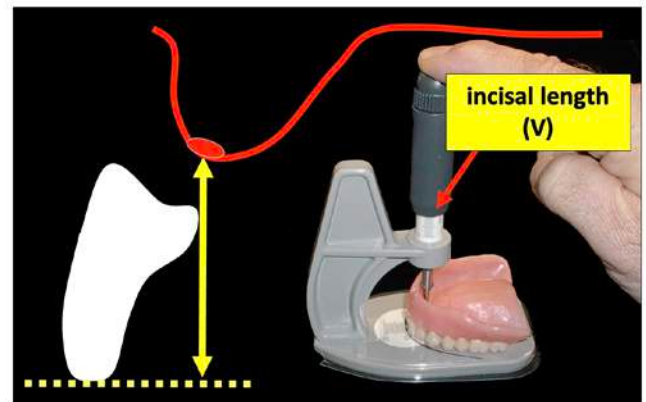


Denture Gauge

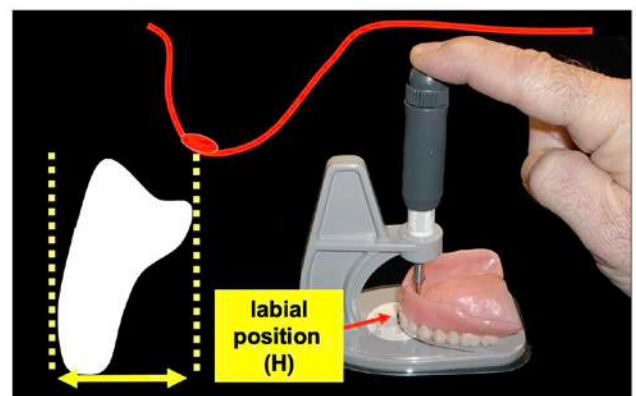
The Denture Gauge is a simple tool that provides essential information about the patient's current denture.



Depress plunger to engage center of the incisal papilla. The vertical gauge on the handle measures the incisal length in relationship to the center of the incisal papilla (V).



The gauge on the horizontal platform records the distance from the labial position of the incisors in relationship to the incisal papilla (H)



Denture Gauge

	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V ___
Maxillary	H ___	H ___
Mandibular	V ___	V ___

	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V ___
Maxillary	H <u>6</u>	H ___
Mandibular	V ___	V ___

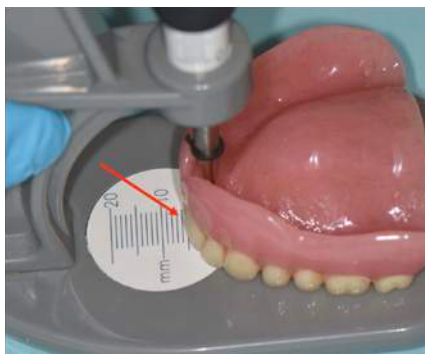
	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V ___
Maxillary	H <u>6</u>	H ___
Mandibular	V <u>7</u>	V ___



Vertical (V) = 10mm

Depress plunger to engage center of incisal papilla and record the **Vertical (V)** measurement.

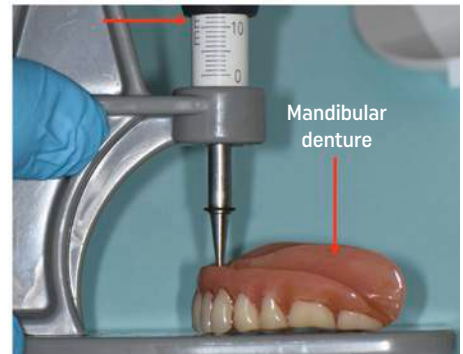
This records the maxillary central incisal length in relationship to the center of the incisal papilla.



Horizontal (H) = 6mm

Record the **Horizontal (H)** measurement from the gauge on the base.

This records the maxillary central incisal labial position in relationship to the center of the incisal papilla.



Vertical (V) = 7mm

Position the plunger tip to the center of the mandibular ridge crest and record the **Vertical (V)** measurement.

