

CAPSTONE:

Simulation

Complex Patient

Rachel Healy



OKU Sutro Excellence Day Project Cover Sheet

(ONE Cover Sheet per project)

Project Title: _____

Award Category:

List names of all contributors to this project:

1. Student Name: _____ #989 _____

Program: _____ Class Year _____

2. Student Name: _____ #989 _____

Program: _____ Class Year _____

3. Student Name: _____ #989 _____

Program: _____ Class Year _____

4. Student Name: _____ #989 _____

Program: _____ Class Year _____

5. Student Name: _____ #989 _____

Program: _____ Class Year _____

6. Student Name: _____ #989 _____

Program: _____ Class Year _____

7. Student Name: _____ #989 _____

Program: _____ Class Year _____

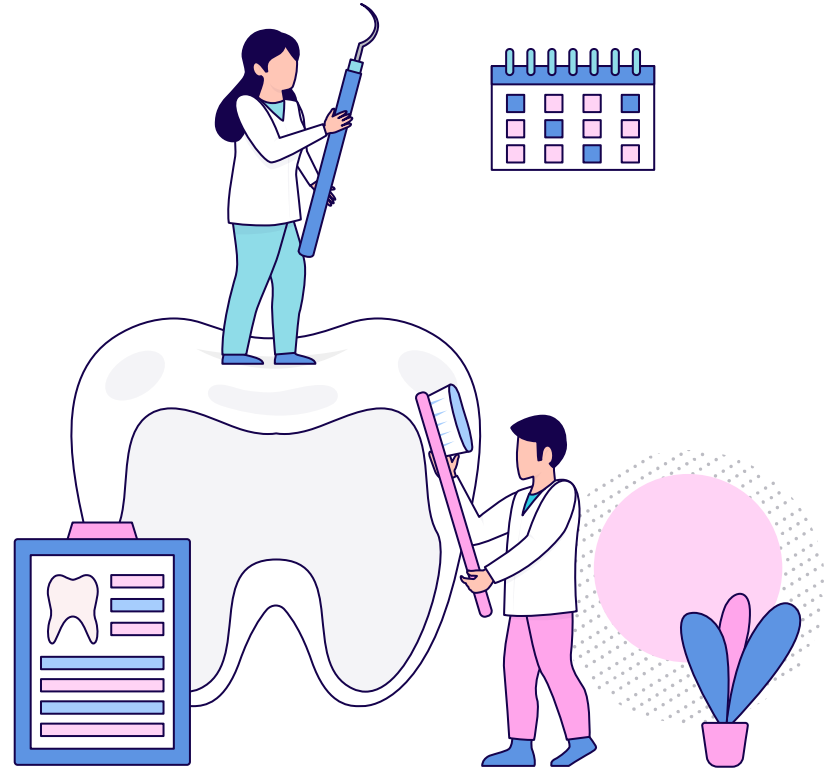
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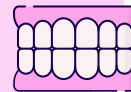
8. Enter your abstract text here (300 word max) :

Thank you for filling out the OKU Sutro Excellence Day Project Cover Sheet! Please merge this Cover Sheet with your Final Project Materials (ie, research poster, clinical case, paper, or other creative production) before uploading to the Final Project Submission Form.

Goals of Project

- Demonstrate an understanding both of direct and indirect techniques
- Master hand skills
- Diagnosing, treatment planning, and sequencing





Introduction: The Patient

Chief Concern: Replace missing teeth and improve long-term oral health

Medical History:

41 years old, Male, Caucasian

Hospitalized in 2007 for head trauma

History of epinephrine and heart palpitation

Controlled high cholesterol and blood pressure

Knee replacement 10 years ago

Medication: Lipitor (Cholesterol) & Lisinopril (Blood Pressure)

Allergies: Sulfa drugs & Latex

Social History: Married, Drinks occasionally

Dental History:

At age 21, lost central incisor (#9) and lateral incisor (#10) due to trauma

Recently, lateral incisor extracted (#7) due to vertical root fracture

Last dental visit more than two years ago



ODTP: Vital Signs and CRA

Vital Signs: Blood Pressure: 126/85 Pulse: 78

EOE: WNL

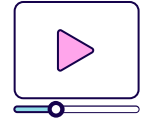
IOE: WNL

TMJ: Asymptomatic

ATP Meter: 430

Saliva pH: 6.5

Saliva Flow: Normal



ODTP: Radiographs

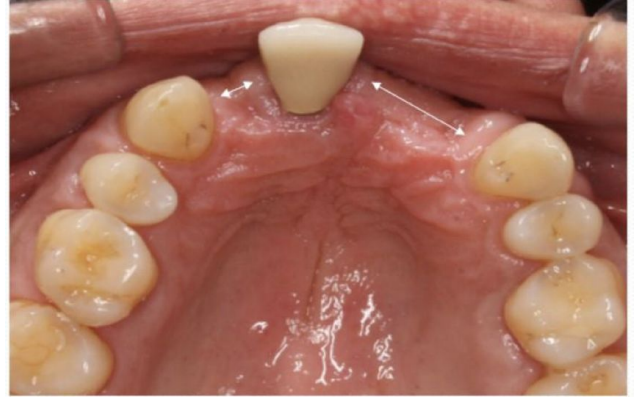


FMX: 12/10/2010





ODTP: Intraoral Images



ODTP: Hard Tissue

Hard Tissue Findings

- #7, 9, 10, & 29: Missing
- #8: Recurrent Decay on PFM
- #19: D1 Mesial Caries, Visible Distal Decay
- #19: Existing Stained Buccal Composite
- #20: Buccal stain, Deep NCCLs
- #28: Leaky Buccal Composite
- #30: Leaky occlusal amalgam, Undermined lingual cusp, Existing buccal composite
- #3: ICDAS 2
- #15: ICDAS 2



Caries Risk

Moderate Caries Risk
Generalized Mild
Gingivitis

Hard Tissue

Active Carious Lesions,
Recurrent Decay, & Non
Carious Cervical Lesions
Canine Guidance
Mild Occlusal Wear



Original Treatment Plan

Diagnosis	Procedure	Tooth	Surface	Sequence
Generalized Mild Gingivitis	Prophy/OHI	All	All	1
Carious Lesion	Three Surface Composite	19	MOD	2
Old Composite	One Surface Composite	19	B	3
Abfraction/NCCL	One Surface Composite	20	B	4
Recurrent Caries/Tooth fracture	Build Up	30	MODBL	5
Recurrent Caries/Missing Tooth	PFZ Three Unit Bridge	28, 29, 30	MODBL	6
Recurrent Caries/Missing Tooth	PFZ Four Unit Bridge	8, 9, 10, 11	MODBL	7
Caries/Missing Tooth	FZ Cantilever Bridge	6, 7	MODBL	8

