



الجامعة الليبية الدولية للعلوم الطبية  
Libyan International Medical University



*Faculty of Dentistry*

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*15 December 2019*



# *Comprehensive Case Presentation*

*By : Lina Khalid Alobidi - 927*



**This work was achieved under the supervision of dental teaching staff at Libyan International Medical University:**

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- Dr. Abdelmonem Abdelnabi .
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- Dr. Malek Abdulmatlob .
- Dr. Masoud Alojilly .
- Dr. Nuha Alkadiki .
- Dr. Omar Alhuni.
- Dr. Rabie Alhuni .



# Personal Data

- **Initials:** S.O.S .
- **DOB:** 2.8.1976 .
- **Gander:** Male .
- **Occupation:** Teacher .
- **Address:** Algowarsha \ Benghazi.
- **Nationality:** Libyan .

# Patient History

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- **Chief complaint :**  
Pain , in Lower back area of the jaw, from one week .
- **History of Chief Complaint:**
  - Mild , throbbing , intermittent , and poorly localized pain, related to the lower left posterior quadrant , provoked by hot drinks , and relieved immediately after eliminating the stimuli , no sleeping disturbance, no associated signs and symptoms , of non radiating nature .
  - No treatment attempts .

# Patient History

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- **Medical and Drug History:**
  - Free of any chronic illness.
  - No history of hospitalization .
  - No other allergic history .
  - No abnormality detected by systemic review .
  - No medications taken currently .
- **Dental History:**
  - Symptomatic patient .
  - Last visit : 5 years ago.
  - Filling , RCT , Extraction , without complications .

# Patient History

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- **Social and Family History:**
  - Married .
  - 2 children .
  - Non smoker
  - Non alcohol drinker , or drug abuser .
  - Mixed and variant diet , drinking about 1\L of water daily .
  - Brushing teeth one time\day with horizontal motion .
  - No family history of any disease .

# Extra-oral Examination

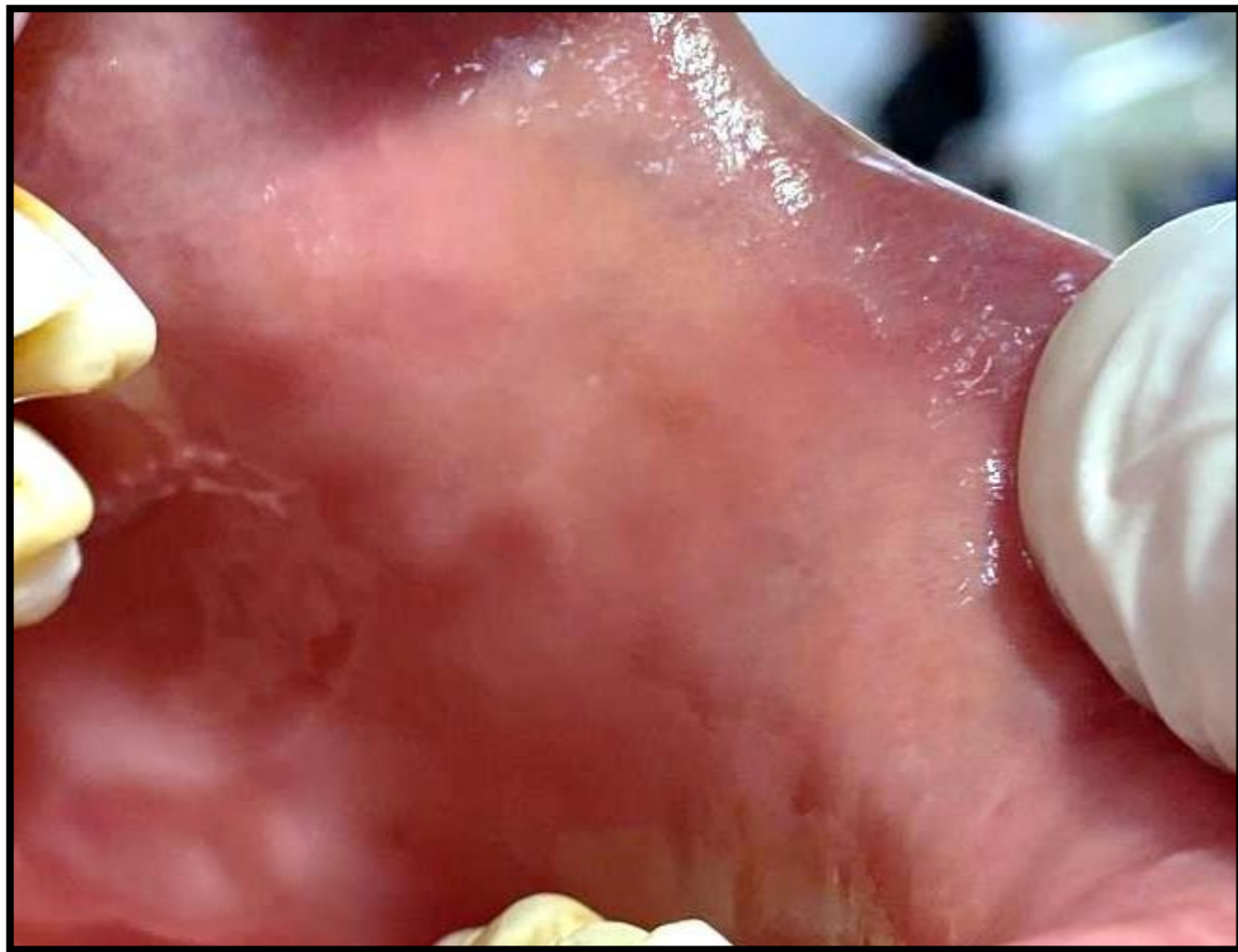
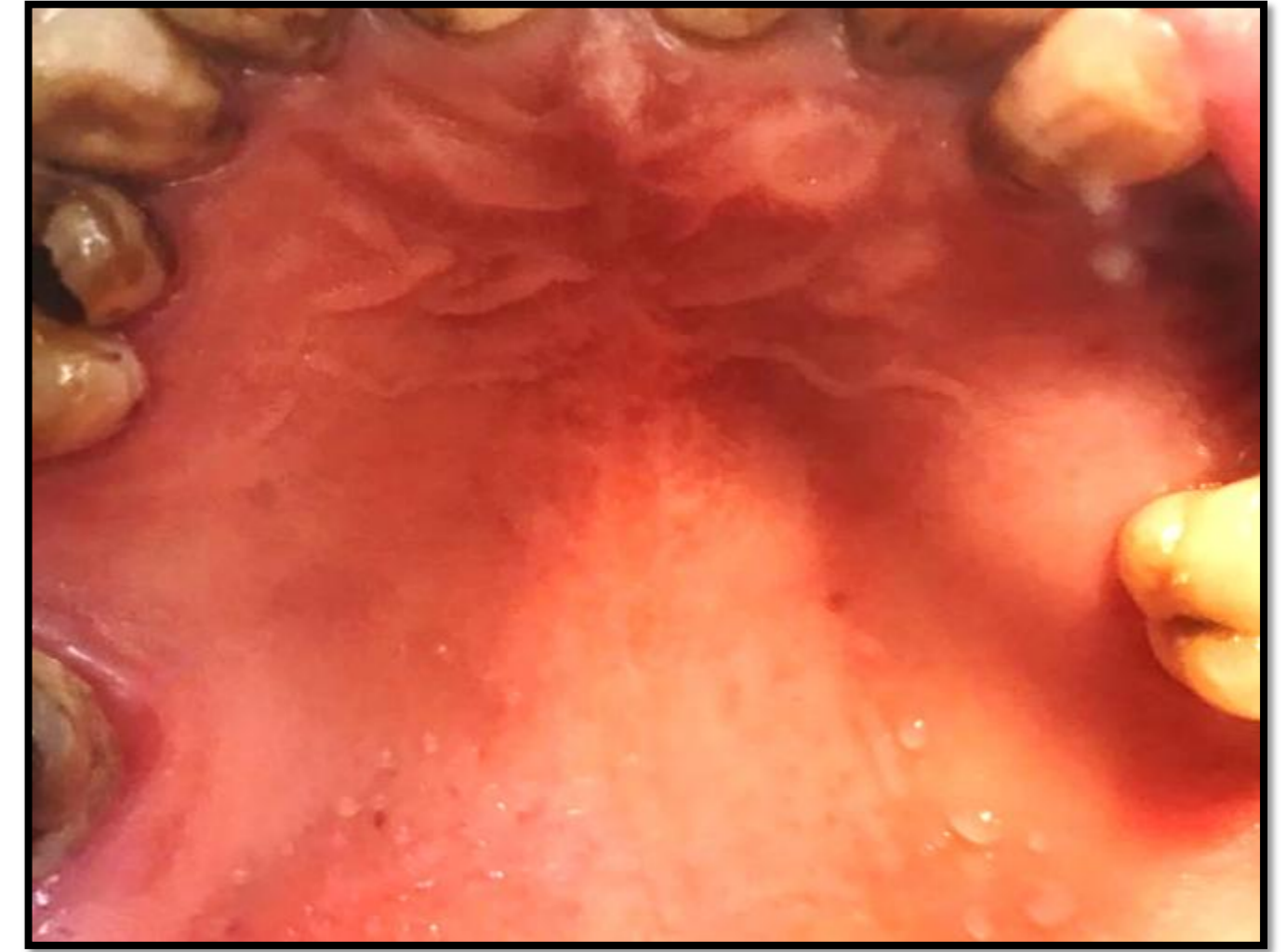
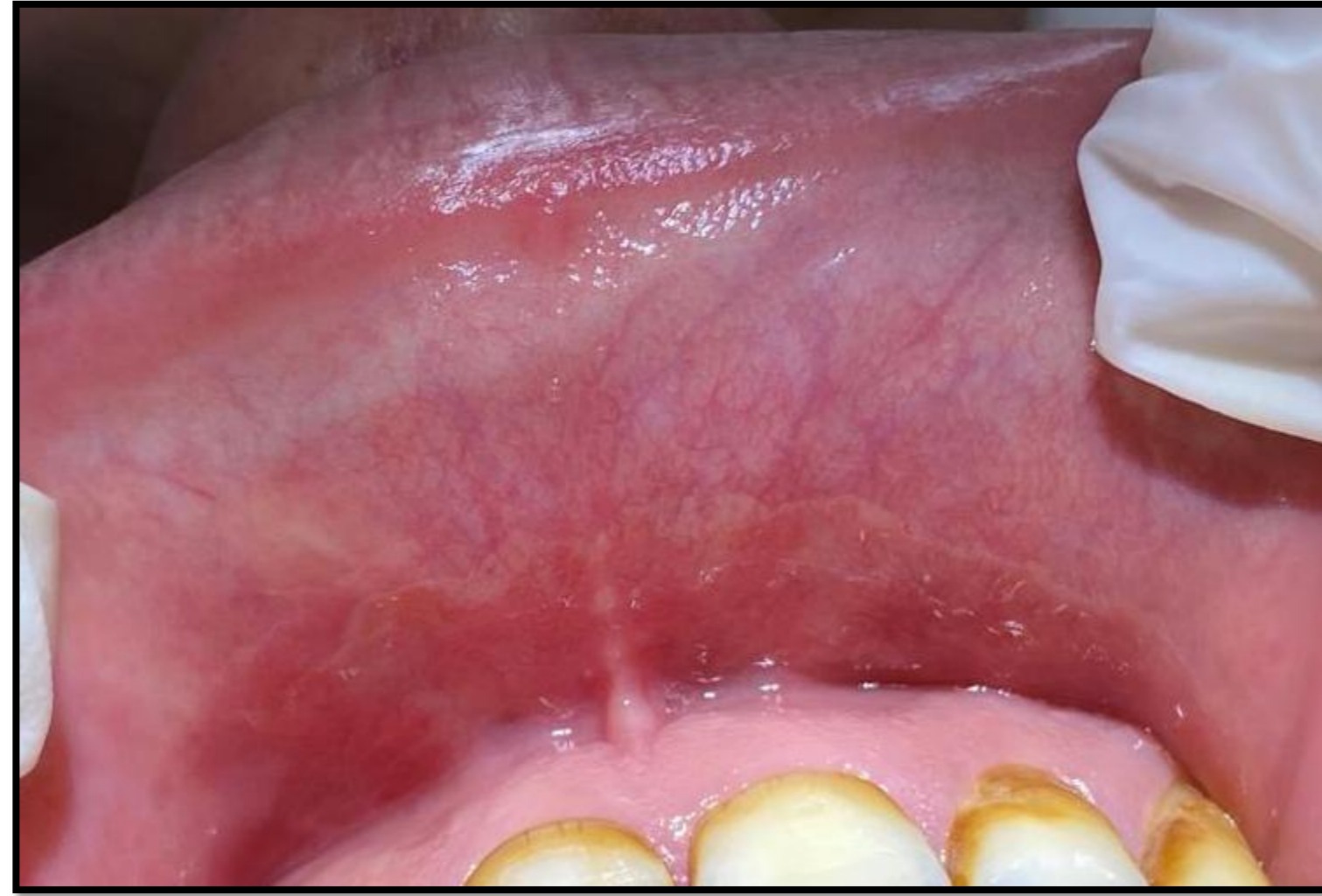
- Symmetrical face .
- Ovoid form.
- Straight profile .
- Competent lips , low lip line .
- No swelling .
- No scarring .
- Normal TMJ , with average mouth opening .
- Lymph nodes: Not Palpable .



# Intra-oral Examination

- **Soft Tissue :**
  - No discoloration .
  - No swelling .
  - No Ulcers .
  - No scaring .
  - No abnormality detected .

