



Faculty of Dentistry

Comprehensive Case Presentation

Presented by:

Alla Abdallah Elswedik 878

Under Supervision of:

- Dr. Rafik Alkowafi.
- Dr. Abdelmonem Abdelnabi
- Dr. Omar Alhuni.
- Dr. Khadiga Elfallah.
- Dr. Masoud Deihoum.
- Dr. Amal Elawami.
- Dr. Ali Bosnina.
- Dr. Sara Elkilani
- Dr. Hashem Alobidi
- Dr. Nuha Elkadiki.

Personal Data

Patient's name: A.H.A

Date of birth: 9/10/1994

Gender: Male

Occupation: Engineer student

Address: Al-Gwarsha

Nationality: Libyan

Chief Complaint

Patient complains of pain in his lower left backward side of the mouth started two months ago.

History of Chief Complain

Moderate well localized electric shock like pain related to the lower left backward teeth, initiated only by biting on it ,lasts for few minutes, relieved by removal of stimulus, no sleeping disturbance, no associated signs and symptoms, non radiating nature ,no previous treatment attempts.

Medical History

- Free of any chronic illness.
- Systemic review : No abnormality detected.

Drug History

No medications are taken currently.

Allergic History

No allergic history.

Dental History

- Symptomatic patient.
- Last visit : one year ago.
- No abnormal, destructive habits.
- History of :
- Extraction with no complications
- Restorations
- ✓ RCT

Family History

Diabetes from father's side.

Social History

- Single.
- Student.
- Patient is smoker since (8 years) (2 packs/day)
- No alcohol consumption.
- No drug abuse.

General Examinations

- Asthenic body built.
- Normal gait, posture, mental status, and speech.

Clinical Examinations

Extra Oral

- ✓ Face symmetry : symmetrical.
- ✓ Skin: Normal color, no scars.
- ✓ TMJ : Average mouth opening, No tenderness, clicking, deviation or dislocation detected.
- ✓ Lymph nodes : Not palpable.
- ✓ Lips : competent.
- ✓ Dental relation to facial mid line : coinciding.
- ✓ Face form : Ovoid.
- ✓ Facial profile : Straight.

Clinical Examinations.

- Intra Oral
- ✓ Severe halitosis.
- ✓ Oral mucosa: gingiva is pigmented, Leukodema on the buccal mucosa bilaterally.
- ✓ Tongue and palate : Hairy tongue, no abnormality detected in relation to palate.

Clinical Examinations Co.

OHI-S = 2.5 + 1.6 = 4.1

Oral hygiene index :

Patient has poor oral hygiene.

✓ Plaque

16	11	26
3	2	3
3	1	3
46	31	36

$$P.I = 15/6 = 2.5.$$

√ Calculus

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

$$C.I = 10/6 = 1.6$$





Gingival status

Frenal attachment: Normal.

Fermitus test: -ve.

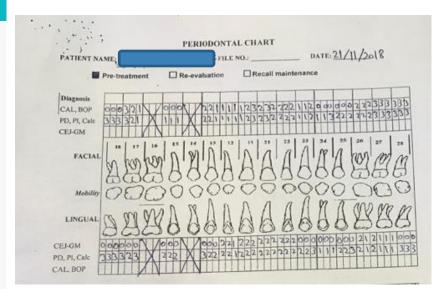
attached gingiva : Adequate.

	Mand. Rt Posteriors	Mand. Anteriors	Mand. Lt Posteriors
Colour	Bluish red	Bluish red	Bluish red
Contour	Rolled margins with blunt IDP	Rolled margins with blunt IDP	Rolled margins with blunt IDP
Size	No enlargement	Slight enlargement	No enlargement
Consistency	Soft and edematous	Soft and edematous	Soft and edematous
Stippling	Absent	Absent	Absent
Position	At CEJ	At CEJ	At CEJ
Bleeding on probing	Present	Present	Present
Exudation	Absent	Absent	Absent

