

CD - CASE HISTORY

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Presented By:

Dr. Suneetha Rao Prof. & HOD Dept. Of Prosthodontics Vydehi Dental College

INTRODUCTION



PATIENT DEMOGRAPHICS



Patient demographics ...

NAME OF THE PATIENT:-

- Records
- Communication
- Patient confidence



Patient demographics ...

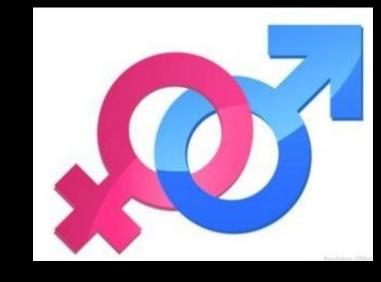
AGE :-



CHARACTERISTICS	YOUNG	ADULT
HEALTH	Good	Poor
TOLERANCE LEVEL	Good	Poor
ADAPTABILITY	Good	Poor
COORDINATION	Good	Poor
COMMUNICATION	Good	Poor
DURATION OF EDENTULISM (Periodontal Status)	Poor	Good
ESTHETIC DEMAND	More	Less

Patient demographics ...

SEX :-



FEATURES	MALE	FEMALE
DEMANDING	LESS	MORE
ESTHETICS	LESS	MORE
COMFORT & FUNCTION	MORE	LESS
DETERMINATION OF SIZE & SHAPE OF TOOTH	YES	YES

OCCUPATION AND SOCIAL POSITION:-





- Public appearances : { Artists, Singers, Actors, Speakers, Salesman, etc }
 - Appearance & Phonetics
- Tradesman, Mechanic, Labourers, etc
 - Functional efficiency

CHIEF COMPLAINT

COMMON COMPLAINTS

- Replacement of Missing teeth (for Esthetics, Phonetics, Function)
- Loose dentures
- Broken dentures
- Worn off dentures



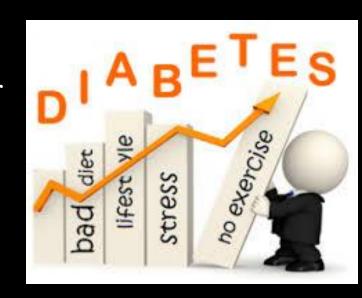
MEDICAL HISTORY





DIABETES

- Effect :-
 - Bony response to prosthesis stress is poor
 - Delayed Healing of tissues after trauma

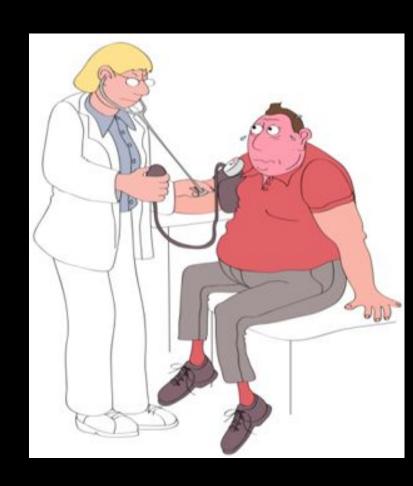


- Considerations :-
 - Alginate : Primary Impression
 - Silicone based impressions : Secondary Impressions

HYPERTENSION

- Effect :-
 - Surgical procedure (Implant Supported CD)
 - : Excessive bleeding
 - Anti hypertensive drugs
 - : Xerostomia (Dry Mouth)
- Considerations :-
 - 1) Controlled BP prior to surgery
 - 2) Xerostomia
 - Drink more water
 - Sialagogues

- Sucking on a lemon
- Liquid filled dentures



ASTHMA

• Effect :-

Anxiety / allergy induced asthamatic effect



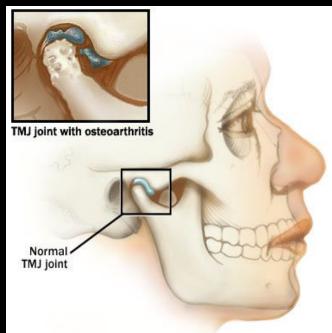
Considerations :-

- Lessen the time of dental treatment
- Gentle handling
- Medication should be carried with patient
- Dental materials prone to irritate should be kept away
 {Dust free alginate, Acrylic should not be trimmed nearby)



OSTEOARTHRITIS

- Effect :-
 - : Osteoarthritis of TMJ:
 - Limited mouth opening
 - Limited lateral movements



- Considerations:
 - Sectional impression trays
 - Sectional dentures



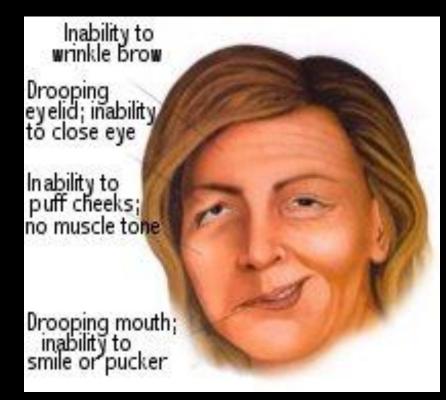


NEUROLOGICAL DISORDER

Bell's Palsy

- Temporary / permanent paralysis of the facial nerve

- Effect :-
 - : Drooping of the face and lip
 - : Inability to move the eye brow or eye-lid or to wrinkle the forehead

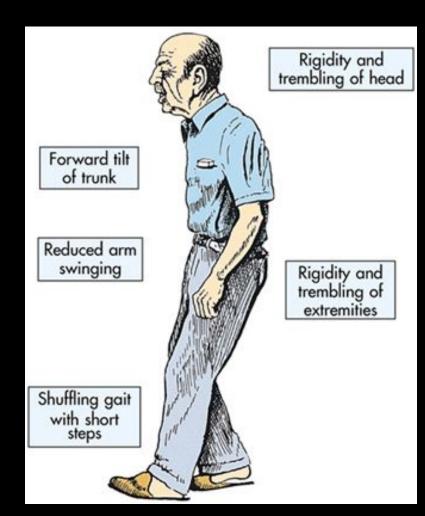




NEUROLOGICAL DISORDER

Parkinsonism

- Effect :-
 - Profuse salivation
 - Rhythmic tremor of muscles mastication
 - Altered speech





NEUROLOGICAL DISORDER

- Considerations :-
 - Short duration, morning appointments.