Treatment by Week

Week 1

Direct Restorative

#19 MOD Composite
#19 & 20 B Composite
Diagnostic Mounted
Models



Week 2

Direct Restorative

#30 Build Up
Wax Up #7, 9, 10, 29
Duplicate Casts

Week 3

Indirect Restorative

Bridge #28-30 Prep &
Temp
Smile Simulation

Week 4

Indirect Restorative

Bridge #8-11 Prep & Temp
Cantilever Bridge #6-7
Prep & Temp

Week 5

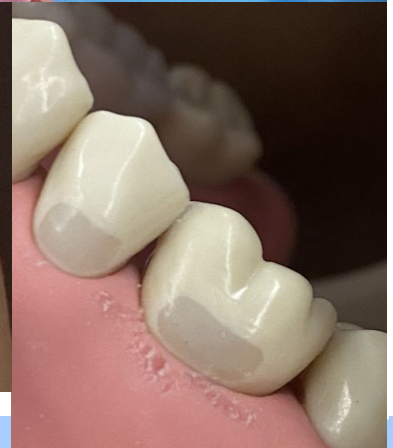
Finalize Case

Week 1: Direct Restorative

#19 MOD Composite

#19 B Composite

#20 B Composite



Week 2: Direct Restorative

#30 MODBL Build Up with Photo-Core



Week 2: Wax Up

Wax Up #29



Week 2: Wax Up

Wax Up #7, 9, 10

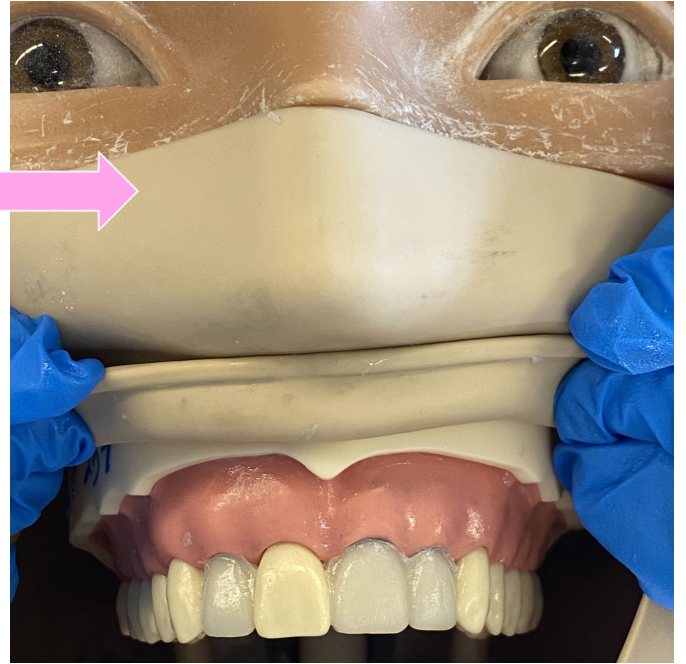


Week 3: Smile Simulation

Trial #1



Trial #2



Week 3: #28-30 Bridge Preps



Week 3: #28-30 Bridge Temp



Trial #1



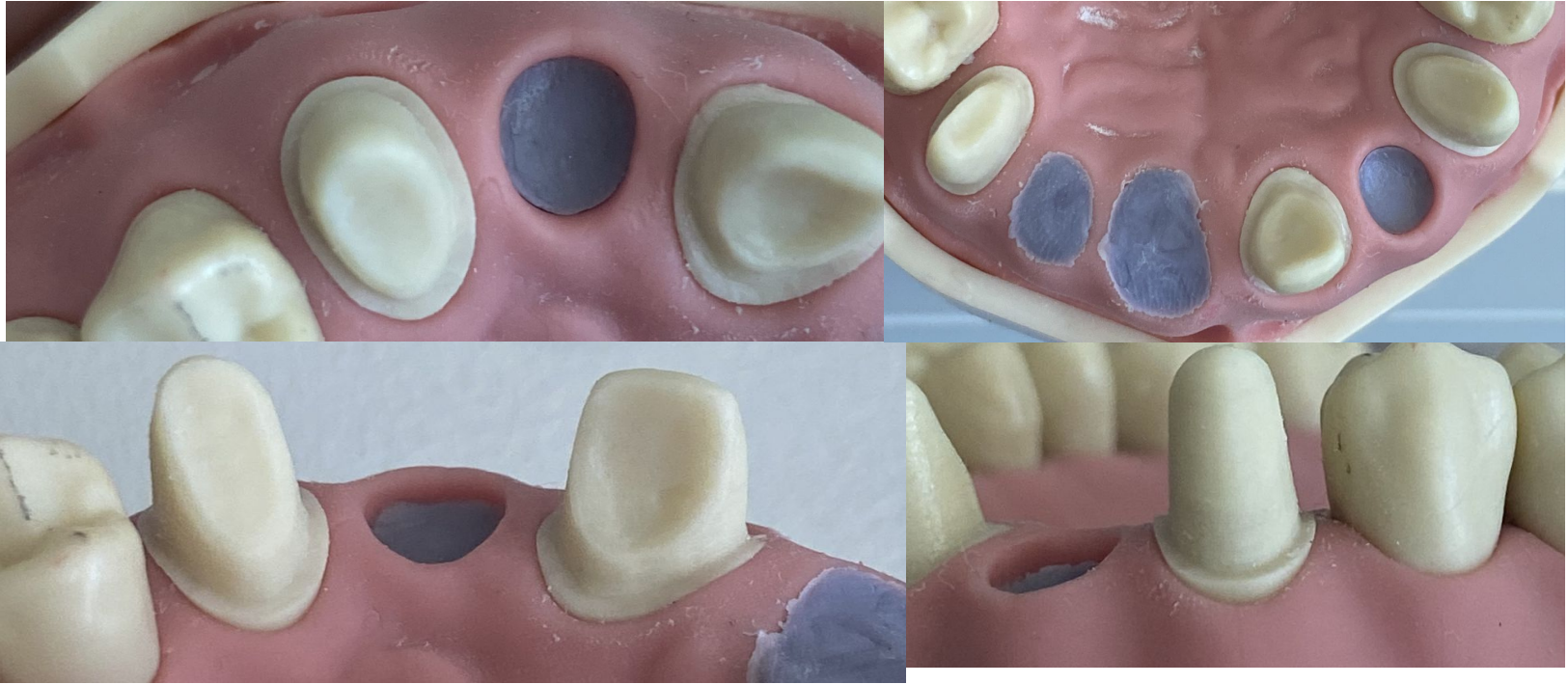
Trial #2



Week 4: #8-11 Bridge Preps



Week 4: #6-7 Cantilever Bridge Prep



Week 4: #8-11 & #6-7 Bridge Temps

#8-11 Bridge Temp

#6-7 Cantilever Bridge Temp



Week 5: Finalize Case

High Polish Anterior Temporary Crowns



Week 5: Finalize Case

Redo Filling #19 MOD Composite

Trial #2 - Week 5



Trial #1 - Week 1



Phases of Treatment Planning

Disease Control

Prophy

High F-toothpaste/CTx4 Rinse

#19 MOD Composite

#28 Buccal Composite

#30 Build Up & Crown

#8 Crown

Urgent Care

Nothing considered
urgent



Reconstructive

#20 Buccal Composite

#19 Buccal Composite

#7, 9, 10, 29 Implants

Maintenance

Night Guard

Alternative Treatment Plan

Diagnosis	Procedure	Tooth	Surface	Sequence
Generalized Mild Gingivitis	Prophy & OHI	All	All	1
Carious Lesion	Three Surface Composite	19	MOD	2
Decay/Leaky	One Surface Composite	28	B	3
Recurrent Decay/Leaky	Build Up Anchor	30	MODBL	4
Large Restoration/Unsupported	Single Unit Zirconia Crown	30	MODBL	5