	Max. Rt Posteriors	Max. Anteriors	Max. Lt Posteriors
Colour	Bluish red	Bluish red	Bluish red
Contour	Rolled margins with blunt IDP	Rolled margins with blunt IDP	Rolled margins with blunt IDP
Size	No enlargement	Slight enlargement	No enlargement
Consistency	Soft and edematous	Soft and edematous	Soft and edematous
Stippling	Absent	Absent	Absent
Position	At CEJ	At CEJ	At CEJ
Bleeding on probing	Present	Present	Present
Exudation	Absent	Absent	Absent

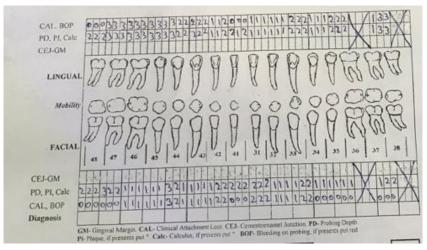


Periodontal status



Upper arch

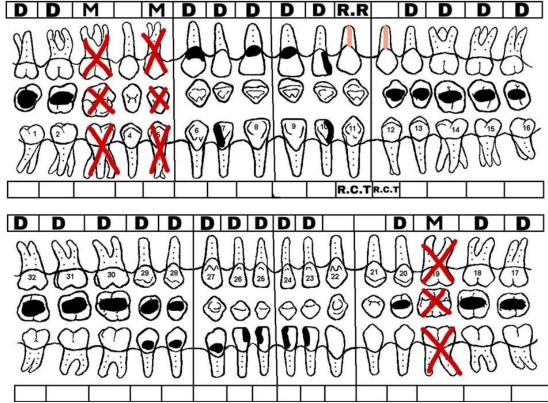
- Diagnosis:
- ✓ Generalized mild chronic periodontitis.
- Overall prognosis :
- ✓ Good.



Lower arch



Hard Tissue Examinations



Tenderness to palpation (23)
Tenderness to percussion (38 – 25 – 24 – 23 – 46)

Pre-operative Photographs











Differential Diagnosis

- ✓ Chronic periapical periodontitis.
- ✓ Chronic periapical abscess.
- ✓ Periapical granuloma.

Investigations

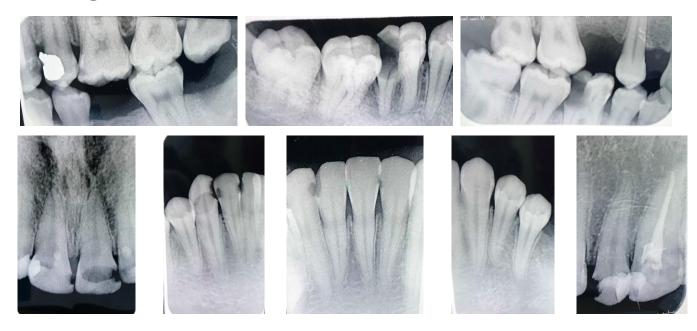
- ✓ IOPA
- ✓ Bitewing
- ✓ Orthopantomogram (OPG)

Orthopantomogram



- Orthopanthomogram showing upper and lower jaws.
- Mild bone loss.
- Teeth present (18-17-15-13-12-11-21-22-23-24-25-26-27-28-38-37-35-34-33-32-31-41-42-43-44-45-46-47-48)
- Missing teeth (16-14-36)
- Filled teeth (12-23-24)

- IOPA
- Bitewing



Final Diagnosis

- ✓ Chronic periapical periodontitis. (38)
- ✓ Generalized mild chronic periodontitis.
- ✓ Dental caries

(18-17-13-12-11-21-22-23-24-25-26-27-28-38-37-35-31-32-41-42-43-44-45-46-47-48)



- Emergency Phase
- Extraction (38)
- Phase I Therapy
- Patient motivation and education toward the importance of plaque control.
- ✓ Diet control.
- ✓ Supra and subgingival scalling
- Re-evaluation of Phase I Therapy



- Phase II Therapy
- Extraction (18-28-48-46)
- ✓ Gingivoplasty.
- ✓ Gingival depigmentation (anterior upper and lower)
- ✓ Crown lengthening (23-24)
- ✓ Site preparation. (46)
- ✓ Apicectomy. (24)



- Phase III Therapy/ Restorative Phase
- ✓ RCT (12-11-21-22-25)
- ✓ Retreatment (23-24)
- ✓ Composite restoration

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(37-42-43-44-45-41-42-31-32-35-47-27-26)
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✓ Post, core and crown

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(12-11-21-22-23-24-25)
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✓ Replacement of missing teeth "Bridge" (16-46-36)



- Phase IV Therapy/ Maintenance & Recall
- ✓ Periodic checking 1st after 3 months, then after every 6 months if maintenance achieved.



