginny and Valerie's condition. You will then write a case report on your findings including treatment objectives for the patients. There are 4-5 members in your group. Each person should select a pre-set role for the assignment.

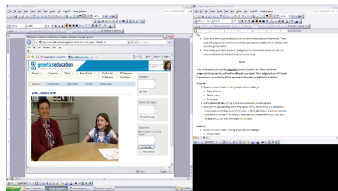
### Tips:

- *Take a lot of notes using the software while you are evaluating assessment information. These notes will appear at the end when you write the report and save valuable time not having to look back through the material.*
- *When writing your report, include ALL findings that are not considered normal. You may also want to include normal findings that pertain to Ginny and Valerie's case.*

## PART 1

**\*You will be working through all sections of Ginny and Valerie’s case. Please use the role assignments to separate the workload for writing the case report. These assignments are NOT meant to prevent you from evaluating ALL the assessment information provided in the simulation.**

## Role #1



1. Review and record “notes” in the right hand side box relating to:

🎬 Medical History

🎬 Dental History

🎬 Radiographs

- 2.

Potential Problems	
Create a New Problem	
<input type="button" value="Add New Problem"/>	
Attrition	<input type="button" value="Add"/>
Bleeding on Probing	<input type="button" value="Add"/>
Bone Loss	<input type="button" value="Add"/>
Bruxism	<input type="button" value="Add"/>
Caries	<input type="button" value="Add"/>
Cariogenic Diet	<input type="button" value="Add"/>
Cone Shaped Teeth	<input type="button" value="Add"/>
Crossbite	<input type="button" value="Add"/>
Dental Abscess	<input type="button" value="Add"/>
Dental Cyst	<input type="button" value="Add"/>
Diastema	<input type="button" value="Add"/>
Difficulty Chewing	<input type="button" value="Add"/>
Dry Mouth	<input type="button" value="Add"/>

Thomas's Problems	
Bone Loss	<input type="button" value="Delete"/>
Caries	<input type="button" value="Delete"/>

Add to **problem list tab** anything relating to Medical

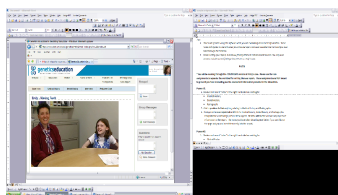
History and Radiographs.



3.

Then go to the **case report tab** and find the

medical history, dental history, and radiographic interpretation and findings portion of the report. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down the page and you can insert them easily into the report.

## Role #2



1. Review and record “notes” in the right hand side box relating to:
  -  Clinical Photos
  -  Dental Exam
2. Add to **problem list tab** anything relating to the Clinical Photos and the Dental Exam.

Preview Report    File Final Report

Subjective    Objective    Diagnosis    Treatment

Chief Complaint

Medical History

Dental History

Family History

You are working as an individual, not currently in a group.

Notes

No notes saved for this patient case.

Potential Problems

Create a New Problem

Add New Problem

Attrition    Add

Bleeding on Probing    Add

Bone Loss    Add

Bruxism    Add

Caries    Add

Cariogenic Diet    Add

Cone Shaped Teeth    Add

Crossbite    Add

Dental Abscess    Add

Dental Cyst    Add

Diastema    Add

Difficulty Chewing    Add

Dry Mouth    Add

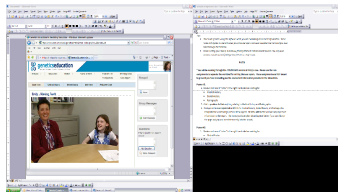
Thomas's Problems

Bone Loss    Delete

Caries    Delete

- Then go to the **case report tab** and find the Clinical Photos and Dental Exam findings portion of the report. Click the **edit** button and add any important information to the report. The notes you have taken should appear below if you scroll down and you can insert them easily into the report.

### Role #3



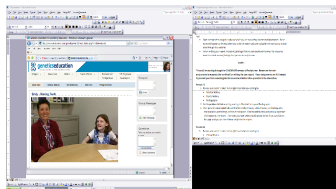
- Review and record “notes” in the right hand side box relating to:
  - Pedigree Chart
  - Genetic Tests


2. Add to **problem list tab** anything relating to the Pedigree Chart and Genetic Tests.

The screenshot displays a dental software interface. On the left, a 'Potential Problems' list includes items like Attrition, Bleeding on Probing, Bone Loss, Bruxism, Caries, Cariogenic Diet, Cone Shaped Teeth, Crossbite, Dental Abscess, Dental Cyst, Diastema, Difficulty Chewing, and Dry Mouth, each with an 'Add' button. In the center, 'Thomas's Problems' shows 'Bone Loss' and 'Caries' with 'Delete' buttons. On the right, a 'Preview Report' window is open, showing tabs for Subjective, Objective, Diagnosis, and Treatment. The 'Subjective' tab is active, displaying sections for Chief Complaint, Medical History, Dental History, and Family History, each with a dashed box for input. A 'Notes' section at the bottom is highlighted in green and contains the text 'No notes saved for this patient case.'

3. Then go to the **case report tab** and find the family history and genetic tests portion of the report. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down and you can insert them easily into the report.

#### Roles #4 and #5



1. Review and record notes in the right hand side box relating to:  
 Interview
2. Add to **problem list tab** anything relating to the Interview.

### Potential Problems

Create a New Problem

Add New Problem

- Attrition Add
- Bleeding on Probing Add
- Bone Loss Add
- Bruxism Add
- Caries Add
- Cariogenic Diet Add
- Cone Shaped Teeth Add
- Crossbite Add
- Dental Abscess Add
- Dental Cyst Add
- Diastema Add
- Difficulty Chewing Add
- Dry Mouth Add

### Thomas's Problems

- Bone Loss Delete
- Caries Delete

3.

