



Libyan International Medical University



Comprehensive case presentation

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Roll No: 1054



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Personal data

- Patient`s name: N.S.M
- Age: 34 years old
- Gender: Female
- Occupation: House-wife
- Address: Bo Aatni
- Nationality: Libyan

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Chief Complain

- ▶ The patient complaining of pain at lower right area since one month.

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History of Chief Complain

- ▶ Throbbing continuous diffused pain related to lower right area exaggerated by sweets, cold, hot and chewing of non radiating nature starts severe and continue with no change in course, lasts for hours and removed by painkillers or using of mouth wash, disturbs sleep
- ▶ No history of swelling , no associated sign and symptoms and no treatment attempts.



Medical History

- ▶ Medically fit (Not of significance)
- ▶ Systemic Review : no abnormality detected

Dental History

- ▶ Symptomatic patient
- ▶ History of : Extraction with no complication , Restorations and Scaling.
- ▶ Patient brush her teeth once a day in the morning
- ▶ Last visit : 2 years ago



Family History

- ▶ History of Diabetic Mother

Social History

- ▶ Married
- ▶ Has three children
- ▶ Not pregnant
- ▶ Diet: Variable diet
- ▶ Water consumption : 2 liter per day



Clinical Examinations

Extra Oral

- ▶ Face symmetry : Symmetrical
- ▶ Skin: Normal.
- ▶ TMJ : no tenderness , clicking , deviation or dislocation was detected with normal mouth opening.
- ▶ Lymph Nodes: Not palpable.
- ▶ Lips: competent.
- ▶ Facial Profile: Straight.

