

Oral Rehabilitation Case Presentation

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Case Overview

- ❖ 23 year old Female (1175464)
- ❖ Medical History non-contributory;
Smokes and Drinks alcohol regularly



Chief Concern

❖ *“I went out to party and woke up in the hospital. I have not been to a dentist in many years and I want to get the work that I need done.”*





23, 5/7/2019



5, 5/7/2019



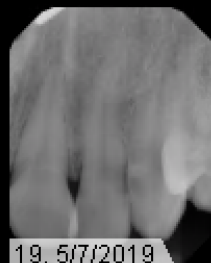
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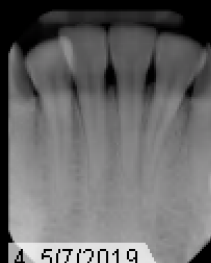
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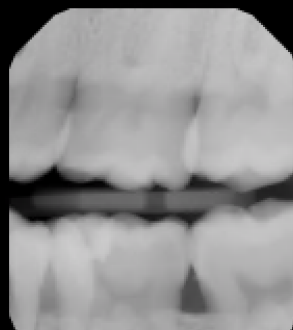
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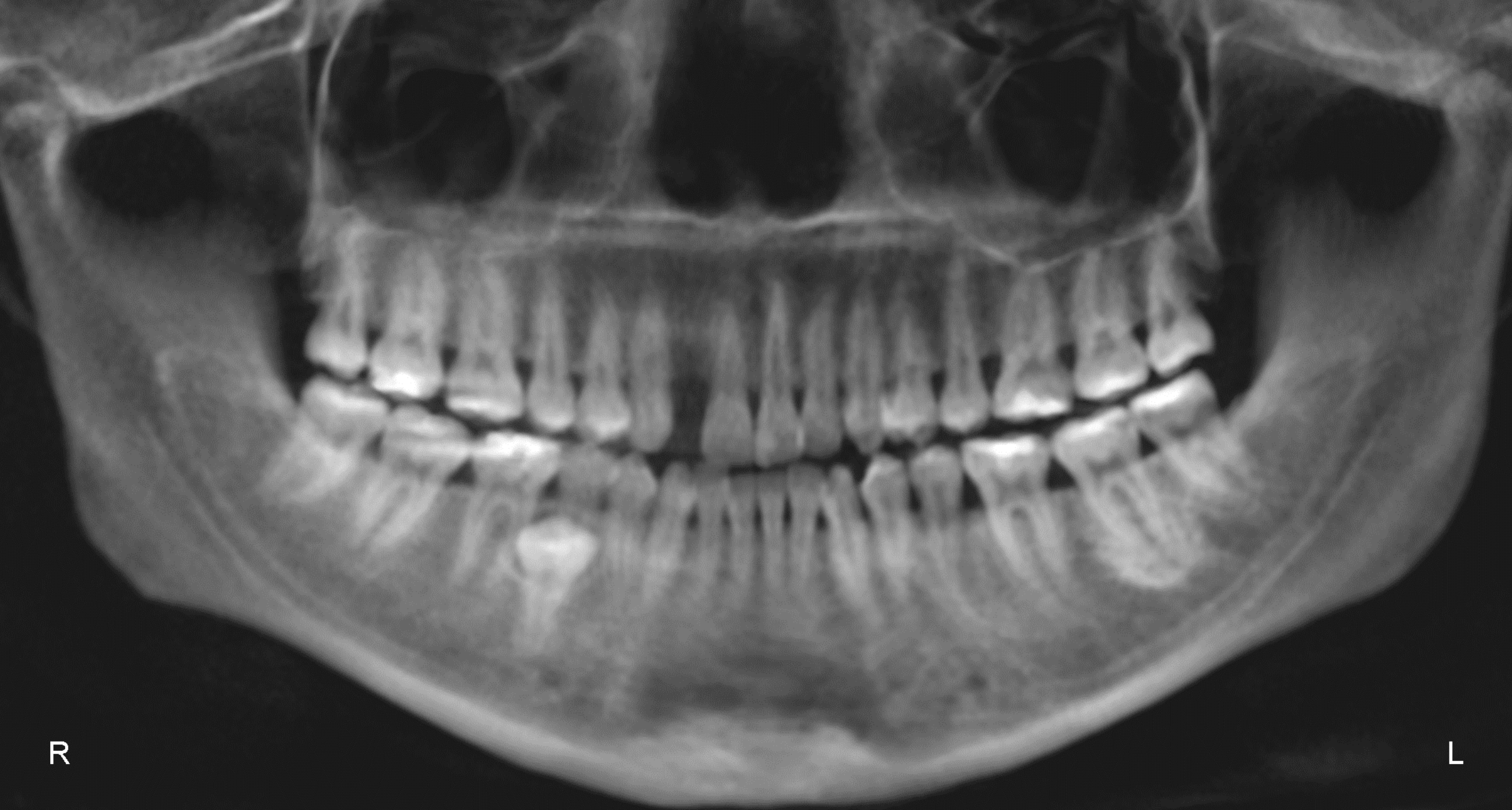
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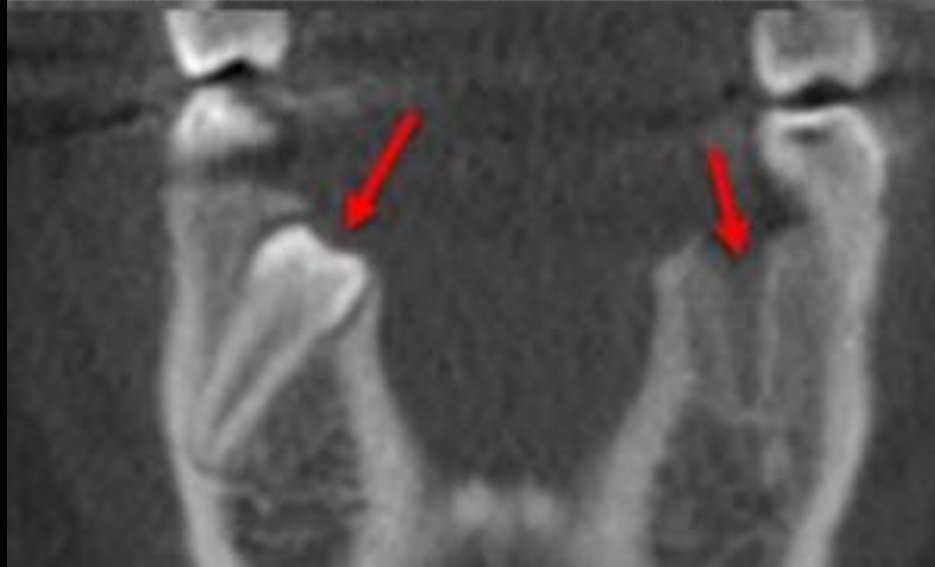