Extraction of (38)

Chief Complain









Diet Sheet Analysis

نوع الوجبة	المأكولات و المشروبات	الساعة	اليوم
فطور	قهوة	7:30	الخميس
	مياه	8:25	
	سندوتش تن + دحي + مشروب غازي	9:30	
غداء	أرز + دجاج + عصير طبيعي	2:15	
	قهوة	5:00	
	قهوة + مياه	8:10	
عشاء	سندوتش برجر + مشروب غازي	9:20	
	میاه	10:15	
	سندوتش شيش + بطاطا + مشروب غازي	11:45	

√ 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 effect.

نوع الوجبة	الماكولات و المشروبات	الساعة	اليوم
فطور	قهوة + مياه	10:00	الجمعة
غداء	كسكسي + عصير ليمون طبيعي	2:00	
	قهوة	4:45	
	قهوة	7:30	
	میاه	8:00	
عشاء	طبق بيتزا + مشروب غازي + بطاطا	9:40	
	قهوة	10:30	
	سندوتش برجر + مشروب غازي + مياه	11:30	



نوع الوجبة	المأكولات و المشروبات	الساعة	اليوم
فطور	قهوة	9:00	السبت
غداء	برجر + مشروب غازي	1:00	
	عصير طبيعي	3:15	
	قهوة	5:00	
	مشُروب غازي	6:30	
	میاه	8:30	
عشاء	طبق بيتزا + مشروب غازي + بطاطا	9:00	
	قهوة	11:00	
	عصّير طبيعي	12:30	
	مباه	1:00	



Scalling







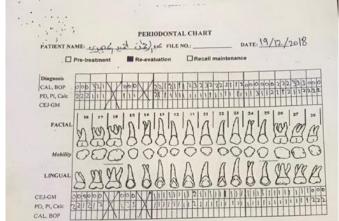


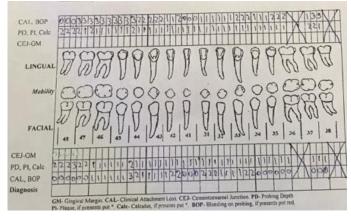


Re-evaluation of Phase I Therapy

- ✓ Patient showed significant improvement of oral hygiene.
- ✓ Improved gingival status.
- ✓ Less bleeding upon probing.
- ✓ Generalized probing depth reduction.

Upper arch





Lower arch

Re-evaluation of Phase I Therapy Co.











Surgical Phase

- Extraction (18-28-48-46)
- ✓ Gingivoplasty.
- ✓ Gingival depigmentation (anterior upper and lower)
- ✓ Crown lengthening (23-24)
- ✓ Site preparation. (46)







Phase II Therapy Surgical Phase







Before After





Follow up after one week



Phase II Therapy Surgical Phase





Phase II Therapy Surgical Phase

Gingivoplasty & Gingival Depigmentation.







Gingivoplasty & Gingival Depigmentation.









Pre-Operative Photograph



















PerioPack

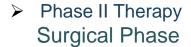




Post-Operative Photograph









(18/28/46/48)





✓ Intentions to treat the tooth endodontically was failed due to extensive carious lesion that was not clearly seen in a 2D x-ray.

