Intra Oral

- ▶ Oral Mucosa: Normal
- ▶ Tongue: Normal



Right side



Left side

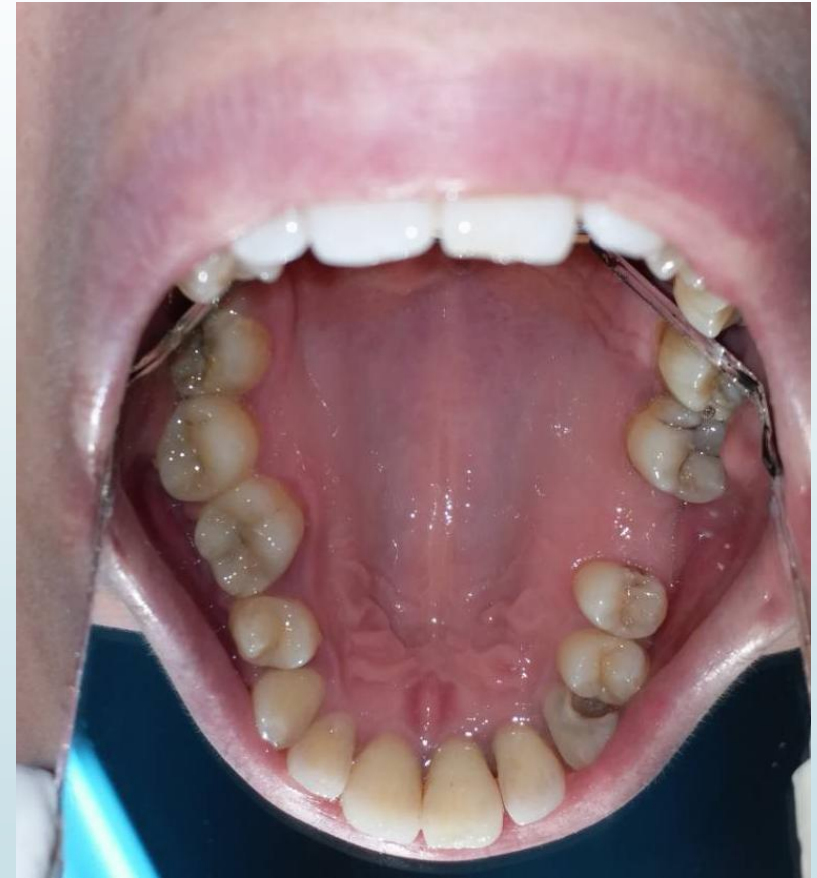


Front view

Lower arch



Upper arch



Oral Hygiene Index



16	11	26
2	1	2
2	1	2
46	31	36

16	11	26
1	0	1
0	2	0
46	31	36

plaque 3 2 1 0

Plaque Index = $\frac{10}{6} = 1.6$

Calculus Index = $\frac{4}{6} = 0.6$

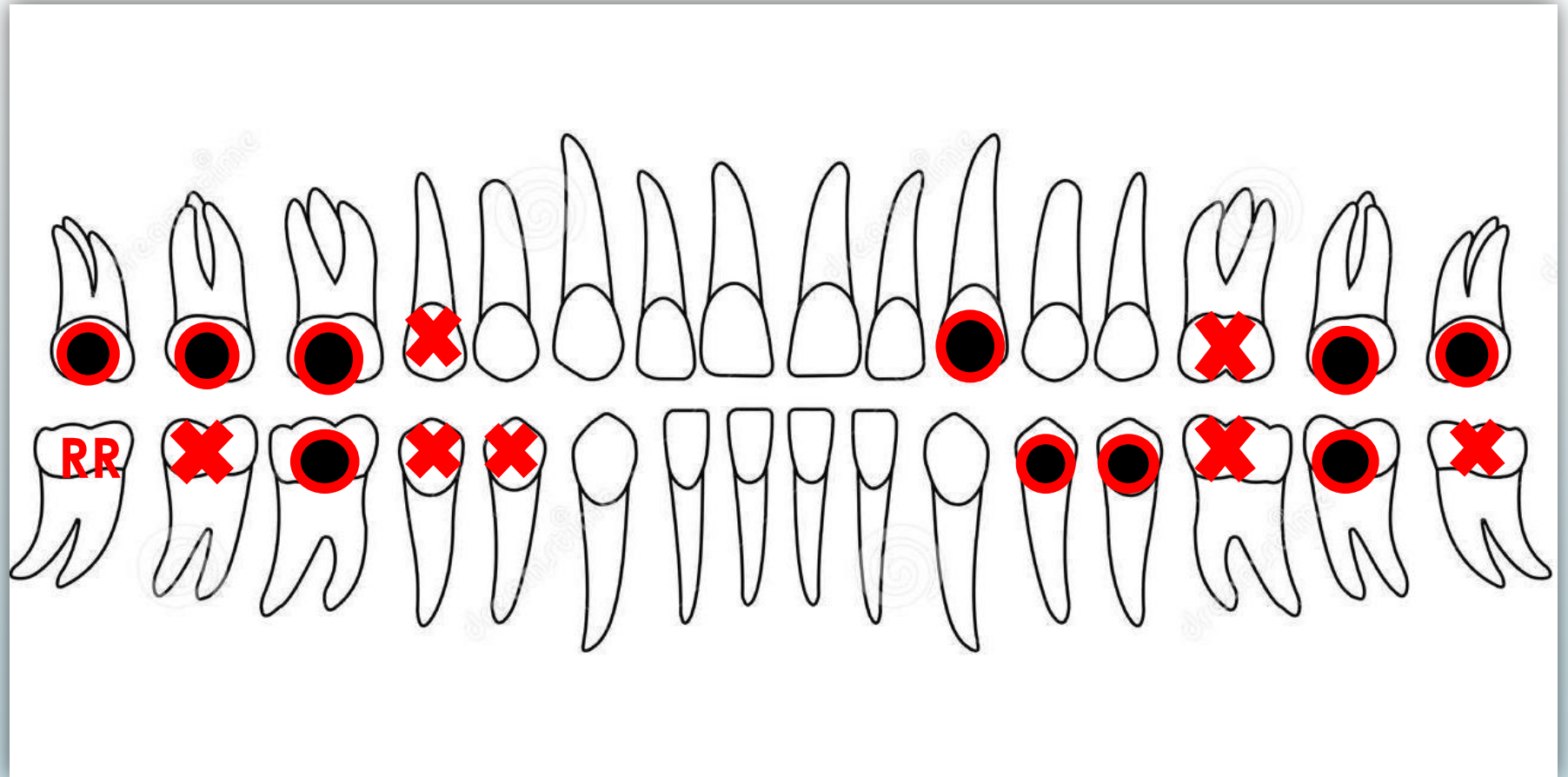
OHI-S = $1.6 + 0.6 = 2.2$

Good (0-1.2), Fair (1.3-3), Poor (3.1-6)

Soft tissue examination

- ▶ **Gingival status**
 - color** > bluish red
 - contour** > scalloped with round margins and blunt interdental papilla
 - consistency** > soft and edematous
 - size** > slight enlargement at upper right area
 - bleeding on probing** > present
 - exudate** > absent
 - stippling** > absent
- ▶ **Frenal attachment** > Normal
- ▶ **FREMITUS TEST** > Negative
- ▶ **Attached gingiva** > Adequate.

Hard Tissue Examinations



 Decayd

 Missed

RR Remaining root

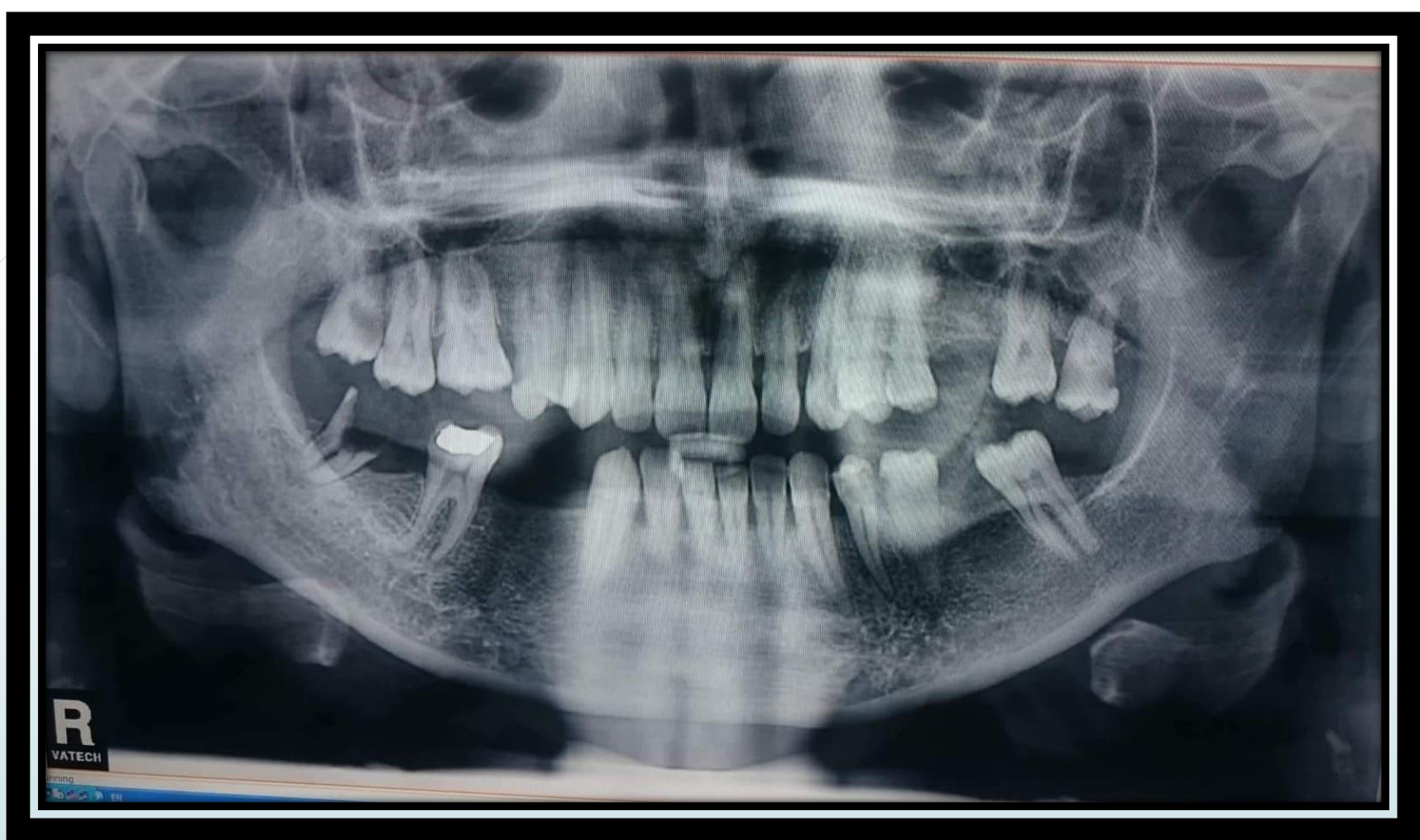
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D.D of Chief Complain

