



Libyan International Medical University

Comprehensive case presentation

Presented by: Sara F. Akhleifa
Roll No. 720

This work was achieved by the student: **Sara Fakhri Akhleifa** under the supervision of dental teaching staff at Libyan International Medical University:

- ❖ Rafeeq M. Al Kuafi
- ❖ Abdelmonem A. Abdelnabi
- ❖ Omar A. Huni
- ❖ Abdelsalam Alsanfaz
- ❖ Ranya F. Elemam
- ❖ Ali Busnaina
- ❖ Naeima M. Betamar
- ❖ Nada Kashbor
- ❖ Mohamed H. Elgtlawi
- ❖ Rabea Alhuni



**Helping people is not a duty, It's
a joy, for it increases our own
health & happiness.**

Personal Data

Patient's Name : F.A.A

D.O.B : 22\8\1974

Gender : Female

Occupation : House wife

Address : 20.st

Nationality : Libyan



Chief complain:

Patient complain of pain in her upper front teeth since 2 days

History of chief complain:

Pain started six months ago as mild localized intermittent pain related to her upper teeth **aggravated** by cold drinks and sweets lasts for 5mins, relived by warm water rinse, not disturbing her sleep of non radiating nature not associated with any other symptoms.

Suddenly in last 2 days the pain become sever, throbbing, spontaneous, continuous pain, which increases with biting, and reduced by stopping of mastication (biting) associated with tenderness around the tooth

- ❖ No previous treatment attempts.
- ❖ She didn't take any medication for it.

Past and present medical history :

- ❖ Free from any chronic illnesses
 - ❖ History of 4 caesarean section
 - ❖ History of Gestational diabetes
 - ❖ No allergies
- ❖ On oral contraceptives since one year and a half
 - ❖ Nursing

Systematic review :

- ❖ Nothing abnormal detected

Dental history :

- ❖ brushes her teeth ones morning with soft brush , vertical technique
 - ❖ No other methods of cleaning
- ❖ History of fillings , root canal treatment and non complicated extractions over 5yrs ago (destructed by caries)
 - ❖ No oral harmful habits
- ❖ Not a regular visitor to dental clinics but willing to be

Family history :

+ve for Diabetes mellitus from mothers side

Social history :

Married and a mother of 4boyes (9yrs_ 8yrs_ 3yrs_ 1yr)

Non smoker, non alcohol drinker

General examination :

Normal body built, gait, posture, mental status, facial symmetry, skin and speech

Extra oral examination :

TMJ: average mouth opening and movement, no crepitation no tenderness

Cervical LN : not palpable

Lip seal \ Lip line \ dental relation to facial mid line :
competent lips \ mid lip line \ coinciding

Face form : ovoid.

Profile : straight

Intra oral examination:

SOFT TISSUE

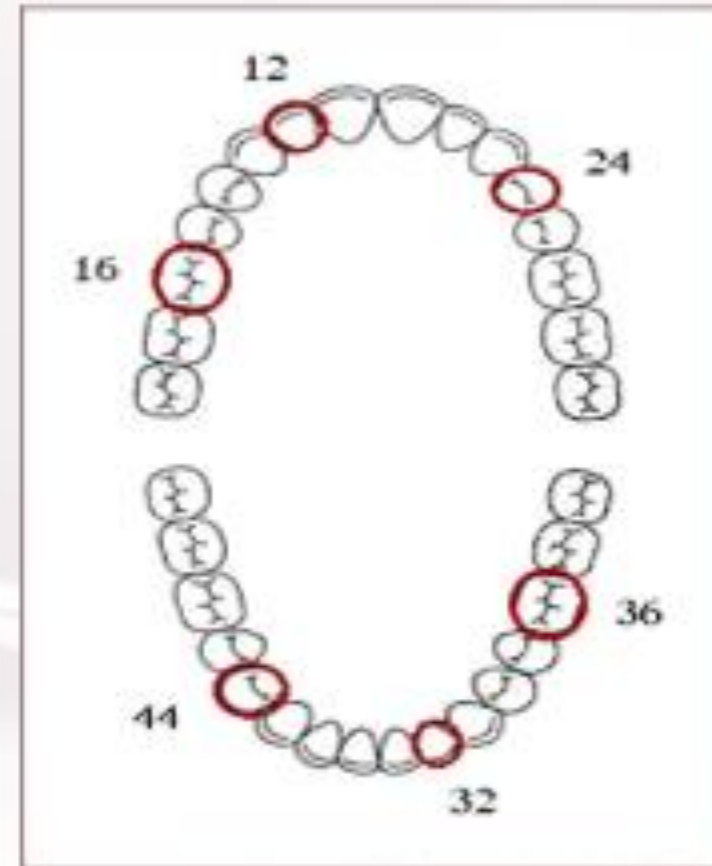
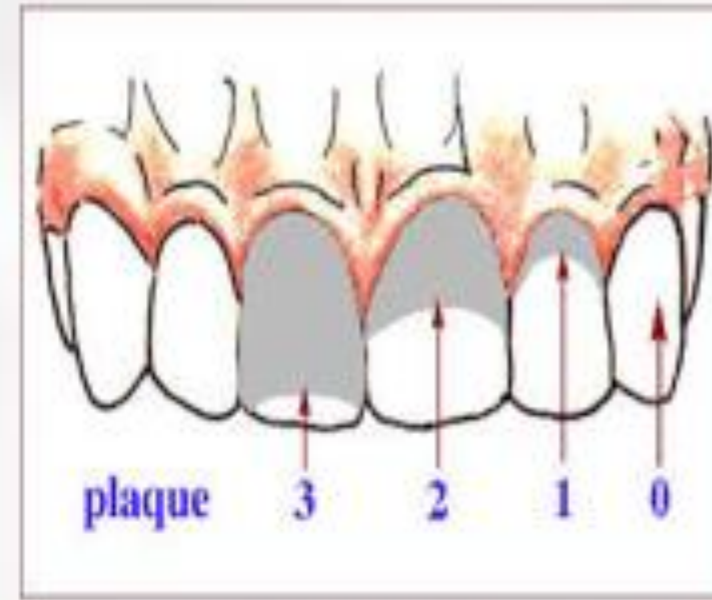
- ❖ Halitosis : present “mild”
- ❖ Oral mucosa \ Palate \ tongue : N.A.D*