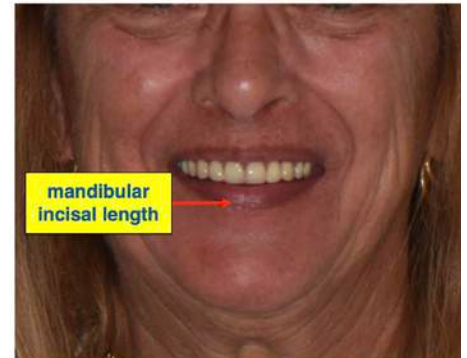
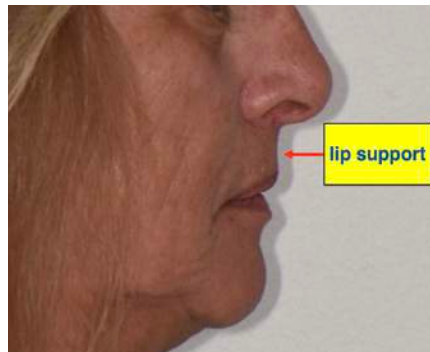
This records the length of the mandibular incisors in relationship to the center of the ridge.

Denture Gauge

	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V <u>✓</u>
Maxillary	H <u>6</u>	H <u> </u>
Mandibular	V <u>7</u>	V <u> </u>

	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V <u> </u>
Maxillary	H <u>6</u>	H <u>✓</u>
Mandibular	V <u>7</u>	V <u> </u>

	<i>Actual</i>	<i>Desired</i>
Maxillary	V <u>10</u>	V <u> </u>
Maxillary	H <u>6</u>	H <u> </u>
Mandibular	V <u>7</u>	V <u>✓</u>



Evaluate **maxillary incisal length** and record whether to keep the same or either increase/decrease length using the Denture Gauge measurements as the reference.

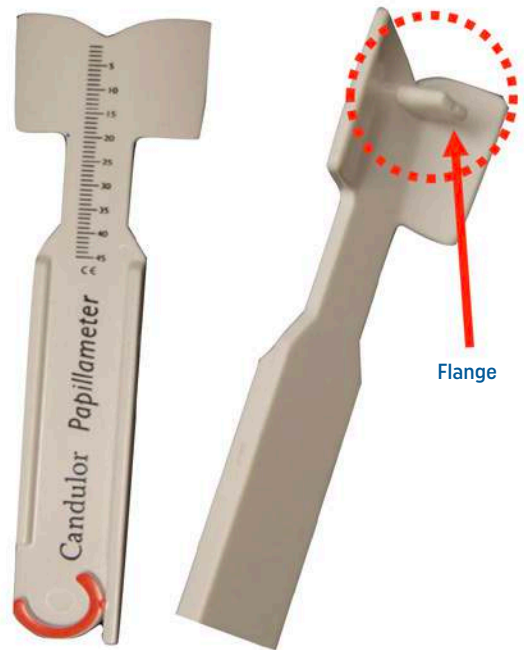
Evaluate **maxillary lip support** and record whether to keep the same or either increase/decrease labial position using the Denture Gauge values as the reference.

Evaluate **mandibular incisal length** and record whether to keep the same or either increase/decrease length using the Denture Gauge values as the reference.

NOTE: This value is referred to as "Teeth visible length" when setting the occlusal plane in the Model analysis design page.

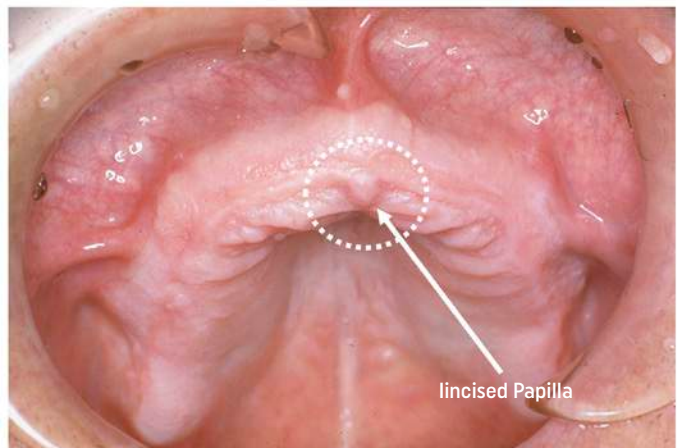
Papillameter

The Papillameter has a measurement scale on the labial surface and flange on the palatal side.



Gently rest the flange of the Papillameter on the incisal papilla.