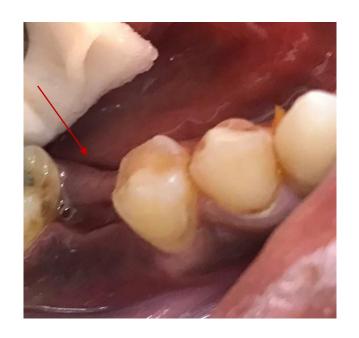








Site Preparation (46)





Restorative Phase

- Root Canal Treatment
- ✓ RCT (12-11-21-22-25)
- ✓ Retreatment (23-24)
- ✓ Management of broken file "Apicectomy" (24)

Root Canal Treatment (11)(12)

Pre-operative Photograph





Root Canal Treatment Co. (11)(12)

Access Cavity Preparation







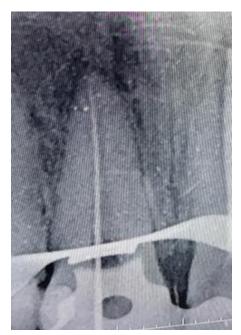


Root Canal Treatment Co. (11)(12)

Pulp Extirpation and working length estimation (26 mm)









Root Canal Treatment Co. (11)(12)

Master Cone



Obturation



Master Cone



Obturation





Root Canal Treatment Co. (22)













Root Canal Treatment Co. (22)





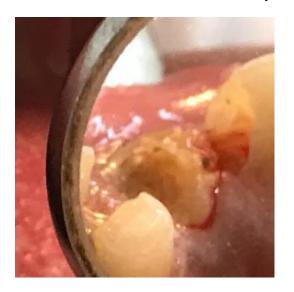






Root Canal Treatment Co. Retreatment (23)

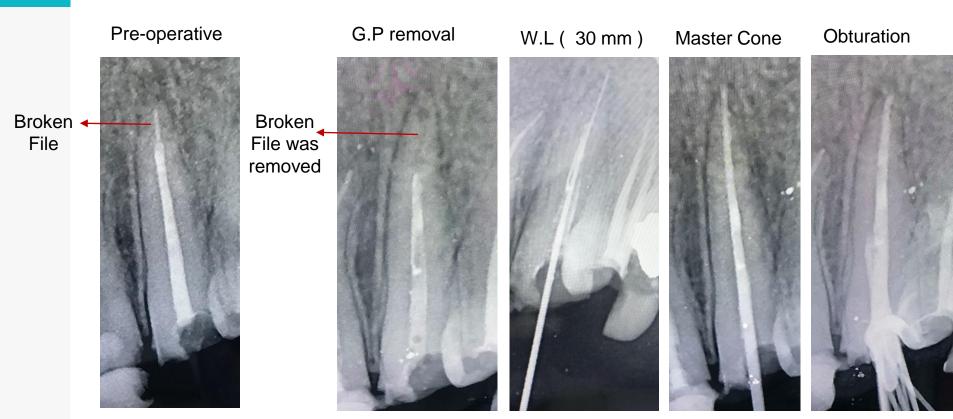
Pre-operative Photograph







Root Canal Treatment Co. Retreatment (23)







Root Canal Treatment Co. Retreatment (24)

Pre-operative Photograph and **Access Cavity Preparation**







Root Canal Treatment Co. Retreatment (24)

Pre-operative







A broken file was found near the apical part of the canal of the buccal root.



Phase III Therapy Restorative Phase

Root Canal Treatment Co. Retreatment (24)

Bypass



W.L (P 21 mm) (B 22 mm)



Master Cone



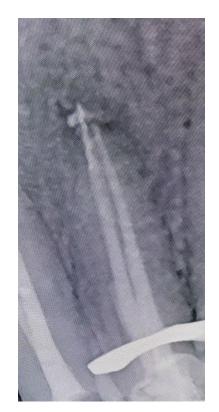
Obturation





Root Canal Treatment Co. Retreatment (24)

- Patient returned with pain related to the previously treated upper left first premolar.
 - ✓ X-ray showed that the file was pushed beyond the apex.







Root Canal Treatment Co. Retreatment (24)

- ✓ A second retreatment was started in the buccal canal.
- ✓ An apicectomy was performed to remove the broken file.