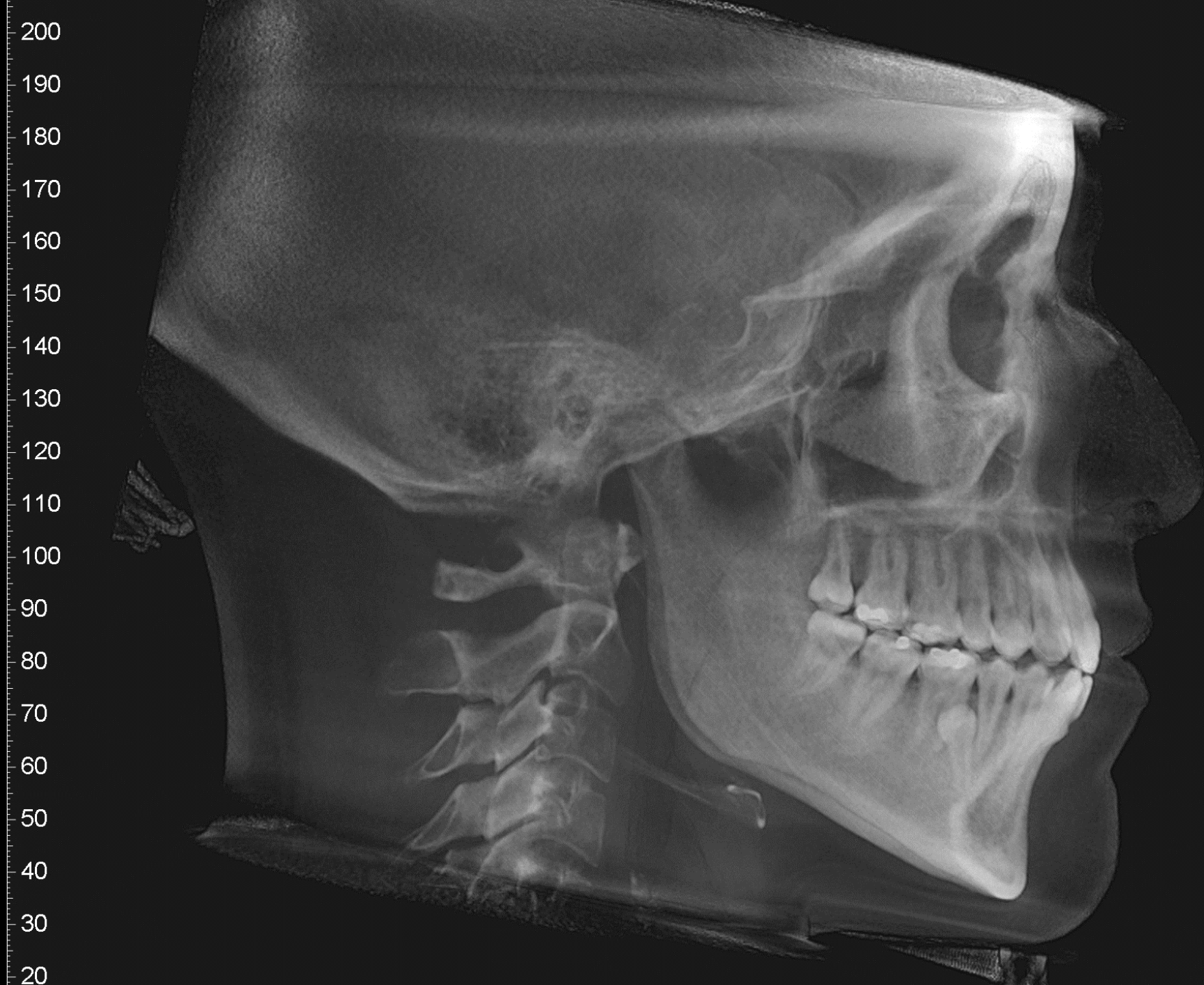
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R