- ▶ Chronic periapical periodontitis
- ▶ Chronic periapical abscess

Investigations

- ▶ IOPA (48)
- ▶ Orthopantogram (OPG)



- ▶ Panoramic view showing maxillary and mandibular teeth with generalized moderate bone loss.
- ▶ Remaining root of lower right eight
- ▶ Radiolucency related to mesial and distal aspect of crown of upper left eight , mesial aspect of crown of lower left five and upper right eight, distal aspect of lower right six and lower left four .
- ▶ Radiopacity related to lower right six indicate restoration
- ▶ Missing teeth (15) (26) (36) (38) (44) (45) (47).
- ▶ Periapical radiolucency related to the root of lower left four.

Final Diagnosis

- ▶ Chronic periapical periodontitis(48).
- ▶ Dental caries related to (18) (17) (16) (23) (25) (27) (37) (35) (34) (46).
- ▶ Generalized moderate chronic periodontitis.
- ▶ Kennedy`s class II modification 2 (Lower arch)
- ▶ Kennedy`s class III (Upper arch)



Treatment Plan

► Emergency phase :

- Extraction of lower right 8

► Phase I Therapy :

- Patient motivation and education about the importance of plaque control.
- Supra and sub gingival scaling and root planning.
- Diet sheet.

Re-evaluation of phase I



CON...

➤ Phase II Therapy (surgical phase)

- Extraction of non restorable teeth (18) (28)
- Gingivectomy.

➤ Phase III Therapy (Restorative phase)

- RCT (34) (23) (46)
- Composite Restorations (17) (16) (23) (25) (27) (35) (37).
- Prosthetic Replacement :
 - ready made Metal post + Composite Core + PFM crown (46)
 - ready made fiber post + composite core + all ceramic crown (23) (34)
- Removable Partial Denture for replacement (44) (45) (47) (36) (26)

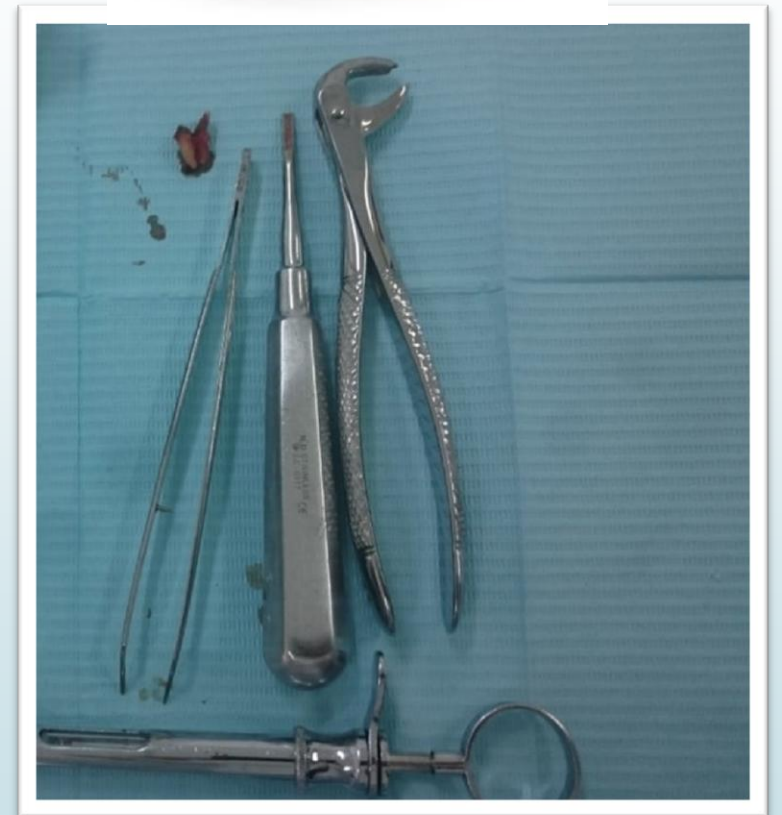
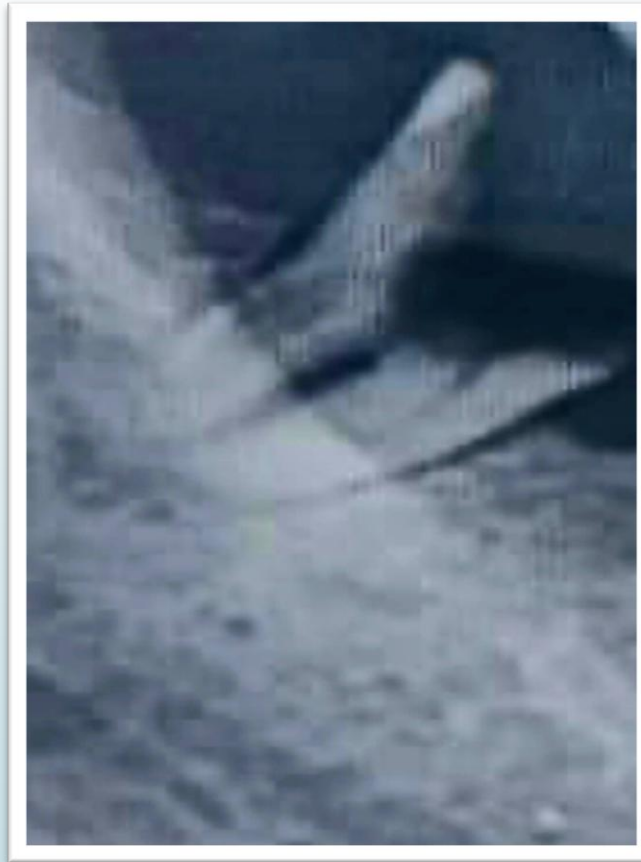
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➤ Phase IV Maintenance and recall:

- Recall after 3 month and then after 6 months if maintenance achieved.



Emergency Phase:



Diet sheet analysis



- It was discussed with the patient and encourage her good habits, tell her the effect of bad habits on her oral health and motivate her to take more care about her oral hygiene to keep her mouth healthy

الايام	الساعة	الوجبة	نوع الوجبة
السبت	11:30	شاهي وحليب+حلوه معجونه+كوب ماء	فطور
	2:30	مكرونه + سلاطه	غداء
	7:00	قهوة + مقروض+ماء	عصريه
	11:00	سندوتش بيض+عصير عنب	عشاء
الاحد	9:00	شاهي وحليب + بسكويت بالشوكلاطه+ماء	فطور
	1:00	ارز + براك + سلاطة	غداء
	5:30	قهوة + بسكويت بالشوكلاطه + كوب ماء	عصريه
	11:00	سندوتش تن + عصير	عشاء
الاثنين	9:00	شاهي وحليب + بسكويت بالشوكلاطه + ماء	فطور
	3:00	كسكسي + سلاطة	غداء
	6:30	قهوة + بسكويت بالشوكلاطه	عصريه
	11:30	سندوتش شاورما + عصير	عشاء



Scaling and root planning



Con..



Con..



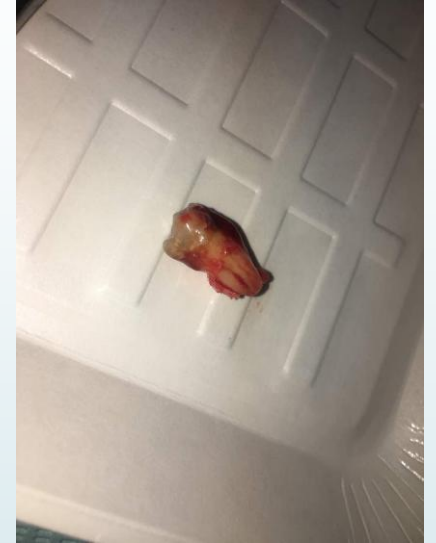
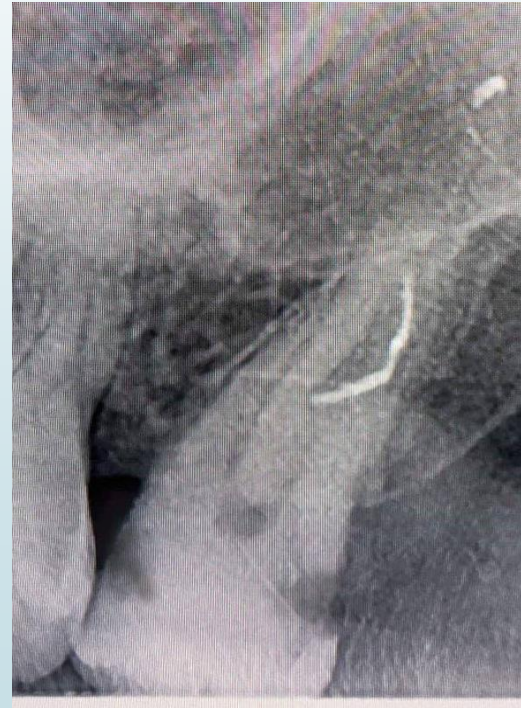