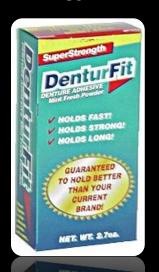


Monoplane teeth



Mouth props

High impact strength resin



Denture adhesives

PERSONAL HISTORY



Personal History ...

1) TYPE OF DIET:

- Vegetarian / Non vegetarian :
 - : Nutritional status



2) HABITS:

- Smoking : Smoker's palate, Dry mouth

- Tobacco chewing : OSMF, Lichen Planus, Leukoplakia

- Alcohol : Dehydration, Dry mouth

- Parafunction : Wearing away of acrylic teeth

Increased bone resorption

MENTAL ATTITUDE



De Van stated:-

"meet the mind of the patient before meeting the mouth of patient"

The House Classification:

1. PHILOSOPHIC



2. EXACTING



3. HYSTERICAL



4. INDIFFERENT



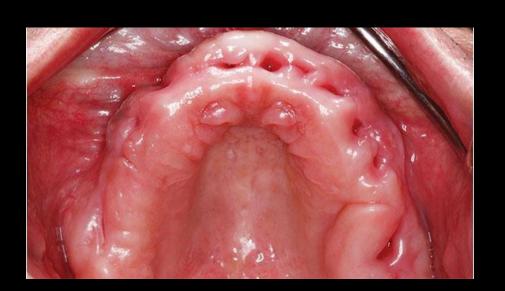
DENTAL HISTORY



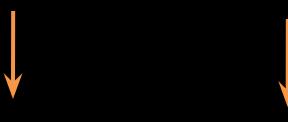
Dental history ...

1) REASON FOR LOSS OF TEETH:

- Caries Oral hygiene
- Periodontal Oral hygiene and Bone loss
- Trauma



2) SEQUENCE AND DURATION OF LOSS OF TEETH:



Pattern of Bone Resorption

Amount of Bone Resorption



Dental history ...

3) PREVIOUS DENTURES:

• Number - Psychological status

• Reason for replacement : (denture wearer)



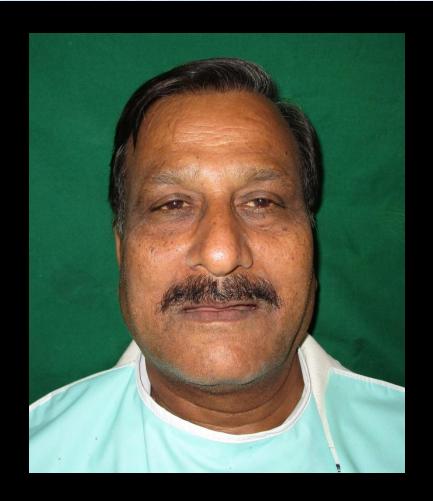
- Which area needs to be taken care off ...
 - : Esthetics, Phonetics, Mastication, Comfort, Retention

4) CURRENT DENTURE EVALUATION:

- Retention, stability and support
- Esthetics: Midline, Size, Shape, Colour, Alignment
- Phonetics
- Wearing pattern of acrylic teeth
- Denture extensions
- Vertical dimension
- Occlusal plane orientation
- Occlusion
- Characterization:
 - Acrylic color as per patient,
 - Rughae area
 - Alignment of teeth



EXTRA - ORAL EXAMINATION





FACIAL FORM

(Helps to determine the tooth form)

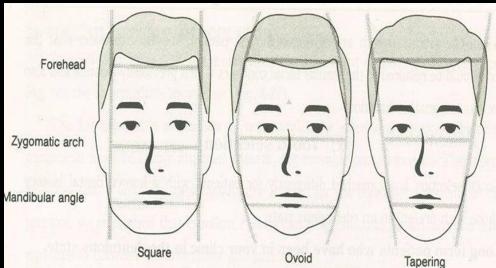


Square



Tapering

3



1



Ovoid



Square tapering



FACIAL PROFILE

The labial form of the anterior teeth should be similar to facial profile of the patient

Angle's classification:

П



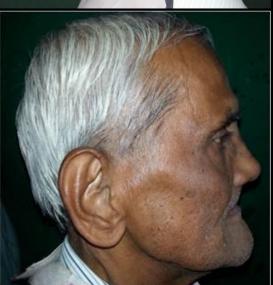
Class I:
Straight /
orthognathic

Class II : Retrognathic

Ш

Class III : Prognathic



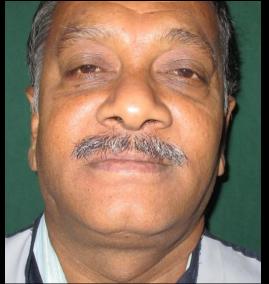




MUSCLE TONE

Muscle tone can affect the stability of the denture

House Classification



Class I:

Normal muscle tone and function



Class II

muscle function but slightly decreased muscle tone



Class III:

- Decreased muscle tone and function



LOWER 1/3rd

A) Facial height (lower 1/3rd):