# Intra-oral Examination



# Intra-oral Examination



## Debris Index

<b>16</b>	<b>11</b>	<b>26</b>
<i>2</i>	<i>0</i>	<i>1</i>
<i>1</i>	<i>0</i>	<i>1</i>
<b>46</b>	<b>31</b>	<b>36</b>

$$\text{D.I} = 5/6 = 0.8$$

## Calculus Index

<b>16</b>	<b>11</b>	<b>26</b>
<i>2</i>	<i>0</i>	<i>1</i>
<i>1</i>	<i>1</i>	<i>0</i>
<b>46</b>	<b>31</b>	<b>36</b>

$$\text{C.I} = 5/6 = 0.8$$

$$(\text{OHI-S}) = 0.8 + 0.8 = 1.6$$

**Fair Oral Hygiene**

# Intra-oral Examination

- **Hard Tissue :**

8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8
<i>F</i>	<i>F/RCT</i>	<i>RR</i>		<i>D</i>	<i>D</i>	<i>D</i>	<i>#</i>	<i>#</i>			<i>M</i>	<i>M</i>	<i>D</i>	<i>M</i>	<i>M</i>
<i>M</i>	<i>F</i>	<i>F</i>	<i>D</i>	<i>M</i>								<i>D</i>	<i>D</i>	<i>M</i>	<i>M</i>
8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8

- D:Decay

- F: Filling

- RCT: Root Canal Treatment

- #: Fracture

- M: Missing

- RR: Remaining root

# DMF-T Index

- **Decayed : 8 .**
- **Missing : 7 .**
- **Filled : 3 .**

$$\text{DMF-T} = 7+7+3 = 18$$

**Very High**

# Gingival And Periodontal Status



- Pink .
- Round gingival margin .
- Blunt IDP.
- Bleeding on probing .
- Localized gingival recession .
- Pocket depth " 1-3 mm " .
- CAL " 0-4 mm " .
- Grade II furcation involvement .
- No swelling .
- No exudate .
- No mobility .
- No traumatic occlusion .
- Normal frenal attachment .

# Intra-oral Examination





# Intra-oral Examination



# Intra-oral Examination

- **Lower left First Molar .**
  - **Inspection** : Badly distracted
  - **Palpation** : Not TTP .
  - **Percussion** : Not TTP .
  - **Mobility** : No .

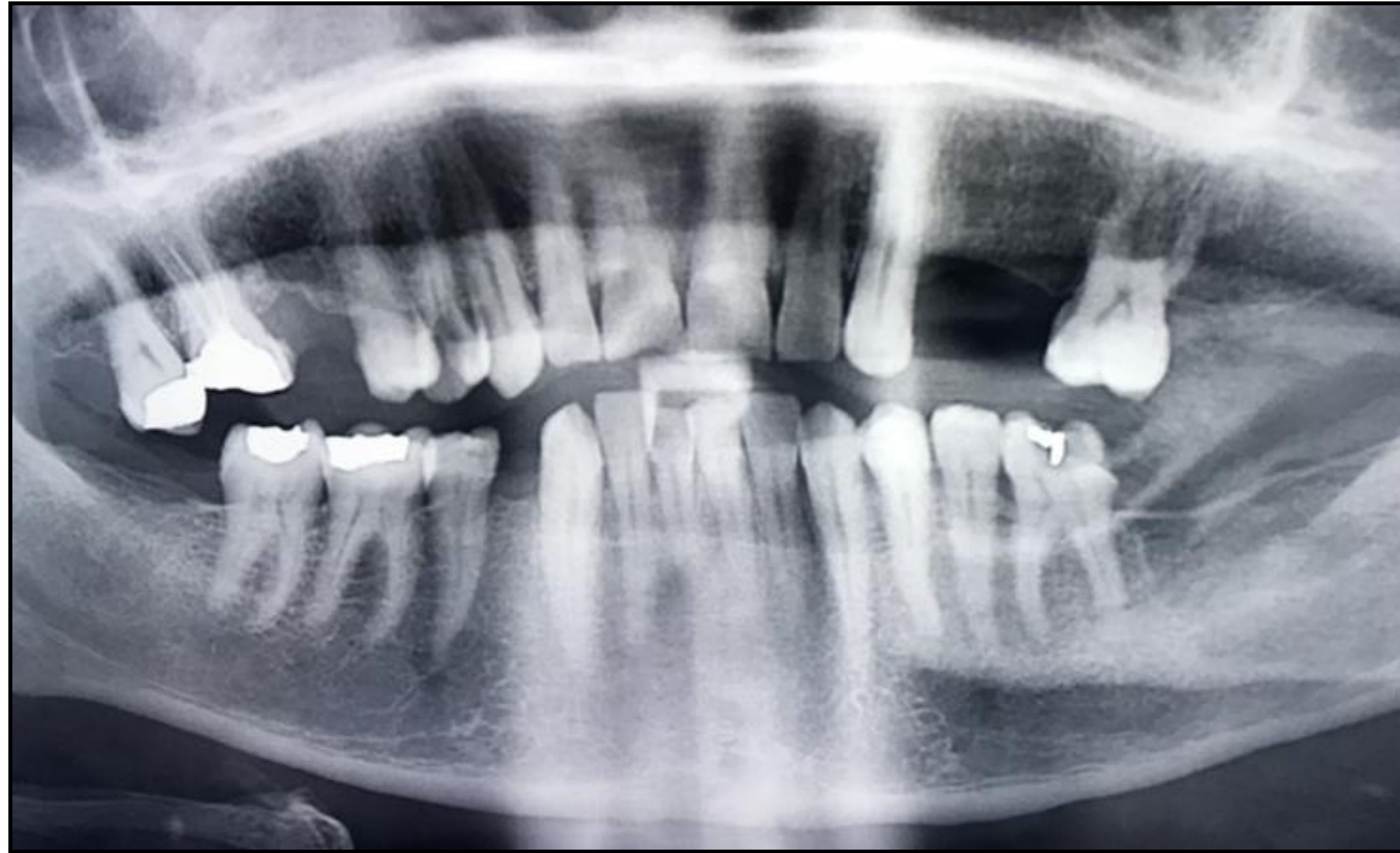




# Investigations

- IOPA .
- Orthopantomogram ( OPG ).

# Radiographic Examination



Panoramic view Showing maxillary and mandibular teeth with generalized mild to moderate bone loss .

- Furcation involvement Radiolucency (Upper left 6 ).
- Remaining root (Upper right 6 ).
- Endodontically treated (Upper right 7).
- Radiolucency related to many crowns , indicating carious lesions, and Radiopacity related to many other crowns , indicating restoration.
- Missing teeth (Upper left 4) , (Upper left 5) , (lower right 4) (lower left 7)

# Diagnostic Cast Analysis

- **Crowding\Spacing:**
  - Upper arch: Normal.
  - Lower arch: Moderate crowding.
- **Incisal Relationship:**
  - Class I .
- **OJ : 2mm , OB : 2mm .**
- **Canine Relationship:**
  - Right :Class I .
  - Left : Class I .
- **Molar Relationship: \**
- **No cross bite .**
- **Midline :**
  - Upper midline : Coincidence.
  - Lower midline : shifted 1.5 mm \ right.



# Final Diagnosis

- Chronic pulpitis related to ( Lower left 6 ).
- Generalized mild to moderate chronic periodontitis.
- Moderate fluorosis . (Dean's Fluorosis Index )
- Remaining root (Upper right 6 ) .
- Dental caries related to (Upper right 2 ) , (Upper right 3 ) , (Upper right 4) , (Upper left 6) , ( Lower left 5 ) , ( Lower right 5 ) .
- Fractured tooth (Upper right 1) , (Upper left 1) .
- Failed restoration ( Lower right 7 ) .
- Edentulous areas " Kennedy classification "
  - Upper arch : Class III mod 1 .
  - Lower arch : Class III .

# Treatment Plan

- **Emergency phase :** /
- **Phase I Therapy :**
  - OHI
  - Diet control
  - Scaling & localized root planning .
  - Pit and fissure sealant ( Lower left 4 ) .
  - Re-evaluation .
- **Phase II Therapy " Surgical " :**
  - Surgical extraction of Remaining root (Upper right 6 ) .

# Treatment Plan

- **Phase III Therapy " Restorative " :**
  - **RCT** ( Lower left 6 ) , (Upper right 4 ) .
  - **Composite restoration** (Upper right 2 ) , (Upper right 3 ) , (Upper right 1) , (Upper left 1) , (Upper left 6) , ( Lower left 5 ) , ( Lower right 5 ) .
  - **Replacement of Amalgam restoration** ( Lower right 7 ) .
  - **Polishing amalgam restoration** ( Lower right 6) .
  - **Custom made cast post and core + PFM crown** ( Lower left 6 ) , (Upper right 4 ) .
  - **Replacement by PFM bridges** (Upper right 6 ) , (Upper left 4, 5) , ( Lower right 5 ) .



# Treatment Plan

- **Phase IV Therapy " Maintenance " :**
  - Checking 1st after 3 months, then after every 6 months.

# Patient Informed Consent

الجامعة الليبية الدولية للعلوم الطبية

كلية طب وجراحة الفم والأسنان

موافقة للأذن بالعلاج

أقر أنا ..... بطاقة شخصية رقم: .....

وبكامل ارتدائي أنني أعطيت موافقتي للتعددية والكتابة للبدء والاستمرار في العلاج بعلاجات كلية طب الأسنان بالجامعة  
الليبية الدولية للعلوم الطبية والذي يتخيم

عزيم كثر / تصيف / علاج / مشروط بـ  
حسب وعاد / تركيبات ثابتة

وقد تم شرح التشخيص المرضي لحالي والخيارات المختلفة المتوفرة لمعالجتها والأعراض الجانبية والمخاطر التي قد  
تصاحب العلاج والمشاكل التي قد تنتج عن عدم العلاج والمدة التقريبية اللازمة لانتهاؤه منه والتكلفة الإجمالية للعلاج  
وفقاً للرسم الرمزية المقررة كما اتفهم أن هذا العلاج قد تم تنفيذه من قبل طالب أو طبيب استشار تحت الإشراف المباشر  
لأعضاء هيئة التدريس بالكلية.

\* رفض العلاج : بالرعاية - النجوم - التركيبات المتحركة - تغيير لون الأسنان  
\* الموافقة على إجراء جميع العلاجات لعرض العملية التعليمية .

اسم المريض: .....

توقيع المريض: .....

اسم الطالب أو طبيب الأمتياز: .....

الأستاذ المشرف: .....

التاريخ: 2019 / 2 / 7

# Oral Hygiene Instructions

- Regular tooth brushing at least twice\day , and after every sugary meal .
- Soft tooth brush with modified pass technique is preferable .
- Toothpaste with not aggressive abrasive agent .
- Use dental floss before tooth brushing .
- Use mouthwash .
- Tongue cleaning .
- Change the Toothbrush every 3 months .



# Diet Sheet Analysis

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	الأكولات والمشروبات	الساعة	اليوم
فطور	سندوتش شكولاتة شاي وحب	6:30	الاحد
غداء	سندوتش جبنة كريمة شاي	10:00	
غداء	كافورنة + حشيشي	1:00	
عصير	فنان قهوة + بسبوسة	5:00	
مشاء	سندوتش فن وطاقم	7:00	
فطور	سندوتش شكولاتة شاي وحب	8:00	الاثنين
غداء	بدايوج وحلقة	1:30	
عشاء	سندوتش فول مدخن مشروب رمان	8:00	
فطور	سندوتش شكولاتة شاي وحب	5:00	الثلاثاء
غداء	سندوتش كebab مشروب غازي	7:30	
عشاء	سندوتش جبنة وطاقم مشروب رمان	8:00	

# Scaling And Root Planning



# Pit And Fissure Sealant

- Lower left 4



# Re-evaluation

- Oral hygiene improvement from fair to **GOOD** .
- Pink Gingiva , with round gingival margin , and Pointed IDP .
- Pocket depth " 1-3 mm " .
- CAL "0-4 mm " Due to **gingival recession** .
- No swelling , exudate , mobility , or other symptoms .



