## TOPICS OF DENTURE

Addition 1: Impression procedures for edentulous alveolar ridges based on anatomical landmarks

Addition 2: How to use the remounting jig



(Topics of Denture Addition 1)

## IMPRESSION PROCEDURES FOR EDENTULOUS ALVEOLAR RIDGES BASED ON ANATOMICAL LANDMARKS

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References





1. The ready-made trays for edentulous alveolar ridge

Select a tray that fits the patient's alveolar ridge from among maxillary 9 types and mandibuller 11 types of the trays(Perfect-STOX), and take an impression of the study casts.



maxillary 9 types



mandibuller 11 types





## 2. Impressions for study cast

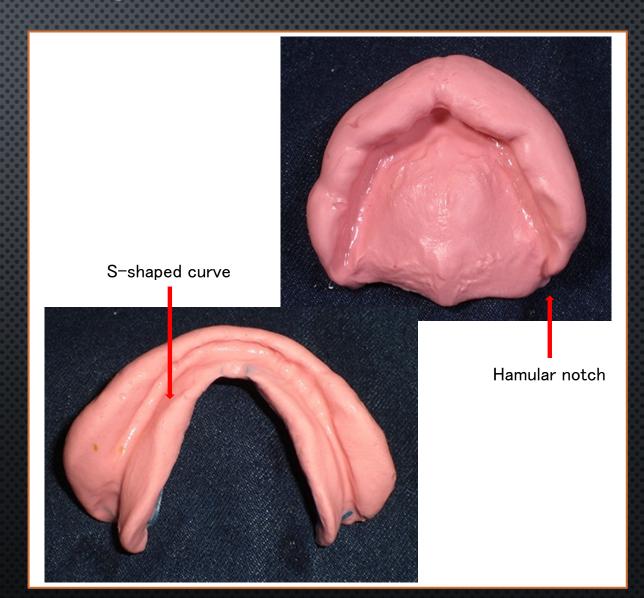
Check for anatomical landmarks on the edentulous impression taking surface.

The most important items to check are as follows

Maxilla: Hamular notch

Mandible: S-shaped curve





### 3. Explorations for study cast

Anatomical landmarks of the study cast are examined.

The buccal portion of the upper left humeral notch of the maxilla is narrow and lacks support at the tray margins. The edges of the individual trays must be adjusted.

The curve between the premylohyoid fossa and retromylohyoid fossa on the left side of the mandible is disrupted, suggesting insufficient contraction of the hyoid muscle during impression taking.

The individual tray edges should be adjusted, and the patient should be instructed to hold the tongue straight forward during the final impression.

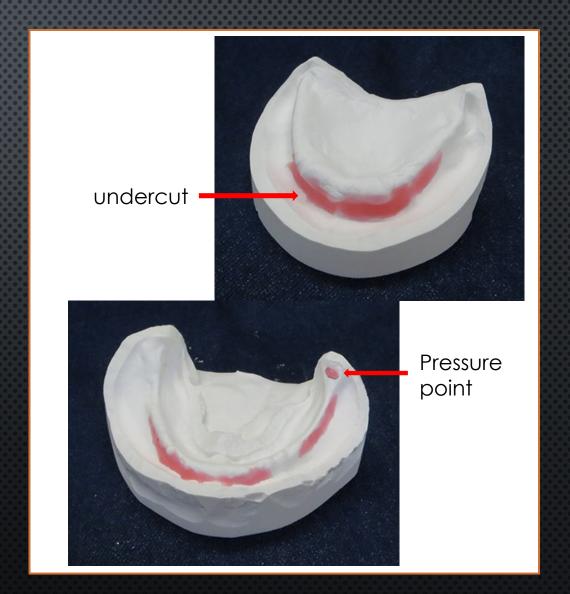




#### 4. Preparations for study cast

The undercut and pressure point areas are blocked out with wax in order to fabricate individual trays.





#### 5. Individual trays

Individual trays are made with self-curing acrylic resin.





### 6. Preparations for individual trays

Individual tray of the maxilla (upper right photo)

For the upper left Hamular notch buccal side and posterior palatal seal, add modeling compound.

Individual trays of the mandible (lower right photo)
Between the left anterior and posterior hyoid
fossa of the mandible, the pressure area is shaved
and modeling compound is added.



### 7. Final impressions

The right photograph shows the final impression surfaces of the upper and lower residual ridges.

In this case, the thickness of the marginal area was greater than usual due to significant resorption of the residual ridges.

Pressure points are observed at the alveolar ridge of the mandible.

An adjustment may be necessary when dentures are fitted.





#### (Topics of Denture Addition 1)



# Impression procedures for edentulous alveolar ridges based on anatomical landmarks

#### References

- 1) Boucher, C.O., Hickey, J.C. and Zarb, G.A.: Prosthodontic treatment for edentulous patients 7th ed., 107~157, C. V. Mosby Company, Saint Louis, 1975.
- 2) 外川正:無歯顎顎堤模型の解剖学的ランドマーク間の計測, 日本補綴歯科学会雑誌 51巻3号 469-479, 1993.
- 3) 外川 正: 改良型日本人用試作無歯顎用トレーの評価, 平成16年度日本補綴歯科学会 東北・北海道支部総会ならびに学術大会: 15, 2004.
- 4) 外川 正:無歯顎顎堤計測値の統計分析に基づく無歯顎用試作トレーの評価,日本補綴 歯科学会雑誌 51巻116回特別号平成19年5月 国際補綴歯科学会神戸2007:131,2007.

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