Re-evaluation of phase I

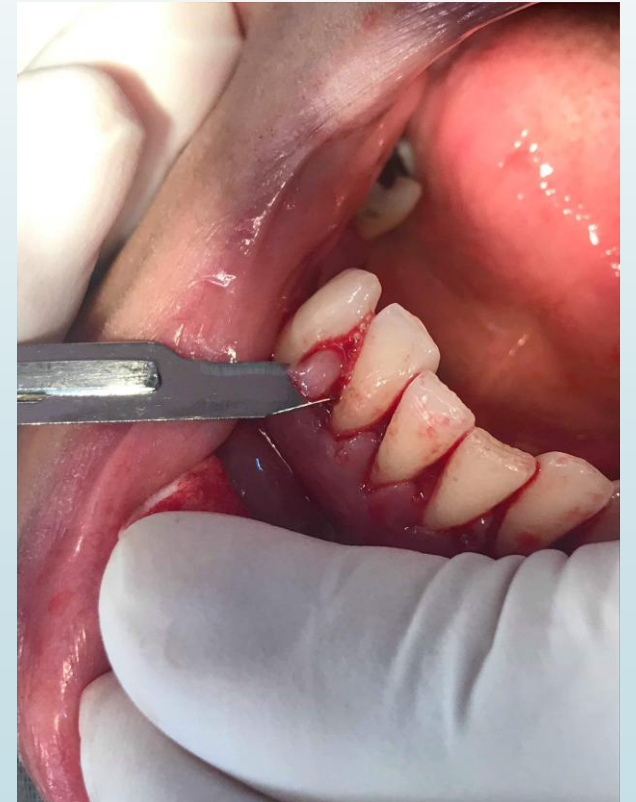
- ▶ Patient showed improvement of oral hygiene.
- ▶ Improved gingival status.
- ▶ Reduction in pocket depth except in the lower anterior area.

Surgical Phase

- ▶ Extraction of non restorable teeth (18) (28)



Gingivectomy





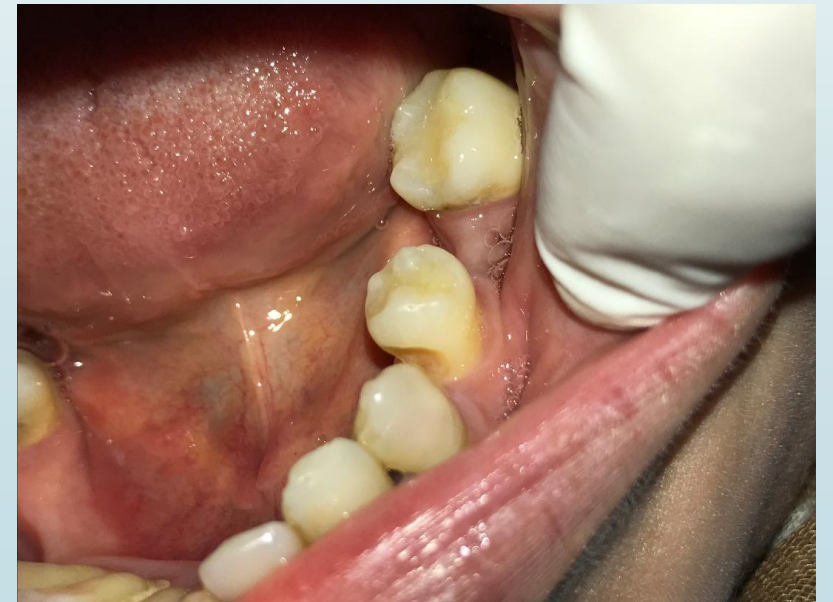
2 hours
later



Restorative phase



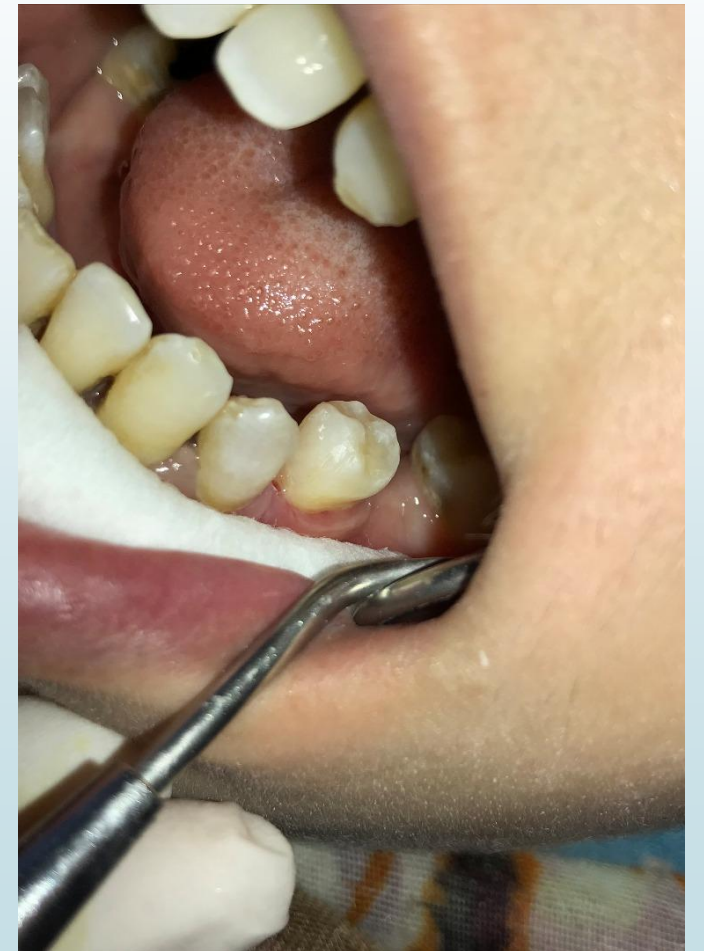
- Class I cavity restored with calcium hydroxide + composite restoration (37) (indirect pulp capping)