- Normal Decreased
- Increased

B) Nasio - labial fold:

- Normal Prominent
- Obliterated

(determines the loss of vertical height)

C) Mento - labial fold:

- Prominent - Not prominent (Determines lower lip support)







LOWER 1/3rd

D) Inter - commisural width:

- Passive
- Active (while smiling)

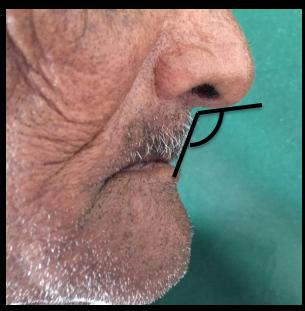
E) Corners of the mouth:

- Straight - Drooping (indicates loss of VD)



- Acute < 90 degree
- Straight = 90 degree
- Obtuse > 90 degree







LOWER 1/3rd

G) Wrinkles:

- Generalised (indicates ageing)
- Only around the mouth (loss of vertical support)

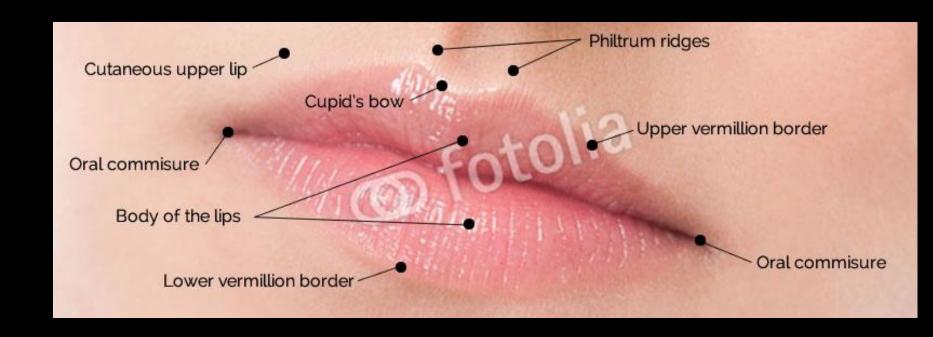






LOWER 1/3rd

H) Lip Examination:



Examined for:

- Health Support
- Length Mobility
- Thickness



LOWER 1/3rd

H) Lip Examination:

- i) Health of the Lips:
- Examined for:
 - : cracking fissuring at the corners ulceration

- Cause :
 - : Vitamin deficiency Infection (Candida)





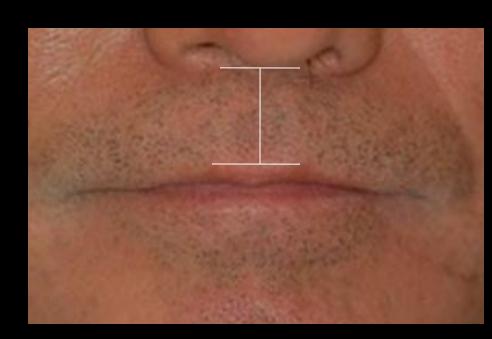
LOWER 1/3rd

H) Lip Examination:

ii) Lip Length:

Long - 26 – 36 mm Medium - 16 – 25 mm

Short -10-15 mm



A long lip reveals little of the anterior teeth.

A very short lip allows the display of the denture base.



LOWER 1/3rd

H) Lip Examination:

iii) Lip Thickness:



Significance:

- Anterior - posterior positioning of the anterior teeth



Thin & Short upper lip



Thick & Long upper lip



LOWER 1/3rd

H) Lip Examination:

iv) Lip support:



Unsupported



Adequately supported

- Lack of proper lip support
 - : Collapsed appearance & wrinkling
- The labio lingual position of anterior teeth help improve lip support

Extra - oral Examination ...

4

LOWER 1/3rd

H) Lip Examination:

v) Lib Mobility:

Class I : Normal

Class II : Reduced mobility

Class III : Paralysed



Class II



TMJ EXAMINATION

PAIN & RESTRICTED **MOVEMENT**

PALPATION

Lateral poles of Condyle palpated with **FINGERTIPS**

& patient asked to open & close

AUSCULTATION

USING: STETHOSCOPE

TMJ SOUND:

CLICK: A single sound

POP : Relatively loud

CREPITATION: Multiple gravel like

sound





Extra - oral Examination ...



NEUROMUSCULAR EVALUATION

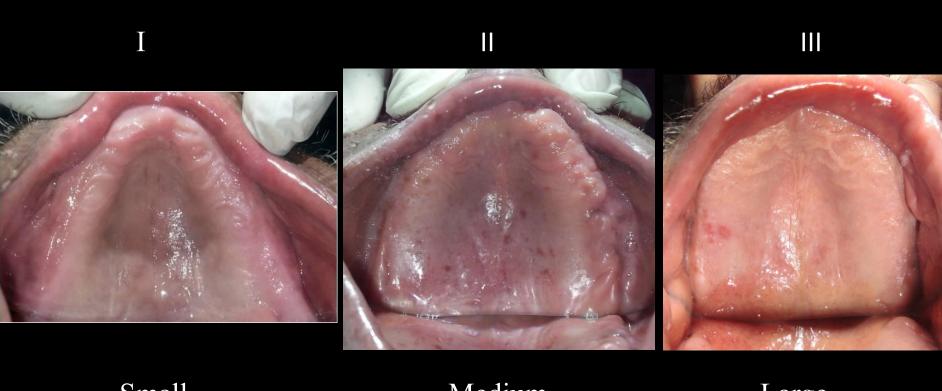
- Speech
- Muscle coordination

INTRA - ORAL EXAMINATION



1) MAXILLA:

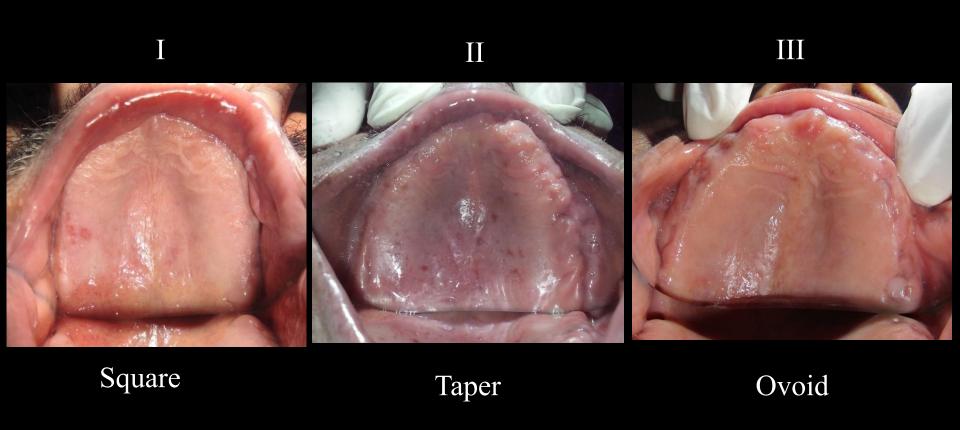
Maxillary arch SIZE



Small Medium Large

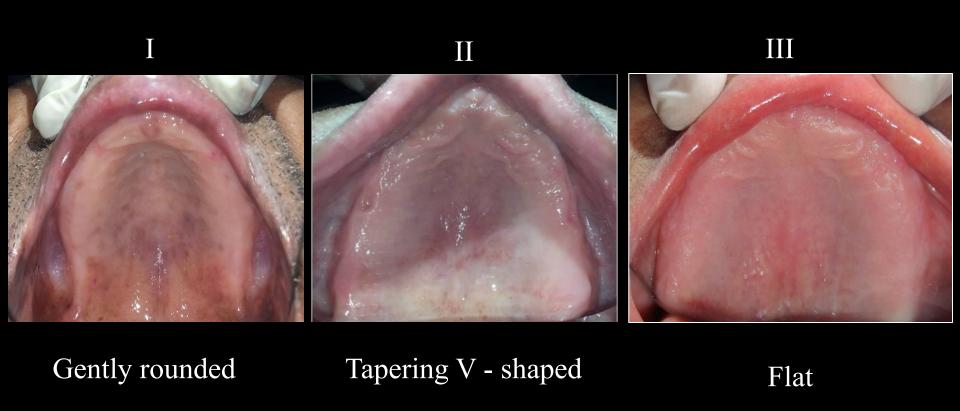
1) MAXILLA:

☐ Maxillary arch FORM



1) MAXILLA:

Residual alveolar ridge CONTOUR (cross section)



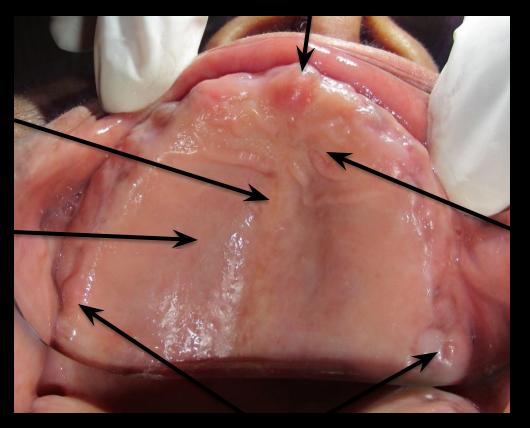
1) MAXILLA:

Palatal landmarks

Incisive Papilla (position & Prominence)

Mid – palatine raphe

Palatal vault : U / V / Flat

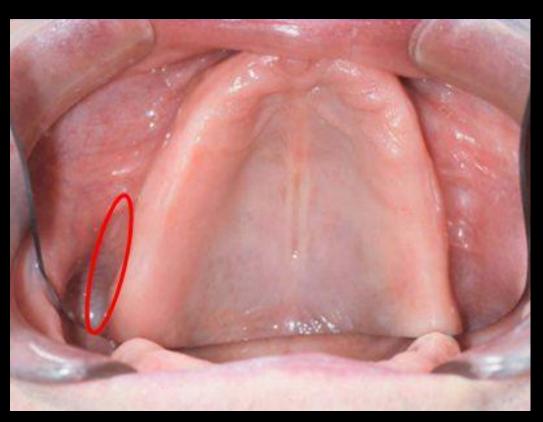


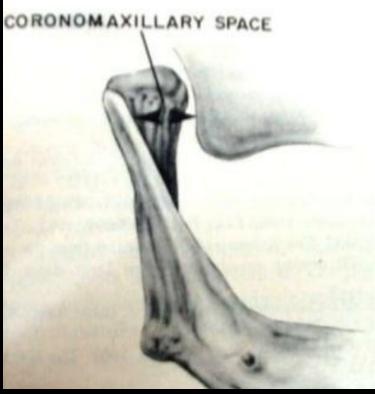
Rugae Area Prominence

Maxillary Tuberosity

1) MAXILLA:

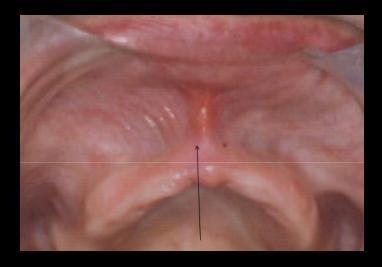
Corono maxillary Space





1) MAXILLA:

- ☐ Frenal attachment (House)
 - Class I (Low) : Located away from the crest of ridge
 - Class II (Medium) : Located near to the crest of ridge
 - Class III (High) : Encroaching the crest of ridge



(High frenum destabilizes the denture)

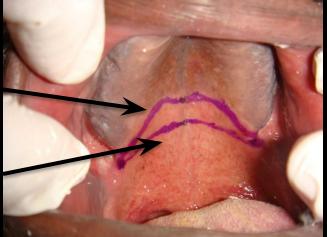
1) MAXILLA:

- Description Palatal Seal Area :
 - Extends from One Hamular notch to another



Anterior Vibrating
Line

Posterior Vibrating Line





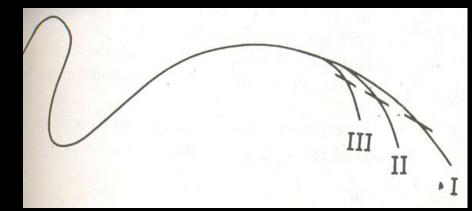
1) MAXILLA:

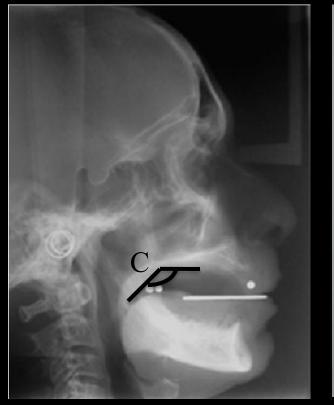
Palatal Throat Form:

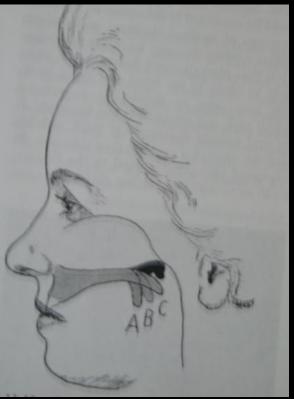
Class I : 10 •

Class II : 45°

Class III : 70^{\bullet}

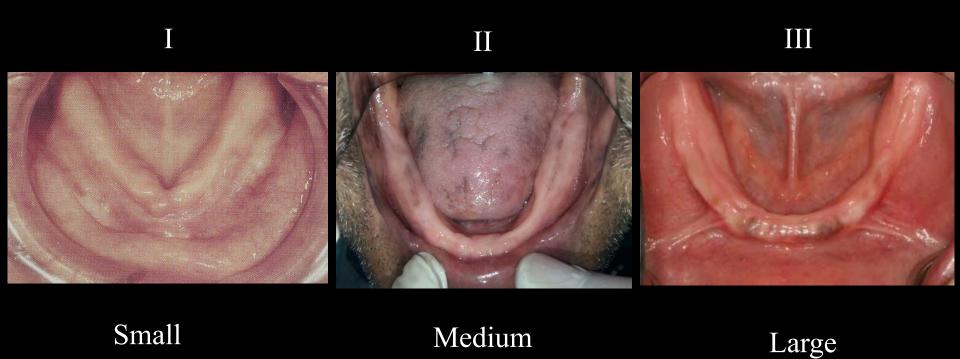






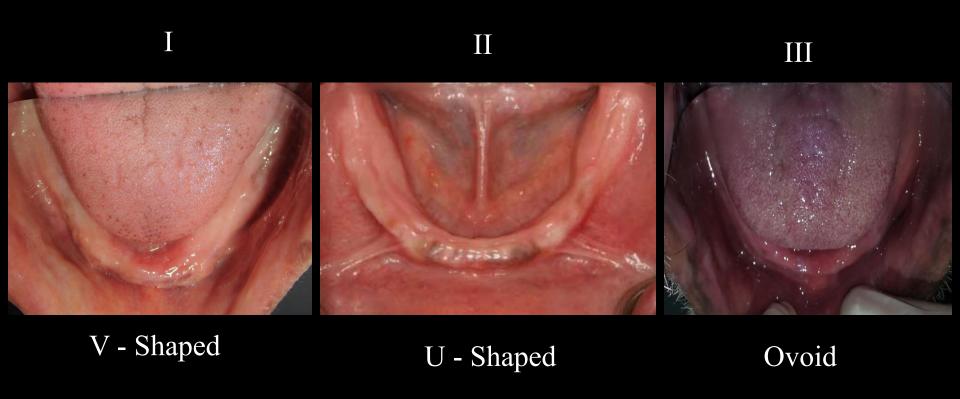
2) MANDIBLE :

Mandibular arch SIZE



2) MANDIBLE:

Mandibular arch FORM



2) MANDIBLE:

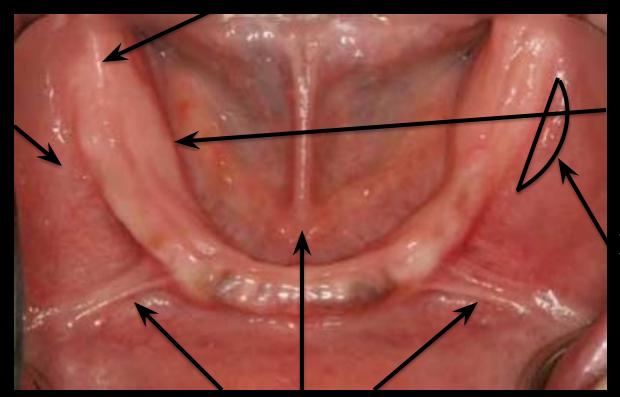
Alveolar ridge CONTOUR

High Well Rounded Knife Edge Resorbed

2) MANDIBLE:

Retromolar Pad

External Oblique ridge



Mylohyoid Ridge Prominence

Buccal Shelf Area

Frenal Attachment

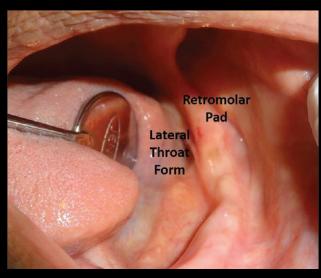
2) MANDIBLE:

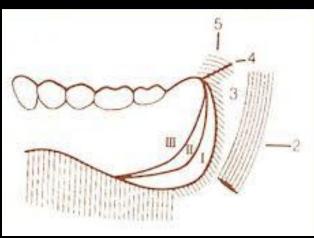
Lateral throat form :

Class I: Half inch / more

(from mylohyoid ridge to
bottom of retro – mylohyoid fold)

Class II : Less than half inch





Class III : Retromylohyoid fold at the level of Mylohyoid ridge

3) MUCOSA:

Healthy / Pathologic



4) SALIVA:

- Quantity
- Quality (Serous / Mucous / Mixed)
 - : Determines the retention of denture

5) TONGUE:

□ Size : (House)

I II III

Normal Microglossia Macroglossia

5) TONGUE:

D Position : (Wright)

Class I - Tipped forward

Class II - Tongue flattened & broadened

Class III - Tongue retracted & depressed Tip curled upwards

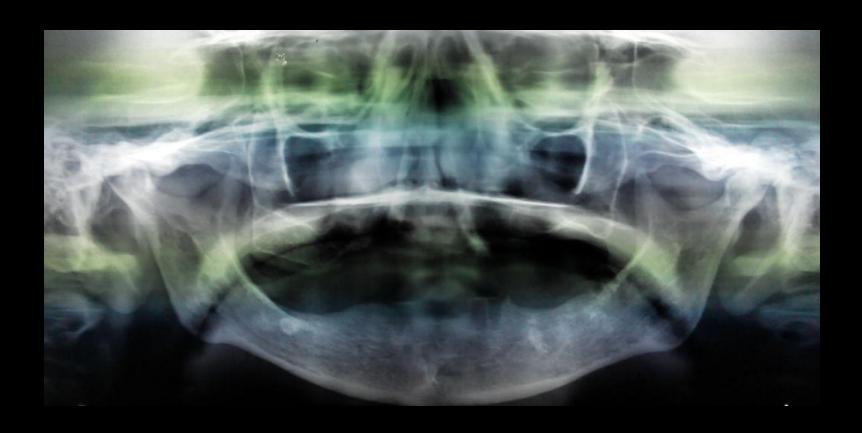
I II







INVESTIGATION



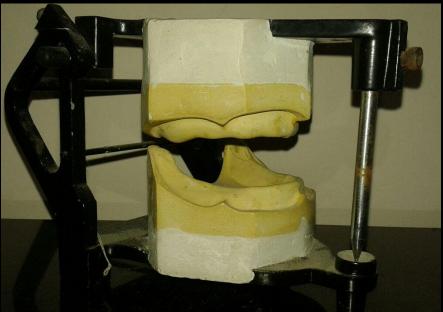
Investigation ...

1.

DIAGNOSTIC MOUNTING

- : Ridge relation ... Class l, II, III
- : Ridge parallelism
- : Inter arch distance
- : Palatal vault configuration, Incisive papilla position



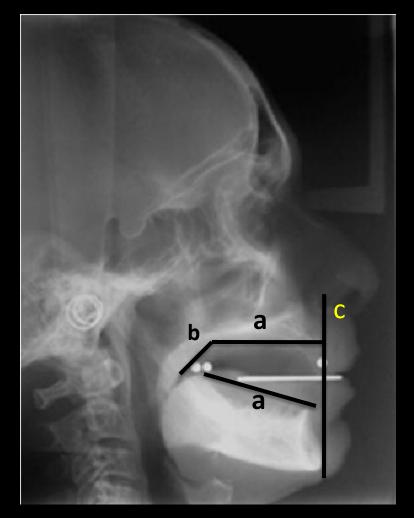


Investigation ...

2.

RADIOGRAPHIC INVESTIGATION

Lateral cephalograph



Ridge parallelism (a)

Soft palate angulation (b)

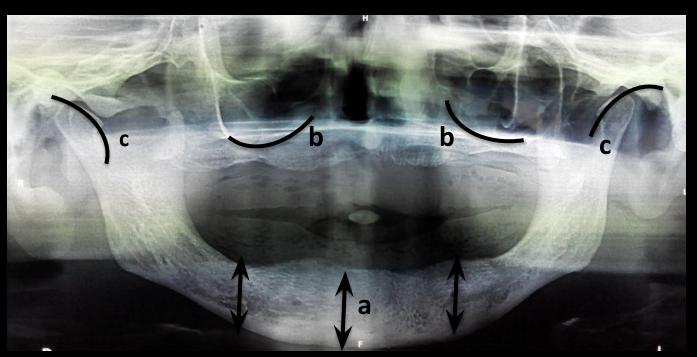
Maxillo – mandibular relationship (c)



RADIOGRAPHIC INVESTIGATION

OPG

- Evaluate the mandibular bone height (a) bone quality and any other abnormalities
- Maxillary sinus (b)
- TMJ (c)



DIAGNOSIS ... ACP classification

Criteria for classification:

Prosthodontic Diagnostic Index (PDI Index)

- 1) Mandibular bone height: From OPG
- Maxillo-mandibular relationship : From lateral cephalograph / diagnostic mounting
- 3) Maxillary residual ridge morphology: Intra oral examination
- 4) Muscle attachments: Intra oral examination