L





Lateral, Orthogonal, Built-in Mag = 0%

Lisclavel Rosas, ID: 1175464

Female Other, b. 2/25/1996 (age 23)

Timepoint: Initial

Close

Image:



Right X-Ray

Print

Analysis: UOP-Standard

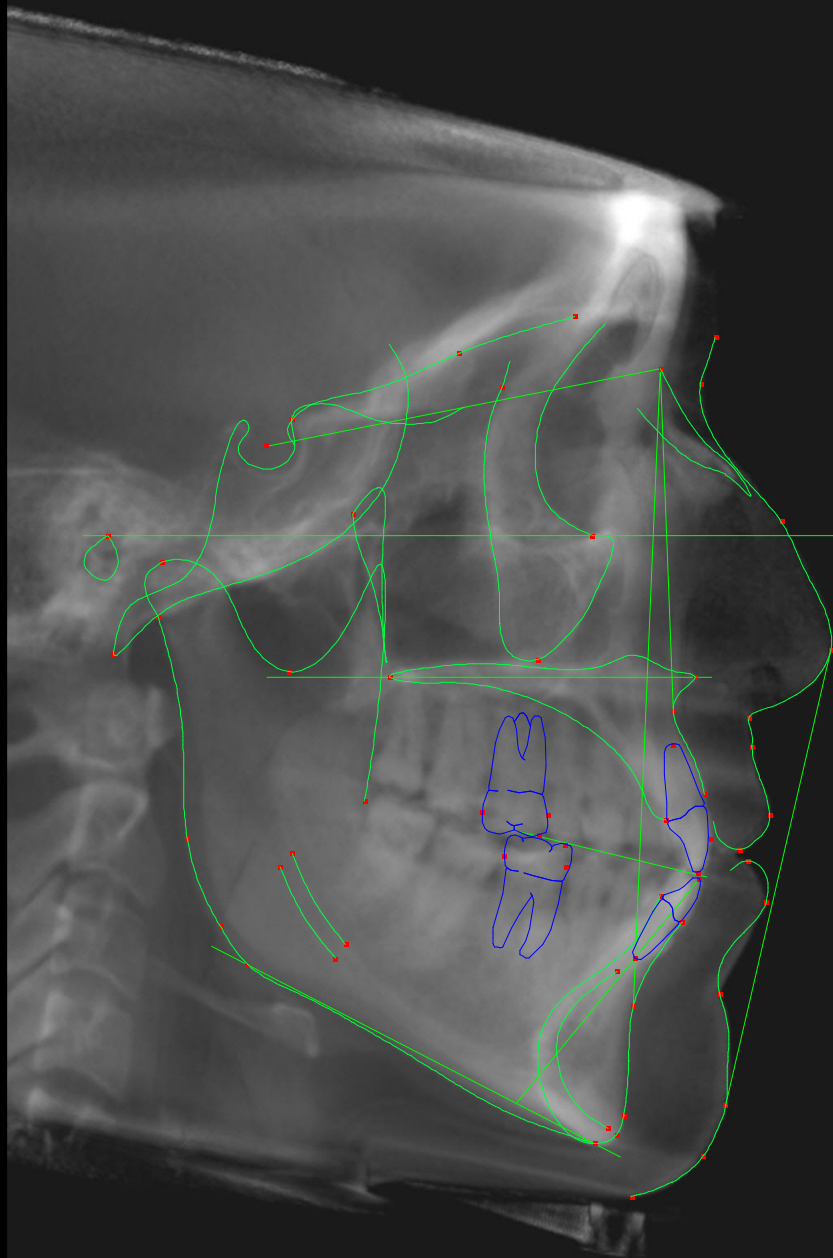


Dev Norm: ☐ Standard ☒ Polygon/Wiggle-gram

☐ Hide Values

☐ Use Same Color

Group/Measurement	Value	Norm	Std Dev	Dev Norm
Skeletal-Sagittal jaw relationship				
SNA (°)	81.5	81.0	4.0	
SNB (°)	76.7	77.7	3.4	
ANB (°)	4.7	2.9	2.7	
Wits Appraisal (mm)	-4.4	-1.0	1.0	
Pog - NB (mm)	-0.8	1.9	1.4	
Skeletal-Vertical jaw relationship				
FH - SN (°)	10.7	7.0	3.0	
Occ Plane to SN (°)	24.0	14.7	3.8	
MP - SN (°)	37.3	32.1	5.5	
FMA (MP-FH) (°)	26.6	23.9	4.5	
Anterior Face Height (NaMe) (mm)	122.9	122.7	6.4	
Upper Face Height (N-ANS) (mm)	49.0	55.3	3.2	
Lower Face Height (ANS-Gn) (mm)	76.9	64.5	4.4	
LFH/TFH (ANS-Me:N-Me) (%)	60.2	55.0	3.0	
Dental				
Stm-1 (mm)	3.6	2.0	2.0	
Interincisal Angle (U1-L1) (°)	128.5	130.0	6.0	
U1 - NA (°)	9.2	22.8	5.7	
U1 - NA (mm)	3.0	4.3	2.7	
U1 - SN (°)	90.7	102.8	5.5	
L1 - NB (°)	37.6	25.3	6.0	
L1 - NB (mm)	9.9	4.0	1.8	
IMPA (L1-MP) (°)	103.5	90.0	7.0	
FMIA (L1-FH) (°)	49.9	64.8	8.5	
Soft tissue				
