

## Case Study: “Missing Teeth”

Emily - Missing Teeth



Knowledge Level: **Beginner**

**Designed to use a *condensed* form of the case report** (no treatment objectives included or treatment portion of the case report, but can easily be changed to include treatment objectives)

Time allotment for students either in class or out of class: **2-3 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 to explain 4 differential diagnoses that have been provided.
- Students will cite literature sources including author(s), title, journal, year, issue and page number when applicable.
- Students will write a case report including subjective, objective and differential diagnosis sections.

**Problem:** Emily has an unknown condition that has caused her to have several missing and oddly shaped teeth. It is your job, as a group, to evaluate all the assessment information provided to you through the website on Emily, research 4 possible diagnoses for Emily's condition which have been given to you, and write a case report on your findings. There are 4-5 members in your group. Each person should select a pre-set role for the assignment.

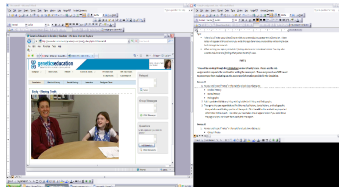
### **Tips:**

- *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 Emily's case.*

## **PART 1**

**\*You will NOT need to complete the treatment objectives or treatment tab of the case report. 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.

Add to **problem list** tab anything

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.

relating to Medical History and Radiographs.

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

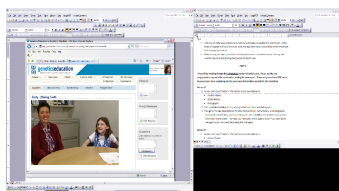
Thomas's Problems

Bone Loss Delete

Caries Delete

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



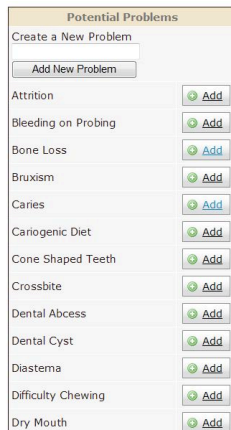
1. Review and record “notes” in the right hand side box relating to:

■ Clinical Photos

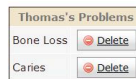
■ Dental Chart

2.

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

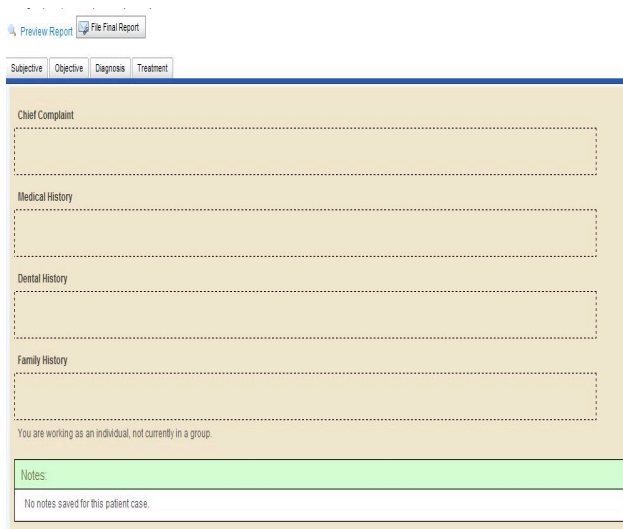


Potential Problems	
Create a New Problem	
Add New Problem	
Attrition	Add
Bleeding on Probing	Add
Bone Loss	Add
Bruxism	Add
Caries	Add
Cariogenic Diet	Add
Cone Shaped Teeth	Add
Crossbite	Add
Dental Abscess	Add
Dental Cyst	Add
Diastema	Add
Difficulty Chewing	Add
Dry Mouth	Add



Thomas's Problems	
Bone Loss	Delete
Caries	Delete

Clinical Photos and the Dental Chart.



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.

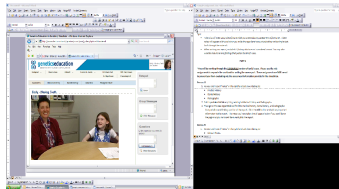
Notes

No notes saved for this patient case.

3. Then go to the **case report tab** and find the clinical Photos and Dental Exam 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 and you can insert them easily into the report.

### Role #3



1. Review and record “notes” in the right hand side box relating to:
  - Family History
  - Pedigree Chart
2. Add to **problem list tab** anything relating to family history and the Pedigree Chart.