Management of Broken File

Apicectomy (24)

Semilunar flap was used

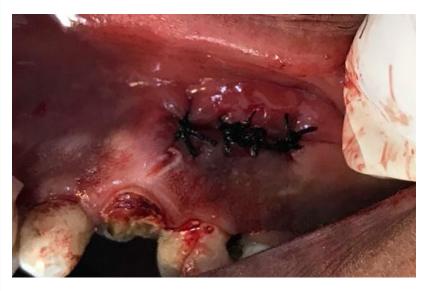






Management of Broken File

Apicectomy (24)





- ✓ A post operative radiograph was taken.
- ✓ No retrograde filling was needed



Root Canal Treatment Co. (12)

Pre-operative Photograph







Root Canal Treatment Co. (12)









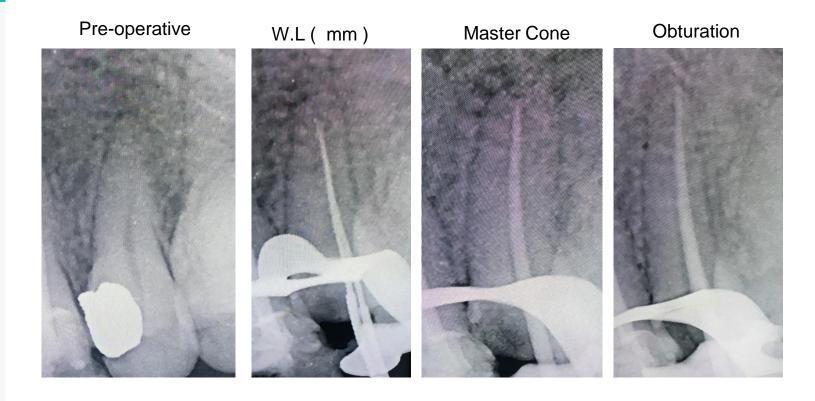
Root Canal Treatment Co. (25)

Pre-operative Photograph





Root Canal Treatment Co. (25)



Restorative Phase

- Prosthetic reconstruction of decayed teeth :
- ✓ Composite restoration (37-42-43-44-45-41-42-31-32-35-47-27-26)



Composite Restoration (37)

- ✓ Class I + Buccal pit.
- ✓ Shade: A2

Pre-operative



Caries Excavation





Post-operative







Composite Restoration (42)(43)

- ✓ Class III + V.
- √ Shade: A2/ A3

Pre-operative



Caries Excavation





Composite Restoration (42)(43)

Acid Etching





Bonding







Composite Restoration (42)(43)

Post-Operative





- ✓ Class I + V.
- ✓ Shade : A2 Pre-Operative





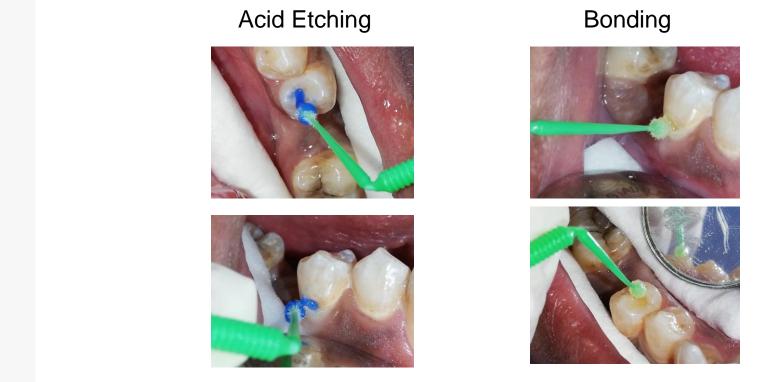


Caries Removal











Post-Operative







- ✓ Class II
- ✓ Shade: A2

Pre-Operative







Caries Removal







Acid Etching



Bonding





Post-Operative







- ✓ Class I
- ✓ Shade: A2

Pre-Operative



Caries Removal







Acid Etching



Bonding

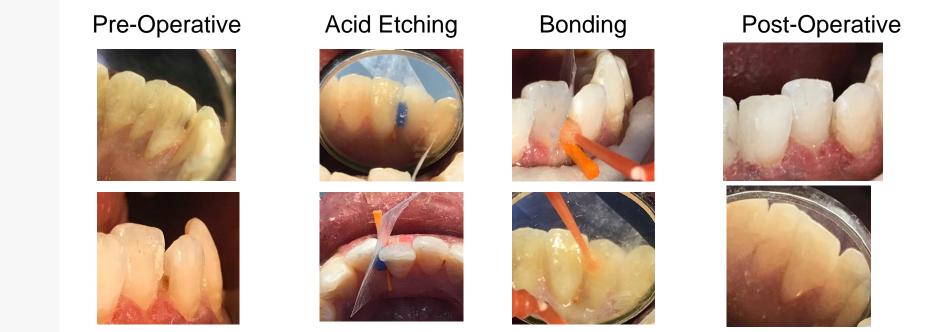


Post-Operative





- ✓ Class III.
- ✓ Shade: A2





Composite Restoration (41 - 42)

