

☐ Clinical Examination:

1.General appraisal:

Normal body built, gait, posture, mental status, and speech

- 2. Extra-oral Examination:
- ✓ 1-Face symmetry: symmetrical.
- ✓ 2.Skin: Normal color, no scars.
- ✓ 3.TMJ: Average mouth opening, No tenderness, No clicking, deviation or dislocation detected.
- ✓ 4.Lymph nodes: Not palpable.
- ✓ 5.Lips: competent, mid lip line.
- ✓ 6.Dental relation to facial mid line: coinciding.
- ✓ 7. Face form : Ovoid.
- ✓ 8. Facial profile:

3. Intra-oral Examination

Soft Tissue :

Halitosis: Absent

Oral mucosa: Normal

Palate: Normal

Tongue: Normal

> Hard Tissue:

Wasting Diseases of teeth: Present (Attrition)

Crowding: Present

Recession: Absent

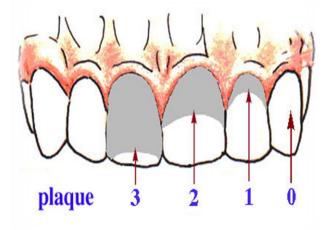
Loss of Proximal Contact: Present

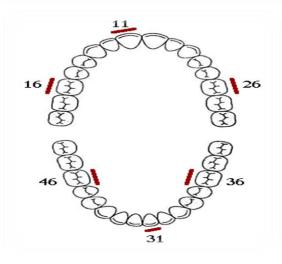
Furcation Involvement: Absent



Oral Hygiene Index -Simplified:

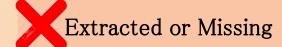
16	11	26
2	1	1
2	2	2
46	31	36





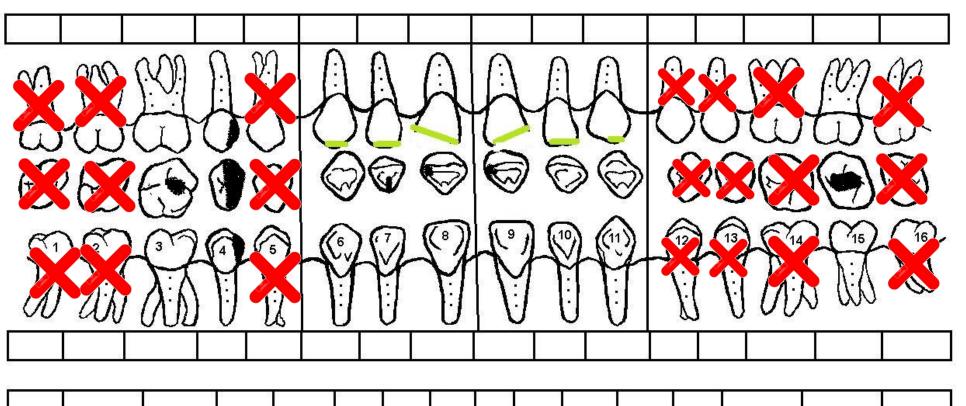
16	11	26	
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46	31	36	

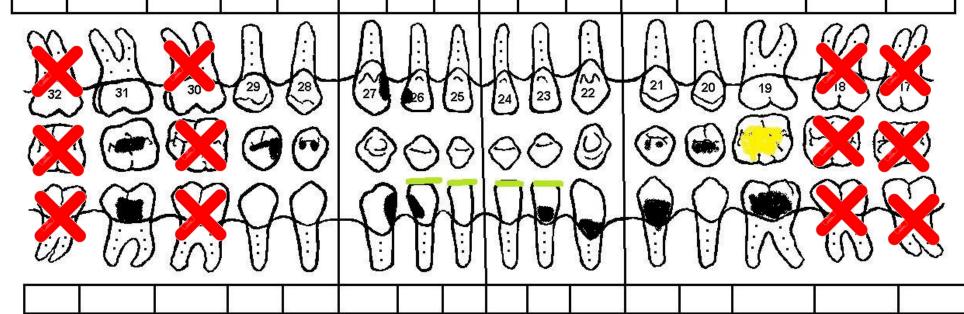
OHI = fair (2.5)



