Post insertion problems in complete denture

Loss of natural teeth &subsequent alveolar resorption has a significant impact on appearance &function. CD fabrication techniques, &placement of a CD are not the final steps in the treatment of a dentulous patients &patient's visit to the dentist continues long after that.

Post insertion problem classification:

- ¹. Problem related to soft tissue.
- γ . Problem related to function.
- \mathcal{T} . Problem related to aesthetic.
- ξ . Problem related to phonetic.

Problem related to	soft tissue		
Sore spots- mandible			
Complains/area	Causes	Treatments	
Peripheral areas	V.Over extension	Adjust denture accordingly	
	۲.Unpolished or sharp edge	Polish denture borders	
	^v .herpetic or aphthous ulcer	Leave denture out as much as	
		possible & wait \vee - \cdot days.	
Crest of ridge	۱.bone spicules.	Identify the area in denture with	
		PIP & provide relief over spicule	
		&/or surgically remove spicule.	
	۲.spinous ridge crest	Provide relief in the denture.	
	^v .pressure spots at time of	Use PIP or indelible pencil to	
	impression.	determine the areas& adjust	
		accordingly	
	٤.occlusal prematurities.	Correct occlusal defects, recheck	
		vertical dimension &clinical	
		remount.	
Side of ridge-	1.over extension	Use PIP & adjust border involved	
anterior area	۲.maximium intercuspation not	Enlarge centric area; grind mesial	
	in harmony with centric relation	inclined planes of maxillary teeth&	
	(CR)	distal inclined planes of	
		mandibular teeth using a clinical	
		remount.	

Side of ridge-	\.lingual tori (nonyielding areas)	Provide adequate relief in denture	
bicuspid area		base.	
	y.pressure spots at time of	Adjust denture accordingly.	
	Impression		
	r.shrinkage of denture during	Rebase denture	
	processing		
	² .errors in occlusion- occlusal	Check occlusion on the opposite	
	prematurities.	side of arch from the sore spot.	
	°.pressure on mental foramen if	Provide adequate relief.	
	ridge is greatly resorbed.		
Under lingual	Maximum intercuspation not in	Enlarge centric area &adjust local	
flange	harmony with CR (drives	area.	
	mandibular denture forward)		
Under labial flange	excessive overbite	Adjust anterior occlusion	
	۲.habit-mastication in protrusive	Train patient to masticate in	
	relation.	centric.	
Generalized	\.heavy biting force-strong	Reduce buccolingual width of	
soreness &redness	musculature.	teeth; reduce VD;use soft lining if	
		necessary	
	۲.excessive OVD	Reduce VD	
	".locked occlusion	Enlarge centric area.	
	[£] .failure to provide freedom for	Reduce cusps to a non-anatomic	
	Bennett movement (soreness	plane or reset teeth.	
	usually on working side).		
	°.Improperly processed base	Rebase denture.	
	materials		
Sore spots- maxilla			
Complains/area	Causes	Treatments	
Peripheral areas	Image: Notest end of the second sec	Adjust denture accordingly	
-	Y.Unpolished or sharp edge	Polish denture borders	
	".herpetic or aphthous ulcer	Leave denture out as much as	
		possible &wait ∨- \ • days.	
Maxillary frenum	Over extension	Open a V-shaped notch for the	
		labial frenum & widen the buccal	
		frenum area	
Posterior border of	Sharp edge at the post dam area	Adjust sharp edge slightly without	
denture		reducing dam area	
Midline of denture	Prominent mid suture or torus	Provide some relief over the area	
	maxillaries		

