

Case Study: Makenzie “discolored tooth”

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 their differential diagnoses.
- 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: Makenzie has presented in your office because of a discolored permanent tooth. It is your job as a group to evaluate all the assessment information provided to you through the website on Makenzie, research the possible diagnoses for Makenzie’s condition, 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:

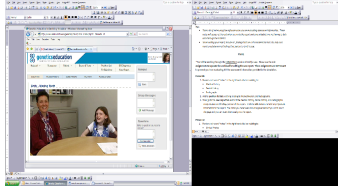
- *Take a lot of notes using the software while you are evaluating assessment information. These notes will appear at the end when you write the report and save valuable time not going back to look through the material.*
- *When writing your report, include ALL findings that are not considered normal. You may also want to include normal findings that pertain to Makenzie’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></div> <div>Medical History <div></div></div> <div>Dental History <div></div></div> <div>Family History <div></div></div> <div>You are working as an individual, not currently in a group.</div> <div>Notes: No notes saved for this patient case.</div>	

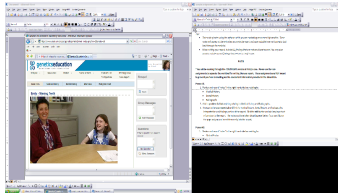
3. Then go to the **case report tab** and find the medical history, dental history, and radiographic interpretation and findings portion of the report. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down the page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

- 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 Chart.

3.

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

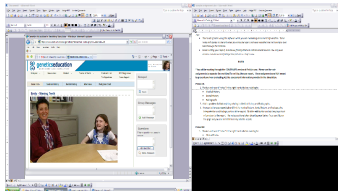
The screenshot shows a medical report form with a blue header bar containing tabs for 'Subjective', 'Objective', 'Diagnosis', and 'Treatment'. Below the tabs, there are four large text input areas with dashed borders, labeled 'Chief Complaint', 'Medical History', 'Dental History', and 'Family History'. At the bottom, there is a green 'Notes' section with a white text area below it containing the message 'No notes saved for this patient case.'

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

2.

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

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"/>

family history and the Pedigree Chart.

3.

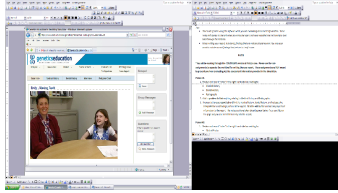
Then go to the **case report tab** and find

Preview Report	
<input type="button" value="Preview Report"/>	<input type="button" value="File Final Report"/>
<div>Subjective Objective Diagnosis Treatment</div>	
<div>Chief Complaint</div> <div></div>	
<div>Medical History</div> <div></div>	
<div>Dental History</div> <div></div>	
<div>Family History</div> <div></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>	

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"/>

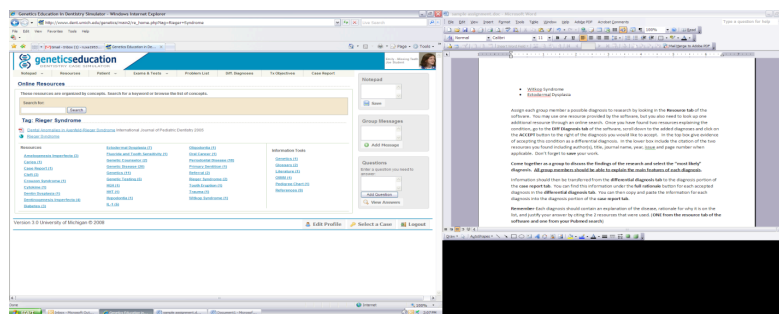
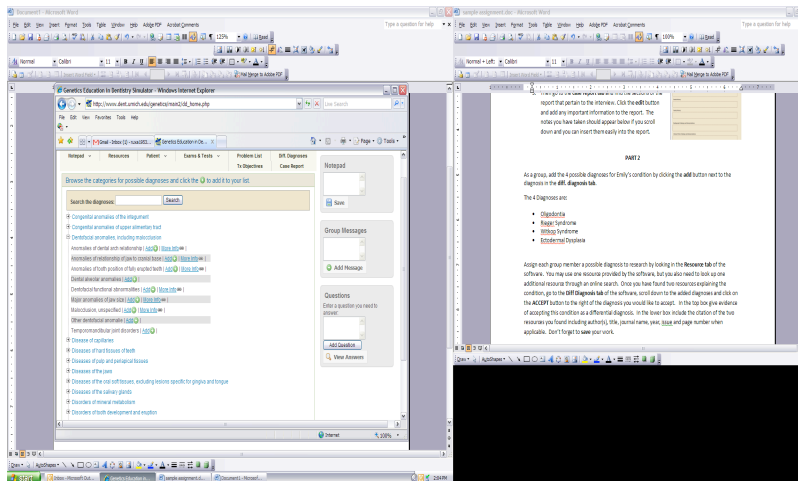
2. Add to **problem list tab** anything relating to the Interview.