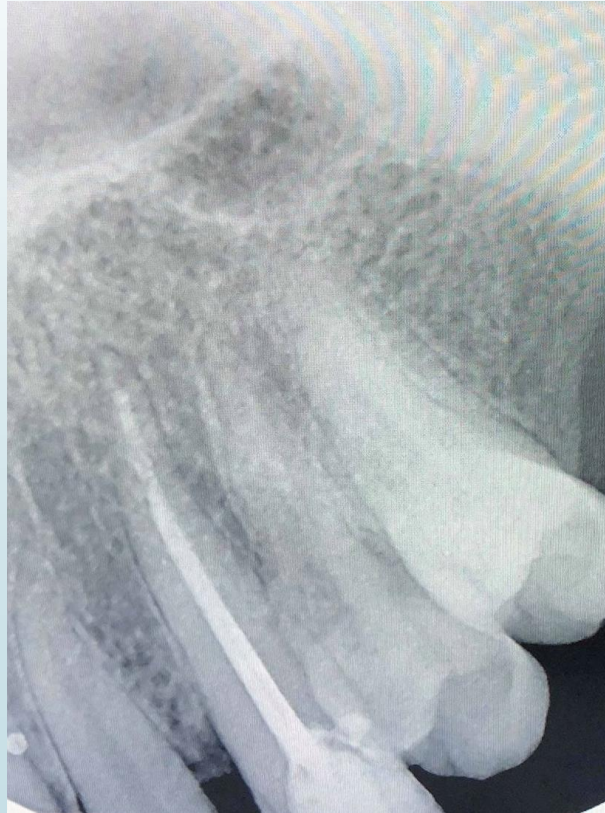
Class I composite restoration (35)



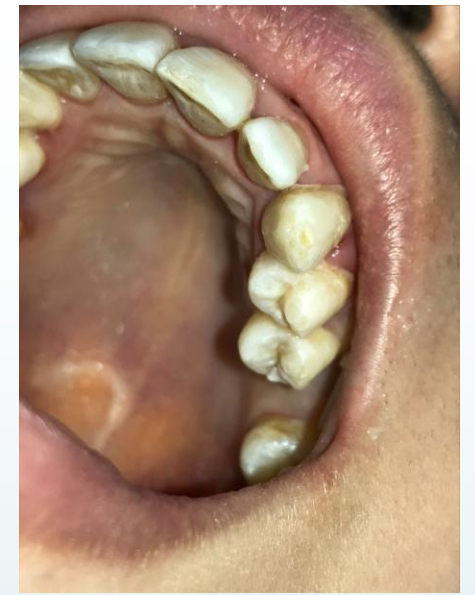
Class V composite restoration (35)



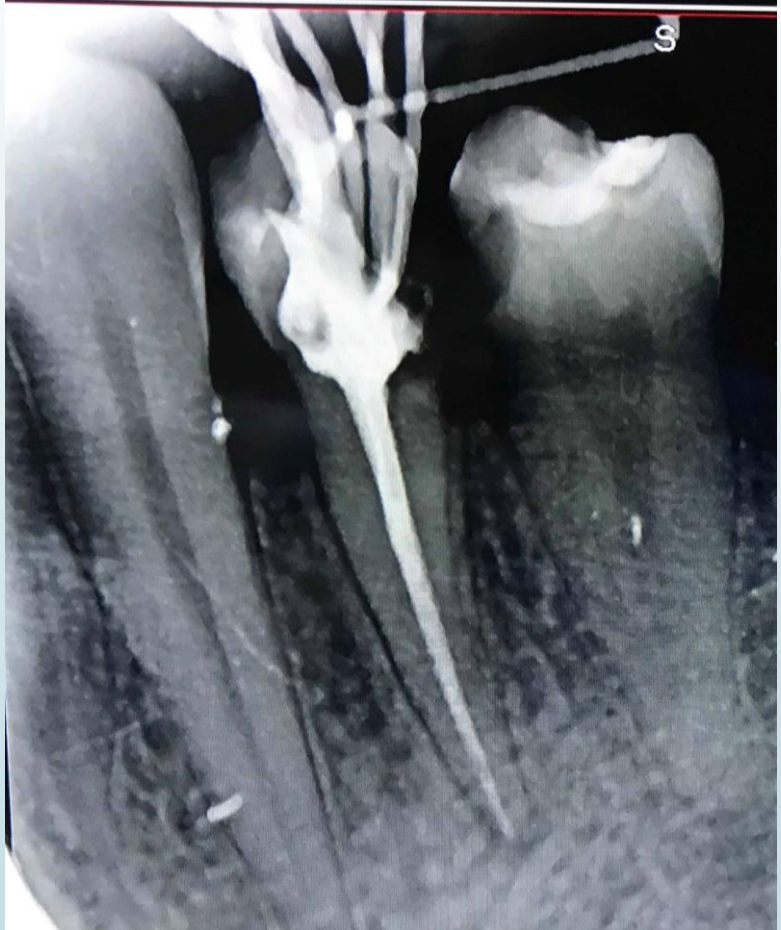
RCT and class III Composite restoration (23)



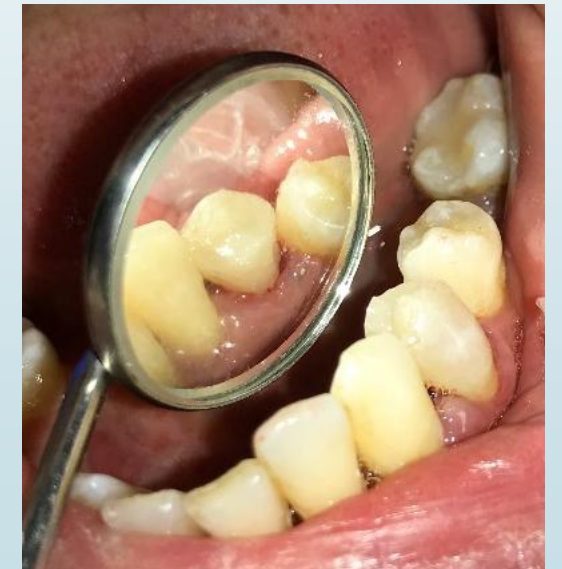
Class V composite restoration (23)



RCT (34)



RCT and composite build up (34) con...