Class I

- Mandibular bone height : 21mm / greater
- Ridge morphology: Maxilla
 - Type A: Resists vertical & horizontal
 - Good hamular notch, No tori
- Muscle Attachment : Mandibular
 - Type A: Adequate attached mucosa
 - Type B: No buccal attached mucosa
- Maxillomandibular Relationship: Class I



Class II

- Mandibular bone height : 16 20 mm
- Ridge morphology: Maxilla
 - Type B: No buccal vestibule
 - Poor hamular notch, No tori
- Muscle Attachment : Mandibular
 - Type A: Adequate attached mucosa
 - Type B: No buccal attached mucosa
- Maxillomandibular Relationship: Class I



Class III

- Mandibular bone height : 11 15 mm
- Ridge morphology: Maxilla
 - Type C: No anterior vestibule
 - Mobile anterior ridge
- Muscle Attachment : Mandibular
 - Type C: No anterior & buccal vestibule
- Maxillomandibular Relationship : Class II / III



Class IV

- Mandibular bone height : 10mm / less
- Ridge morphology: Maxilla
 - Type D: No ant / post vestibule

Tori, Reductant tissue

- Muscle Attachment : Mandibular
 - Type D: Attached mucosa in Posterior only
 - Type E: No attached mucosa, Cheek / lip moves tongue
- Maxillomandibular Relationship : Class II / III



Prosthodontic Diagnostic Index(PDI) Classification System									
Prosthodontic Diagnostic Index Complete Edentulism Checklist									
		3	Class I	Class II	Class III	Class IV			
Bone Height-Mandibular	-					0.000			
20110 Frongisco	21 mm or greater								
	16-20 mm								
	11-15 mm								
	10 mm or less								
Ridge Morphology-Maxilla		2							
	Type A-resists vertice	al & horizontal, hamular notch, no tori							
(s)	Type B-no buc vest,								
9	Type C-no ant vest,	Type C-no ant vest, min support, mobile ant ridge							
	Type D-no ant/post vest, tori,redundant tissue								
Muscle Attachments-Mandib	Muscle Attachments-Mandibular								
· ·	Type A-adequate attached mucosa								
	Type B-no b attach mucosa (22-27), +mentalis m			20 CM (1800 CM					
	Type C-no ant b&l vest (22-27), +genio & mentalis m								
	Type D-att mucosa in post only								
en la financia del Control de la control de	Type E-no att mucosa, cheek/lip moves tongue								
Maxillomandibular Relationships									
Class I		Ti ii							
	Class II								
	Class III	40							
Conditions Requiring Preprosthetic Surgery		2 5- 102							
	Minor soft tissue pro								
	Minor hard tissue pr	ocedures							
	Implants - simple								
	Implants with bone graft - complex								
	Correction of dentofa								
	Hard tissue augmen								
	Major soft tissue rev	isions							

	major con accas romotor.	10				0
Limited Interarch Space						
50	18-20 mm					
Note that the second se	Surgical correction need	ed				
Tongue Anatomy	7 V V V V V V V V V V V V V V V V V V V	0.000				
y a constant of the constant	Large (occludes interden					
2000	Hyperactive- with retract					
Modifiers						
	Oral manifestation of sys					
8	Mild					
	Moderate					
	Severe					
	Psychosocial					
	Moderate					
	Severe					
	TMD Symptoms					
,	Hx of paresthesia or dys					
	Maxillofacial defects					
6	Ataxia					
9	Refractory Patient					
ICD-9-CM Diagnostic Codes			525.41	525.42	525.43	525.44
Guidelines for use of the w	<u>orksheet</u>					
 Any single criterion of a 						
Initial preprosthetic treat						
3. In the situation where the		1				
		with the appropriate classification				

Subjective:

- What patient tells: complaint, history, expectations

Objective:

- What we see: extra - oral and intra - oral examination

Assessment:

- List of problems or diagnosis

Plan:

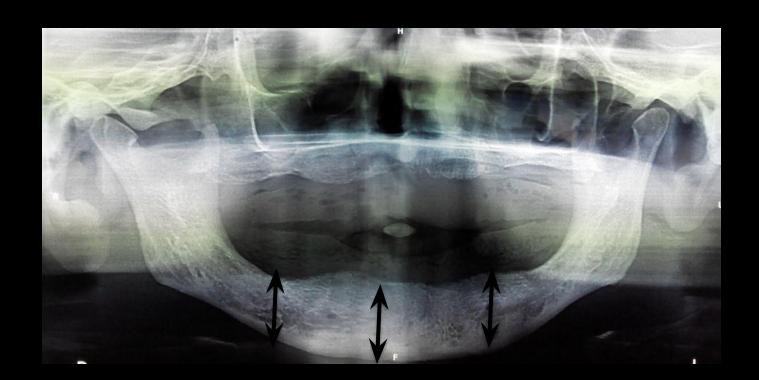
- Treatment options and the sequence of treatment

TREATMENT OPTIONS :- (Bone height, quality, limiting structures)

- Implant retained fixed CD
- Implant overdenture

- Conventional CD

(Implant & Tissue supported)



TREATMENT OPTIONS :-

- Implant retained fixed CD



TREATMENT OPTIONS :-

Implant overdenture (Implant & Tissue supported)