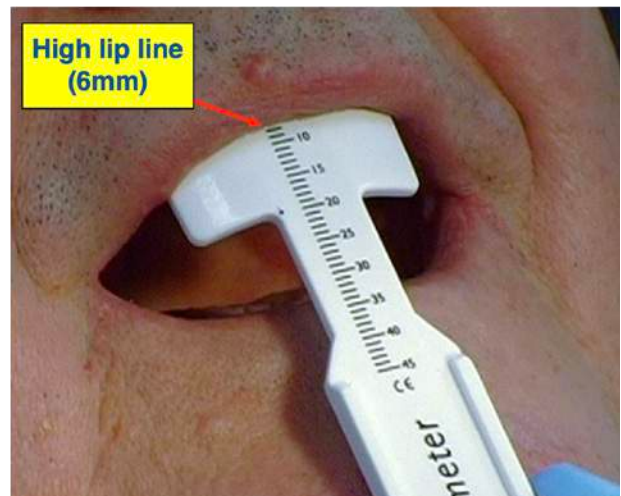
Note: the Papillameter is particularly useful when the patient does not present with existing dentures.



Papillameter

Low lip line <u>15</u>
High lip line _____

Low lip line _____
High lip line <u>6</u>



With the patient at rest, place the Papillameter on the incisal papilla and record the "low lip line" on the labial scale approximately 2mm below the upper lip.

NOTE: This value is referred to as "Teeth visible length" when setting the occlusal plane in the Model analysis design page.

The "high lip line" is measured while the patient is smiling. Central incisor length can be estimated by subtracting the "high lip line value" from the "low lip line value". i.e the subtracted difference ($15 - 6 = 9$) suggests that the central incisor length should be a minimum of 9mm to avoid a gummy smile.

Ivotion Digital Denture Prescription

Digital Denture Prescription


Case Number

Dental Professional: _____ License # _____
 Patient Name: _____

Male Female Age _____ Comments: _____

ORDER
 Try-in Denture Final Denture


Monolithic Process



Notch & Block

Tooth moulds: Ivodon® Phonares®
 Maxillary anterior tooth mould: _____
 Tooth shade: B3 | A1 | A2 | A3 | A3.5 | B1
 Gingival shade: Pink V | Preference | US-D
 Occlusion: Semi-anatomic (DP) | Lingualized


Oversize Process



Bonding Final Mill


Tooth moulds: Phonares® Vivodent DCL BlueLine® Vivodent® PSDCL
 Maxillary anterior tooth mould: _____
 Tooth shade: B3 | A1 | A2 | A3 | A3.5 | B1 | B3 | C1 | D2
 Gingival shade: Pink | Pink V | Preference | 34V | US-D
 Occlusion: Semi-anatomic (DP) | Lingualized

Denture Gauge




	Actual	Desired
Maxillary V	_____	V _____
Maxillary H	_____	H _____
Mandibular V	_____	V _____
Mandibular H	_____	H _____

Papillameter




Low Lip Line _____ mm
 High Lip Line _____ mm

UTS CAD



(BP) Bipupillary line _____ + or -
 (CE) Camper's plane _____ + or -

Comments: _____



Digital Denture Prescription

Case Number _____

Evaluation form

Fit evaluation

Maxillary	<input type="checkbox"/> acceptable	<input type="checkbox"/> new impression
Mandibular	<input type="checkbox"/> acceptable	<input type="checkbox"/> new impression

Tooth position evaluation


Midline	<input type="checkbox"/> no change	<input type="checkbox"/> marked on denture	<input type="checkbox"/> refer to comments
Maxillary incisal length	<input type="checkbox"/> no change	increase _____ mm	decrease _____ mm
Mandibular incisal length	<input type="checkbox"/> no change	increase _____ mm	decrease _____ mm
Lip support (maxillary incisor labial position)	<input type="checkbox"/> no change	increase _____ mm	decrease _____ mm
Occlusal plane (Bipupillary)	<input type="checkbox"/> acceptable	<input type="checkbox"/> refer to comments	
Occlusal plane (Camper's)	<input type="checkbox"/> acceptable	<input type="checkbox"/> refer to comments	

Bite evaluation (VD = Vertical Dimension)