1.improper occlusion			Correct occlusion (clinical reline)
۲.maximum intercus	pation not in harn	nony with CR	Enlarge centric area(clinical reline)
۳.excessive OVD			Reduce VD(clinical reline)
Burning sensation			
Maxillary anterior	Pressure on a	anterior palatine	Relief area over foramen
hard palate &ant.	foramen		
alveolar ridge area			
Maxillary bicuspid	Pressure on p	osterior palatine	Relief area over foramen
area or molar	foramen		
tuberosity			
Mandibular anterior	Pressure on mer	ntal foramen	Relief area over foramen
region			
Generalized	Improperly proc	cessed	Reline denture; replace as much as
			possible base material with new
			acrylic
Tongue	Allergic reaction	n/xerostomia	Treated according to the cause
Redness			
Fiery redness-all	Denture base	allergy (very	Remake denture and use all metal
tissue contacted by	unusual)		base (after allergy test).
denture including			
tongue &cheeks			
Bearing tissues	Ill-fitting dentur	e, avitaminosis	Remake or rebase dentures.
	-		Employ vitamin therapy regimen.
Tongue &cheek biti	ng		
Thin or under extended periphery		Build out thin are	eas, or extend the short periphery.
(base material does not provide			
enough support for th	ne cheek)		
Insufficient inter-arch clearance		Thin maxillary denture over tuberosity; if more space	
between distal parts of denture base.		is required, remove it from the retromolar area of the	
_		mandibular denture.	
Inadequate amount of horizontal		Re-contour buccal surface of mandibular molars	
overlap in molar region.		&bicuspid eliminate the tight contact of the max.	
		buccal cusps on the mand. buccal surface.	
Pain in TMJ			
Insufficient OVD		Increase OVD	
maximum intercuspation not in		Make new occlusal record, regrind & remount	
harmony with CR		occlusion.	
Arthritis		Treat with analge	esic
Trauma		Treat with analge	esic
Gagging			

Immediately upon	1.max. denture over extended or			just denture or thin posterior
insertion	too thick in posterior border.			rder.
	۲.lack of retention			line denture.
	".Mand. denture too thick in		Re	duce thickness or distolingual
	distolingual flange.			nge.
Delay (Yweeks-Y	\.incomplete	border seal	Inc	crease border seal with self-
months after	allowing saliva under denture.			ring acrylic resin (possibly at the
insertion)	C			sterior palatal border)
	Improper occlusion causing			rrect occlusion (clinical
	denture to loos	sen & allowing	ren	nount).
	saliva under den	ture.		
Deafness				
Excessive OVD		Reduce OVD		
Fatigue of the musc	les of masticatio	n		
Excessive OVD		Reduce OVD		
Insufficient OVD		Increase OVD		
Problems related t	o function			
Instability				
Complains/area	Causes		Tr	eatments
Looseness of	<i>\.errorrs in occl</i>	usion (maximum	Co	rrect faulty occlusion by
	intercuspation not in harmony			• •
mandibular denture	intercuspation i	not in harmony	ren	nount & regrind procedure.
mandibular denture	intercuspation 1 with CR)	not in harmony	ren	nount & regrind procedure.
mandibular denture	intercuspation with CR) Y.occlusion plan	not in harmony	ren Re	nount ®rind procedure.
mandibular denture	intercuspation with CR) Y.occlusion plan Y.under extension	not in harmony he too high on of periphery	ren Re Re	nount & regrind procedure. set teeth at a lower plane. base denture providing proper
mandibular denture	intercuspation 1 with CR) Y.occlusion plan W.under extension (inadequate imp	not in harmony he too high on of periphery ression).	ren Re Re ext	nount & regrind procedure. set teeth at a lower plane. base denture providing proper rension.
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extension (inadequate implication) £.inability of p	not in harmony le too high on of periphery ression). atient to master	ren Re Re ext	nount & regrind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extension (inadequate implication) £.inability of p denture.	not in harmony he too high on of periphery ression). hatient to master	ren Rei ext Us dev	nount & regrind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imposed f.inability of p denture.	not in harmony le too high on of periphery ression). atient to master	Re Re ext Us dev (fo	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only).
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate impl £.inability of p denture.	not in harmony le too high on of periphery ression). atient to master ition (retracted	Re Re ext Us dev (fo	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients train
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. O.Tongue post tongue)	not in harmony le too high on of periphery ression). Patient to master ition (retracted	ren Re ext Us dev (fo con the	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rrected by having patients <u>train</u> emselves to place their tongue
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. o.Tongue post tongue)	not in harmony le too high on of periphery ression). atient to master ition (retracted	Rei Rei ext Usi dev (fo con the over	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rrected by having patients <u>train</u> emselves to place their tongue er the groove on the lingual
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. o.Tongue post tongue)	not in harmony he too high on of periphery ression). hatient to master ition (retracted	Re Re ext Us dev (fo con the ove	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients <u>train</u> emselves to place their tongue er the <u>groove</u> on the lingual face of the denture
mandibular denture	intercuspation 1 with CR) ⁷ .occlusion plan ⁷ .under extensi (inadequate imp ⁴ .inability of p denture. ^o .Tongue post tongue)	not in harmony le too high on of periphery ression). atient to master ition (retracted under extension	rem Ref ext Use dev (fo con the ove sur in	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). trected by having patients <u>train</u> emselves to place their tongue ter the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic
mandibular denture Looseness of maxillary denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. o.Tongue posi tongue)	not in harmony le too high on of periphery ression). atient to master ition (retracted under extension some area	ren Re ext Us dev (fo con the ove sur in	set teeth at a lower plane. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rrected by having patients <u>train</u> mselves to place their tongue er the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with
mandibular denture Looseness of maxillary denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. Occasionally	not in harmony le too high on of periphery ression). Patient to master ition (retracted under extension some area	ren Re ext Us dev (fo con the ove sur in	set teeth at a lower plane. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rrected by having patients <u>train</u> emselves to place their tongue er the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with compound for diagnostic
mandibular denture Looseness of maxillary denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate impletion in the second time in the second	not in harmony le too high on of periphery ression). atient to master ition (retracted under extension some area	Rei Rei ext Usi dev (fo cor the ove sur in	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients <u>train</u> emselves to place their tongue ter the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with compound for diagnostic purpose.
mandibular denture Looseness of maxillary denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. Occasionally	not in harmony le too high on of periphery ression). batient to master ition (retracted under extension some area Faulty occlusion	ren Re ext Us dev (fo con the ove sur in	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients <u>train</u> emselves to place their tongue er the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with compound for diagnostic purpose. Correct occlusion
mandibular denture Looseness of maxillary denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. •.Tongue post tongue)	not in harmony te too high on of periphery ression). atient to master ition (retracted under extension some area Faulty occlusion Overextension	rem Re ext Us dev (fo con the ove sur in	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients <u>train</u> mselves to place their tongue er the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with compound for diagnostic purpose. Correct occlusion Adjust denture accordingly.
mandibular denture	intercuspation 1 with CR) Y.occlusion plan Y.under extensi (inadequate imp £.inability of p denture. o.Tongue post tongue)	not in harmony le too high on of periphery ression). atient to master ition (retracted under extension some area Faulty occlusion Overextension peripheries	ren Re ext Us dev (fo con the ove sur in	nount ®rind procedure. set teeth at a lower plane. base denture providing proper tension. e denture adhesives to help velop skill in handling denture r a short time only). rected by having patients <u>train</u> mselves to place their tongue er the <u>groove</u> on the lingual face of the denture Correct with self-curing acrylic resin; first check with compound for diagnostic purpose. Correct occlusion Adjust denture accordingly.