- Restoration
- Caries
 - Tooth substance loss

DMF index = 23





Gingival Status

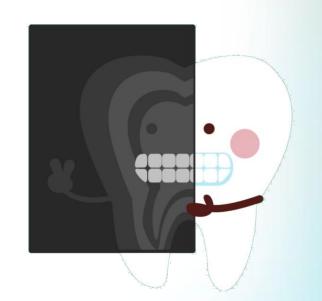
- •Gingiva:
- ✓ Reddish pink.
- ✓ Round margins with blunt IDP.
- ✓ soft and edematous.
- ✓ No enlargement.
- ✓ bleeding on probing is present.(all quadrants)
- ✓ no exudation.
- ✓ Stippling is absent.
- Frenal attachment: Normal.
- Fermitus test: -ve.
- attached gingiva : Adequate.

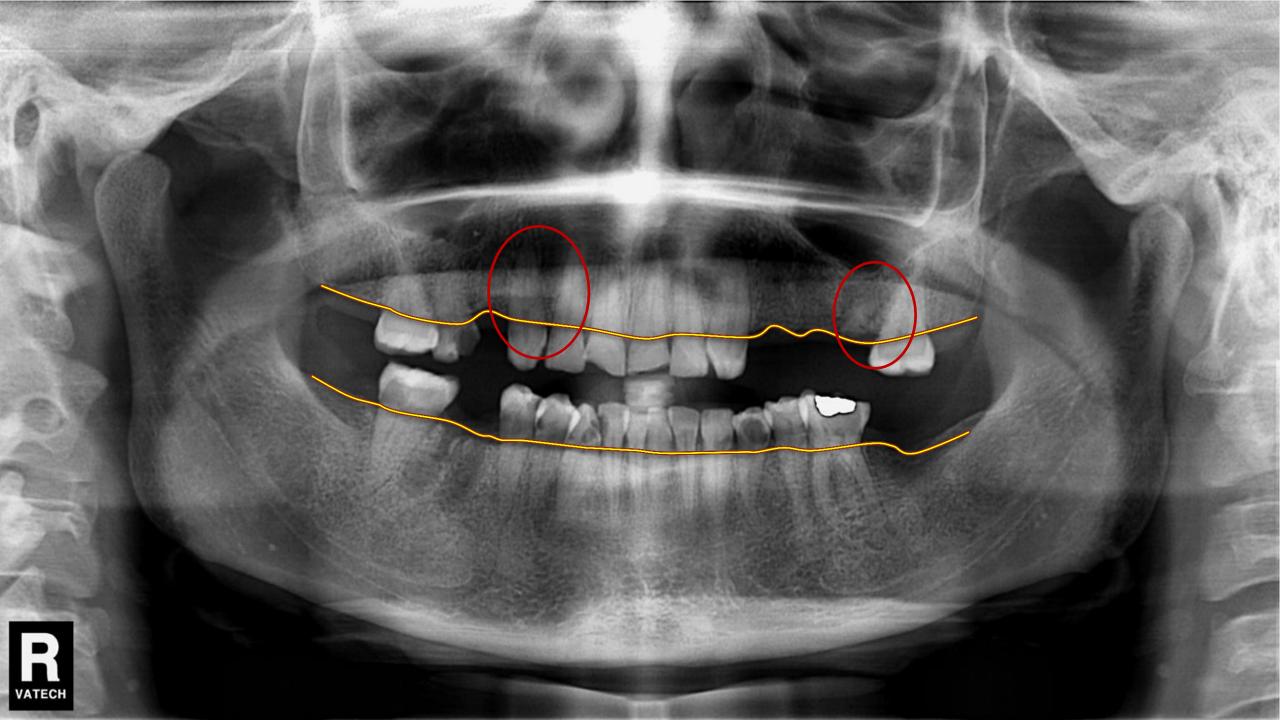
Periodontal Status

- •LOA: 2-3 mm
- Diagnosis:
- Generalized mild to moderate chronic periodontitis
- Overall prognosis:
- Fair.