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

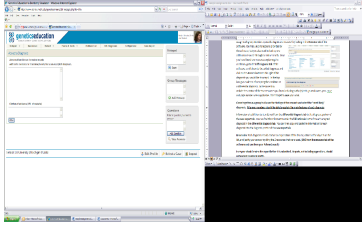
- Then go to the **case report tab** and find the sections of the report that pertain to the interview. Click the appropriate section of the report and add any important information. The notes you have taken should appear below if you scroll down and you can insert them easily into the report.

PART 2

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



Assign each group member a possible diagnosis to research by



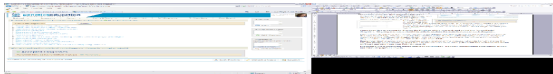
looking in the **Resource tab** of the software. You may use resources provided by the software, but may also want to search for resources through an online search.



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.

You should

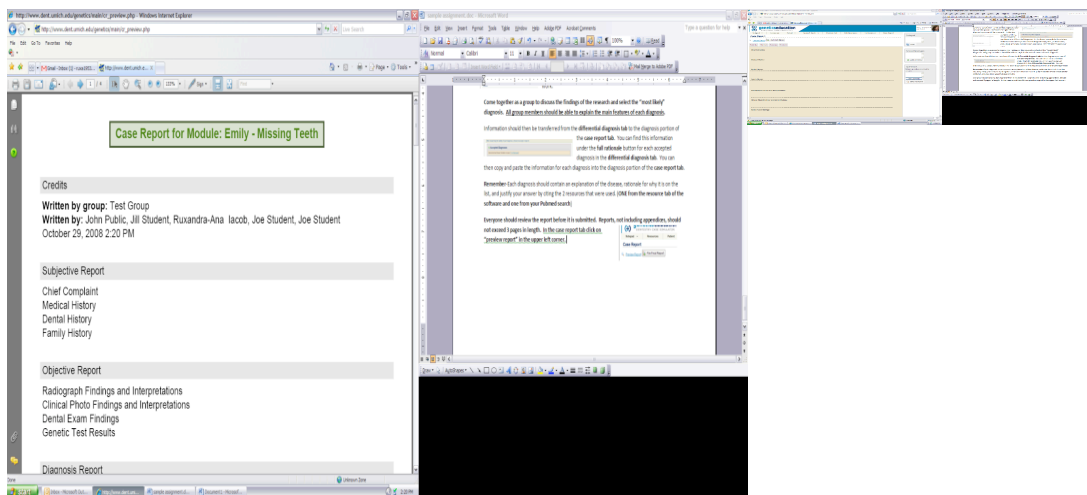
The screenshot shows the HEALth software interface with the following steps:

1. Choose the problem you wish to act on.
A dropdown menu is shown with "Caries" selected.
2. Enter in your treatment objective for the selected problem.
A text input field is shown.
3. Support with an explanation and citation. Then add it to your list by clicking the button below.
A text input field and an "Add to Plan" button are shown.
4. Your treatment objectives.
A table is shown with the following data:

Problem	Treatment Objective	Note
Bone Loss	3 month recall	

spend time developing treatment objectives for Makenzie. 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 Makenzie'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.