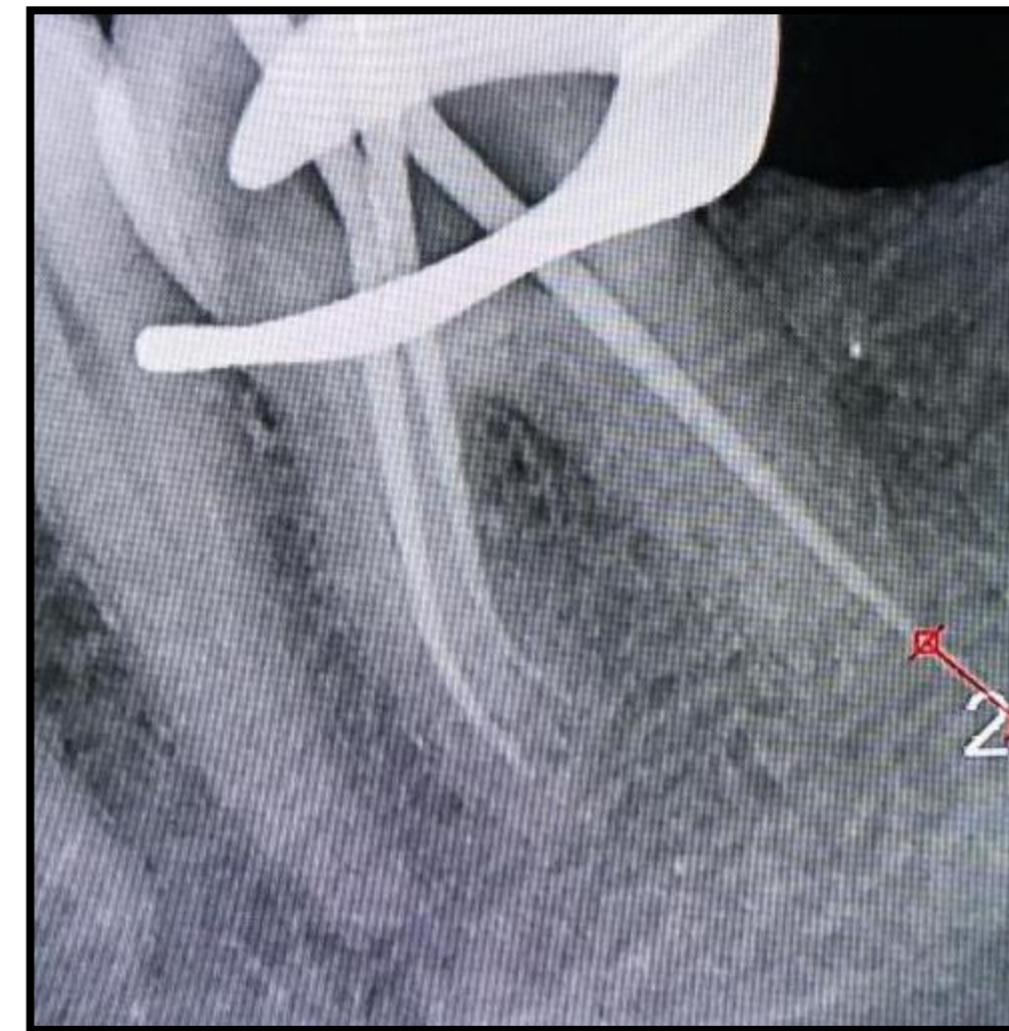
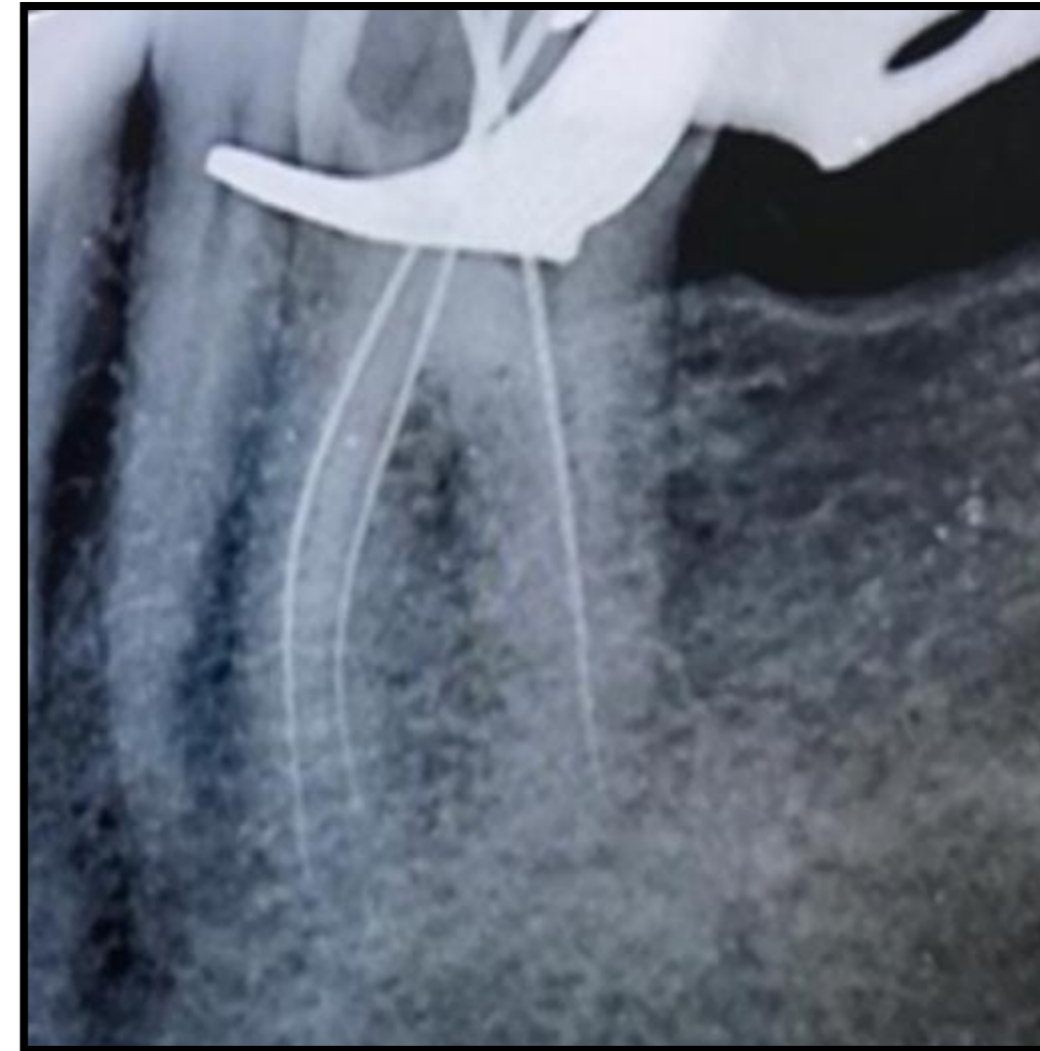
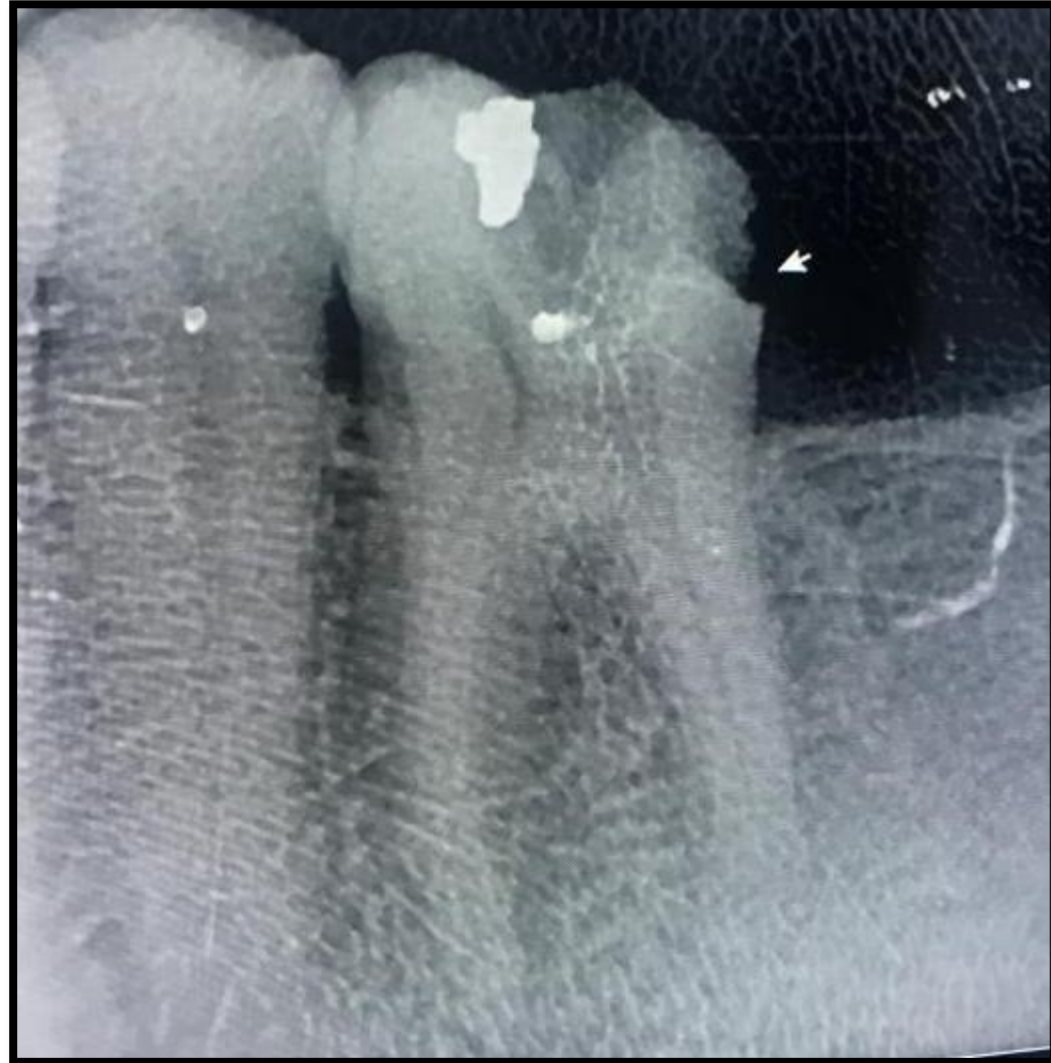
# Diet sheet Re-evaluation

نوع الوجبة	المأكولات والمشروبات	الساعة	الأيام
فطور	سندوتش تن + شاي و حليب	7:00	الاثنين
غدا	رز + شربة خضروات + ماء	1:30	
عصية	قهوة بالحليب + بسكويت	6:00	
عشاء	سندوتش بيض و طماطم + مشروب برتقال + ماء	9:00	
فطور	سندوتش جبنه و طماطم شاي و حليب	8:00	<del>الاثنين</del> الثلاثاء
غدا	طبخه بطاطا + لحم + خبز فطيرة + ماء	1:30	
عشاء	حساء + خبز + مار	8:00	
فطور	سندوتش شكولاته شاي و حليب	6:30	<del>الاثنين</del> الأربعاء
غدا	مكرونه + دجاج مقلي + بطاطا معليه + عنب + مار	1:30	
عشاء	سندوتش جبنه و طماطم مشروب برمان	8:00	



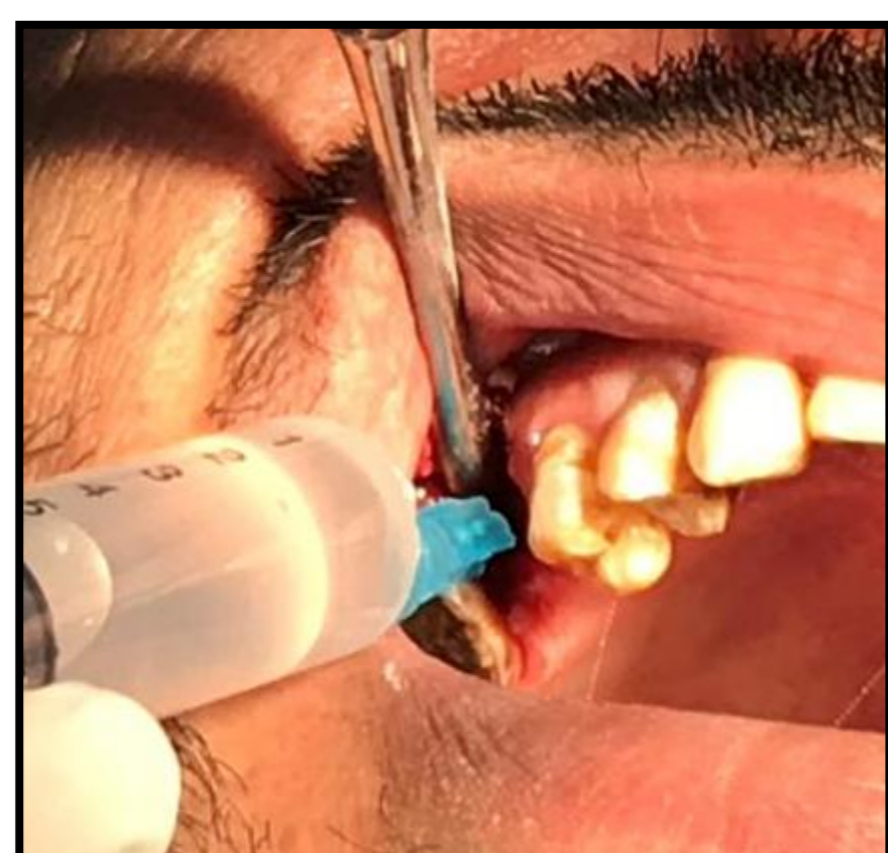
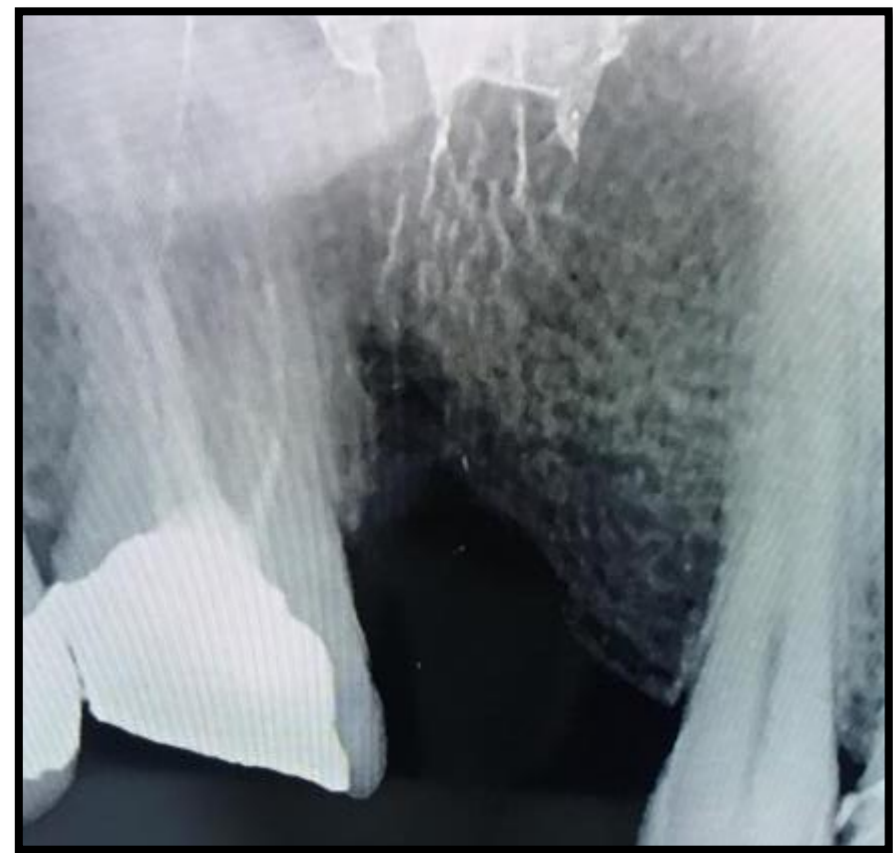
# Root Canal Treatment