SOAP SUMMARY

TREATMENT OPTIONS :-

- Conventional CD

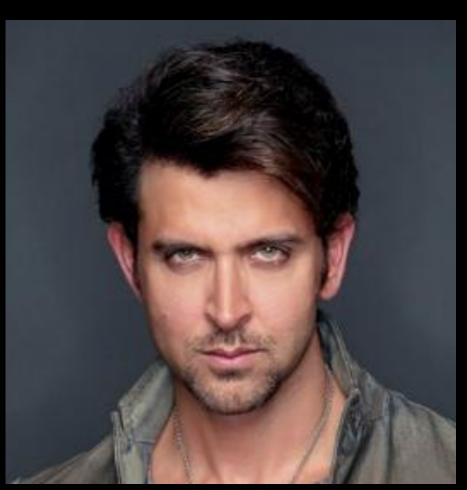














A



FRONTAL VIEW OF FACE

FORM - OVOID

SYMMETRY - ASYMMETRICAL

MUSCLE TONE - CLASS I

EYE COLOUR - BROWNISH BLACK

HAIR COLOUR - BLACK

B



FRONTAL VIEW OF FACE

FORM - SQUARE TAPERING

SYMMETRY - NOT ASYMMETRICAL

MUSCLE TONE - CLASS III

EYE COLOUR - BROWNISH BLACK

HAIR COLOUR - BLACK

C



FRONTAL VIEW OF FACE

FORM - OVOID

SYMMETRY - SYMMETRICAL

MUSCLE TONE - CLASS I

EYE COLOUR - BLACK

HAIR COLOUR - BLACK

D



FRONTAL VIEW OF FACE

FORM - TAPERING

SYMMETRY - SYMMETRICAL

MUSCLE TONE - CLASS II

EYE COLOUR - BLACK

HAIR COLOUR - BLACK



FRONTAL VIEW OF FACE

FORM - OVOID

SYMMETRY - SYMMETRICAL

MUSCLE TONE - CLASS II

EYE COLOUR - BLACK

HAIR COLOUR - GREY

F



LOWER 1/3RD OF FACE

NASOLABIAL FOLDS - PROMINENT

CORNERS OF MOUTH - SLIGHTLY DROOPING

WRINKLES AROUND MOUTH
- LESS PROMINENT

LIP LENGTH - LONG

LIP COMPETENCE - COMPETENT

LIP THICKNESS - MEDIUM

G



LOWER 1/3RD OF FACE

NASOLABIAL FOLDS

- LESS PROMINENT

CORNERS OF MOUTH

- DROOPING

WRINKLES AROUND MOUTH

- NOT PROMINENT

LIP LENGTH - MEDIUM

LIP COMPETENCE - COMPETENT

LIP THICKNESS - THIN

H



LATERAL VIEW

MAXILLO-MANDIBULAR RELATION - CLASS I

CHIN PROMINENCE
- NOT PROMINENT



LATERAL VIEW LOWER 1/3rd

COLUMELLA PHILTRUM ANGLE - OBTUSE

LIP SUPPORT - SLIGHTLY SUPPORTED

MENTOLABIAL SULCUS - NOT PROMINENT

CORNERS OF MOUTH - DROOPING

MAXILLARY ARCH

SIZE - MEDIUM

FORM - SQUARE

CONTOUR - HIGH WELL ROUNDED

INCISIVE PAPILLA - NORMAL

MID PALATINE RAPHAE - NOT PROMINENT

RUGHAE - NORMAL

MAXILLARY TUBEROSITY - SLIGHTLY RESORBED



MAXILLARY ARCH

K

SIZE - LARGE FORM - SQUARE CONTOUR - WELL ROUNDED

INCISIVE PAPILLA - NORMAL

MID PALATINE RAPHAE - PROMINENT

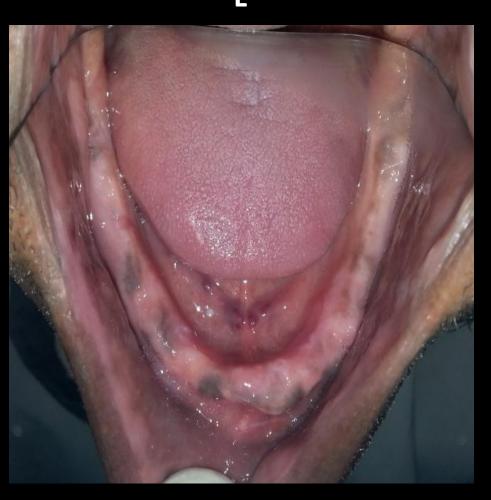
RUGHAE - NORMAL



MAXILLARY TUBEROSITY - WELL FORMED

MUCOSAL HEALTH - HEALTHY

MANDIBULAR ARCH



SIZE - MEDIUM

FORM - U SHAPED

CONTOUR - HIGH WELL ROUNDED

RETROMOLAR PAD - NORMAL

TONGUE SIZE - SMALL

TONGUE POSITION - CLASS II

MUCOSAL HEALTH - HEALTHY

MANDIBULAR ARCH

M



SIZE - MEDIUM

FORM - U SHAPED

CONTOUR - HIGH WELL ROUNDED

RETROMOLAR PAD - SLIGHTLY RESORBED

TONGUE SIZE - NORMAL

TONGUE POSITION - CLASS I

MUCOSAL HEALTH - HEALTHY

MANDIBULAR ARCH



Size - Medium

Form - U Shaped

Contour - Anteriorly High Well Rounded; Posteriorly Resorbed

Retromolar Pad - Resorbed

Tongue Size - Macroglossia

Tongue Position - Class I

Mucosal Health - Healthy

CONCLUSION

- Diagnosis in complete dentures is a continuing process and is not accomplished in a short time.
- It is a difficult task to master the skills necessary to construct a complete denture; it is equally as challenging to acquire the skills necessary to treat the patient as a whole.

CONCLUSION

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CONCLUSION

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