Recurrent Decay	Single Unit PFZ Crown	8	MODBL	6
NCCL/Abfraction	One Surface Composite	20	B	7

Alternative Treatment Plan

Diagnosis	Procedure	Tooth	Surface	Sequence
Old Composite/Chipped	One Surface Composite/Redo Filling	19	B	8
Missing Teeth	Ridge Augmentation	7, 9, 10		9
Missing Teeth	Implant	29		10
Missing Teeth	Implant	7, 9, 10		11
Missing Teeth	Abutment/Crown for Implant PFZ	29		12
Missing Teeth	Abutment/Crowns for Implants PFZ	7, 9, 10		13
Preventive & Supportive	Night Guard/ Occlusal Splint	All	All	14
Recall Exam	Every 6 months	All	All	15

Self-Reflection

Strengths

- **Time Management** - Being able to stay on track from week to week
- **Temporaries** - High polish/Trimming for proper embrasures
- **Direct Restorative** - Preparations and fillings
- **Wax Up** - Proper Contours and Occlusion

Difficulties

- **Alginates** - Duplicate Casts were difficult to make
- **Temporaries** - Closing the margins/Preventing them from being short
- **Crowns/bridges** - Making sure preparations had draw
- **Impressions** - Having both margins of the preps be clinically acceptable

Self-Reflection

Overall, I was impressed with what I was able to accomplish over the course of the five week Capstone project. I came in each day with a carefully thought out plan and utilized my time wisely. This allowed me to stay on track with the treatment plan and go back to fix things that I felt I could have done better. In addition, I learned a lot during this project, including how to use a wax up to make temporaries for missing teeth and how to prep a cantilever bridge and a long span bridge. Although there are still some shortcomings, such as not fully sealing the lingual margins on my temporary crowns or not completely reducing my bridge preparations, I am proud of how far I have come in less than a year.

Thank You!

Any questions?