Class I composite restoration (16) (27)



RCT (46)

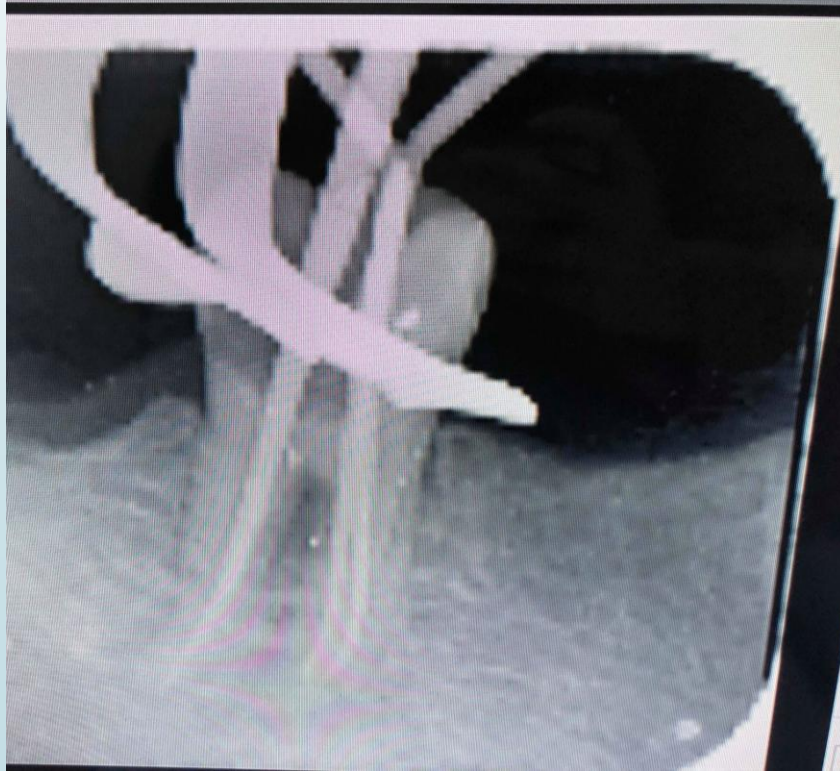
Pre operative



RCT (46) Con...



Pro-taper rotary system



Restorative phase con..

- Prosthetic Replacement (46) (45) (36) (26)



- Primary impression is taken using Alginate impression material

Restorative phase con...

- Fabrication of ready made metal post + composite core build up and PFM crown (46)



Post space
preparation

Restorative phase con..

- Fabrication of ready made metal post + composite core build up and PFM crown (46)



Post cementation

Restorative phase con..

- Fabrication of ready made metal post+ composite core build up and PFM crown (46)



Restorative phase con...

- Fabrication of ready made metal post+ composite core build up and PFM crown (46)



Preparation of tooth axially and occlusally and placement of retraction cord.

Restorative phase con...

- Fabrication of ready made metal post+ composite core build up and PFM crown (46)



Final impression

Restorative phase con...

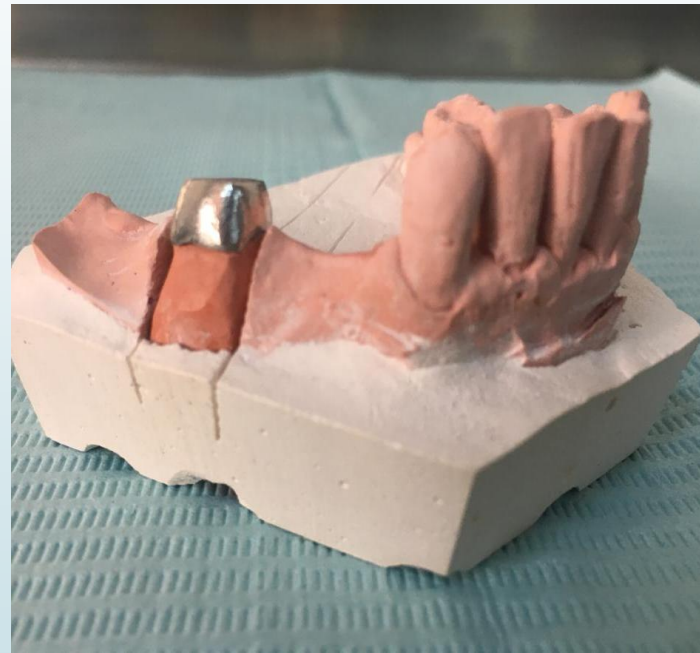
- Fabrication of ready made metal post+ composite core build up and PFM crown (46)



Temporary Crown

Restorative phase con...

