

## Case Study: “Small Teeth”



Knowledge Level: **Beginner-Intermediate**

**Designed for the *Full* case** (This includes the treatment objectives 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: **5-7 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 6 differential diagnoses that have been provided.
- Students will cite literature sources used to develop their differential diagnosis.
- Students will choose treatment options based on patient needs and priorities.
- Students will write a case report including subjective, objective, differential diagnosis and treatment objective sections.

**Problem:** Tiffany has presented in your office because of a broken tooth due to a deep cavity.

It is your job as a group to evaluate all the assessment information provided to you through the website on Tiffany, research the possible diagnoses for Tiffany’s condition which have been given to you, and write a case report on your findings including treatment objectives. There are 5-7 members in your group. Each person should select a pre-set role for the assignment.

### *Tips:*

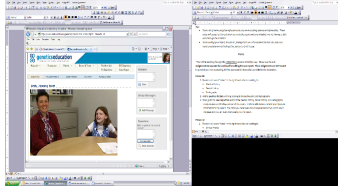
- *Take a lot of notes using the software while you are evaluating assessment information. These notes will appear at the end when you write the report and save valuable time not going back to look through the material.*
- *When writing your report, include ALL findings that are not considered normal.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

## **PART 1**

**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 relating to Medical History, Dental History and

Radiographs.

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"/>

Preview Report	File Final Report
<div>Subjective   Objective   Diagnose   Treatment</div> <div>Chief Complaint</div> <div>Medical History</div> <div>Dental History</div> <div>Family History</div> <div>You are working as an individual, not currently in a group.</div> <div>Notes</div> <div>No notes saved for this patient case.</div>	

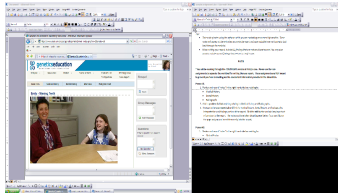
3. Then go to the **case report tab** and find the medical history, dental history, and radiographic interpretation and findings portion of the report. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down the page 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

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"/>

Clinical Photos, and the Dental Exam.

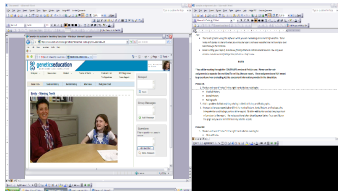
3.

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:

- Pedigree Chart
- Genetic Tests

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"/>

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

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

Pedigree Chart and Genetic Tests.

3.

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

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.

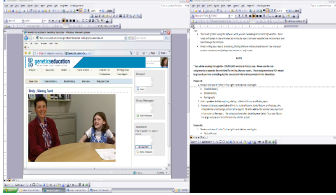
Notes

No notes saved for this patient case.


the family history 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, #5 and #6

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



to:

 Interview

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"/>

2. Add to **problem list tab** anything relating to the Interview.

Preview Report   

Subjective   Objective   **Diagnose**   Treatment

Chief Complaint

Medical History

Dental History

Family History

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

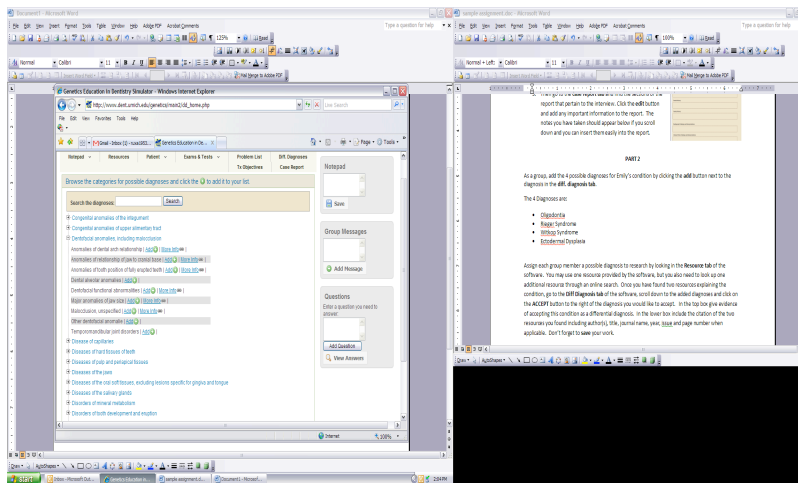
Notes:

No notes saved for this patient case.

3. Then go to the **case report tab** and find the 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 6 possible diagnoses for Tiffany's condition by clicking the **add** button next to the diagnosis in the **diff. diagnosis tab**.



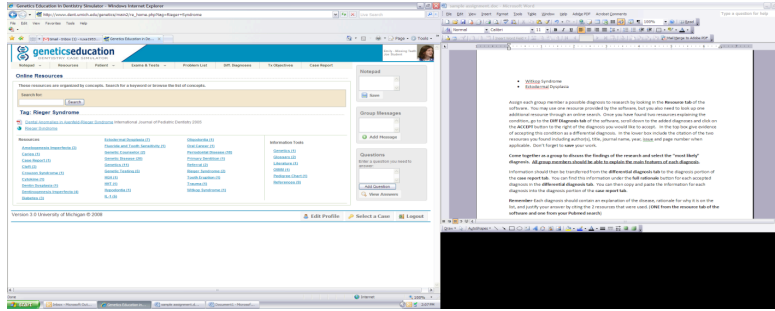
The 6 Diagnoses are:

- Amelogenesis Imperfecta
- Osteogenesis Imperfecta
- Tetracycline Stain





## Dentin Dysplasia



## Hypophosphatasia



## Dentinogenesis Imperfecta

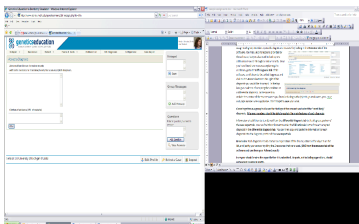
Assign each group member a possible diagnosis



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. A new box will pop up. In the top box give evidence

of accepting this condition as a differential diagnosis. In the lower



box include the citation of the two, 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.

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Notepad ▾ Resources Patient ▾ Exams & Tests ▾ Problem List Diff. Diagnoses Tx Objectives Case Report

1. Choose the problem you wish to act on.

Caries ▾

2. Enter in your treatment objective for the selected problem.

3. Support with an explanation and citation. Then add it to your list by clicking the button below.

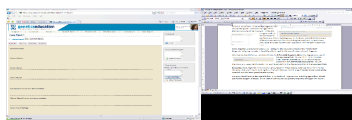
Add to Plan

4. Your treatment objectives.

Problem	Treatment Objective	Note
Bone Loss	3 month recall	

You should

spend time developing treatment objectives for Tiffany. 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 Tiffany'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. 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.

Case Report for Module: Emily - Missing Teeth

Credits

Written by group: Test Group  
Written by: John Public, Jill Student, Ruxandra-Ana Iacob, Joe Student, Joe Student  
October 29, 2009 2:20 PM

Subjective Report

Chief Complaint  
Medical History  
Dental History  
Family History

Objective Report

Radiograph Findings and Interpretations  
Clinical Photo Findings and Interpretations  
Dental Exam Findings  
Genetic Test Results

Diagnosis Report

Case 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. Information should then be transferred from the differential diagnosis tab to the diagnosis portion of the case report tab. You can find this information under the "Add additional" button for each accepted diagnosis in the differential diagnosis tab. You can then copy and paste the information for each diagnosis into 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 by citing the 2 resources that were used (DNA from the research tab of the software and one from your textbook source). Everyone should review the report before it is submitted. Reports, not including appendices, should not exceed 1 page in length. In the case report tab click on "Generate report" in the upper left corner.