Investigations:

- 1. OPG (Orthopantomography)
- 2. Vitality test (Electrical) (11) (21)
- 3. IOPA (Intra-oral Peri-apical Radiograph (11) (21) (15)



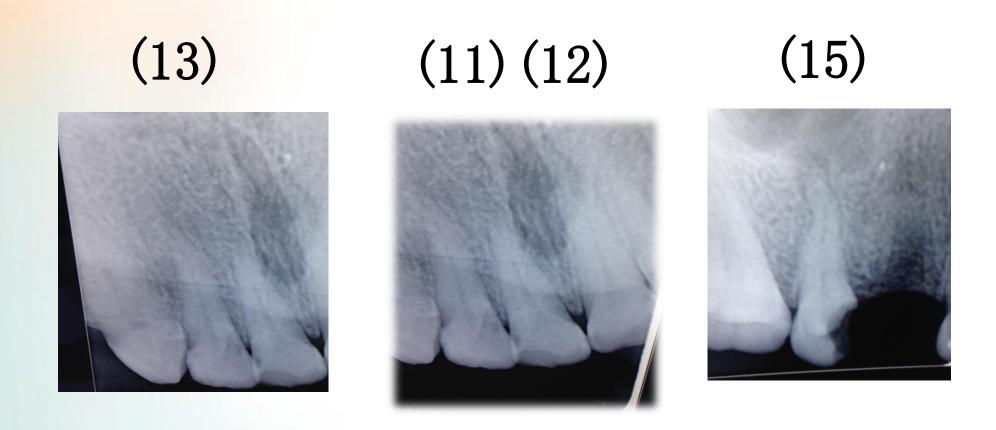


Panoramic radiograph

Panoramic view Showing:

- 1. Maxillary and mandibular teeth with generalized mild to moderate bone loss
- 2. Partially edentulous jaws / Multiple missed teeth (18) (17) (14) (24) (25) (26) (28) (38) (37) (46) (48)
- 3. Radiolucency related to crowns of (15) (34) (42) (43) (45) indicating carious lesions
- 4. Radiopacity related to (26) indicating remaining root
- 5. Radiopacity related to crown of (36) indicating restoration

IOPA Radiograph:





Final Diagnosis:

- 1. Generalized mild to moderate chronic periodontitis
- 2. Dental caries (16) (11) (12) (21) (13) (27) (36) (35) (34) (32) (42) (43) (44) (45) (47)
- 3. Fractured teeth (11) (21)
- 4. Badly destructed tooth structure due to caries (15)
- 5. Multiple missing teeth (18) (17) (14) (24) (25) (26) (28) (38) (37) (46) (48)

Phase IV Phase Phase



PLAN

Phase IV Phase III Phase III

3

5

Phase I / non - surgical / etiotropic

Patient education and motivation toward the importance of oral hygiene and plaque control

2 Oral hygiene instructions

Supra and sub gingival scaling and root planning

4 Active caries control

Diet control

Re-evaluation of phase I!

PHASE II / SURGICAL PHASE

Phase III
Phase III

1 Gingivectomy

2 Extraction of remaining root

PHASE III / RESTORATIVE PHASE

- Final restoration (16) (13) (27) (36) (35) (34) (32) (42) (43) (44) (45) (47)
- Root canal treatment (15) (45)
- Fixed prosthetic reconstruction of severely destructed tooth (15)
 - Replacement of the missed teeth with upper Kennedy's class III modification 1 Removable Partial Denture And lower Kennedy's class II modification 1 RPD

PHASE IV / MAINTANANCE AND RECALL

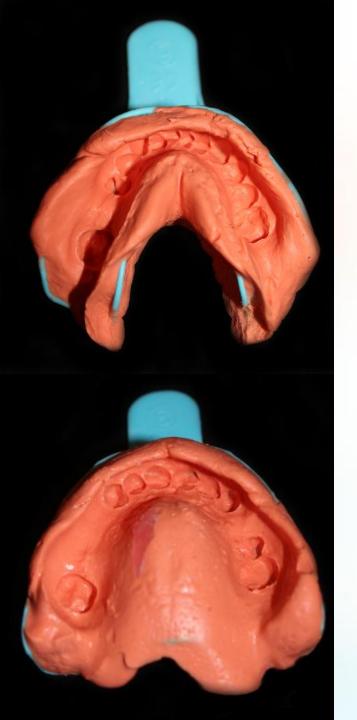
Periodic recall and rechecking every 3 months for the 1st year, then after every 6 months