Hard Tissue Examination

	F	M	M	R.R		F	D	F	D	D		M	F	F		
	P&F sealant					Composite	Composite	Composite					Amalgam	P&F sealant		
	Amalgam	Amalgam										P&F sealant				
	F	F	#										F	F	M	M

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

Plaque Index = $9 \div 6 = 1.5$



DMFT= 16

OHI-S = $1.5 + 1 = 2.5$ **FAIR**

16	11	26
	1	1
2	2	
46	31	36

Calculus Index = $6 \div 6 = 1$

Decayed	Missing	Filled
14,11,22,23	25,15,16,37,36	26,21,12,35,45 46,47

Gingival status

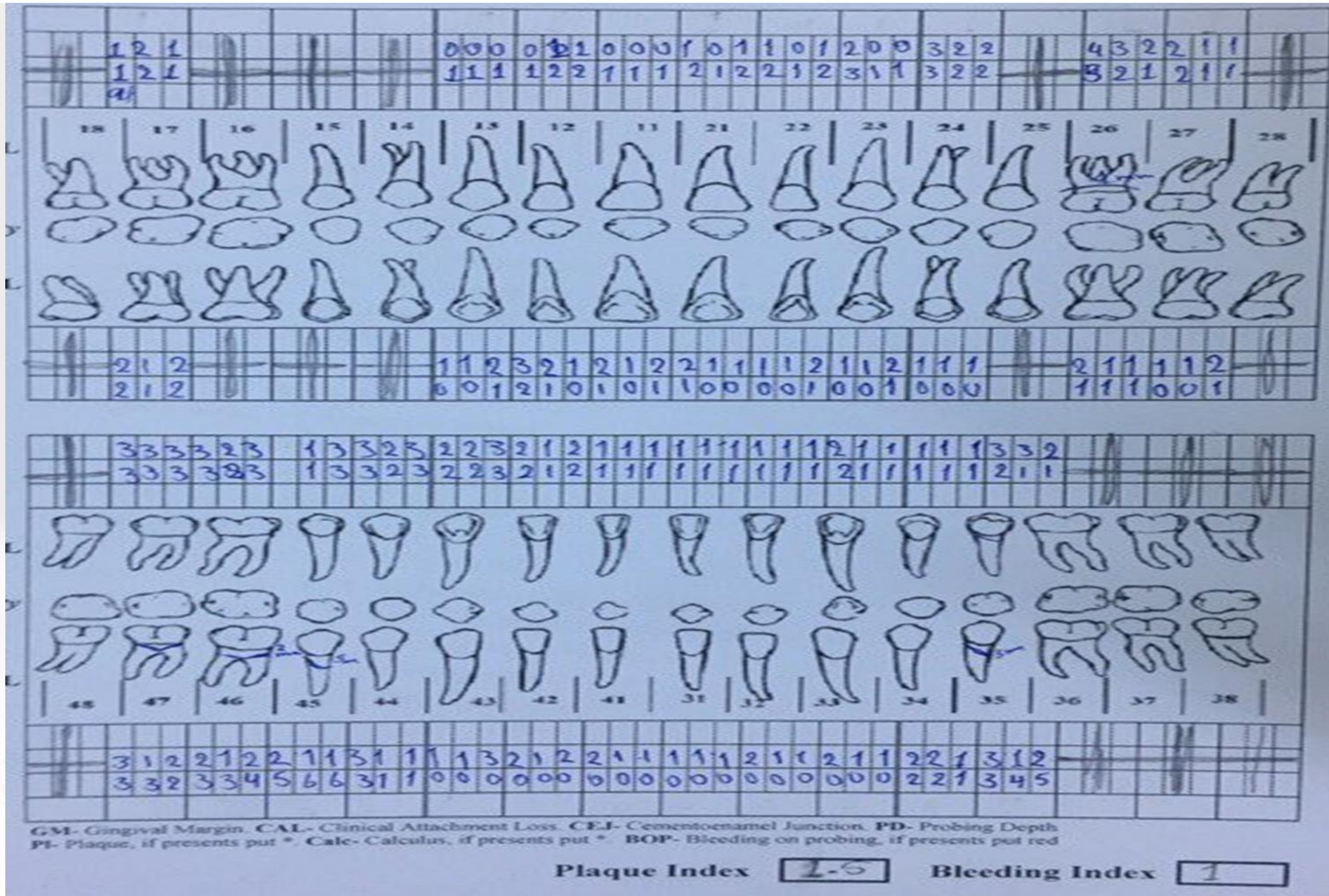
	Max. Right Posterior	Max. Anteriors	Max. Left Posteriors
Color	pink	pink	pink
Contour	Scalloped, rolled margin, blunt IDP	Scalloped, rolled margin, blunt IDP	Scalloped, rolled margin, blunt IDP
Size	Not Enlarged	Not Enlarged	Not Enlarged
Consistency	Firm resilient	Firm resilient	Firm resilient
Stippling	Absent	Present	Absent
Position	@ CEJ	@ CEJ	Apical to CEJ
Bleeding on probing	PRESENT	PRESENT	PRESENT
Exudation	absent	absent	Absent
	Mand. Right Posterior	Mind. Anteriors	Mand. Left Posteriors
Color	pink	pink	Pink
Contour	Scalloped, rolled margin, blunt IDP	Scalloped, rolled margin, blunt IDP	Scalloped, rolled margin, blunt IDP
Size	Not Enlarged	Not Enlarged	Not Enlarged
Consistency	Firm resilient	Firm resilient	Firm resilient
Stippling	Absent	Present	Absent
Position	Apical CEJ	@ CEJ	Apical to CEJ
Bleeding on probing	PRESENT	PRESENT	PRESENT
Exudation	absent	absent	Absent

Other findings :

High labial franal attachment and gingival recession related to (26,35,45,46,47)



Diagnosis : Chronic Generalized Mild to Moderate with localizes sever periodontitis related to (35,45,46)



OF an over all good prognosis

Differential diagnosis

For (23) :