Vertical Face Height Ratio (%)	79.2	100.0	25.0	
Upper Lip to E-Plane (mm)	-3.7	-6.0	2.0	
Lower Lip to E-Plane (mm)	-1.1	-2.0	2.0	
H-Angle (Pg'UL-Pg'Na') (°)	10.9	10.0	4.0	



Perio

4 3 4	4 3 4	6 3 5	4 3 4	4 3 3	3 2 4	4 4 4	4 3 5	5 2 3	4 3 3	4 3 3	4 3 4	4 3 7	4 3 5	5 2 5	5 3 5	PD
B B	B B	B B	B B		B	B B	B B	B		B	B	B	B	B B B	B B B	Bleed
4 2 3	3 2 3	3 2 3	3 0 3	3 0 3	3 1 3	3 1 3	3 1 3	2 1 2	3 0 3	3 0 3	4 0 4	4 0 4	3 1 3	4 1 4	4 3 4	FreeGM
0 1 1	1 1 1	3 1 2	1 3 1	1 3 0	0 1 1	1 3 1	1 2 2	3 1 1	1 3 0	1 3 0	0 3 0	0 3 3	1 2 2	1 1 1	1 0 1	Attach
																Furcation
																MG Inv
																Calc
0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	Mobil
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
5 3 5	6 3 5	2 4 3	4 3 4	4 3 4	4 3 5	6 5 5	6 3 4	5 2 4	3 3 3	4 2 6	5 2 3	5 3 4	4 3 4	5 3 4	5 3 4	PD
B B B	B B B	B B	B B	B	B	B B B	B B B	B B	B B B	B B	B B	B B	B B	B B	B	Bleed
4 4 4	3 1 2	2 0 2	3 1 3	3 1 3	3 1 3	3 3 3	4 2 4	4 2 4	3 0 3	3 1 3	4 2 4	4 1 3	4 2 3	3 1 3	3 2 3	FreeGM
1 -1 1	3 2 3	0 4 1	1 2 1	1 2 1	1 2 2	3 2 2	2 1 0	1 0 0	0 3 0	1 1 3	1 0 -1	1 2 1	0 1 1	2 2 1	2 1 1	Attach
																Furcation
																MG Inv
																Calc
																Diag