- Lower left 6



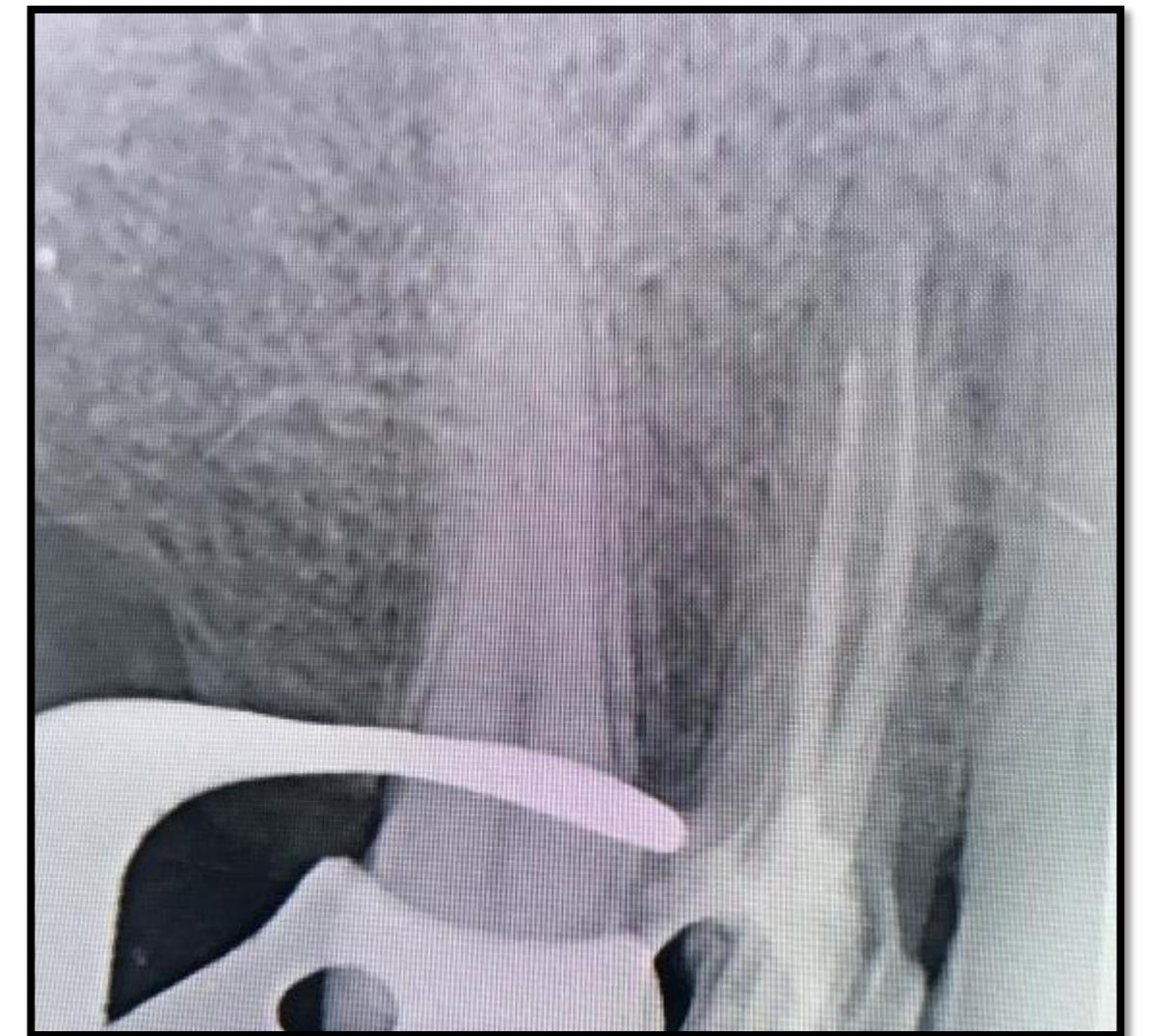
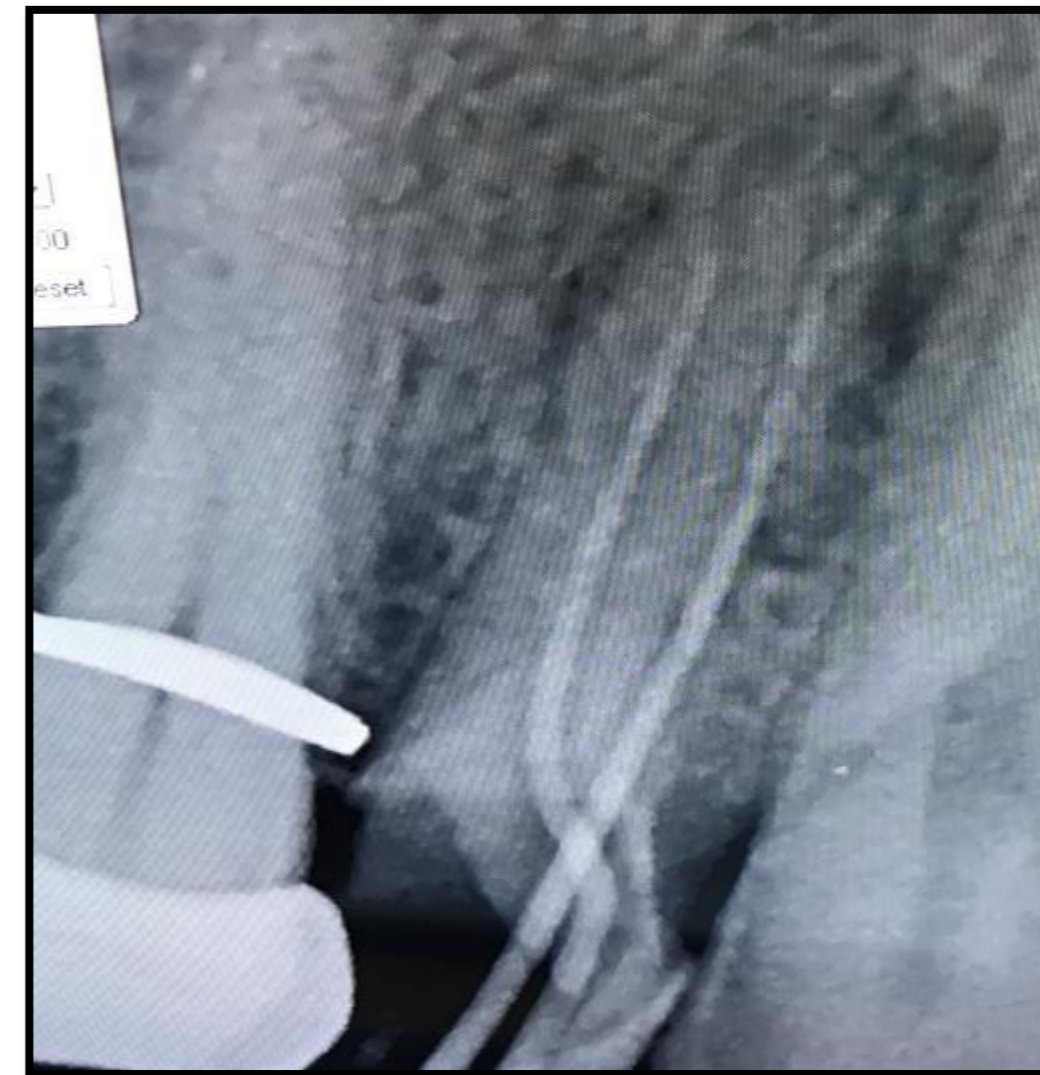
# Surgical Extraction Of Remaining Root