	tissue due to	
	alcoholism	
	Displacement of	Correct surgically; modify
	flabby tissues when	impression technique to change
	making impression	primary denture stress-bearing
		area to the buccal shelf.
When eating	Nonyeilding area in	Provide relief chamber over
on either sides	hard palate (ridge	non yielding area.
	tissue yields under	
	chewing stresses;	
	denture rocks on	
	hard area).	
	Incorrect tooth	Rebalance in lateral
	position (teeth may	excursions; reset teeth where
	be set too far	natureshould have had them.
	buccally off ridge).	
	Chewing resistant	Instruct patient to maintain soft
	food	diet until mouth is conditioned
		to wearing denture.
Approximately	Heavy mucinous	Prescribe astringent mouth
every ^v hours	saliva	washes & regular scrubbing of
		denture; reduction of
		carbohydrate.
	Incorrect tooth	Correct surgically; change
	position (teeth may	primary denture stress-bearing
	be set too far	area to the buccal shelf.
	buccally &labially	
	Improper incising	Train patient to masticate in
	habits	CR.
When	Denture base too	Reduce thickness of denture
yawning or	thick in buccal	base.
opening wide	posterior area	
	,coronoid process	
	exerts forward	
	&downward force	
	on posterior of	
	denture upon	
	opening	
	Overextended in	Shorten denture until
	hamular notch	pterygomaxıllary ligament
		does not exert tension on