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																Diag
																Calc
																MG Inv
																Furcation
1 -1 2	2 -1 1	1 -1 1	0 0 -1	0 1 1	-1 1	1 1 0	1 1	1 1 0	1 0 1	1 0	2 1 1	2	2 3	2 0 3	1 -1 2	Attach
4 4 4	4 4 4	4 4 4	4 3 4	4 2 4	4 2	3 1 3	2 3	3 2 3	3 2 3	2 3	3 2 3	4	2 3	4 4 4	4 4 4	FreeGM
B B B	B B B	B B	B	B B	B	B B B	B B B	B B B	B B B	B B B	B B	B B B	B B B	B B B	B B B	Bleed
5 3 6	6 3 5	5 3 5	4 3 3	4 3 5	3 3 4	4 2 3	4 3 4	4 3 3	4 2 4	4 3 3	5 3 4	6 5	6 4 6	6 4 7	5 3 6	PD
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Mobil
																Calc
																MG Inv
																Furcation
0 -1 1	6 3 2	3 2 3	1 1 2	0 1 1	0 2 0	1 -1 1	0 0 0	0 0 0	0 1 2	0 1 0	0 1 0	0 1 3	2 1 3	2 0 3	2 1 1	Attach
4 4 4	0 -1 2	2 0 2	3 1 3	3 1 3	3 1 3	4 4 4	3 2 3	3 2 3	3 2 3	3 1 3	4 2 4	4 2 2	3 2 2	3 3 2	4 4 4	FreeGM
B B B	B B B	B B	B	B	B	B B B	B B		B	B		B B	B B	B	B B	Bleed
4 3 5	6 2 4	5 2 5	4 2 5	3 2 4	3 3 3	5 3 5	3 2 3	3 2 3	3 3 5	3 2 3	4 3 4	4 3 5	5 3 5	5 3 5	6 5 5	PD

Periodontal Findings

❖ Periodontal Diagnoses:

- ❖ Inflammatory: Generalized chronic gingivitis with localized chronic mild periodontitis in regions of maxillary and mandibular premolars

❖ Etiology:

- ❖ Primary: Bacterial plaque
- ❖ Secondary: Malocclusion

❖ Prognosis: Good for all remaining dentition

Perio After ITE

3 2 4	5 3 5	5 2 4	4 2 3	3 2 3	3 2 3		3 3 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 6	5 2 5	5 2 5	4 3 4	PD
B	B						B					B	B B	B B	B	Bleed
3 2 4	4 2 4	4 2 4	4 2 3	3 2 3	3 2 3		3 3 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 4	4 2 4	4 2 4	4 3 4	FreeGM
0 0 0	1 1 1	1 0 0	0 0 0	0 0 0	0 0 0		0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 2	1 0 1	1 0 1	0 0 0	Attach
																Furcation
																MG Inv
																Calc
0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	Mobil
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4 3 4	4 2 4	4 2 3	3 2 3	3 2 3	3 2 3		2 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 5	3 2 4	4 2 4	4 3 4	PD
B B	B			B						B		B			B	Bleed
4 3 4	4 2 4	4 2 3	3 2 3	3 2 3	3 2 3		2 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 4	3 1 4	4 2 4	4 3 4	FreeGM
0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	0 1 0	0 0 0	0 0 0	Attach
																Furcation
																MG Inv
																Calc
																Diag

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																Diag
																Calc
																MG Inv
																Furcation
0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 4 0	0 0 0	2 0 2	2 0 0	Attach
4 3 4	4 3 4	4 3 3	3 2 3	3 2 2	3 2 3	3 2 2	3 2 2	2 2 2	2 2 2	3 2 3	3 2 3	3 0 3	4 3 4	4 3 4	4 3 4	FreeGM
B B	B B	B		B		B						B	B B	B B	B	Bleed
4 3 4	4 3 4	4 3 3	3 2 3	3 2 2	3 2 3	3 2 2	3 2 2	2 2 2	2 2 2	3 2 3	3 2 3	3 4 3	4 3 4	6 3 6	6 3 4	PD
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Mobil
																Calc
																MG Inv
																Furcation
0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	2 0 0	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	Attach
4 3 4	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	4 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	4 3 3	FreeGM
B	B		B			B		B	B						B	Bleed
4 3 4	3 2 3	3 2 3	3 2 3	3 2 3	3 2 3	6 2 3	3 2 3	3 2 3	3 2 3	4 2 3	3 2 3	3 2 3	3 2 3	3 2 3	4 3 3	PD

Caries Risk Assessment

- ❖ pH: 5.9 stimulated saliva
- ❖ ATP meter reading: 4324
- ❖ Other findings: Active decay and mild-to-moderate restorative history
- ❖ Overall Caries Risk: High
 - ❖ Etiology: poor OH, low pH, high bacterial count
 - ❖ Diagnosis: Active and recurrent caries disease
 - ❖ Treatment recommendations: Improved OH
 - ❖ Prognosis: good with restorative treatment and behavioral changes