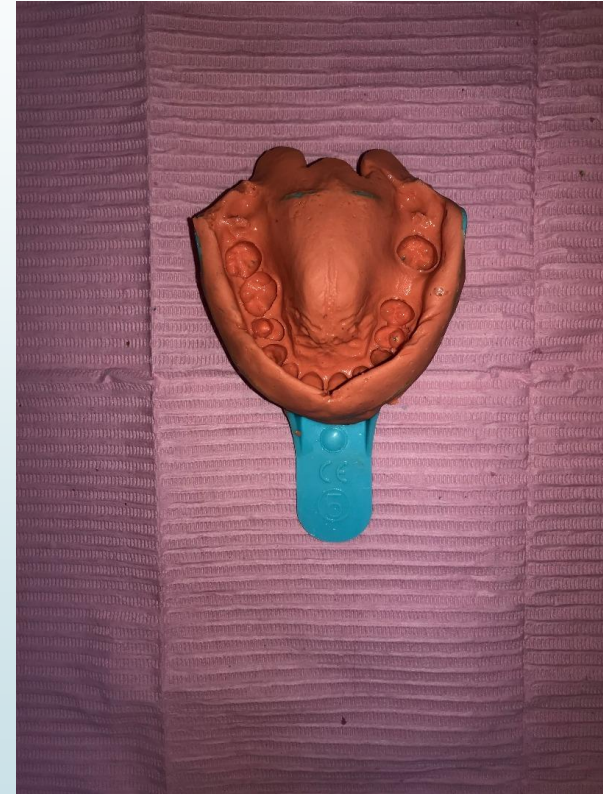
- Fabrication of ready made metal post+ composite core build up and PFM crown (46)



Metal Try in

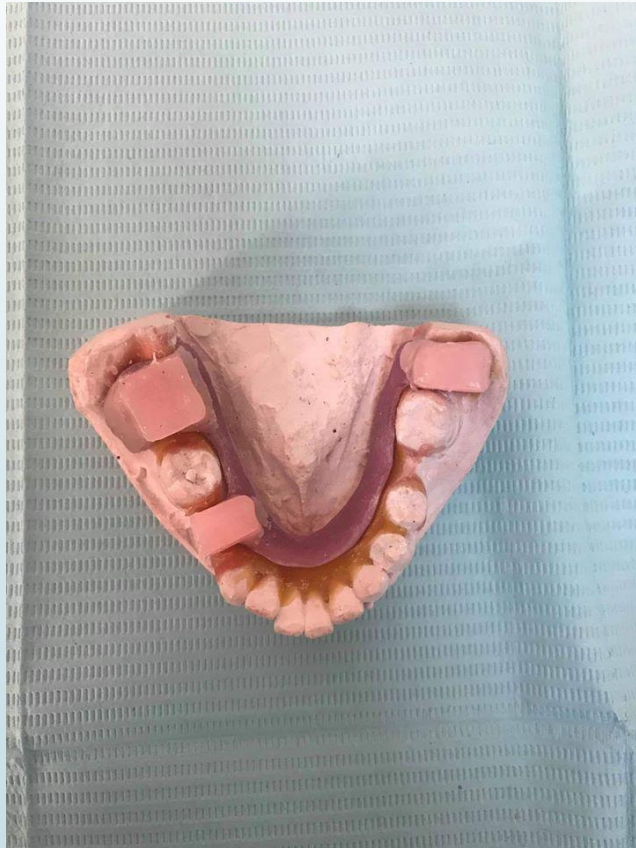
Restorative phase con..

- Removable partial denture fabrication



Primary impression is taken using Alginate impression material

Restorative phase con...



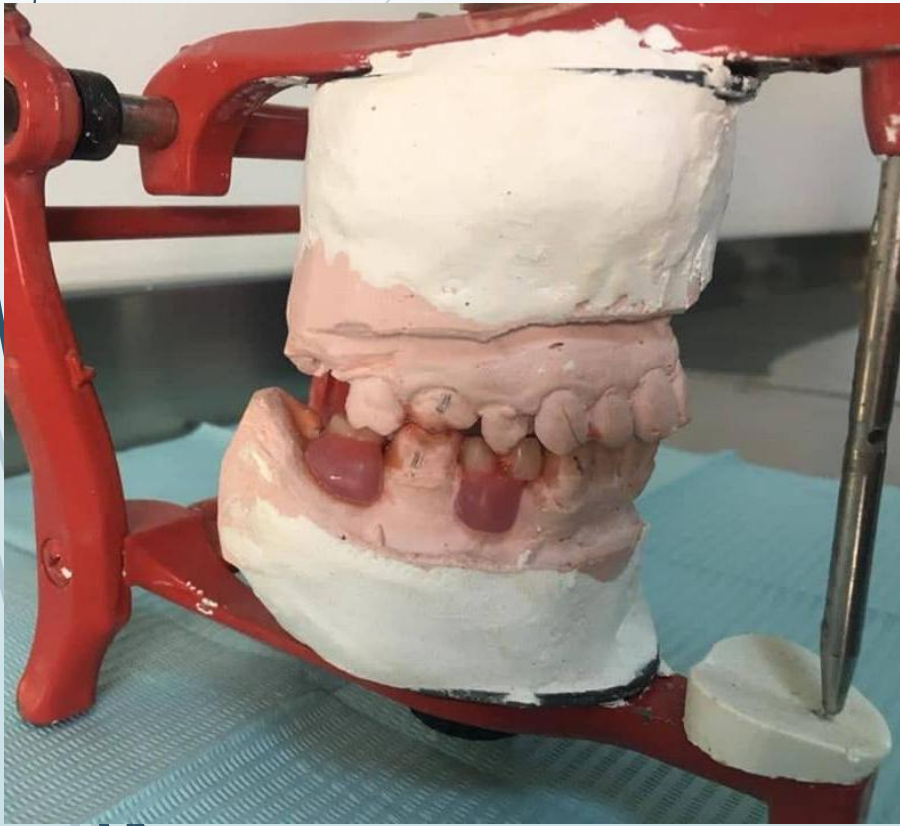
Restorative phase con...

➤ Try in



Restorative phase con..

➤ Try in





- ▶ The patient missed the appointment for the try-in
- ▶ The patient was contacted numerous times regarding completion of treatment however, she did not respond
- ▶ During the course of treatment, the patient was uncooperative in that she commonly missed appointments



Thank You!