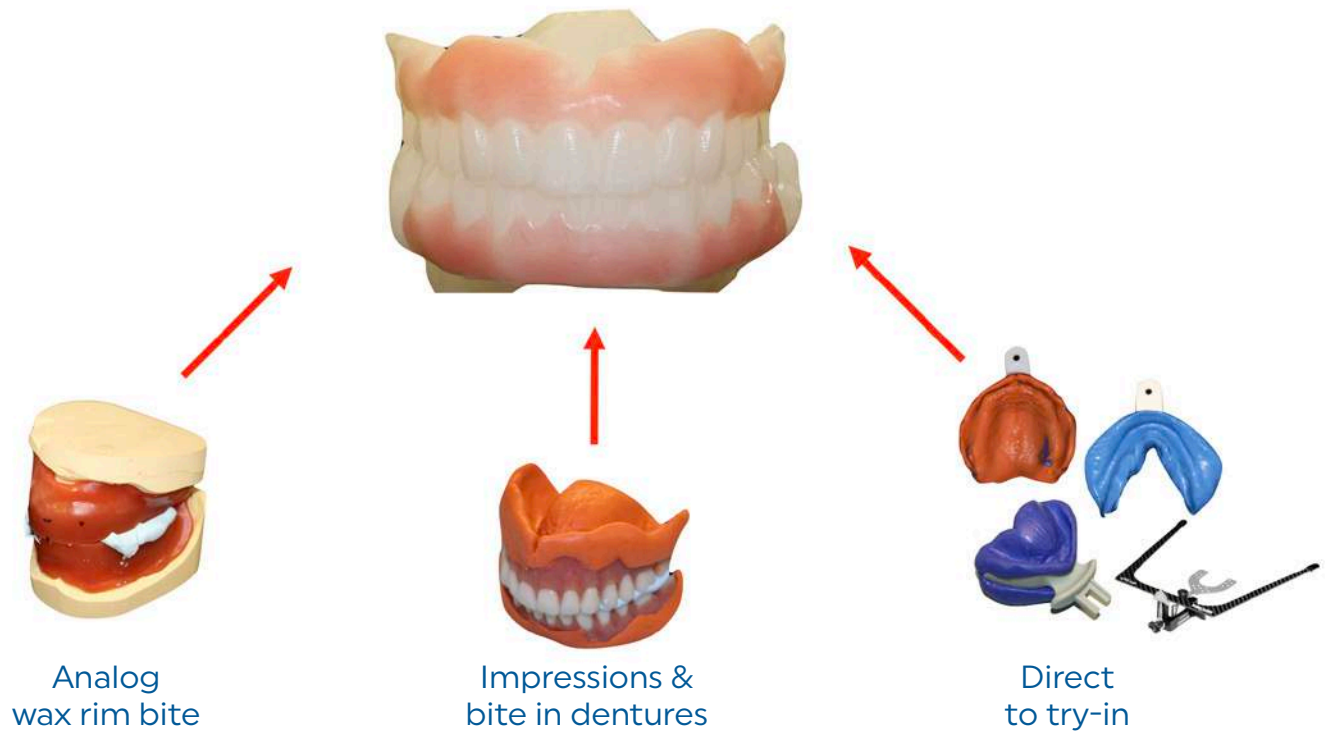
<input type="checkbox"/> Bite acceptable No change	<input type="checkbox"/> Bite not acceptable new bite record (taken at desired VD)	<input type="checkbox"/> Bite not acceptable new bite record (adjust VD as per comments)
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Comments: _____