Overall Risk Assessment (Medical, Perio, and Caries)

❖ Etiology:

- ❖ Poor oral hygiene
- ❖ Lack of dental knowledge
- ❖ High Caries Risk
- ❖ Malocclusion
- ❖ Smoker

❖ Prognosis:

- ❖ Good depending on patient compliance and improved OH

Ideal Treatment Plan*

❖ Urgent Care:

- ❖ Extraction of #7 and delivery of Essix retainer

❖ Disease Control:

- ❖ OHI, Limited Scaling and Root Planing on Lower Left/Right
 - ❖ Initial Therapy Evaluation 4-8 weeks post-op
- ❖ Direct restorations on:
 - ❖ #3 OL, #14 OL, #15 OL, #17 O, #18 O, #19 O, #19 B
 - ❖ #9 MILF

❖ Reconstructive:

- ❖ Extractions of #10, 21, 28, 70 (supernumerary), 78 (supernumerary)¹⁻³
- ❖ Comprehensive Orthodontic treatment for both Maxillary & Mandibular arches
- ❖ Esthetic Recontouring of Maxillary Anterior Teeth

❖ Maintenance:

- ❖ Supportive Periodontal Therapy (4 months post SRP)

*Denotes that the patient accepted the treatment plan option

Treatment Plan Alternative #1 (Implant at #7)

❖ Urgent Care:

- ❖ Extraction of #7 and delivery of Essix retainer

❖ Disease Control:

- ❖ OHI, Limited Scaling and Root Planing on Lower Left/Right
 - ❖ Initial Therapy Evaluation 4-8 weeks post-op
- ❖ Direct restorations on:
 - ❖ #3 OL, #14 OL, #15 OL, #17 O, #18 O, #19 O, #19 B
 - ❖ #9 MILF

❖ Reconstructive:

- ❖ Extractions of #21, 28, 70 (supernumerary), 78 (supernumerary)
- ❖ Comprehensive Orthodontic treatment for both Maxillary & Mandibular arches
- ❖ Single implant at #7 with Implant Crown restoration following completion of orthodontic treatment

❖ Maintenance:

- ❖ Supportive Periodontal Therapy (4 months post SRP)

Treatment Plan Alternative #2 (No Ortho & Implant #7)

❖ Urgent Care:

- ❖ Extraction of #7 and delivery of Essix retainer

❖ Disease Control:

- ❖ OHI, Limited Scaling and Root Planing on Lower Left/Right

- ❖ Initial Therapy Evaluation 4-8 weeks post-op

- ❖ Direct restorations on:

- ❖ #3 OL, #14 OL, #15 OL, #17 O, #18 O, #19 O, #19 B

- ❖ #9 MILF

❖ Reconstructive:

- ❖ Single implant at #7 with Implant Crown restoration following completion of orthodontic treatment

❖ Maintenance:

- ❖ Supportive Periodontal Therapy (4 months post SRP)

Treatment Plan Alternative #3 (No Ortho & No Implant)

❖ Urgent Care:

- ❖ Extraction of #7 and delivery of Essix retainer

❖ Disease Control:

- ❖ OHI, Limited Scaling and Root Planing on Lower Left/Right
 - ❖ Initial Therapy Evaluation 4-8 weeks post-op
- ❖ Direct restorations on:
 - ❖ #3 OL, #14 OL, #15 OL, #17 O, #18 O, #19 O, #19 B
 - ❖ #9 MILF

❖ Reconstructive:

- ❖ 3-unit porcelain-fused-zirconia fixed partial denture spanning #6-8

❖ Maintenance:

- ❖ Supportive Periodontal Therapy (4 months post SRP)