- ✓ Class III.
- ✓ Shade: A2

Pre-Operative



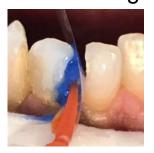
Caries Removal





Composite Restoration (41 – 42)

Acid Etching





Bonding





Post-Operative







- ✓ Class V.
- ✓ Shade: A3

Caries Removal



Acid Etching



Bonding



Post-Operative





- ✓ Class V.
- ✓ Shade: A3





- ✓ Class II.
- ✓ Shade: A2

Pre-Operative





Caries Removal

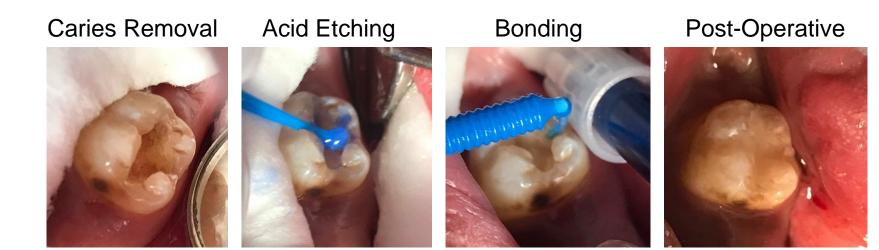


Post-Operative





- ✓ Class I.
- ✓ Shade: A2



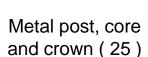
Restorative Phase

Prosthetic reconstruction of decayed teeth



Custom made post and core, and crown (12 - 23 - 24)

Fiber post, core and crown (11 - 21 - 22)







Pre-Operative Photographs















Canal Preparation (12)







Temporary crown (12)









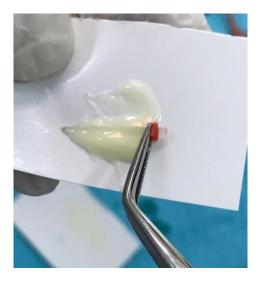










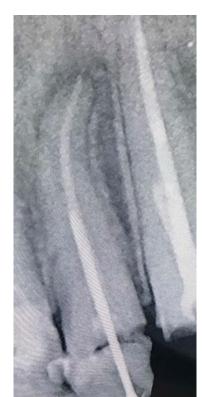
























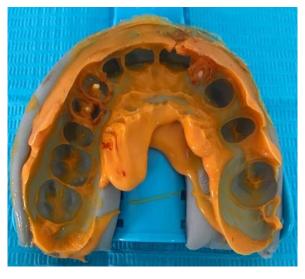


Bite Registration









Final Impression

























✓ Gingival margin was found uneven, gingivoplasty was done, and the final impression was postponed after healing.













Bite Registration



Final Impression





Metal Try-in "7 units"



















Required a remake.





A Second Final Impression







Second Metal Try-in "7 units"











✓ Selected shade : A2





















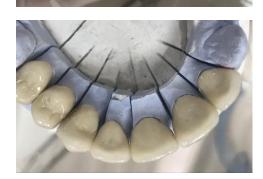




Short margin





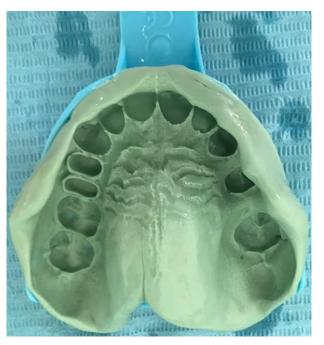


Insertion





Final Impression for 24 - 25







Metal Try-in for 24 - 25









Try-in for 24 - 25









Insertion 24 - 25



Post-operative Photographs





















After











After







After











After

Thankyou