704712 Rev.4 6/2021 *Consult your lab regarding available moulds in digital tooth library

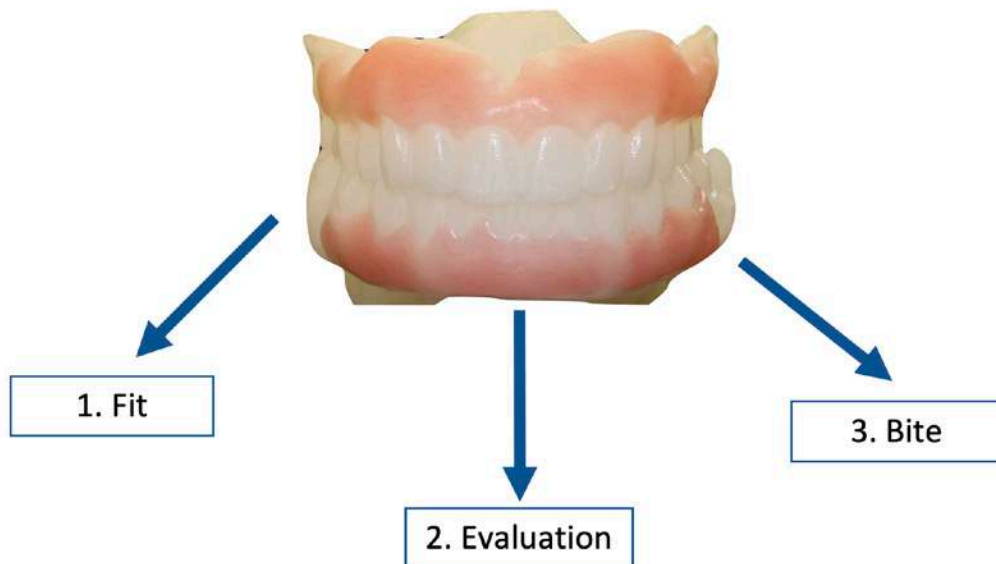


Resin try-in appointment



The "clinical resin try-in" is an option for all three workflows described. Clinical evaluation of the resin try-in dentures is similar to the traditional wax try-in evaluation, except of course the teeth are fixed and they do not represent the shade of the actual denture teeth. However, as shown later, resin try-in dentures can be marked, ground, etc. to facilitate the ability to communicate the desired changes. The resin try-in dentures can be milled or printed.

Resin try-in appointment



Suggested sequence for the clinical try-in evaluation:

- 1 Fit:** Since the accuracy of the try-in dentures is extremely accurate, it is possible to make an evaluation of fit with confidence. If not acceptable, new impressions must be taken using the trial dentures as impression trays. Note: if one arch is impressed, it is advised that both be impressed since the dentures will have to be rescanned and redesigned to a new order form.
- 2 Evaluation:** The [evaluation form](#) serves to remind the clinician of necessary observations and documentations. Note: If impressions must be made, it is suggested that the evaluation be completed after impressions are made since the impression material may slightly alter the dentures.
- 3 Bite:** If a new bite registration is necessary, take it after the dentures are evaluated. Note: if a new bite is taken without impressions then the original design and order form can still function. As mentioned, if new impressions are made, then a new bite is mandatory and the case must be rescanned and redesigned using a new order form.

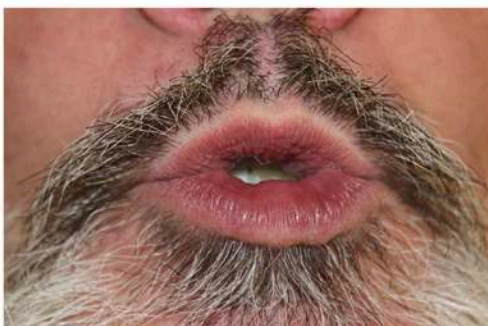
Resin try-in appointment

Try-in evaluation form

Fit		
<input type="checkbox"/> acceptable	<input type="checkbox"/> new impressions	
Midline		
<input type="checkbox"/> no change	<input type="checkbox"/> marked on denture	<input type="checkbox"/> refer to comments
Maxillary incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___mm	<input type="checkbox"/> decrease ___mm
Mandibular incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___mm	<input type="checkbox"/> decrease ___mm
Lip support		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___mm	<input type="checkbox"/> decrease ___mm
Bipupillary plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Camper's plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Bite (CO/VDO)		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	



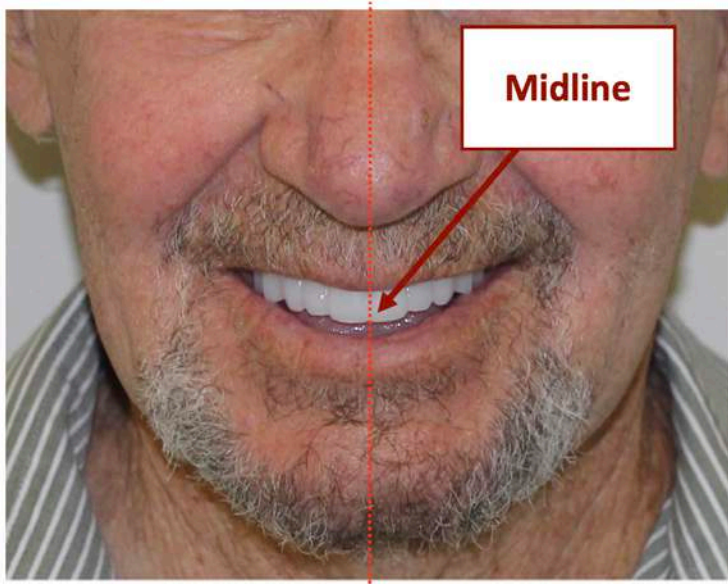
Fit: Since the dimensions of the digital try-in dentures are extremely accurate, it is possible to make an evaluation of fit with confidence. If fit is not acceptable, new impressions must be taken using the trial dentures as impression trays. Note: patient should be in occlusion when applying impression materials.