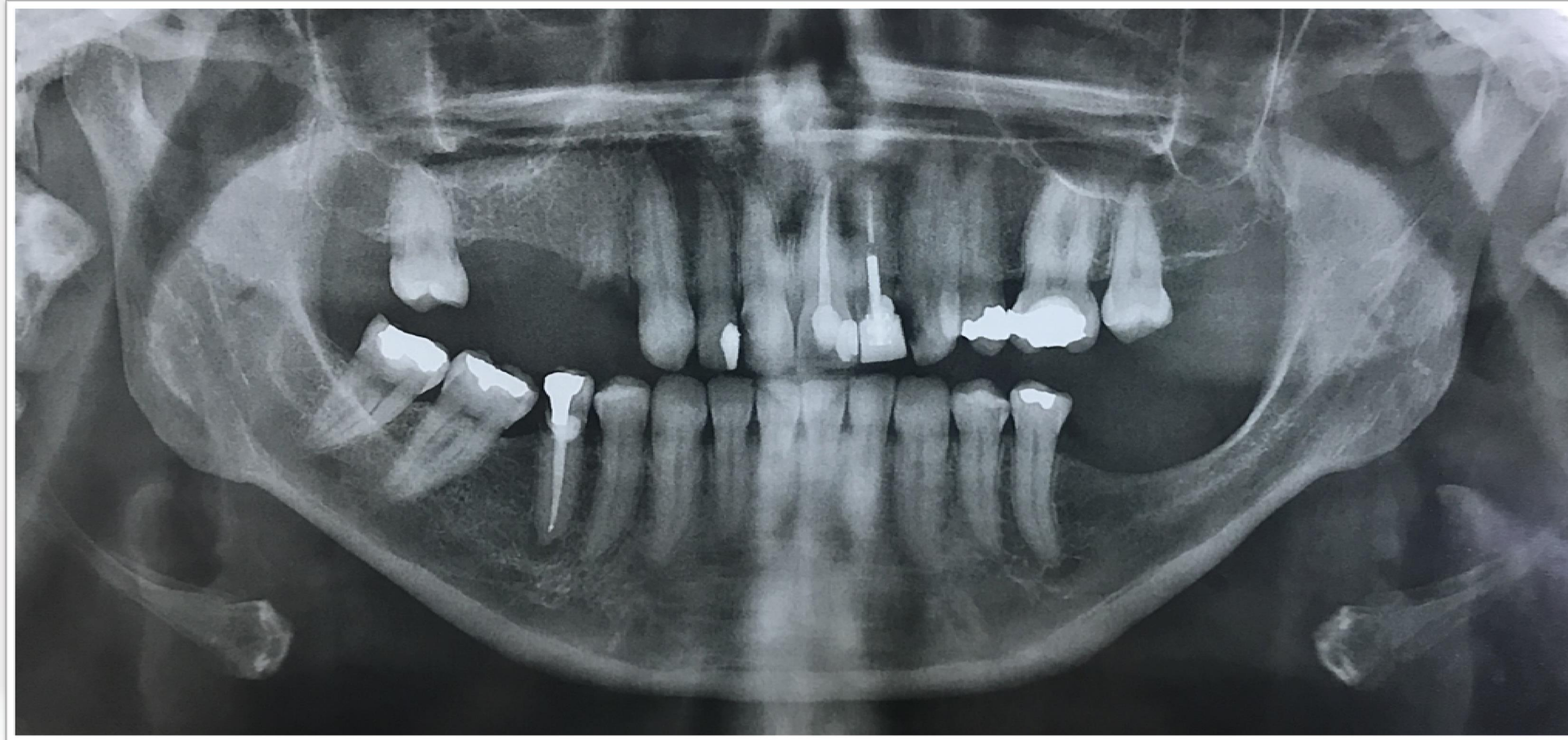
1. Acute periapical periodontitis\abscess
- 2.Acute exacerbation of chronic periapical abscess\
periodontitis
- 3.Infected periapical granuloma or cyst

For (11) :

- 1.Acute reversible pulpitis
- 2.Acute irreversible pulpitis

Investigations :

1. periapical Radiograph of (23,11)
2. vitality test for (23,11)
- 3.Orthopantomogram Radiograph