Pretreatment phase:

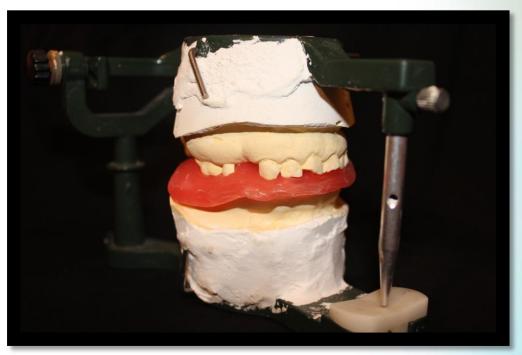
- 1. Specialized radiographs: Not needed
- 2. Medical/physician consultations: Not needed
- 3. Study models:





- 1. Primary impression was taken using Alginate impression material.
- 2. Diagnostic cast obtained from primary impression mounted on an articulator, using inter-occlusal wax record





Phase I therapy

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Scaling and root planning

Oral hygiene instructions





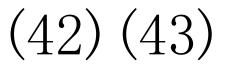


Phase I therapy Caries Control Procedure









1- Caries excavation

2- Indirect pulp capping

(calcium hydroxide)

3- Temporary restoration placement (Glass ionomer)





Phase I therapy Caries Control Procedure



(32) (33) (34)

- 1. Excavation of caries
- 2. Glass Ionomer restoration





(36)







- 1. Excavation of caries and old restoration removal
- 2. Glass Ionomer restoration

Phase I therapy Caries Control Procedure





(47)

- 1. Excavation of caries
- 2. Indirect pulp capping using CaOH2 (Dycal)
- 3. Glass Ionomer restoration



Re-Evaluation of response to Phase 1 therapy (After 4 weeks)

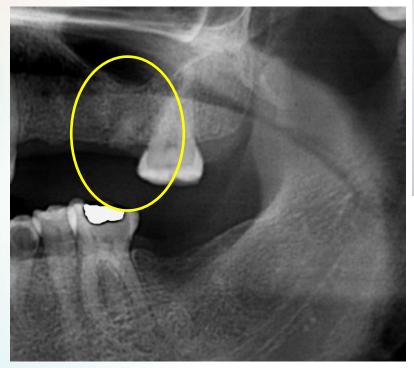
- Patient showed significant improvement of oral hygiene.
- Reduction in pockets depth. And LOA with 1 mm average



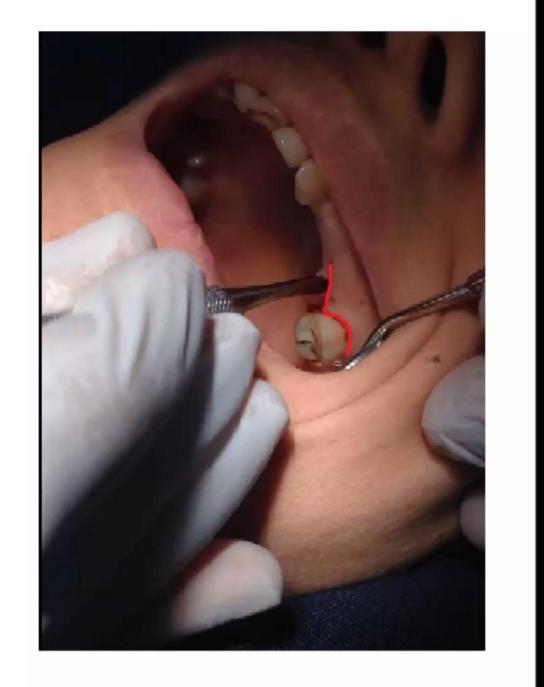




- 1. Examination:
- 2. Radiograph:
- 3. Procedure:







(34)(35)

(34):

- 1. Removal of glass ionomer restoration (Buccally)
- 2. Composite placememnt
- Removal of caries (Occlusally)
- Preventive Resin Restoration (Oclusally)

(35):

- 1. Caries excavation
- Composite restoration placement (Oclusally + cervically)
- Finishing & Polishing
- Occlusion check (using articulating paper)





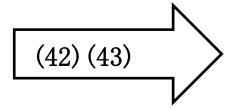




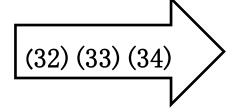
- 1. Glass ionomer restoration removal
- 2. Final restoration placement (composite)

Shade: A1 + A2













(16)
Preventive Resin Restoration





Root Canal Treatment (15)

1. Examination:

Palpation: Not tender

Percussion: Slightly tender to vertical percussion

2. Pre-operative IOPA radiograph:



3. Caries excavation & Access cavity



4. Master cone



5. Post operative radiograph: Obturation





(27)

Procedure:

- 1. Caries excavation
- 2. Indirect pulp capping (Calcium hydroxide placement)
- 3. Glass ionomer
- 4. Final restoration placement (Composite)

Shade: A2

4. Finishing and polishing









(13)

- 1. Caries excavation
- 2. Cavity preparation (Tunnel preparation)
- 3. Composite restoration placement







(47)

- 1. Glass ionomer restoration removal
- 2. Final restoration placement (composite)

Shade: A1 + A2







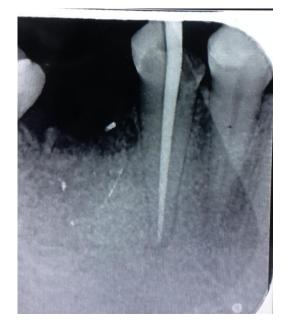


(45)

- 1. Caries removal and access cavity
- 2. RCT (Rotary)
- 3. composite build up









(44)
Preventive resin restoration



Longevity of composite build-ups without posts-10-year results of a practice-based study.

Wierichs RJ^{1,2}, Kramer EJ³, Wolf TG⁴, Naumann M⁵, Meyer-Lueckel H^{3,4}.

Author information

Abstract

METHODOLOGY: Each of seven general dental practitioners placed up to 50 composite build-ups without additional posts in ETT. Teeth were restricted to incisors, canines, and premolars. Several clinical data were recorded for 192 coronal restorations on ETT in 192 patients. Cox proportional hazard models were applied to analyze associations between clinical factors and time until failure.

CONCLUSION: For composite build-ups in ETT without post placement, high success rates could be found after up to 10 years of observation time. Within the limitations of the present study, none of the analyzed factors such as "tooth type" or "number of restored tooth surfaces" was a significant predictor for the failure rate.

CLINICAL RELEVANCE: Endodontically treated teeth can be successfully directly restored with composite build-ups even when no additional post is inserted.



Effect of Fiber Post and Cusp Coverage on Fracture Resistance of Endodontically Treated Maxillary Premolars Directly Restored with Composite Resin

Narmin Mohammadi DDS, MSD *, Mehdi Abed Kahnamoii DDS, MSD *, Parnian Karimi Yeganeh DDS, MSD †, Elmira Jafari Navimipour DDS, MSD * △ ⊠

https://doi.org/10.1016/j.joen.2009.07.010

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Abstract

Introduction

There are different reinforcement methods in restoring root-filled teeth. The aim of this *in vitro* study was to evaluate the effect of fiber post and cusp coverage on fracture resistance of endodontically treated maxillary premolars directly restored with composite resin.

Results

There were no significant differences in fracture resistance between the groups (P = .057). However, χ^2 test showed statistically significant differences between the groups in failure mode (P < .001). The highest number of favorable fractures was observed in the control group (intact teeth).

Conclusions

Root-filled maxillary premolars, restored with direct resin composite with or without fiber post and cusp capping, had similar fracture resistance under static loading.