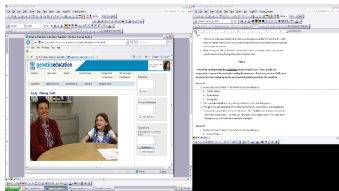
3. Then go to the **case report tab** and

A screenshot of a medical report form. At the top, there are four tabs: "Subjective", "Objective", "Diagnosis", and "Treatment". Below the tabs, there are several sections with dashed borders for text entry: "Chief Complaint", "Medical History", "Dental History", and "Family History". Below these sections, there is a green box labeled "Notes" with the text "No notes saved for this patient case." below it. The form has a light beige background and a blue header.

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

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"/>

Interview.

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.

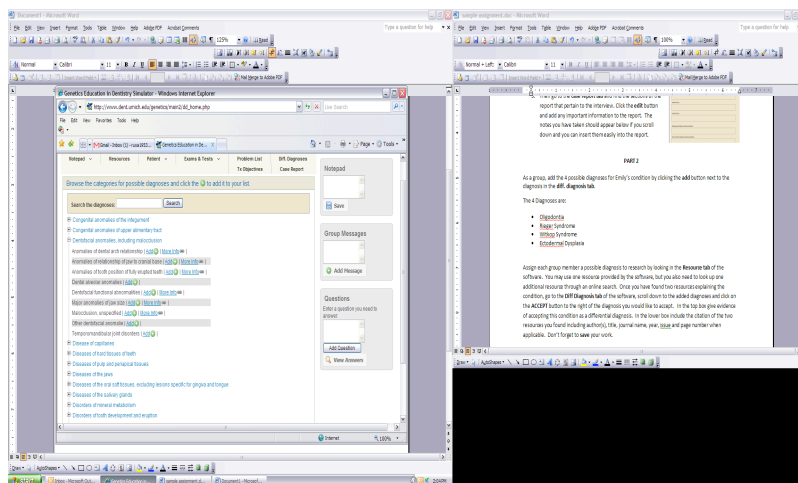
Notes:

No notes saved for this patient case.

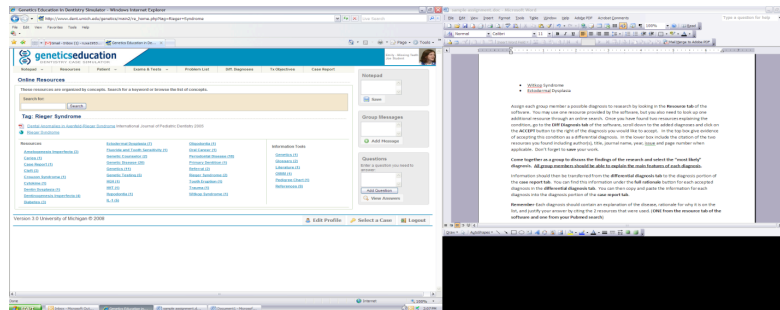
- Then go to the **case report tab** and find the sections of the report that pertain to the interview. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down and you can insert them easily into the report.





## PART 2

As a group, add the 4 possible diagnoses for Emily's condition by clicking the **add** button next to the diagnosis in the **diff. diagnosis tab**.



The 4 Diagnoses are:



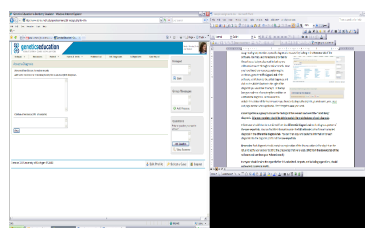
-  Oligodontia
-  Ectodermal Dysplasia
-  Witkop Syndrome
-  Rieger Syndrome

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 two 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 of accepting this condition as a differential diagnosis. In the lower box include the citation of the resources you found including author(s), title, journal name, year, issue and page number when applicable. Don't forget to **save** your work.





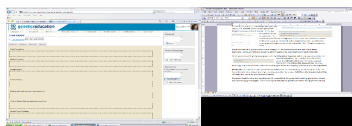
Come together as a group to discuss the findings of the research and select the “most likely” diagnosis. This should appear at the top of your list in the case report. All group members should be able to explain the main features of each diagnosis.



You can find this information about each accepted

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.



Everyone should review the report before it is submitted. Reports,

not including appendices, should not exceed 3 pages in length. In the case report tab click on **preview report** in the upper left corner. 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.