- Upper right 6



# Root Canal Treatment

- **Upper Right 4**



# Replacement of Amalgam restoration

- **Lower Right 7**



# Composite Restorations

- Upper right & left 1



- Upper right 2 & 3



# Composite Restorations

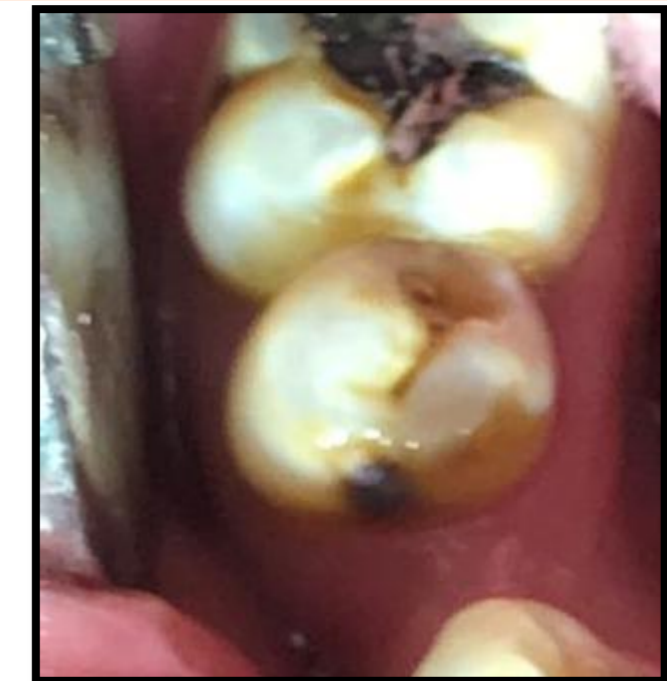
- **Upper left 6**



- **Lower left 5**

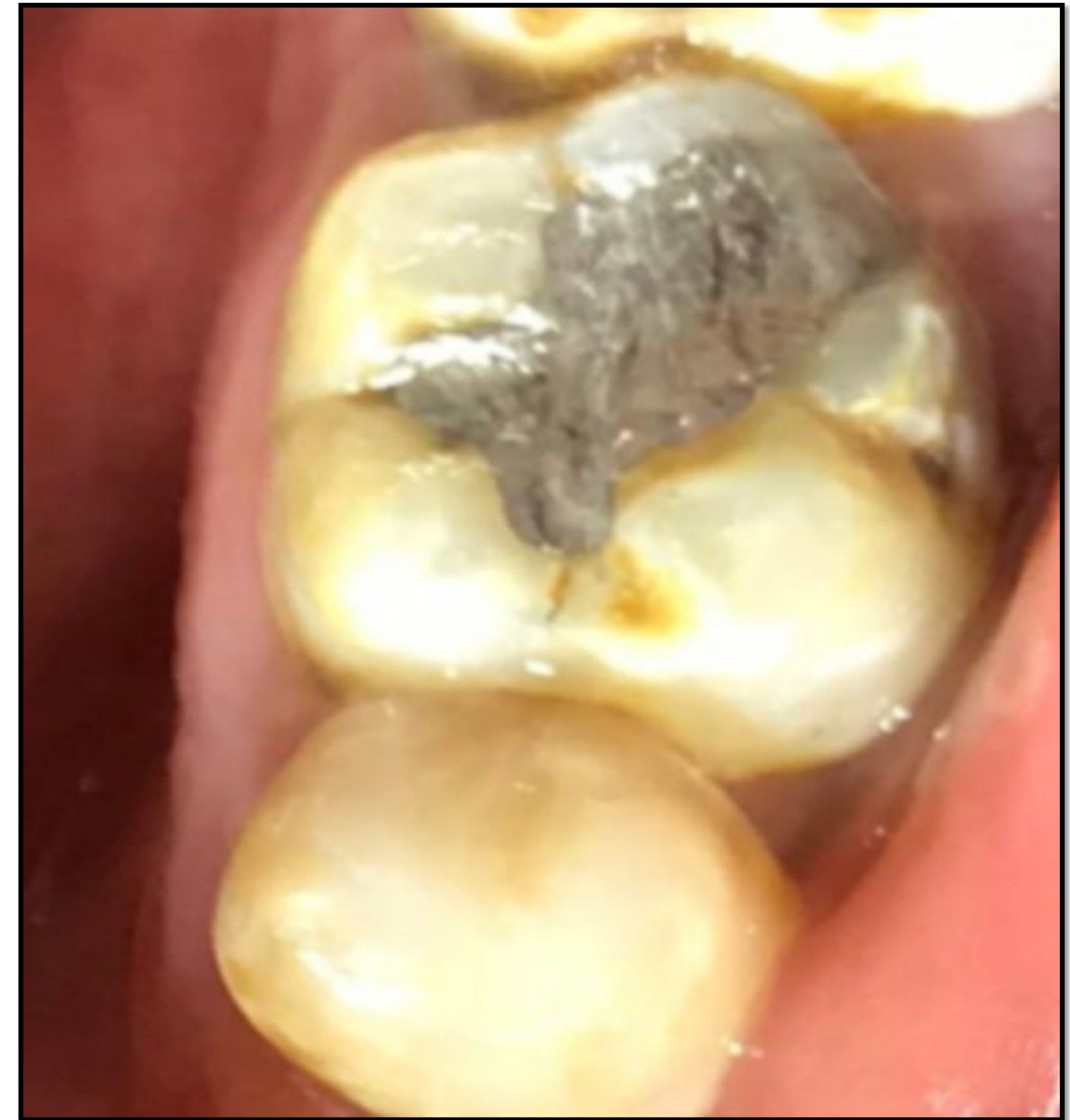


- **Lower right 5**



# Polishing Amalgam Restoration

- Lower right 6



# Custom Made Post , Core And PFM Crown

- Lower left 6





# Custom Made Post , Core And PFM Crown

- Lower left 6
- Post space preparation and impression



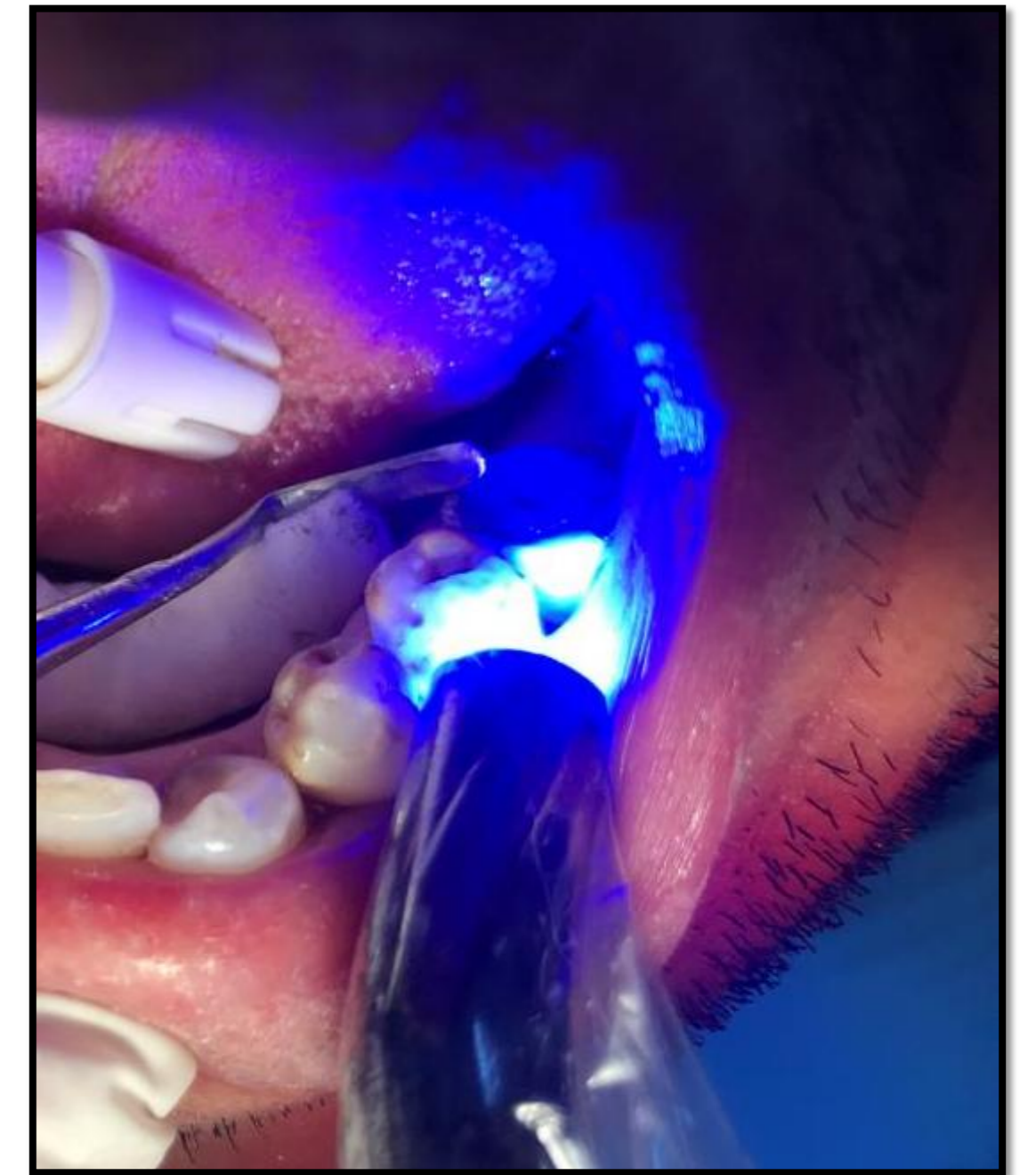
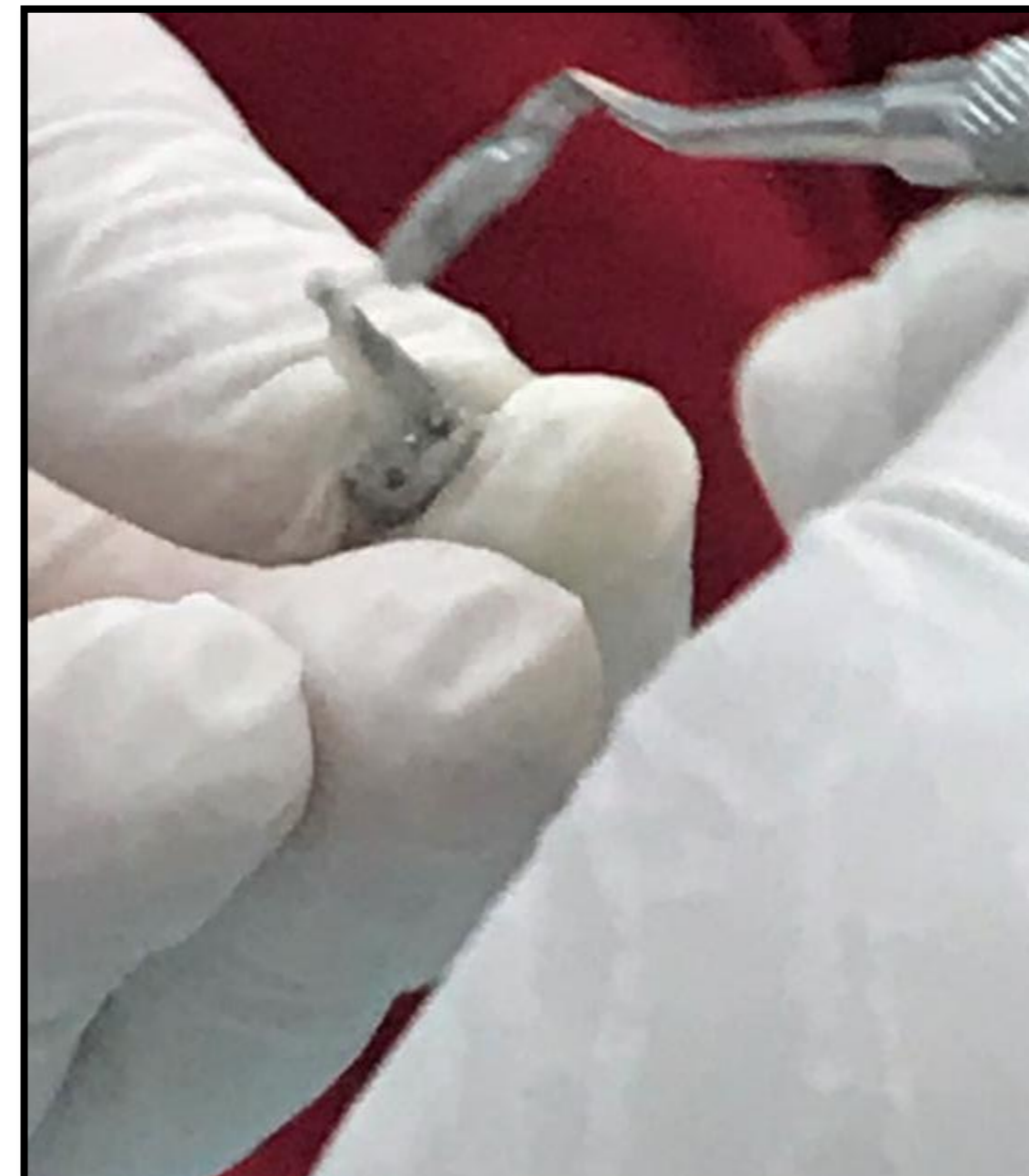
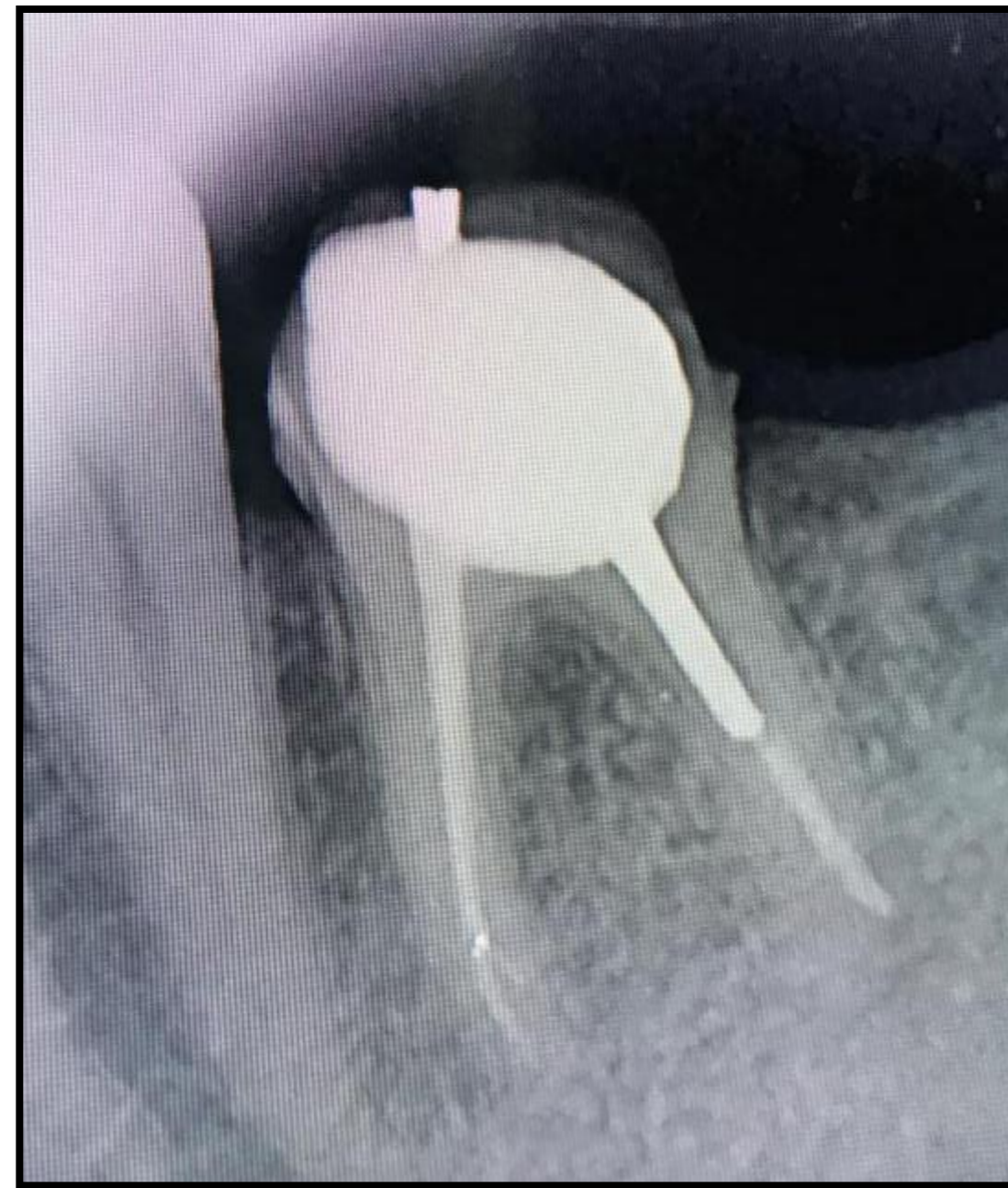
# Custom Made Post , Core And PFM Crown