(36)

- 1. Glass ionomer restoration removal
- 2. GIC
- 3. Composite restoration placement

Shade: A1 + A2

4. Finishing & Polishing





1. Clinical examination:

- •Not tender to palpation and percussion
- •Class 2 (uncomplicated crown fracture)
- •No mobility

2. Vitality Test (Electrical pulp tester):

Normal response (+ve)

3. IOPA Radiograph shows:



(11)(21)

Phase III therapy









(15)

Prefabricated metal post and composite core





03



 Exploring of orifice Post Placement Canal preparation

Length confirmation

Post cementation

5. Core build-up



6. Putty index



8. Provisional restoration fabrication



7. Preparation



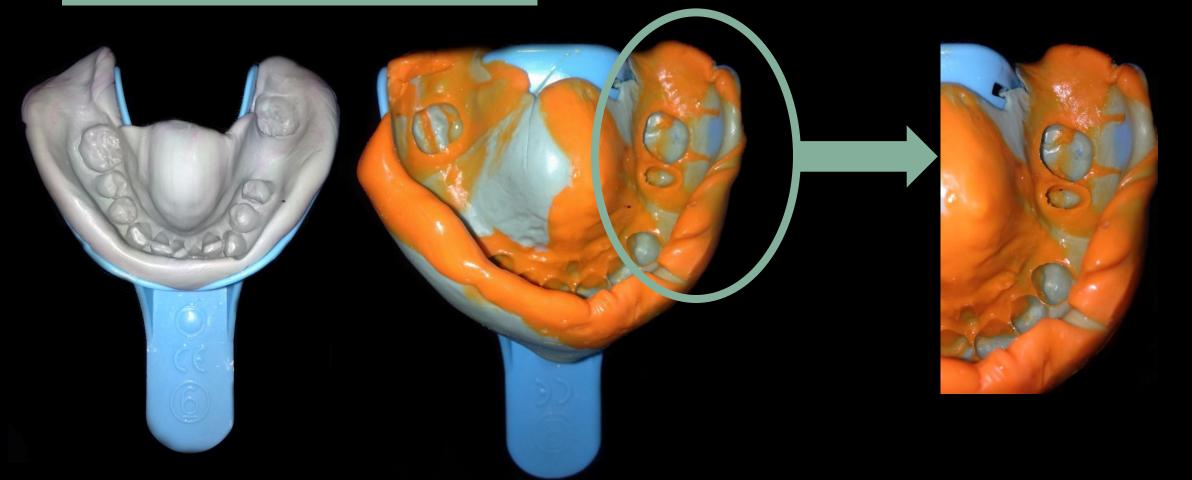




9. Final Impression

• The impression was taken using putty and light body in a double mix, one step technique







- 10. Shade selection using classic shade guide.
- The shade chosen was (A3 Cervically / A2 Incisaly 1)





Metal try-in was fabricated and adjustments to any high points were made



CHECKING AND VERIFICATION

- ✓ Seating
- ✓ Marginal integrity
- ✓ Retention and stability
- ✓ Occlusion
- ✓ Contour and anatomy
- X Esthetics





Note: Shade was not good and patient has stain cervicaly so returned to lab and asked for more details for more natural appearance

Trial cementation of PFM crown for 1 week to ensure complete comfort before final cementation.





The trial denture bases lie properly on their casts and the teeth meet evenly in
 Centric and stable

.

 Borders of the trial denture base are smooth, round, and have no sharp edges

















This work has been done under supervision of:

Dr.Mohamed Elgtlawi

Dr.Naeima Betamar

Dr.Ali Busnaina

Dr. Nada Kashbor

Dr.Rafiq Al Kuafi

Dr. Abdelmonem Abdelnabi

Dr.Omar Huni

Dr. Amal Al awami

Dr. Hashim Hamouda

Dr. Sara El Kilani













Thank you for your attention Grazie per l'attenzione Vielen Dank für Ihre Aufmerksamkeit Merci de votre attention Gracias por su atención Спасибоза внимание 感谢您的关注