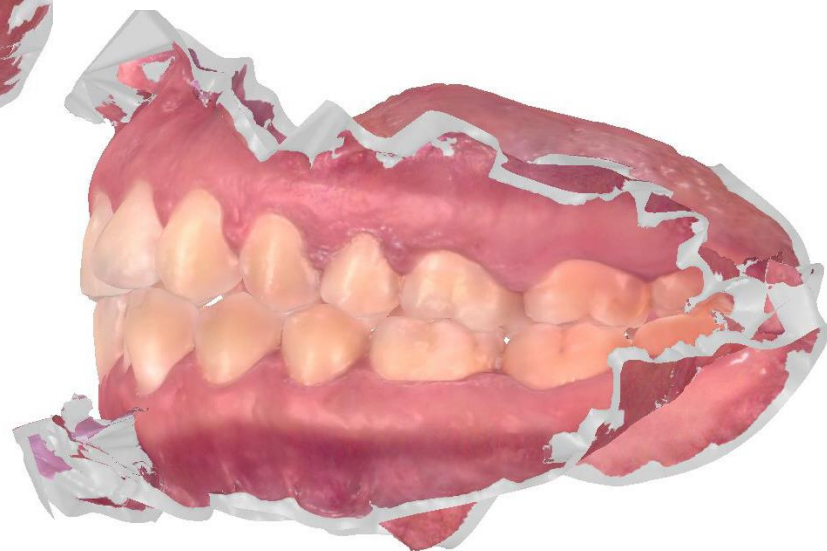


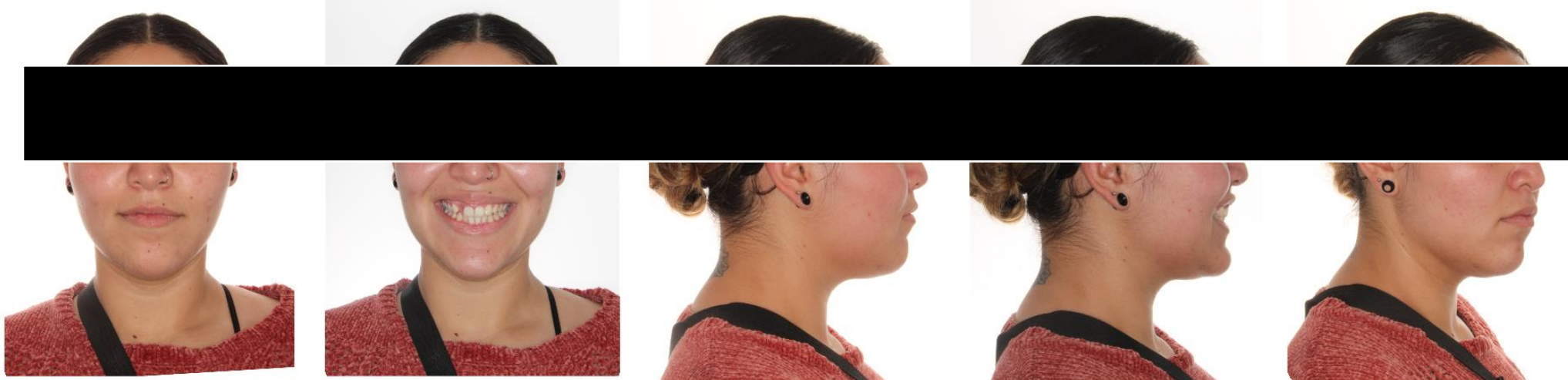


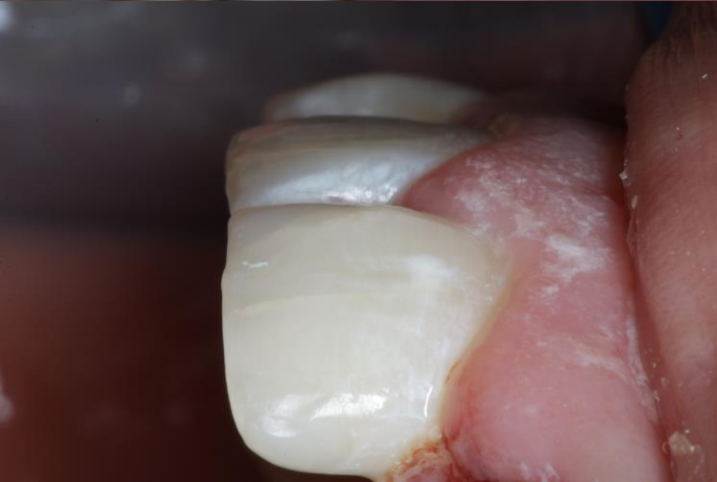






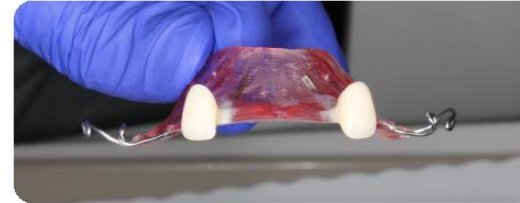


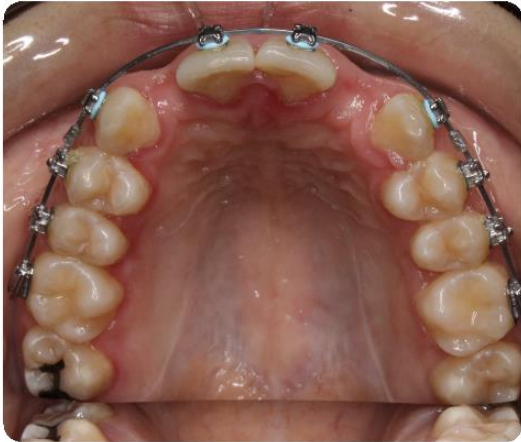


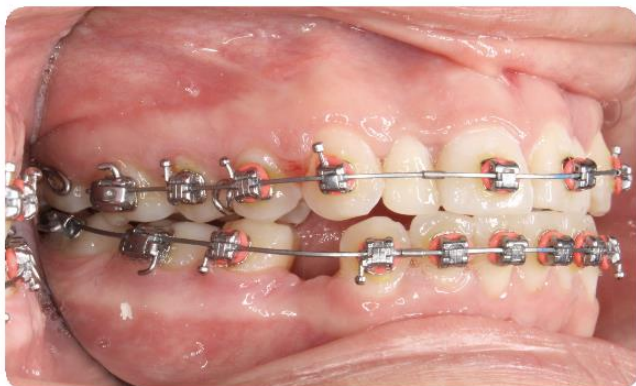
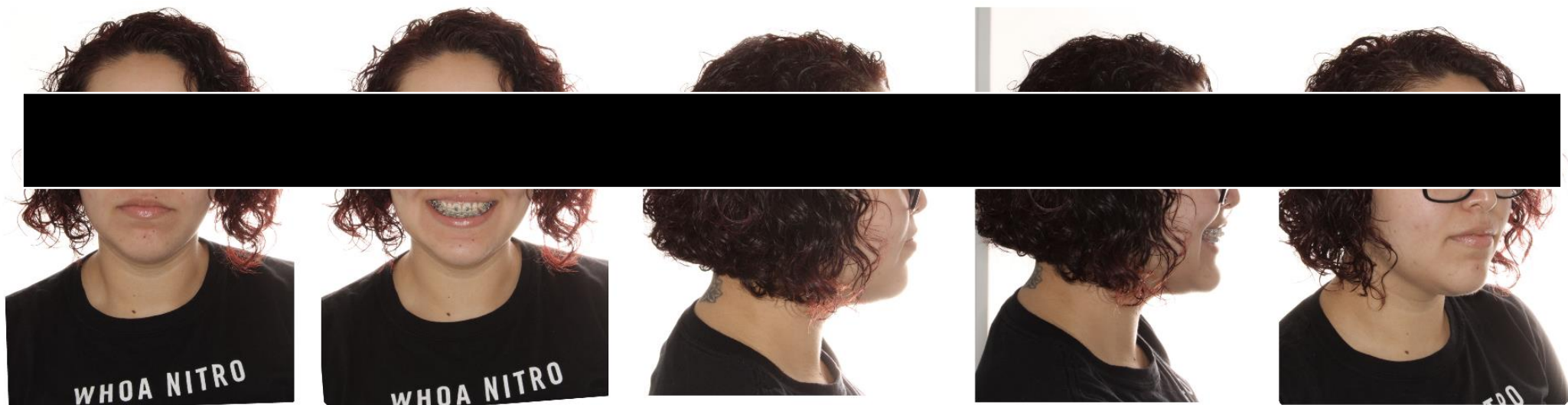














*Case 4:
Congenitally
Missing Maxillary
Lateral Incisors.
Journal of Cosmetic
Dentistry. 2016
Winter;31(4):23-24.*



Works Cited

1. Priest, G. *The treatment dilemma of missing maxillary lateral incisors-Part I: Canine substitution and resin-bonded fixed dental prostheses.* J Esthet Restor Dent. 2019 Jul;31(4):311-318. doi: 10.1111/jerd.12484. Epub 2019 Apr 29.
2. Priest, G. *The treatment dilemma of missing maxillary lateral incisors-Part II: Implant restoration.* J Esthet Restor Dent. 2019 Jul;31(4):319-326. doi: 10.1111/jerd.12483. Epub 2019 Apr 29.
3. Li, R. et. Al. *Canine edge width and height affect dental esthetics in maxillary canine substitution treatment.* Prog Orthod. 2019 Apr 8;20(1):16. doi: 10.1186/s40510-019-0268-y.
4. Sandeep, N. et. Al. *An Analysis of Maxillary Anterior Teeth Dimensions for the Existence of Golden Proportion: Clinical Study.* J Int Oral Health. 2015 Sep; 7(9): 18–21.
5. Silveira GS, et. Al. *Prosthetic replacement vs space closure for maxillary lateral incisor agenesis: A systematic review.* Am J Orthod Dentofacial Orthop. 2016 Aug;150(2):228-37. doi: 10.1016/j.ajodo.2016.01.018.
6. *Case 4: Congenitally Missing Maxillary Lateral Incisors.* Journal of Cosmetic Dentistry. 2016 Winter;31(4):23-24.