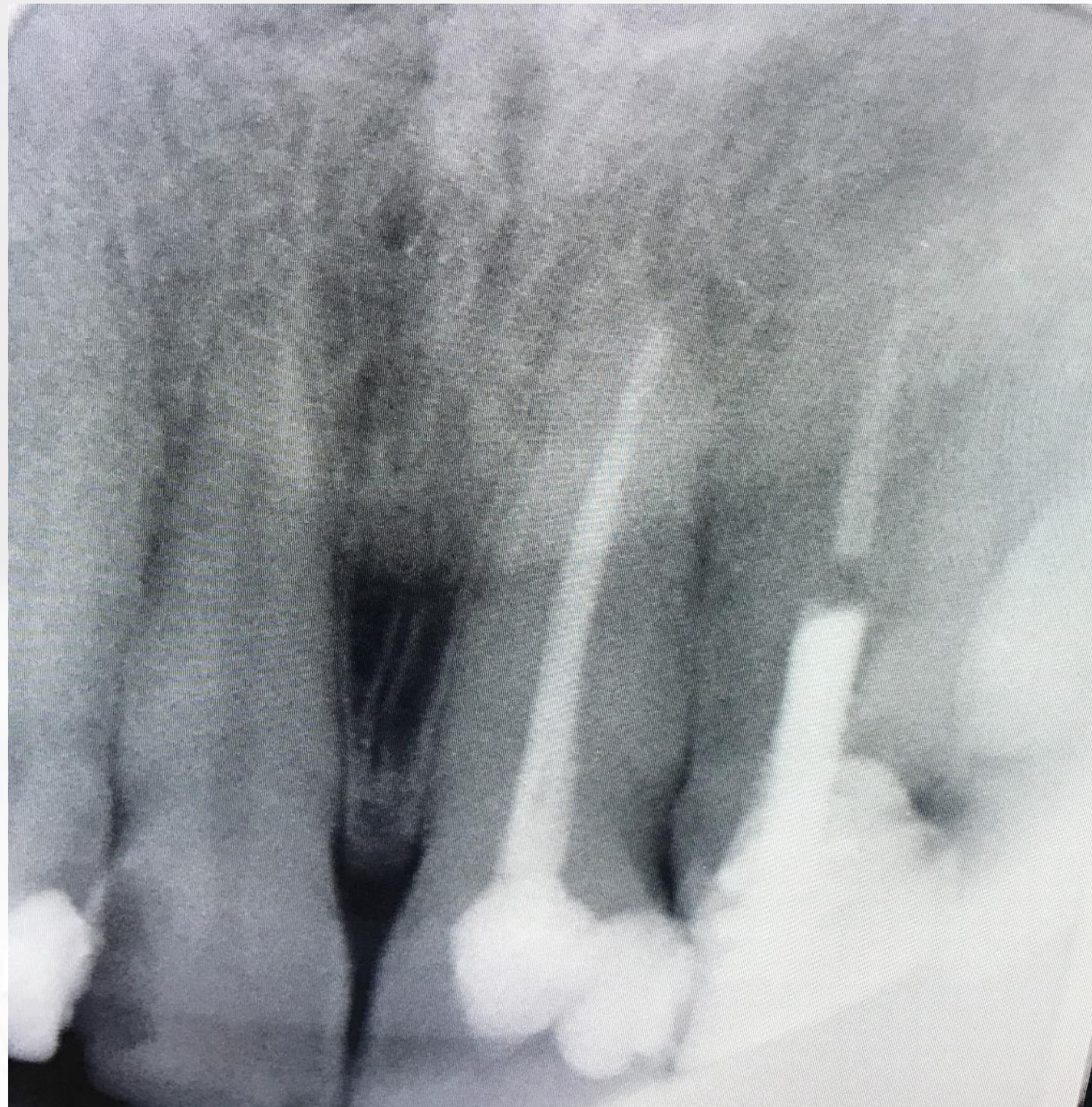


Orthopantomogram Radiograph Examination

Panoramic view Showing maxillary and mandibular teeth with generalized mild to moderate bone loss and multiple restorations and multiple extracted teeth

- Marked left mandibular ridge atrophy
- Remaining root related to 14
- Periapical radiolucency related to root 45 and a small RO at apical 1\3 of the RCT
- Radiolucency related to mesial aspect of crown 34 and distal aspect of 35 crown indicating class II caries lesion

Periapical Radiograph



Final Diagnosis:

- -ve vitality test for (23) indicating Acute periapical periodontitis
- +ve vitality test for (11) indicating Acute reversible pulpitis
- Chronic Periapical abscess\ granuloma (21)
- Periapical granuloma\ cyst (35)
- Badly caries destructed (14)
- Dental caries in relation to mesial (35)
- Dental caries in relation to distal (34)
- Chronic Generalized Mild to Moderate with localizes sever periodontitis
- Multiple teeth missing (16,15,14,37, 36,45)

Treatment Plane

Preliminary \ Emergency Phase

Biomechanical preparation (23)

Phase I

Patient motivation and education about the importance of Plaque control

Diet control

Supra and sub gingival Scaling and Root planning

Excavation of caries and temporary restoration (11,34,35)

Re-evaluation Of Phase I

Phase II Surgical Phase:

Extraction of non restorable teeth (14,22,35)



Phase III Restorative Phase

- ✓ RCT (23)
- ✓ Final restorations for (34,35)
- ✓ Prosthetic reconstruction of decayed tooth (21,23)
(prefabricated fiber post and composite core)
- ✓ replacement of missing (22) with fixed-fixed PFM FPD
- ✓ Full coverage PFM restoration for (11)
- ✓ Replacement of (16,15,14,36,37,45) with upper and lower RPD

Phase IV Maintenance and recall

**Periodic checking 1st after 3 months then after every 6 months if
maintenance achieved**



Preliminary \ Emergency Phase

Biomechanical preparation (23)