Resin try-in appointment

Try-in evaluation form

Fit		
<input type="checkbox"/> acceptable	<input type="checkbox"/> new impressions	
Midline		
<input type="checkbox"/> no change	<input type="checkbox"/> marked on denture	<input type="checkbox"/> refer to comments
Maxillary incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Mandibular incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Lip support		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Bipupillary plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Camper's plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Bite (CO/VDO)		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	



If the midline requires correction it can be marked on the resin try-in denture, which will be picked up in the scan. Or it can be prescribed in the comments; i.e. move midline 2mm to patient's left.

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="text" value="acceptable"/>	<input type="text" value="new impressions"/>	
Midline		
<input type="text" value="no change"/>	<input type="text" value="marked on denture"/>	<input type="text" value="refer to comments"/>
Maxillary incisal length		
<input type="text" value="no change"/>	<input type="text" value="increase ___ mm"/>	<input type="text" value="decrease ___ mm"/>
Mandibular incisal length		
<input type="text" value="no change"/>	<input type="text" value="increase ___ mm"/>	<input type="text" value="decrease ___ mm"/>
Lip support		
<input type="text" value="no change"/>	<input type="text" value="increase ___ mm"/>	<input type="text" value="decrease ___ mm"/>
Bipupillary plane		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	
Camper's plane		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	
Bite (CO/VDO)		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	

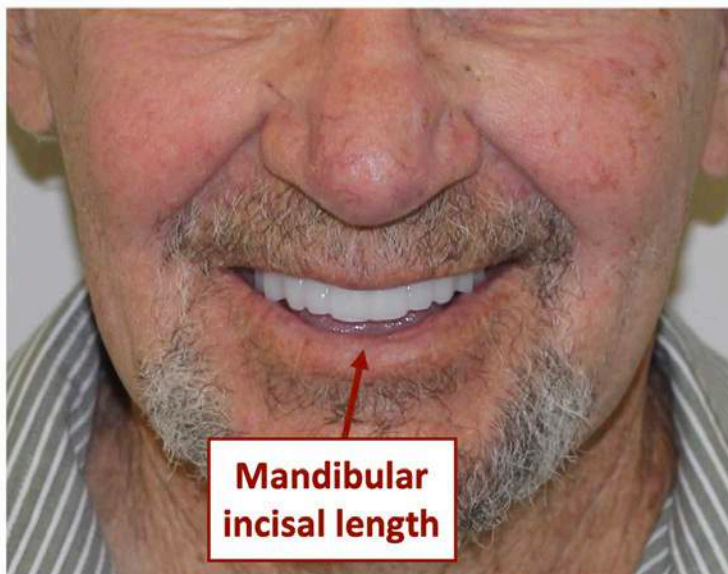


Changes can be either be documented in the evaluation form, or be marked or ground (shown later), or material added to communicate the desired length.

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="button" value="acceptable"/>	<input type="button" value="new impressions"/>	
Midline		
<input type="button" value="no change"/>	<input type="button" value="marked on denture"/>	<input type="button" value="refer to comments"/>
Maxillary incisal length		
<input type="button" value="no change"/>	<input type="button" value="increase ___ mm"/>	<input type="button" value="decrease ___ mm"/>
Mandibular incisal length		
<input type="button" value="no change"/>	<input type="button" value="increase ___ mm"/>	<input type="button" value="decrease ___ mm"/>
Lip support		
<input type="button" value="no change"/>	<input type="button" value="increase ___ mm"/>	<input type="button" value="decrease ___ mm"/>
Bipupillary plane		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	
Camper's plane		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	
Bite (CO/VDO)		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	



The mandibular length can be challenging to communicate because it is interrelated to VDO. In other words, if the maxillary length was ok but the mandibular length was suggested to be 3mm higher, then the way to achieve this would be to increase the VDO until the lower teeth were able to be lengthened 3mm.