				posterior border when mouth is
				opened wide.
		Inadequate PPS		Increase PPS with self-curing
		indeequate 115		acrylic resin.
	When talking	Inadequate PPS		Increase PPS with self-curing
	when tuning	indeequate 115		acrylic resin
		Overextended	in	Shorten posterior until soft
		nosterior region	111	palate does not lift upward&
		posterior region	-	break contact with denture base
	When	Improper occlus	sion	Correct occlusion
	occluding in	Poor der	nture	Correct surgically: change
	CR	foundation (fl	abby	primary denture stress-bearing
		tissues over ride	re)	area to the buccal shelf
		Incorrect t	ooth	Reset teeth
		position (teeth	may	
		be set too	far	
		buccally.	141	
		maximum		Enlarge centric area.
		intercuspation	not	8, , , , , , , , , , , , , , , , ,
		in harmony	with	
		CR		
		Nonyeilding are	ea in	Provide relief in area.
		hard plate.		
	Only a feeling	Large area of	non-	Provide relief chamber,
	of looseness	yielding tissue	e in	adequate to permit denture to
	(support	hard plate.		be properly seated.
	&retention are	-		
	present yet			
	denture feels			
	suspended in			
	mouth).			
Interference				
When swallowing	Max. denture	too thick or	Redu	ace thickness or adjust posterior
	overextended	in posterior		
	region			
	Mand. denture	too thick or	Redu	ace thickness or adjust posterior
	overextended	in posterior	lingu	ial flange area.
	lingual flange a	rea.		
	Insufficient OV	D	Incre	ease VD
	Excessive OVD		Redu	ice VD
	Incorrect to	oth position	Rese	et teeth

	(posterior teeth set too far lingually- tongue crowded)		
Clicking	Excessive OVD	Reduce VD	
Chennig	Ill-fitting dentures	New dentures	
	Overextended lower dentures	Reduce peripheral length	
Problems related t	o esthetic		
Complains/area	Causes	Treatments	
Fullness under nose	Labial flange of denture too	Reduce length or thickness of labial	
	long or too thick	flange	
Depressed philtrum	Labial flange of mandibular	Increase length or thickness of labial	
	denture too short	flange	
Upper lip sunken in	Max. anterior teeth set too far	Reset anterior teeth labially.	
	lingually		
Too much of the	Excessive OVD	Reduce OVD	
teeth are exposed	Incisal plane too low	Reset teeth at higher plane	
	Cuspids &lateral incisors too	Adjust accordingly	
	prominent		
Artificial	Technique setup (teeth are too	Individualize by rotating &	
appearance	regular in alignment)	shortening some teeth	
	All teeth in same shape	Choose different but complimentary	
		shades; use staining techniques	
	Lack of individualization of	Grind incisal edges & angles	
	teeth		
	Lack of individualization of	Individualize gingival contour &	
	denture base	color of denture base.	
Problems related t	o phonetic		
Complains/area	Cause	Treatments	
Whistle on "s"	Air stream passes unimpeded	Increase the palatal resin convex	
sound	or with inadequate impedance	contours lingual to the max. central	
	between the dorsal surface of	incisors to impede the air stream	
	the tongue & the anterior palate	passing between the tongue &palate.	
		Create rugae if necessary.	
Lisp on "s" sound	The air stream passing between	Reduce OVD until premolars no	
	the tongue & the anterior palate	longer contact during speech.	
	is excessively impeded, usually		
	by rugae or excessive resin		
	contour		
Max. &mand.	OVD too great	Reduce OVD until premolars no	
incisors or		longer contact during speech.	
premolars contact			

during sibilant		
(s,sh,z,ch)sounds		
Clinician observes	Maxillary teeth may be set too	Evaluate lip support &overall
that incisal edges of	far labially.	appearance of ant. teeth as they are
max. incisors		positioned. Reset to a more lingual
contact the lower		position as needed. Incisal edge of
lip 'mm or more		maxillary incisors should contact the
labial to the wet/dry		wet dry junction or just lingual to it
junction of lower		during production of the "f" &"v"
lip when "f"&"v"		sounds.
sounds are made.		