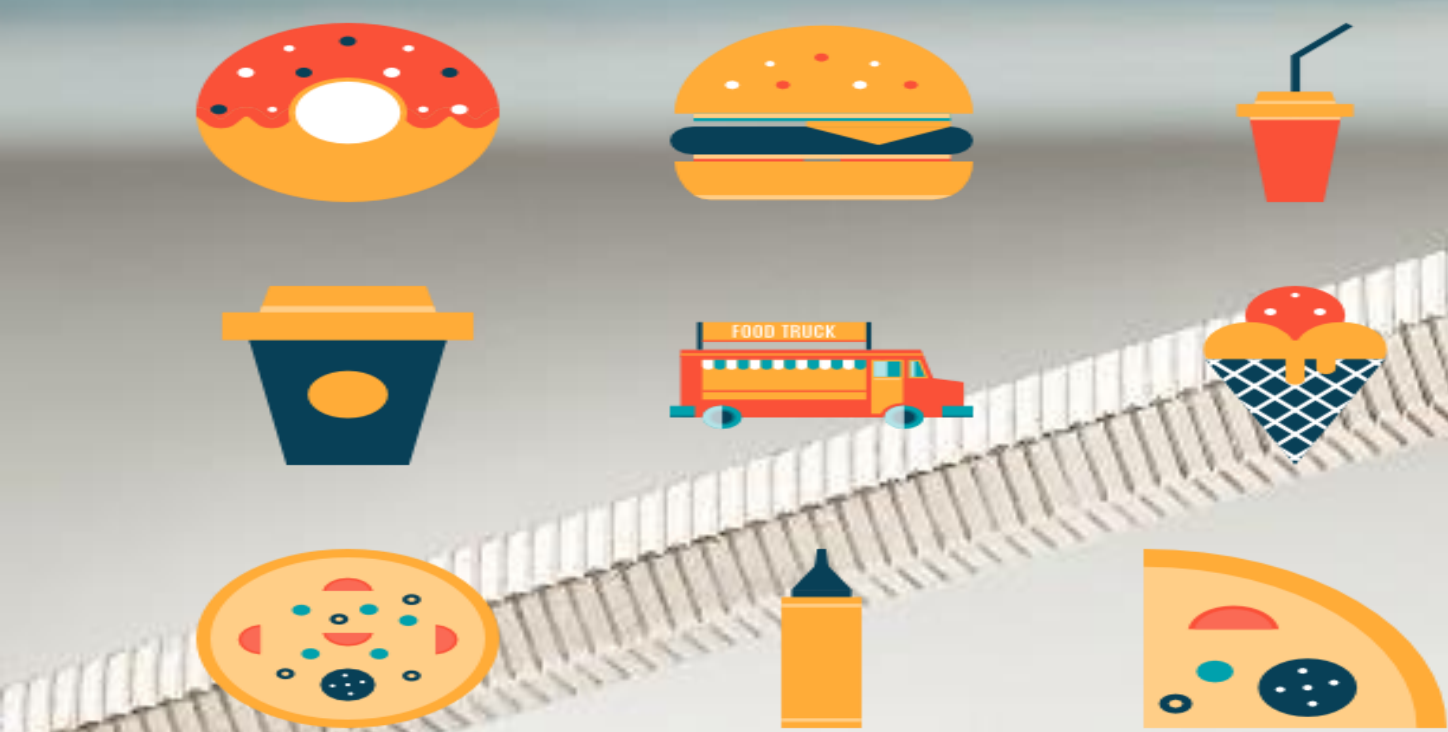


نوع الوجبة	الوجبة	الساعة	اليوم
فطور	شاهي "ملعقة سكر" / سندوتش جبنة + زيتون + طماطم كوب كبير ماء	8:30 a.m	الأحد
	تفاحة / كوب ماء.	11:12a.m	
غداء	مكرونه / سلطة / قطعة دجاج / كوب عصير برتقال.	02:0p.m	
	كوبين ماء	3:30p.m	
	كوب ماء.	05:00p.m	
عشاء	فنجال قهوة "بدون سكر" / قطعتين مقروض. شرمولة / تونة / بيض مقلي كوبين ماء.	09:30p.m	



نوع الوجبة	الوجبة	الساعة	اليوم
فطور	شاهي / توست بالمربي / كوب ماء	7:45 a.m	الاثنين
	سندوتش طعمية + طماطم / كوبين ماء	12:00 p.m	
غداء	كوب ماء	12:30p.m	
	كسكسو بالخضروات / قطعة لحم / فلفل محشي / سلطة	2:30 p.m	
	شاهي اخضر	3:30 p.m	
	كوب ماء	4:30 p.m	
عشاء	فنجال قهوة / قطعة كيك كوبين ماء	7:45 p.m	
	شاهي / كعك / مكسرات / كوب ماء كوب ماء	10:00 p.m	
	سلطة فواكه / كوبين ماء		

The diet sheet was discussed with the patient, supporting their good habits & explaining the effect of the bad ones on their oral health and how to decrease and stop that effects.



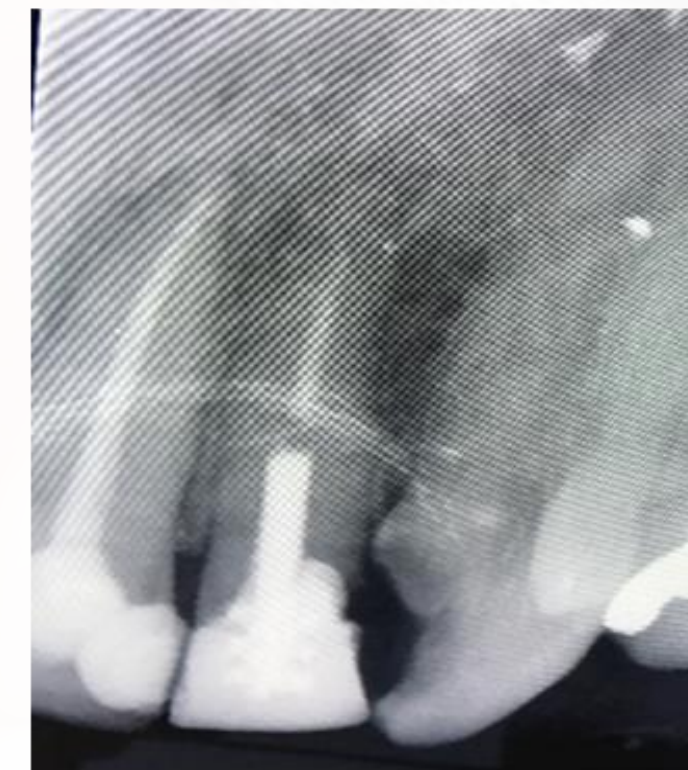
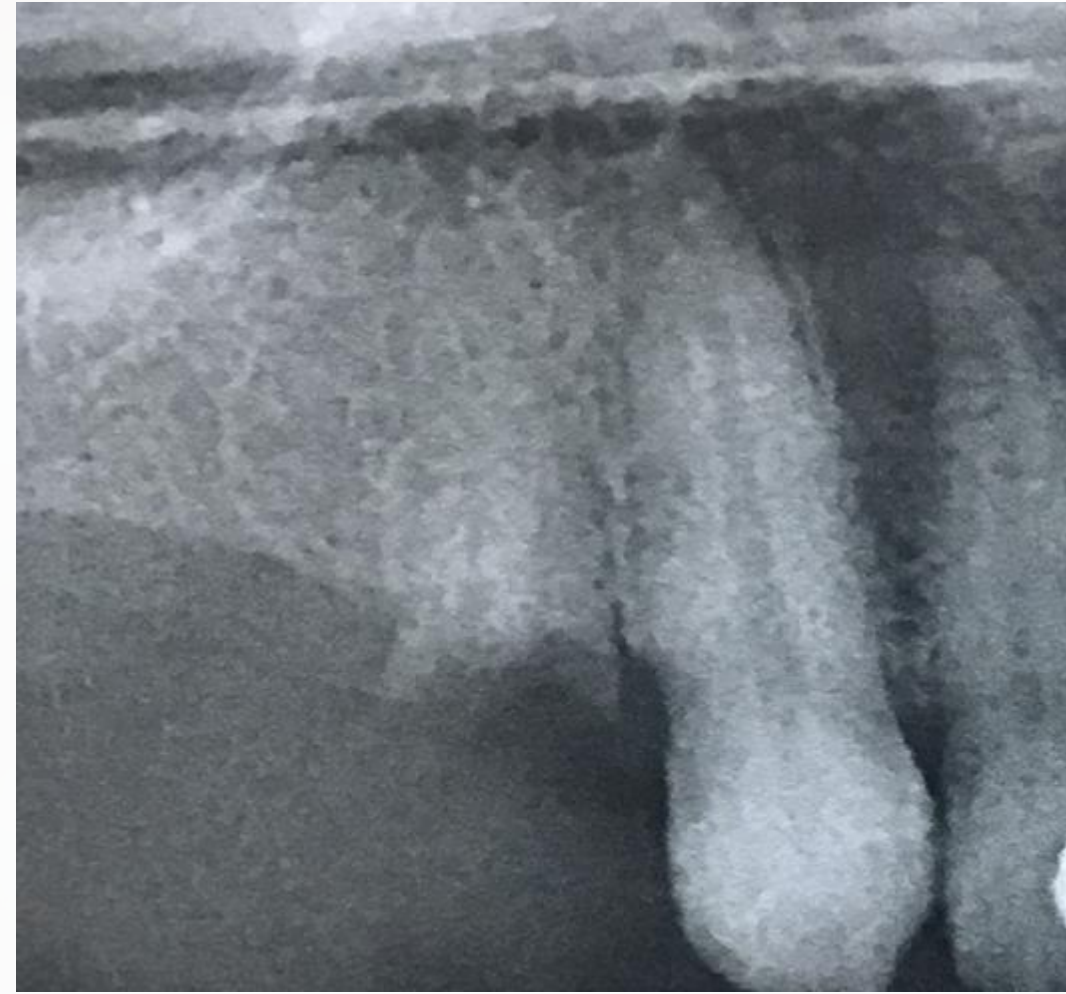
Diet sheet analysis

