

Fixed partial denture design

.. Presented by

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Personal data

patient's name : mohammed faraj shteela

address : tripoli , znata

phone number :

age : 25

sex : male

occupation : engineer

marital status : single

financial status : good

Chief complain

- *He is complaining from difficult in mastication*



Medical history : patient is free from any medical history

Dental history : the patient has past dental care (restoration, extraction , local anesthesia)
all done without any complication

Clinical examination

Patient looks well

extra oral examination

facial symmetry : symmetrical

cervical lymph nodes : NAD

TMJ : no clicking no deviation no tenderness

Muscles of mastication : normal function

Lips : competent

Major salivary gland : NAD

Intra oral examination

Good oral hygiene and low caries index

no bad habits

class I normal occlusion

intra oral examination

Edentulous span

For the location and extent of edentulous area

It is considered as an ideal or minimally compromised edentulous area

Because it is confined to a single arch and only one molar and one premolar are missing ..

Intra oral examination



Intra oral examination



Intra oral examination



Prospective abutment

upper left 3,5,7 these teeth will serve as a abutments for the bridge design

Panoramic view



Dental Chart

<i>R</i>			<i>F</i>		<i>F</i>			<i>R</i>					<i>F</i>			<i>L</i>	
	8	7	6	5	4	3	2	1		1	2	3	x	5	x	7	8
	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8

x = missing

F = filling

R = resin bonded

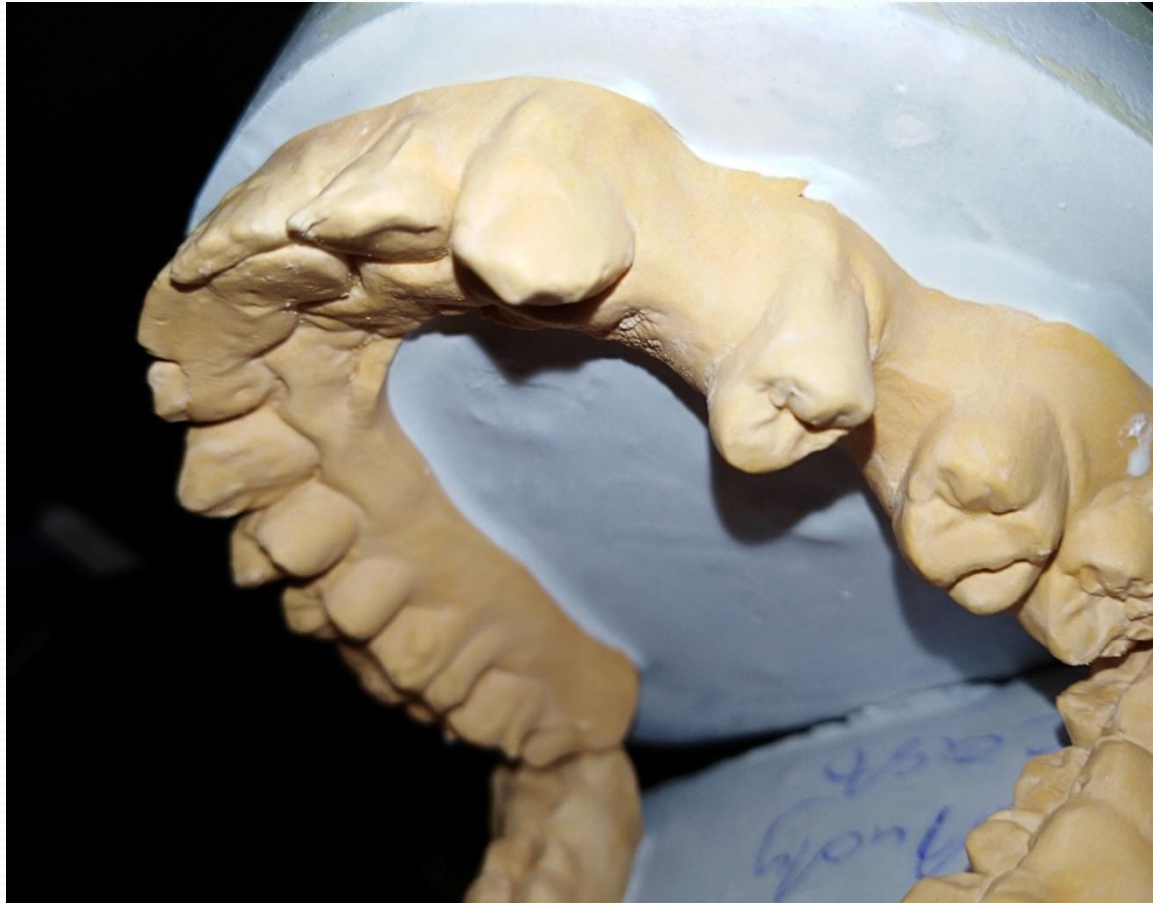
diagnostic cast



diagnostic cast



diagnostic cast

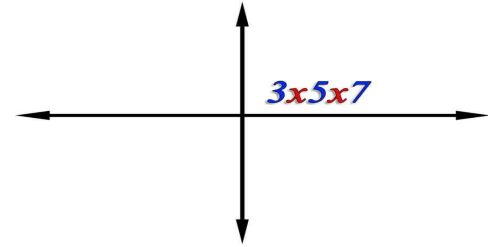


Treatment options

❖ *Dental implant*

❖ *Fixed partial denture*

❖ *removable partial denture*



Treatment plan for bridge design

Conventional fixed partial denture

abutments : upper left 3 5 7

retainers : full coverage crown

MCR .. For canine , second premolar and second molar

pontic : MCR (modified ridge lab)

type of connector : rigid

NOTES

In this case

we have a special problems

1 - pier abutment (the upper left second premolar) isolated tooth between two edentulous areas will serve as a fulcrum causing failure ..

Overall .. A five unit fixed partial denture is replacing the upper left 4 and 6

2 - Tilted molar

The treatment will depend on degree of tilting .. We found that the tilting is slight so it needs only recontouring the mesial surface of the third molar

Other available options

- A. Use of stress breaker non rigid connector between 5 and 6
key attached to 6
key way attached to 5*
- B. Use of fixed free (cantilever) on upper 4
as a four unit FPD design leaving the canine unprepared ..*
- C. Implant for the missing teeth 4 , 6 can be done*



Thank
you!!