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="button" value="acceptable"/>	<input type="button" value="new impressions"/>	
Midline		
<input type="button" value="no change"/>	<input type="button" value="marked on denture"/>	<input type="button" value="refer to comments"/>
Maxillary incisal length		
<input type="button" value="no change"/>	<input type="button" value="increase ___mm"/>	<input type="button" value="decrease ___mm"/>
Mandibular incisal length		
<input type="button" value="no change"/>	<input type="button" value="increase ___mm"/>	<input type="button" value="decrease ___mm"/>
Lip support		
<input type="button" value="no change"/>	<input type="button" value="increase ___mm"/>	<input type="button" value="decrease ___mm"/>
Bipupillary plane		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	
Camper's plane		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	
Bite (CO/VDO)		
<input type="button" value="acceptable"/>	<input type="text" value="comments:"/>	

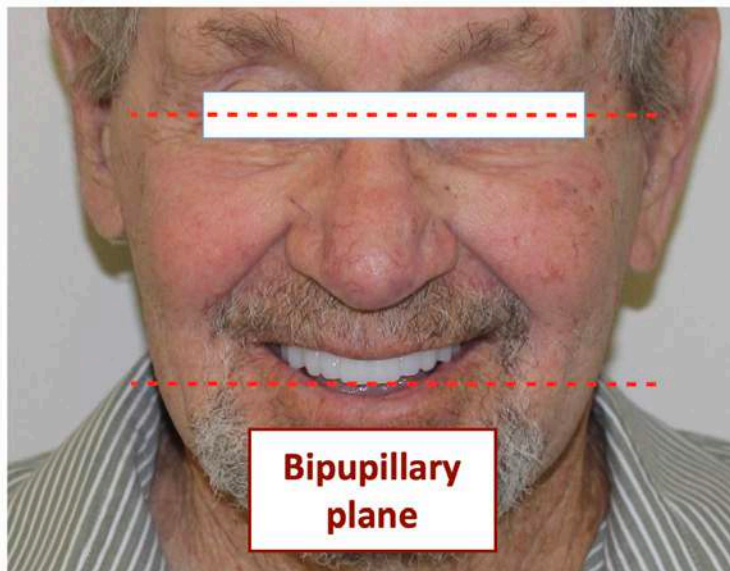


Since the resin try-in dentures are contoured exactly like the final denture, it is possible to accurately assess the patient's lip fullness (labial position of maxillary incisors).

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="checkbox"/> acceptable	<input type="checkbox"/> new impressions	
Midline		
<input type="checkbox"/> no change	<input type="checkbox"/> marked on denture	<input type="checkbox"/> refer to comments
Maxillary incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ____mm	<input type="checkbox"/> decrease ____mm
Mandibular incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ____mm	<input type="checkbox"/> decrease ____mm
Lip support		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ____mm	<input type="checkbox"/> decrease ____mm
Bipupillary plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Camper's plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Bite (CO/VDO)		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	

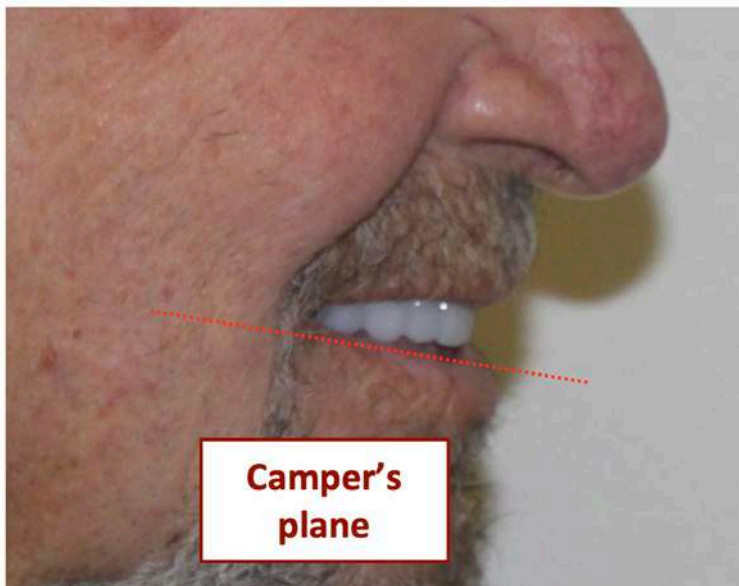


If not acceptable, explain in the comments. Note: if possible evaluate with a Biteplane (Fox plane)