نوع الوجبة	الوجبة	الساعة	اليوم
فطور	شاهي / سندوتش جبنة / كعك كوب ماء	9:30 a.m	الثلاثاء
	تفاحة / كوب ماء	12:00 p.m	
غداء	أرز / شربة عدس / قطعة دجاج / سلطة / عصير برتقال	2:30 p.m	
	كوبين ماء	5:00 p.m	
	فنجال قهوة / قطعة كيك	7:00 p.m	
عشاء	كوب ماء	9:00 p.m	
	كوب ماء		
	تمر / علبة زبادي / كوبين ماء		

Phase I Therapy
Excavation of caries of (11)



Phase II Surgical Phase: Extraction of non restorable teeth (14,22,35)

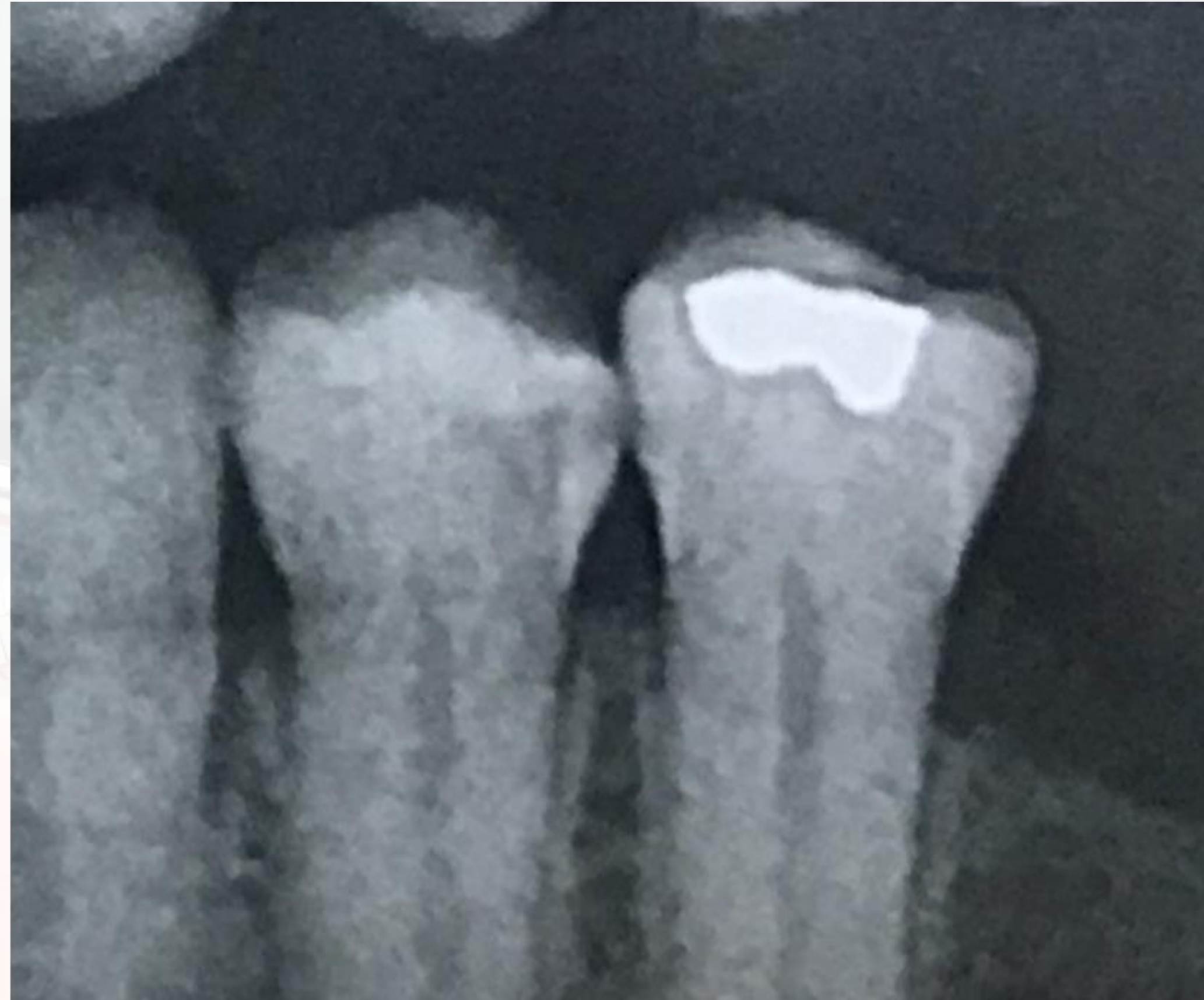


Phase III



Phase III

Final class II Composite restoration for (34,35)



Phase III



Diagnostic cast (with wax up)
mounted on an articulator
Obtained from primary
impression