Then go to the **case report tab** and find the

Preview Report
File Final Report

Subjective

Objective

Diagnosis

Treatment

#### Chief Complaint

#### Medical History

#### Dental History

#### Family History

You are working as an individual, not currently in a group.

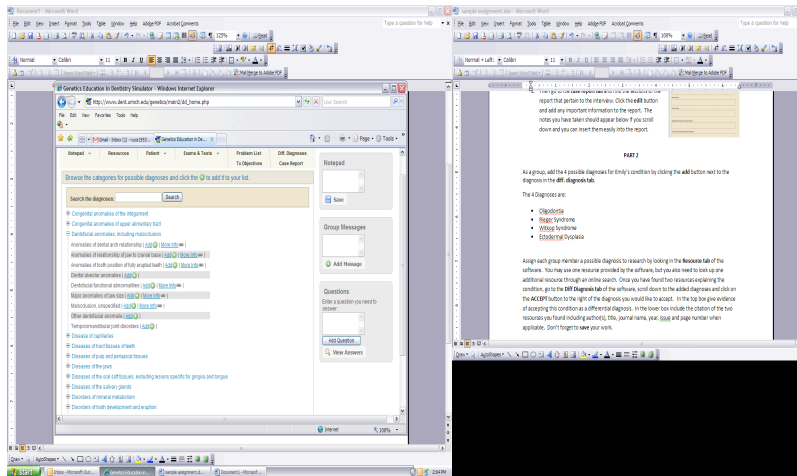
Notes

No notes saved for this patient case.

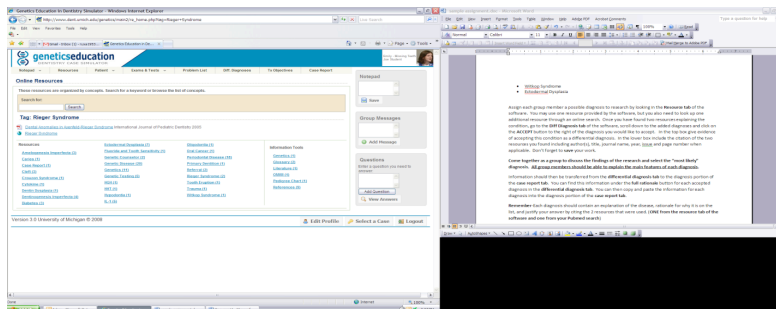
sections of the report that pertain to the interview. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down and you can insert them easily into the report.

## PART 2

As a group, search the **diff. diagnosis tab** and click the **add** button to add any possible diagnoses to your list. To learn more about a specific diagnosis, click the **more info.** icon next to the diagnosis.

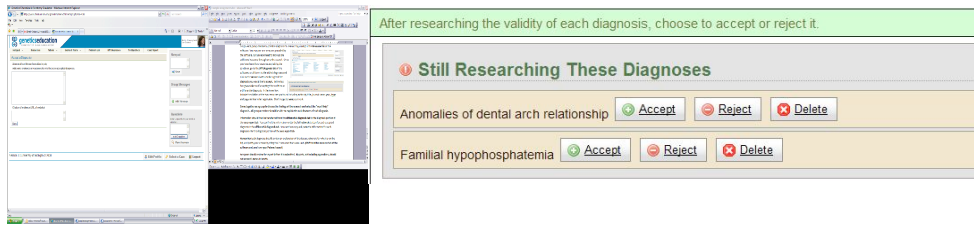


Assign each group member a possible

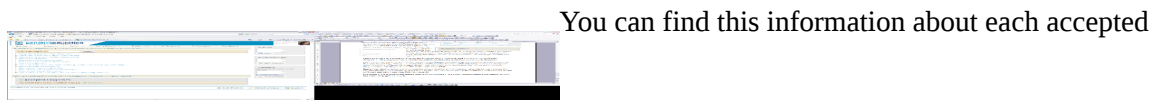


diagnosis to research by looking in the **Resource tab** of the software. You may use resources provided by the software, but may also want to search for resources can through an online search.

Once you have found resources explaining the condition, go to the **Diff. Diagnosis tab** of the software, scroll down to the added diagnoses and click on the **ACCEPT** button to the right of the diagnosis you would like to accept. In the top box give evidence as to why you are accepting this condition as a differential diagnosis. In the lower box include the citation of the resource you found including author(s), title, journal name, year, issue and page number when applicable. Don't forget to **save** your work.



Come together as a group to discuss the findings of the research and select the “most likely” diagnosis. All group members should be able to explain the main features of each diagnosis.



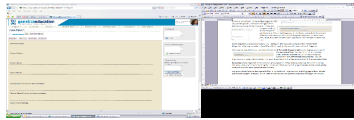
diagnosis under the **full rationale** button in the **differential diagnosis tab**. You should discuss your differential diagnosis in the diagnosis portion of the **case report tab**.

**Remember**-Each diagnosis should contain an explanation of the disease, rationale for why it is on the list, and justify your answer.

You should

spend time developing treatment objectives for Tom. In the **treatment objective** tab of the software you will find all the problems that you added to the list in a dropdown menu. Select each problem individually, enter a treatment objective, support it with an explanation, and add it to the plan. Do this with each of Ginny and Valeries’s problems. This will form a table at the bottom of the page. This table will also appear the treatment portion of your report. It is here that you should discuss your treatment objectives.





Everyone should review the report before it is submitted. Reports, not

including appendices, should not exceed 3 pages in length. Once you are satisfied with the final product you can save a copy of your report. Your instructor will give you directions on how they would like to receive the finalized report.