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="text" value="acceptable"/>	<input type="text" value="new impressions"/>	
Midline		
<input type="text" value="no change"/>	<input type="text" value="marked on denture"/>	<input type="text" value="refer to comments"/>
Maxillary incisal length		
<input type="text" value="no change"/>	<input type="text" value="increase ___mm"/>	<input type="text" value="decrease ___mm"/>
Mandibular incisal length		
<input type="text" value="no change"/>	<input type="text" value="increase ___mm"/>	<input type="text" value="decrease ___mm"/>
Lip support		
<input type="text" value="no change"/>	<input type="text" value="increase ___mm"/>	<input type="text" value="decrease ___mm"/>
Bipupillary plane		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	
Camper's plane		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	
Bite (CO/VDO)		
<input type="text" value="acceptable"/>	<input type="text" value="comments:"/>	



In the profile view determine if the maxillary posterior teeth appear acceptable or if they appear too low or too high.

Resin try-in appointment

Try-in evaluation form

Fit		
<input type="checkbox"/> acceptable	<input type="checkbox"/> new impressions	
Midline		
<input type="checkbox"/> no change	<input type="checkbox"/> marked on denture	<input type="checkbox"/> refer to comments
Maxillary incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Mandibular incisal length		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Lip support		
<input type="checkbox"/> no change	<input type="checkbox"/> increase ___ mm	<input type="checkbox"/> decrease ___ mm
Bipupillary plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Camper's plane		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	
Bite (CO/VDO)		
<input type="checkbox"/> acceptable	<input type="text"/> comments:	



If a new bite registration is necessary, it is suggested that the lower posterior teeth be ground to make room for the bite registration materials. Note: if possible, always try to record the Centric Occlusion (CO) at the desired vertical dimension (VDO).

Tips

New bite registration



Reducing the mandibular posterior teeth prior to taking the new jaw record will allow the VDO to be reduced if desired. It will also prevent occlusal contact interferences which may shift the jaw position.

NOTE: the final record should be at the desired VDO.

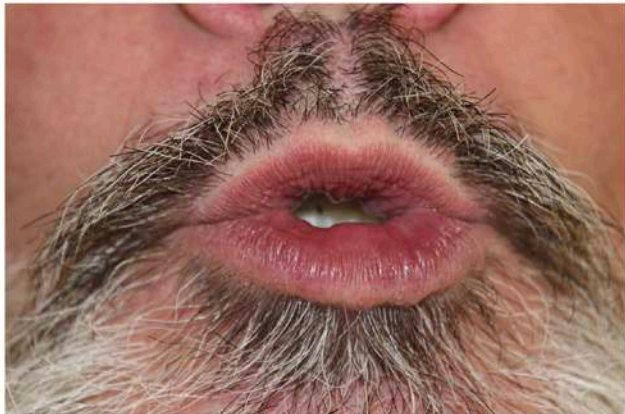
If an increase of VDO is desired, it is suggested that the bite registration material capture this desired relationship.

NOTE: the final record should be at the desired VDO.



Tips

New impressions



During the procedure of taking new impressions, have patient close into occlusion each time border impression material or wash impression material is added. This will keep the occlusal relationship and also allow the patient to physiologically border mould. This technique is referred to as the "Closed mouth functional impression technique".



The choice of materials and technique for impression making is determined by the clinician.

Tips

Esthetic corrections



Mark dentures



Adjust dentures

The resin try-in dentures can be marked or ground to help communicate the desired changes.

Take home try-in

One of the many advantages of the resin try-in is that the patient can safely take the try-in dentures home for the opportunity to view in their familiar surroundings. The feedback can be dramatically more informative than simply asking a patient to make decisions using a hand mirror.



Tips

Insertion / post-insertion appointments



Insertion

The accuracy of design (CAD) and manufacturing (CAM) provided by digital technology is appreciated at the insertion appointment. The time of adjustment of the denture bases and occlusion is typically significantly minimized and patient satisfaction is maximized.

Post-insertion

In addition, the number and intensity of post-insertion appointments is significantly reduced.

United States: Ivoclar Vivadent | 175 Pineview Drive | Amherst | New York 14228
716-691-0010 | 800-533-6825 | Fax: 716-691-2285

Canada: Ivoclar Vivadent | 1 - 6600 Dixie Road | Mississauga | Ontario L5T 2Y2
905-670-8499 | 800-263-8182 | Fax: 905-670-3102

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