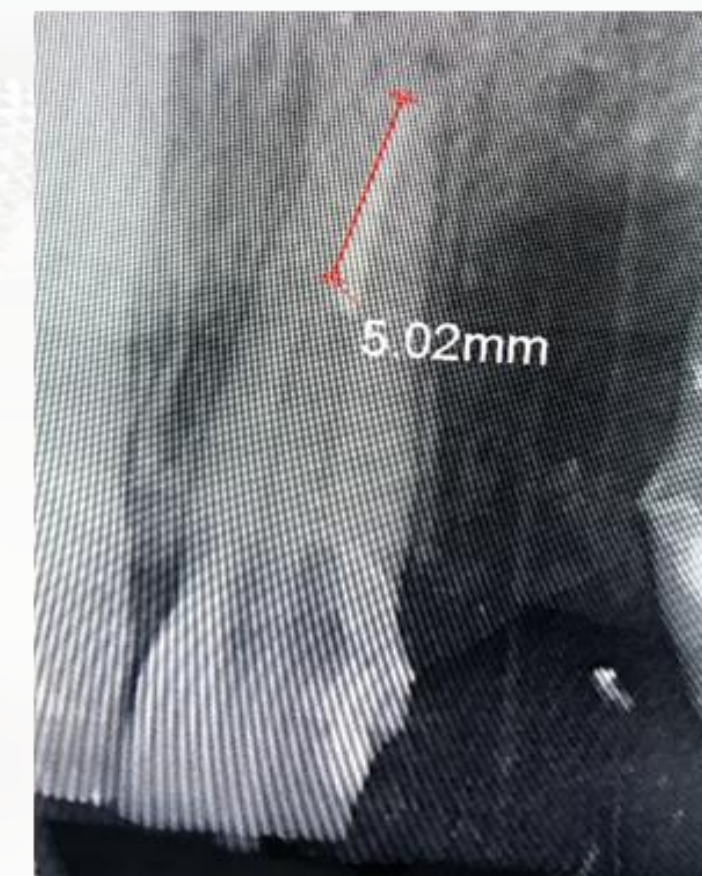


Phase III



Phase III

Restoration of 21 tooth with prefabricated fiber post & composite core



Phase III



Putty index on
diagnostic wax up for the
purpose of fabrication of
provisional restoration

Phase III



Phase III



Restoration of 23 tooth with
prefabricated fiber post and core

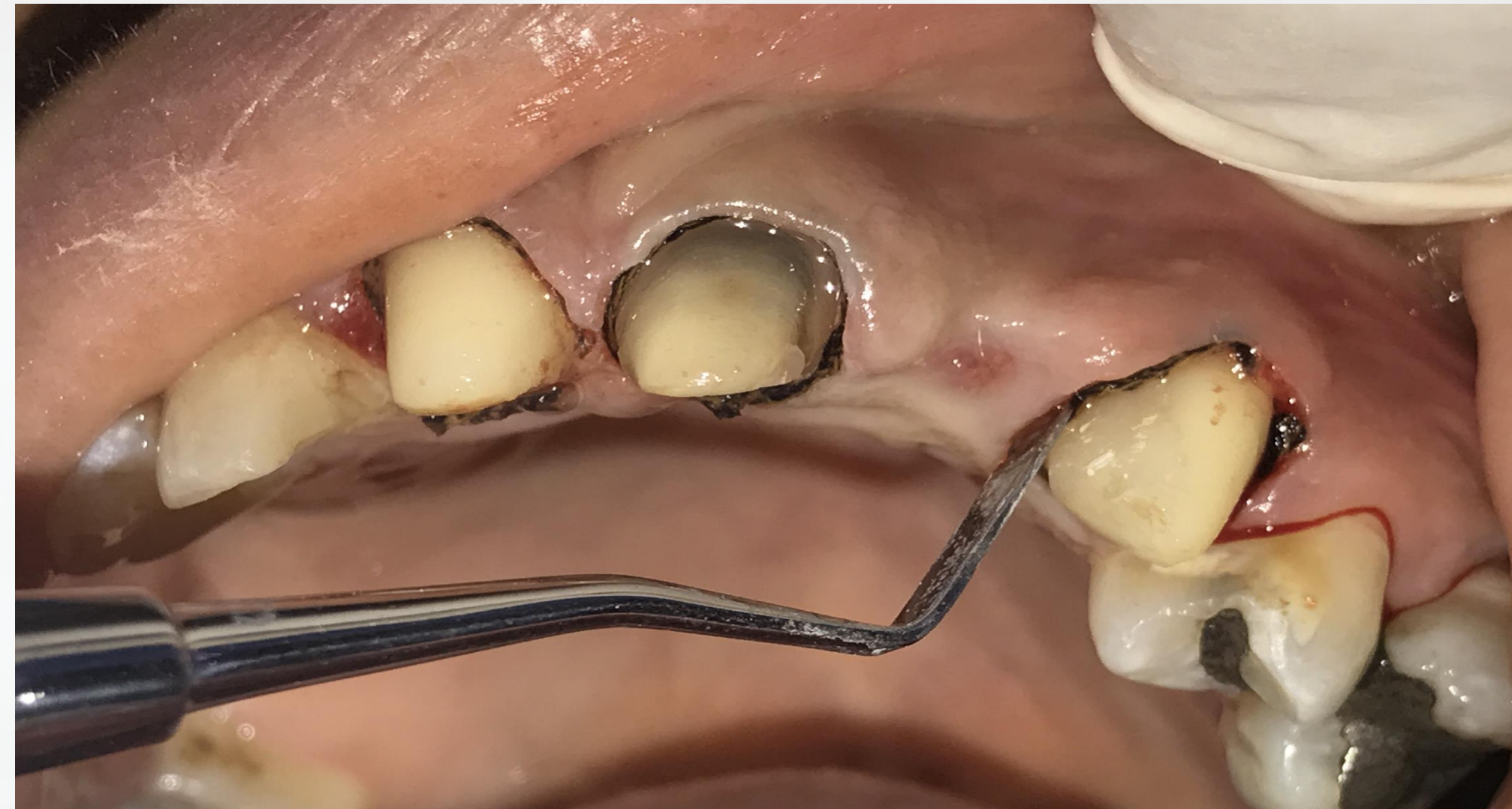
Phase III

Fabrication of provisional restoration (11,21,22,23)



Phase III

Application of retraction cords
around abutment teeth



Phase III



Metal Try in To check:

- ✓ Complete Seating
- ✓ Marginal Integrity
- ✓ Stability

Phase III



Metal Try in
To check:

Occlusion

Followed by Shade Selection



Phase III

Insertion

Trial cementation of the permanent restorations for one week



Phase III

Insertion

Final cementation of the permanent restorations with adhesive resin cement

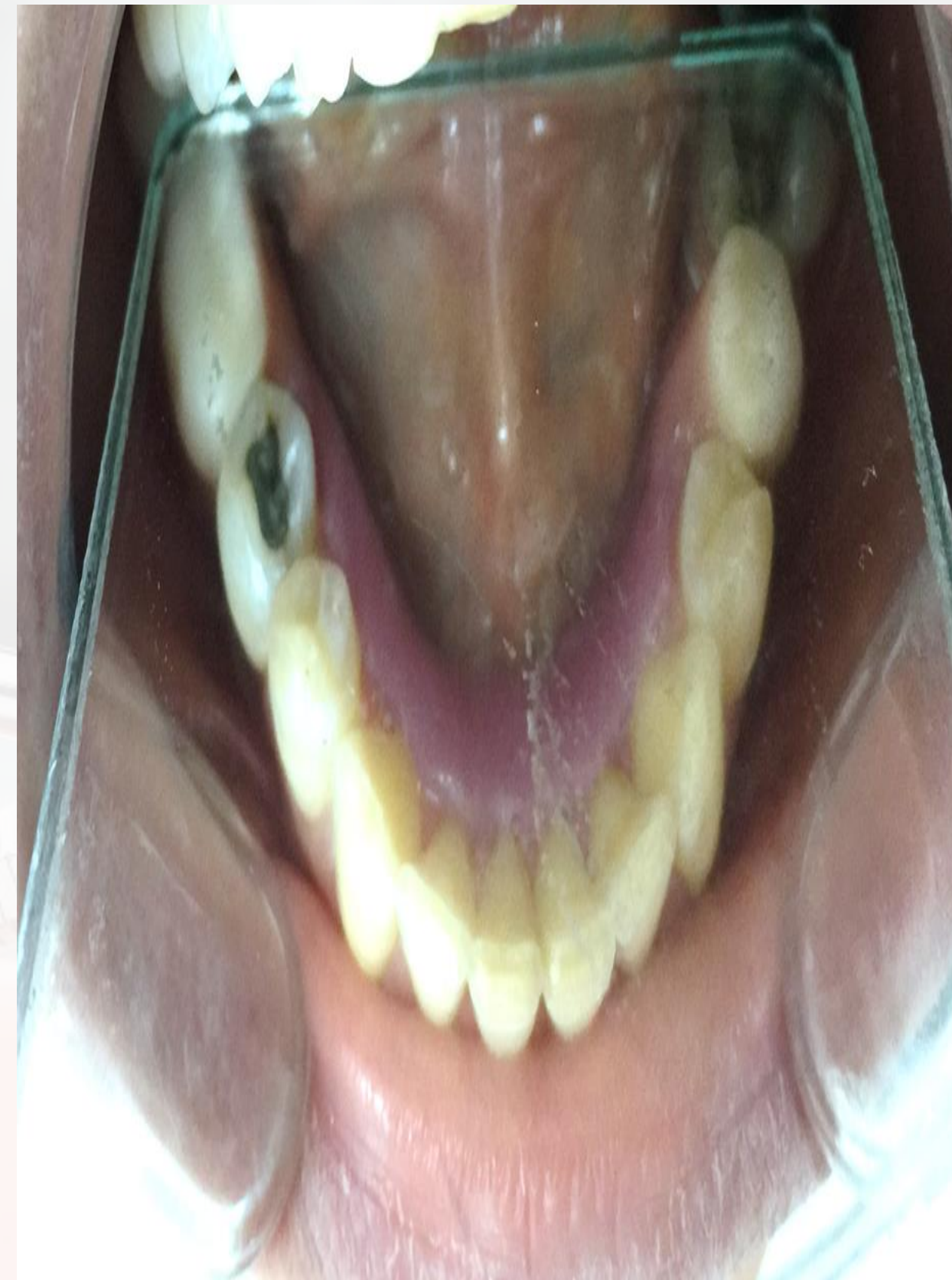


Phase III

RPD

Replacement of the other
missed teeth with upper
Kennedy's class III RPD

And lower Kennedy's
class II modification 1
RPD



Phase III

RPD
Replacement of
(16,15,14,37, 36,45)
missed teeth with
RPD



Before



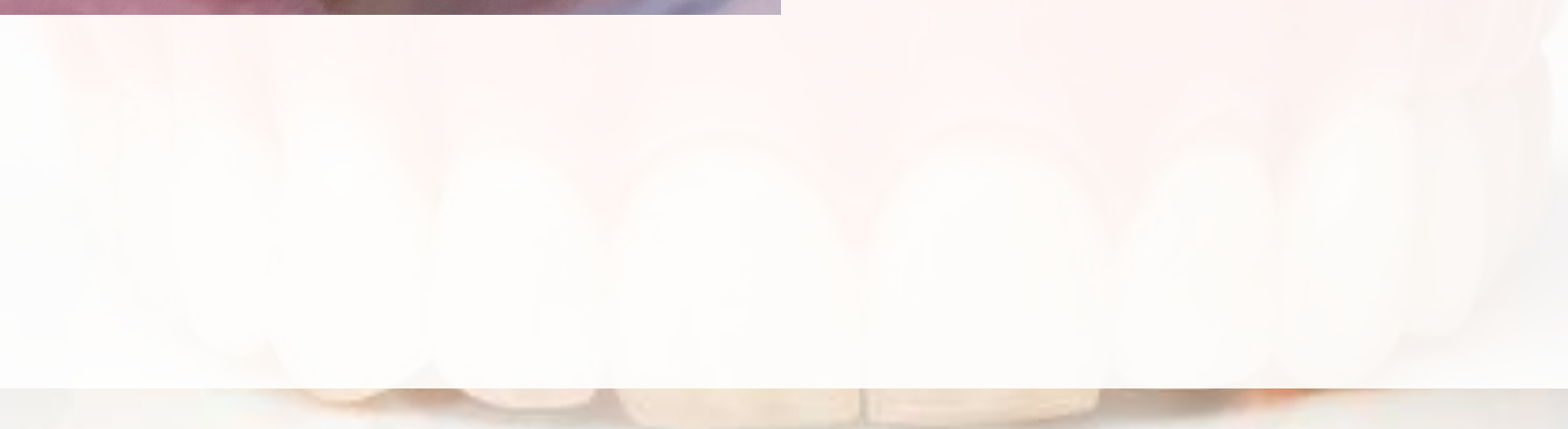
After



Pre operative photo



Post operative photos



Thank
You