- Lower left 6
- Temporary post and crown



# Custom Made Post , Core And PFM Crown

- Lower left 6
- Post placement and Cementation



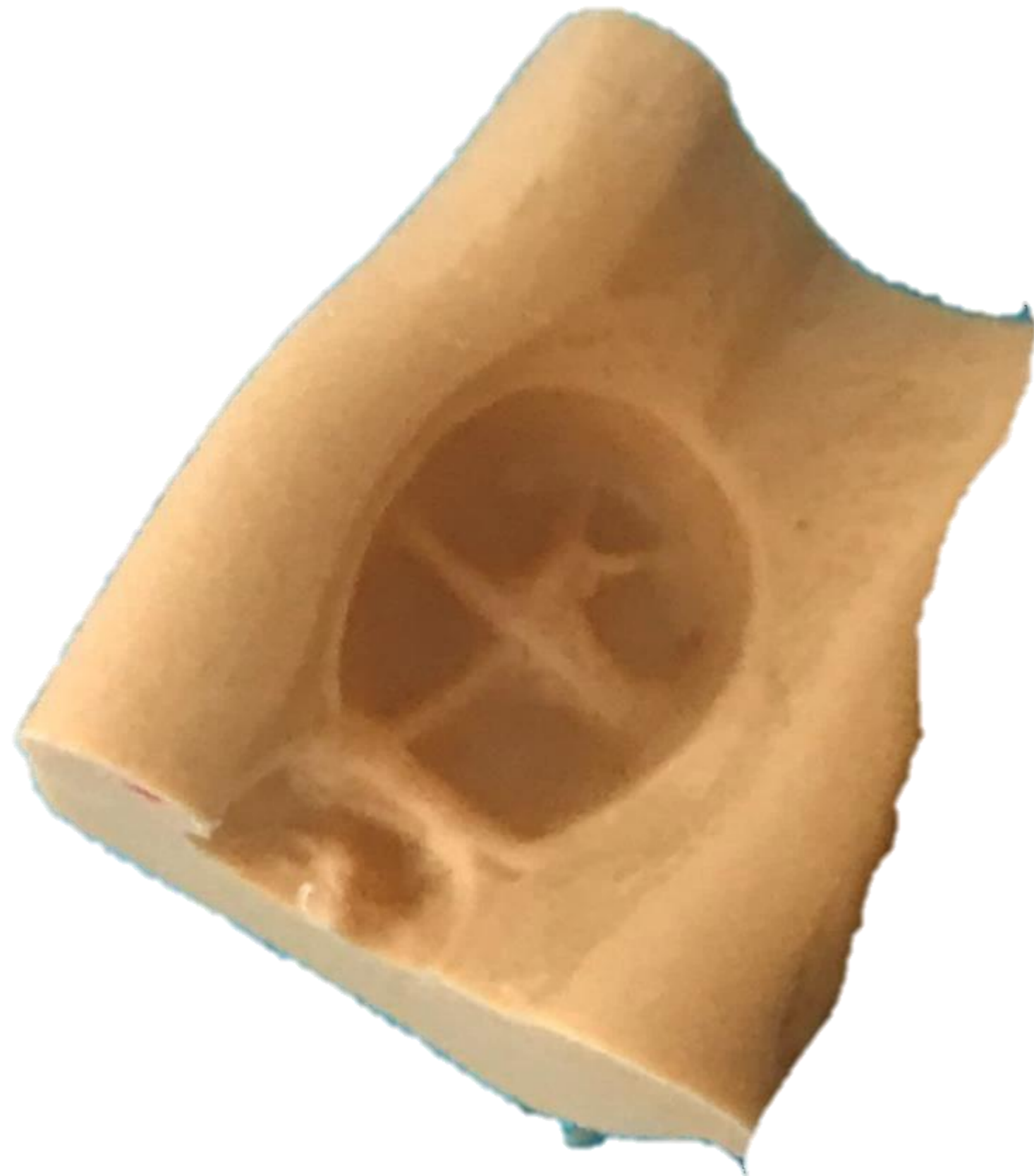
# Custom Made Post , Core And PFM Crown

- Lower left 6
- Tooth preparation and Final impression



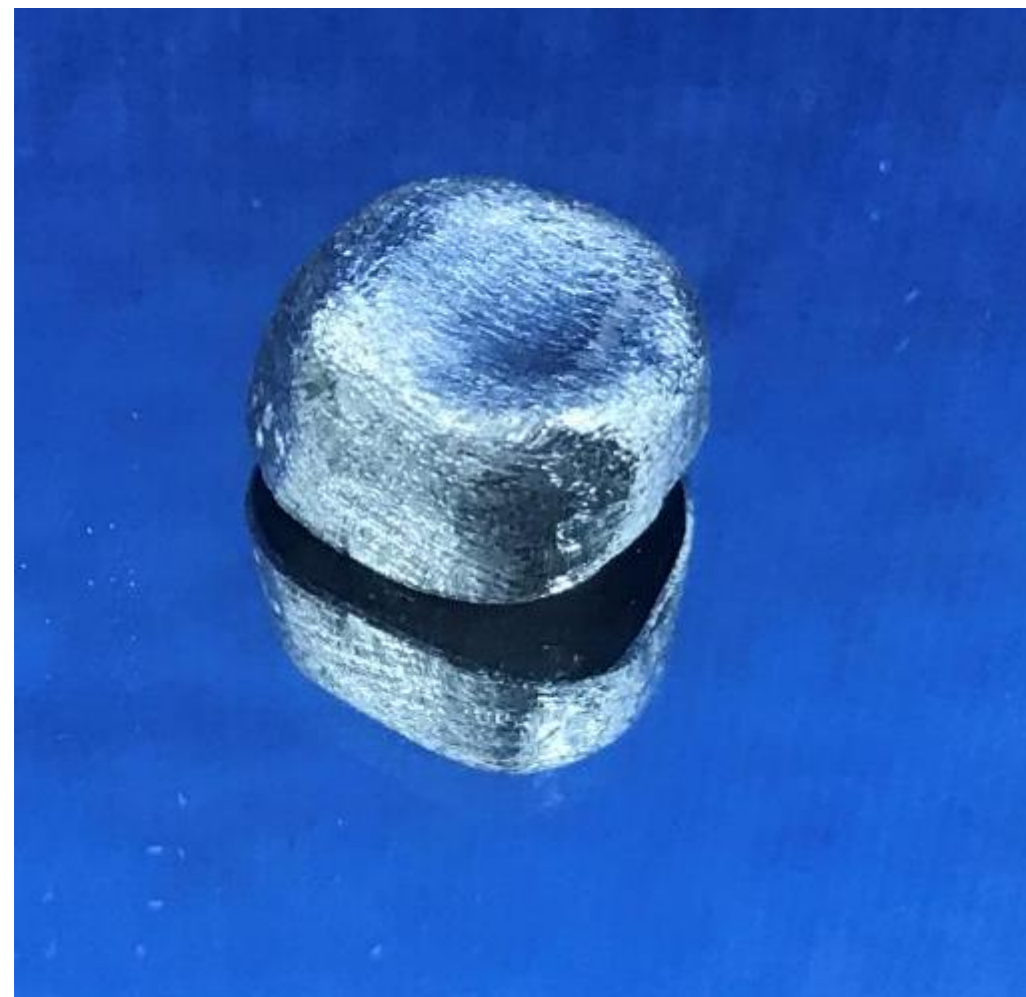
# Custom Made Post , Core And PFM Crown

- Lower left 6
- Temporary crown



# Custom Made Post , Core And PFM Crown

- Lower left 6
- Metal Try-in



# Custom Made Post , Core And PFM Crown

- Lower left 6
- Shade selection
- Temporary crown



# Custom Made Post , Core And PFM Crown

- Lower left 6
- Crown insertion





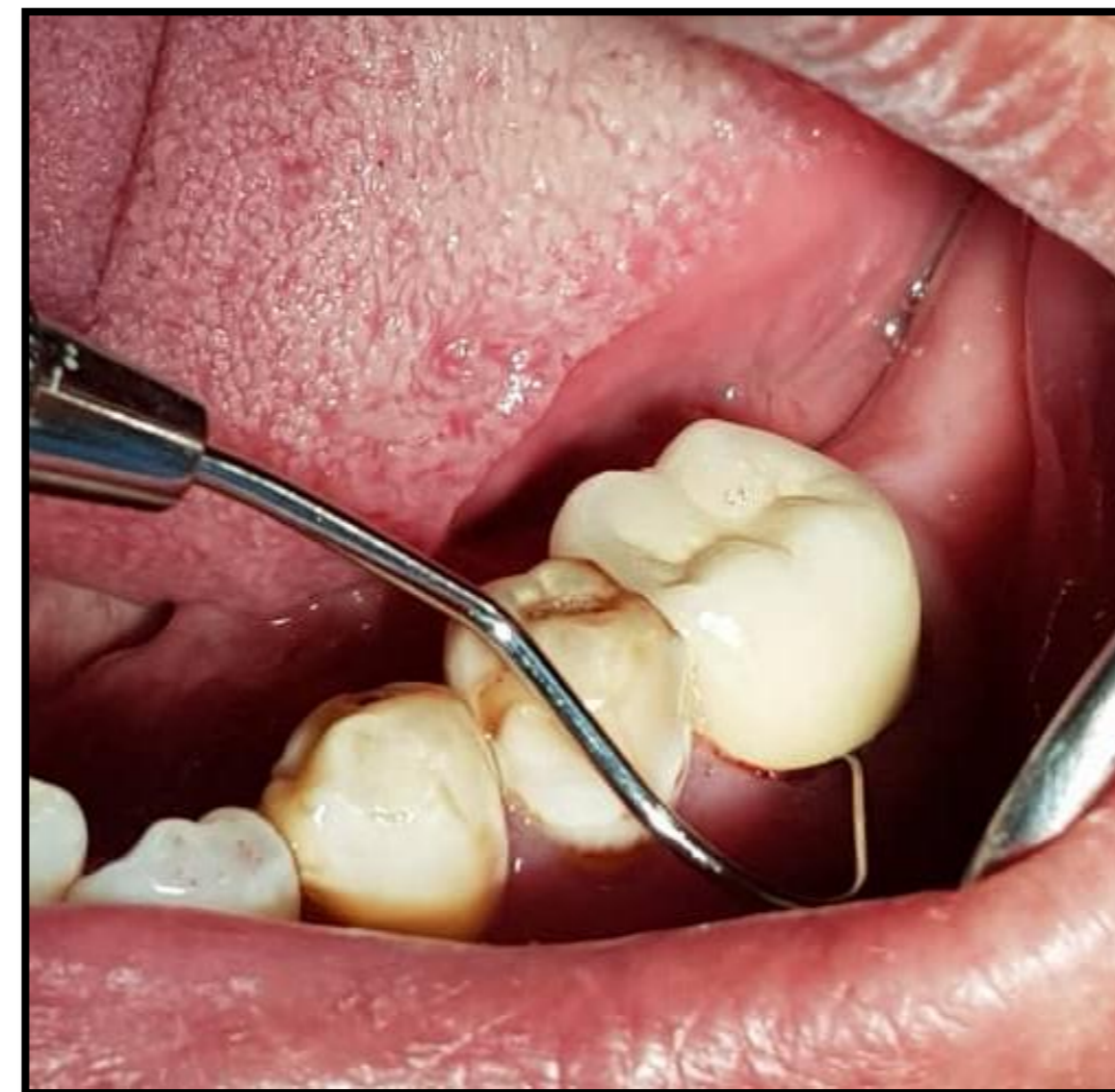
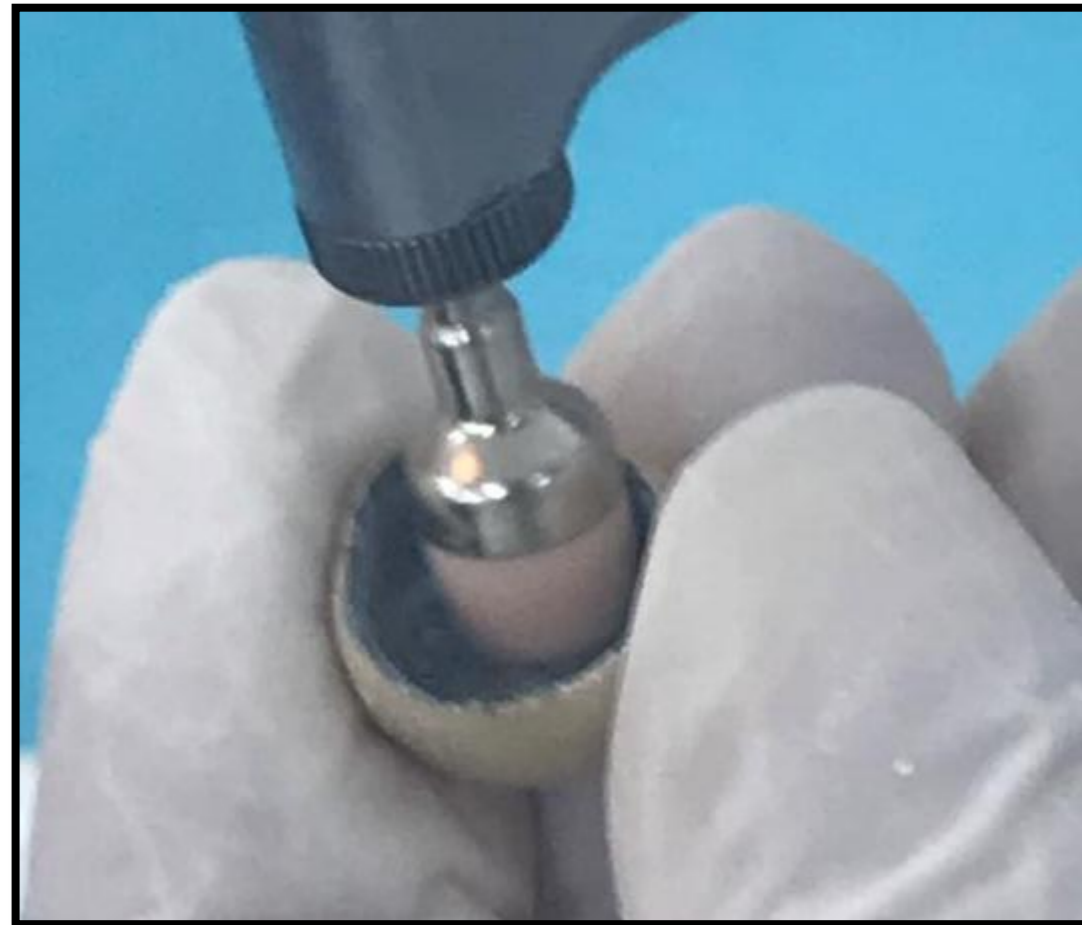
# Custom Made Post , Core And PFM Crown

- Lower left 6
- Trail cementation



# Custom Made Post , Core And PFM Crown

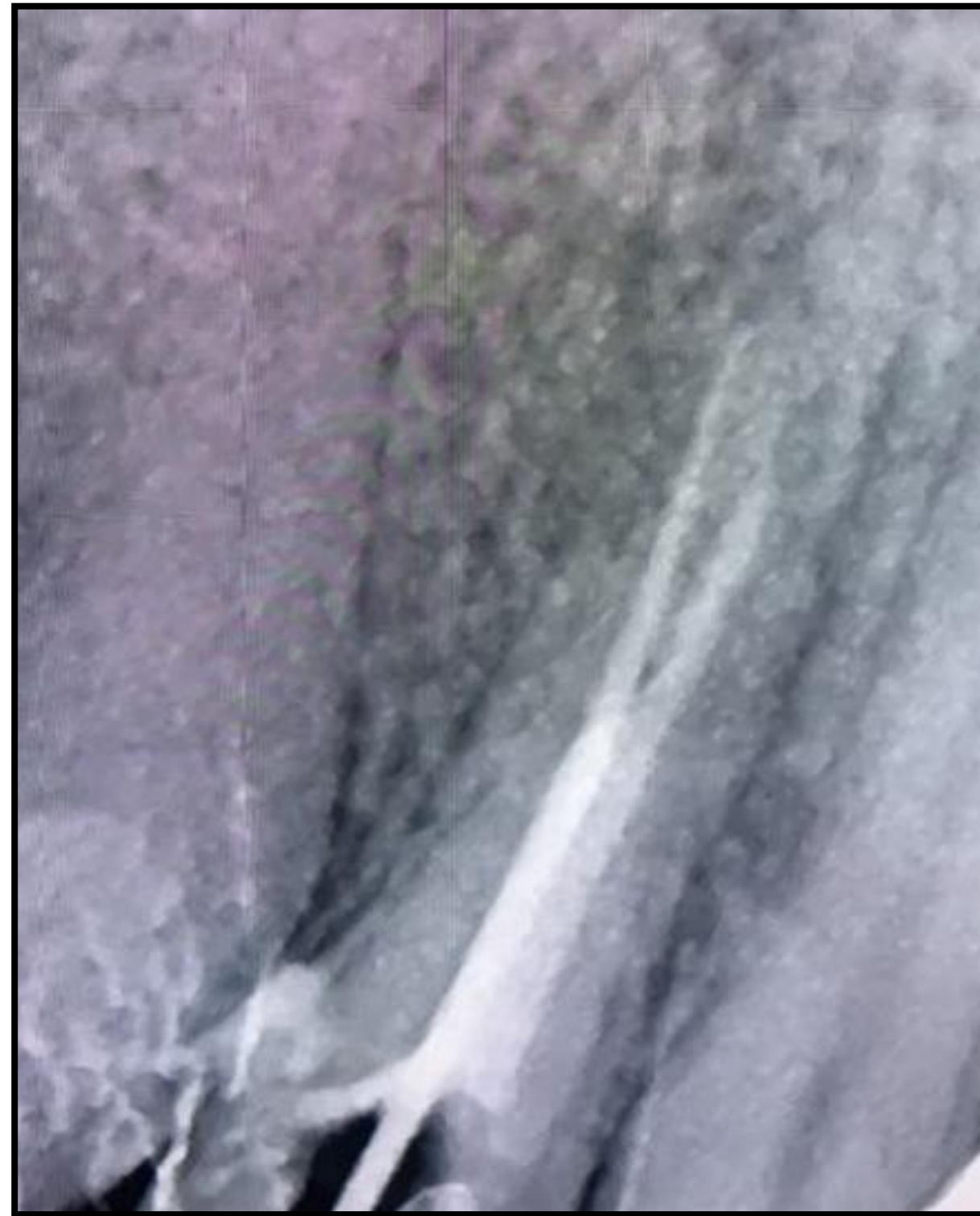
- Lower left 6
- Final cementation



# Custom Made Post , Core And PFM Crown

## PFM Bridges

- Upper right 4
- Post space preparation and impression



# Custom Made Post , Core And PFM Crown

## PFM Bridges

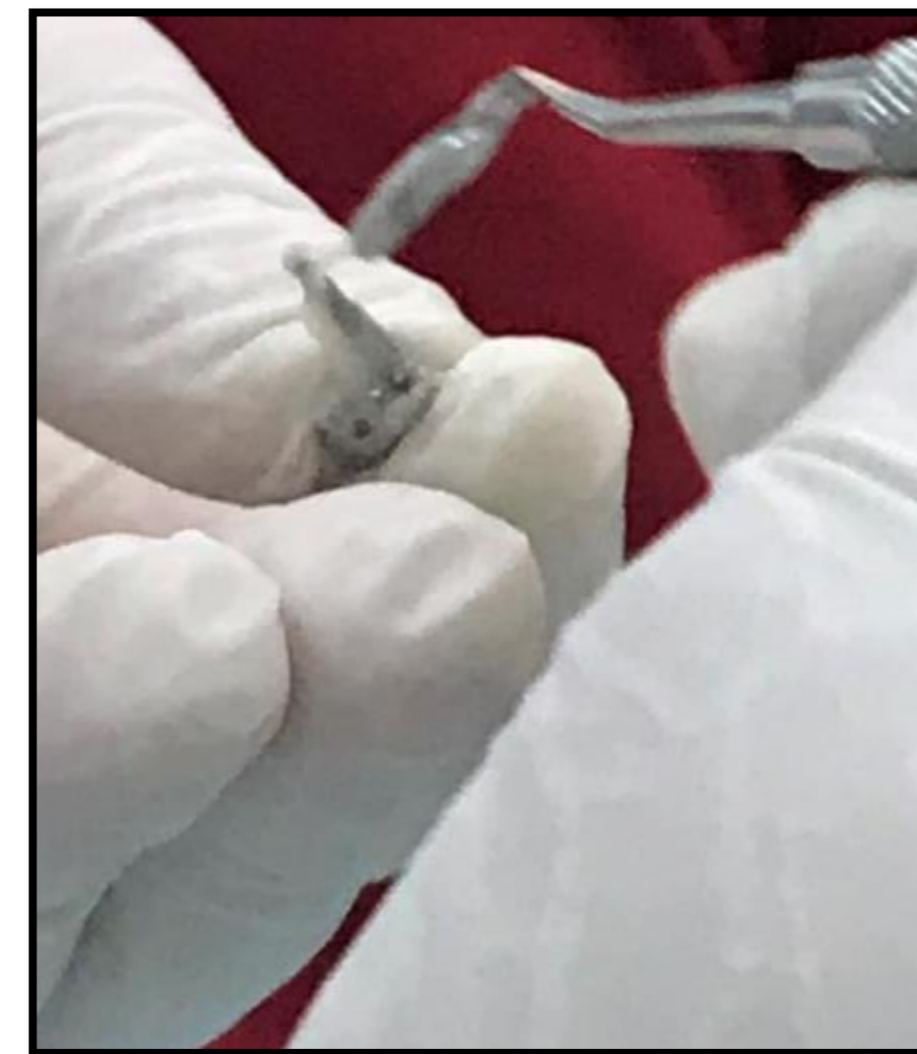
- Upper right 4
- Temporary post and crown



# Custom Made Post , Core And PFM Crown

## PFM Bridges

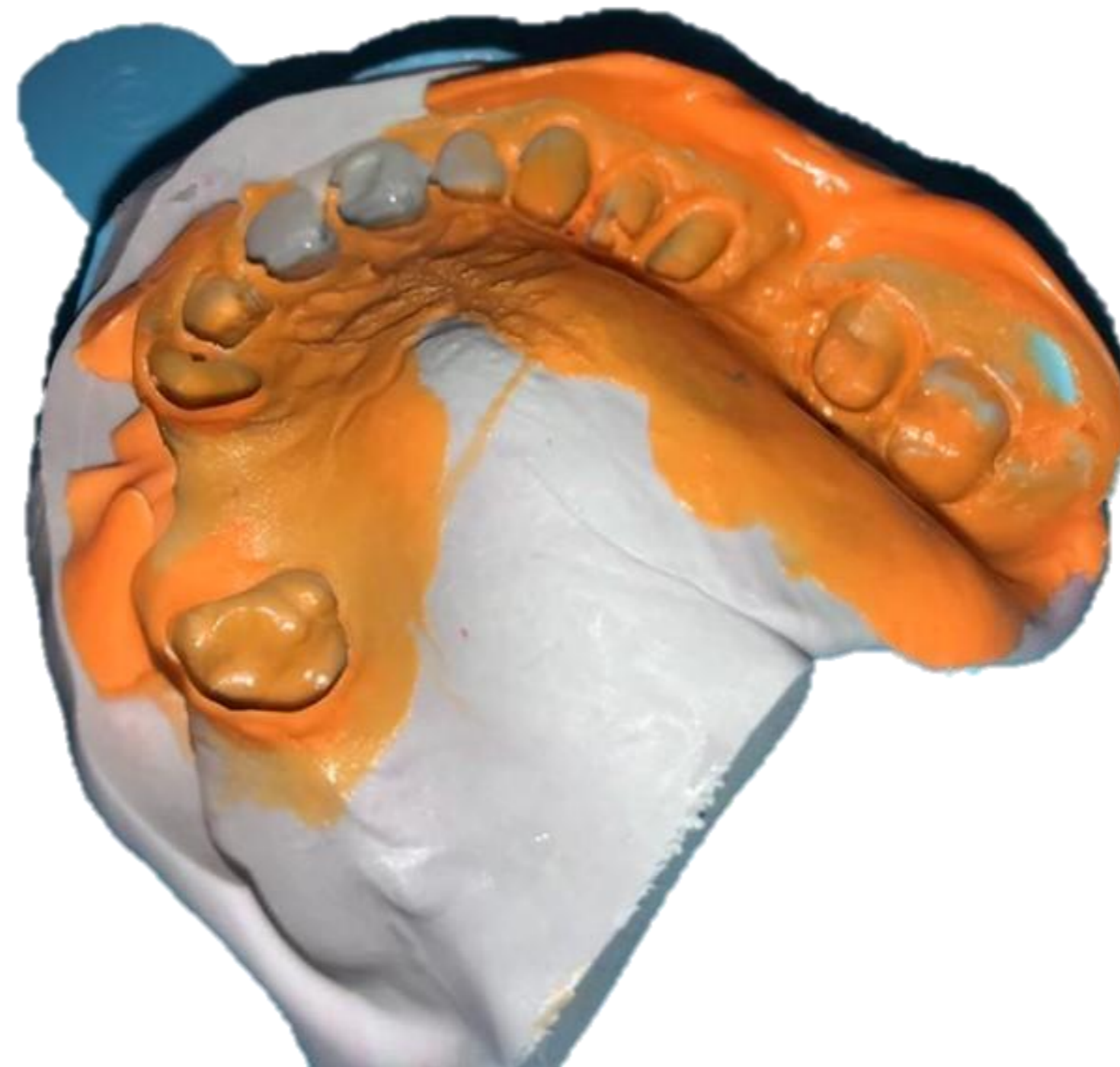
- Upper right 4
- Post placement and Cementation



# Custom Made Post , Core And PFM Crown

## PFM Bridges

- Upper right 4 , 5 , 7
- Teeth preparation and Final impression



# Custom Made Post , Core And PFM Crown PFM Bridges

- Upper right 4 , 5 , 7
- Temporary bridge



# Custom Made Post , Core And PFM Crown

## PFM Bridges

- **Upper right 4**
- **Metal Try-in**





# Custom Made Post , Core And PFM Crown

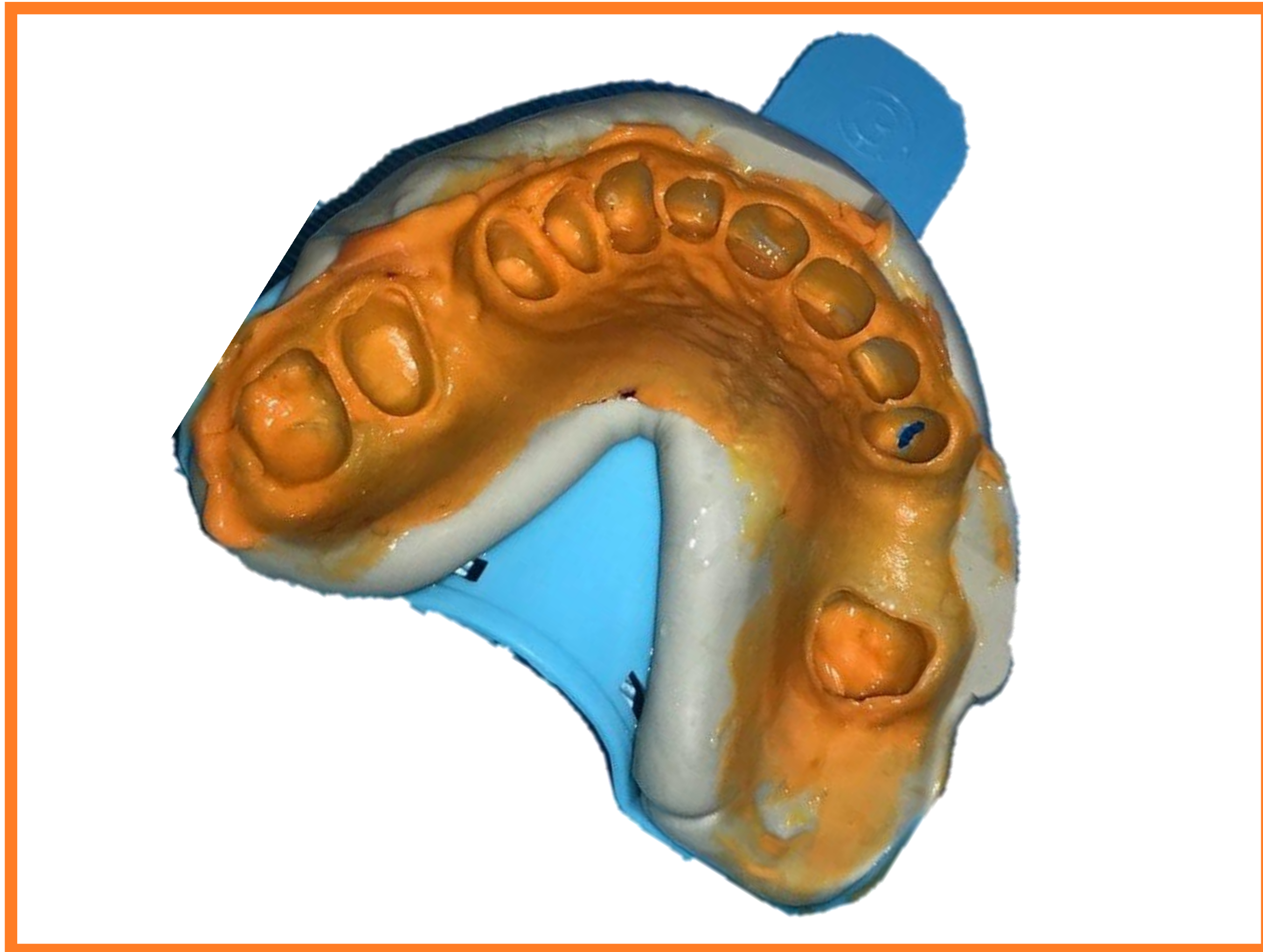
## PFM Bridges

- Upper right 5 X 7
- Metal Try-in



# Custom Made Post , Core And PFM Crown

- Upper right 5 X 7 PFM Bridges



# Custom Made Post , Core And PFM Crown

## PFM Bridges

- Shade selection



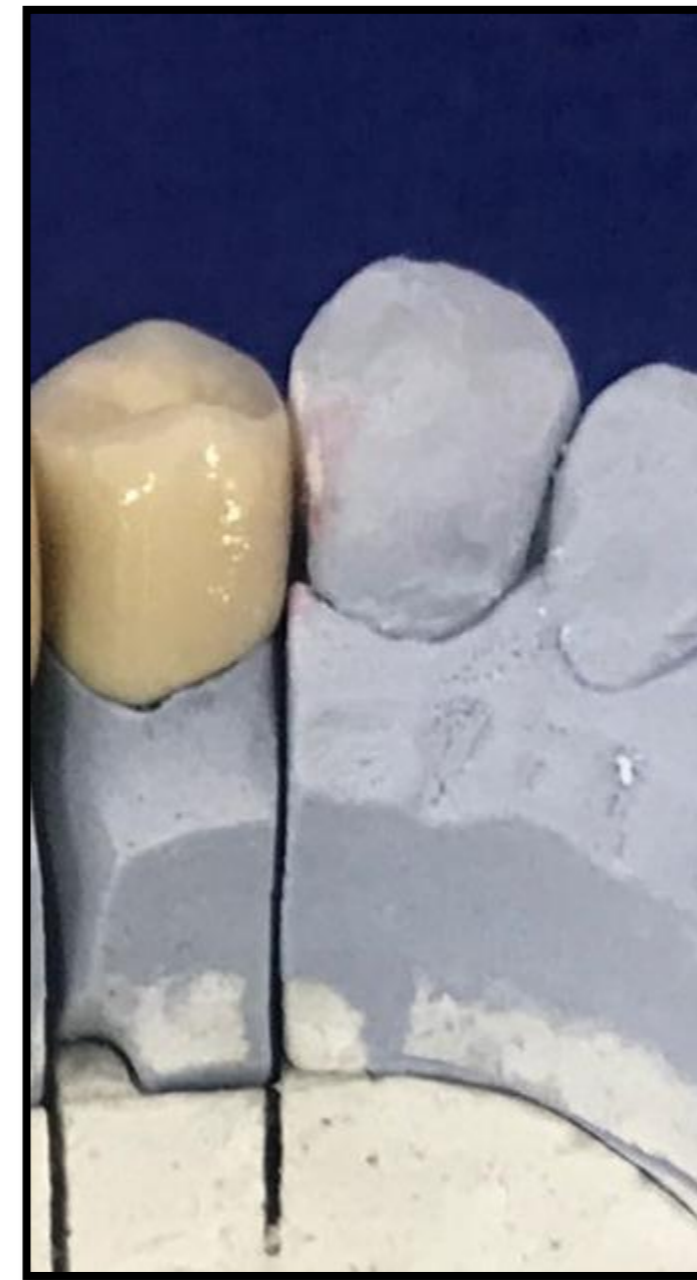
- Temporary Bridge



# Custom Made Post , Core And PFM Crown

## PFM Bridges

- **Upper right 4**
- Crown insertion with trial cementation



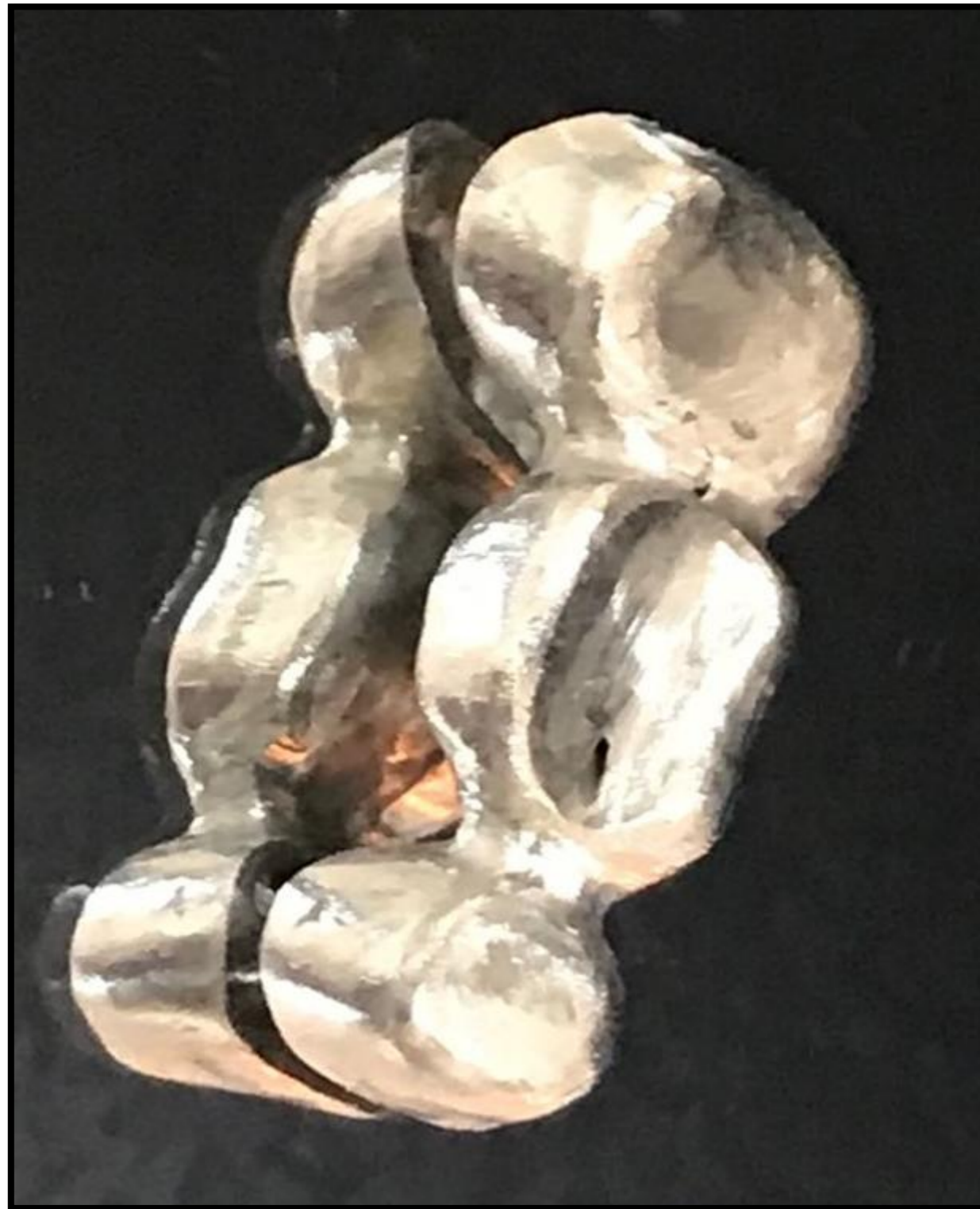
# PFM Bridges

- Upper right 5X7
- Temporary bridge



# PFM Bridges

- **Upper right 5 X 7**
- **Metal Try-in**



# PFM Bridges

- **Upper right 5 X 7**



# PFM Bridges

- **Upper right 5 X 7**
- Temporary bridge





# PFM Bridges

- **Upper right 5 X 7**
- **Metal Try-in**



# PFM Bridges

- **Upper right 5 X 7**
- Temporary bridge



# PFM Bridges

- **Upper right 5 X 7**
- **Bridge insertion**

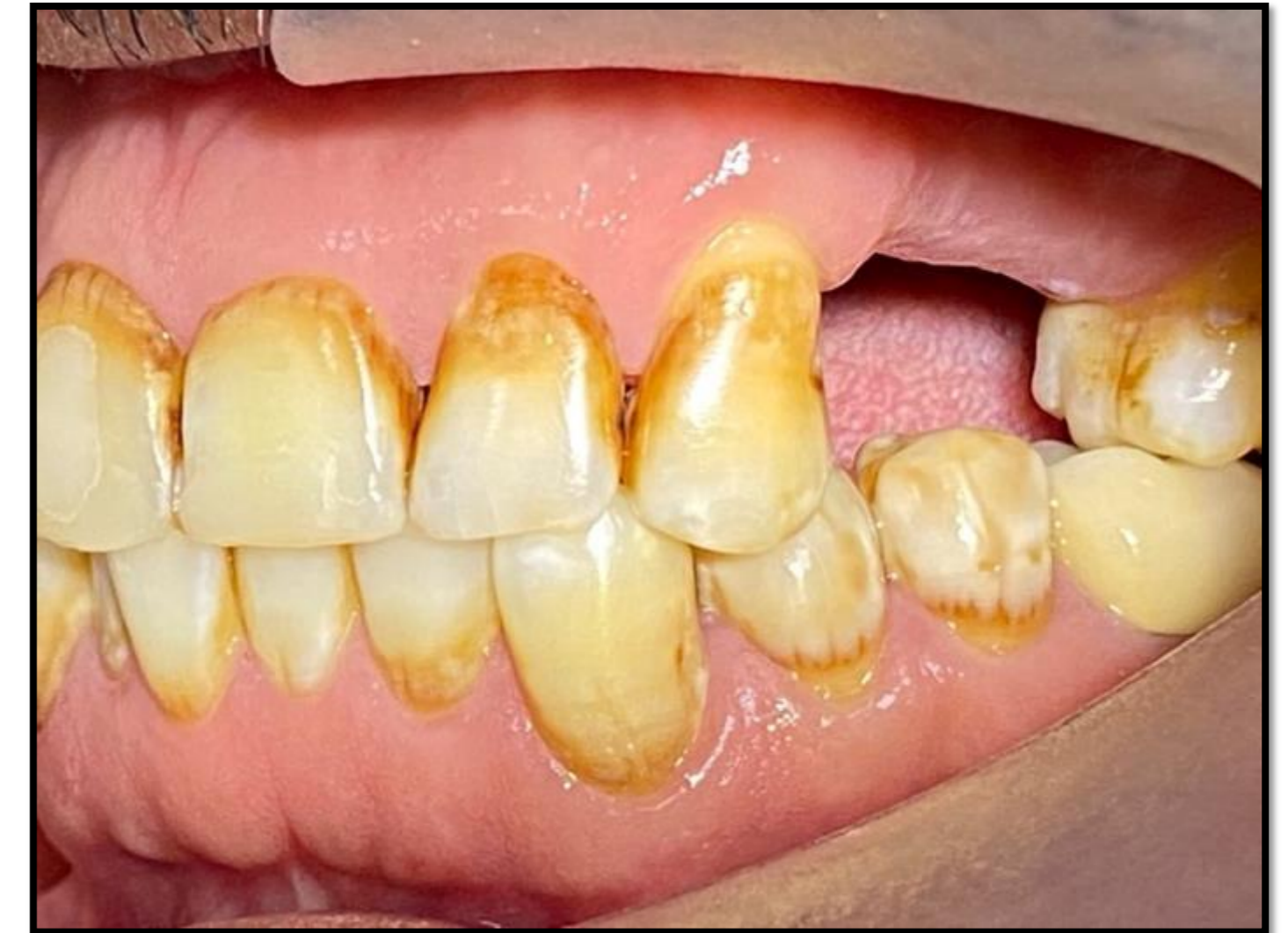


# PFM Bridges

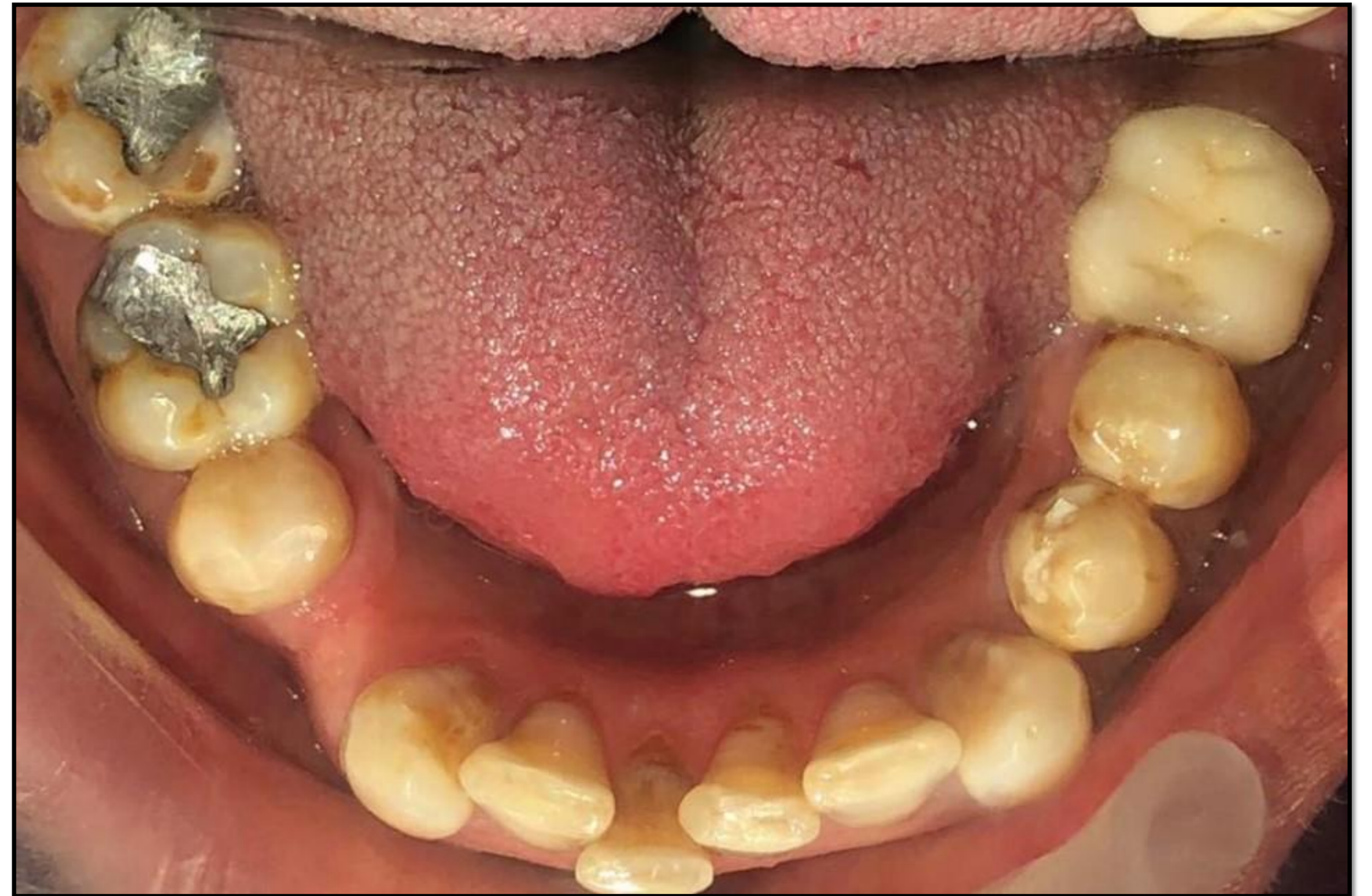
- **Upper right 5 X 7**
- **Final cementation**



# Post Operative Photographs



# Post Operative Photographs



# Before And After



# Before And After







***Thank You***

***For***

***Your Attention***