

THE ORTHODONTIC EXAMINATION

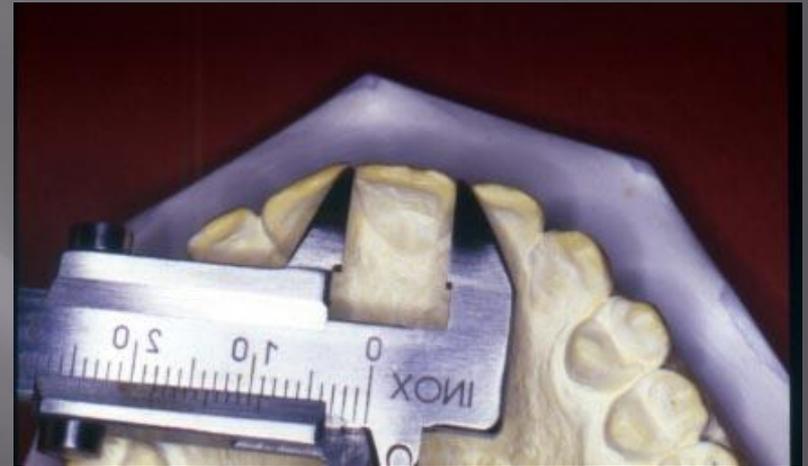
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- ▣ An assessment of diagnostic recordings
 1. Model analysis: Hays-Nance, Bolton analysis
 2. Cephalometric analysis
 3. Posteroanterior film analysis.

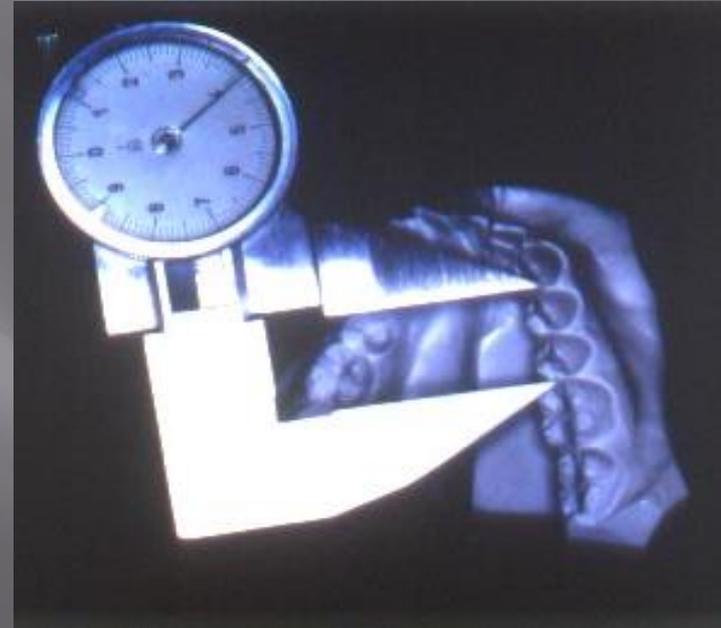
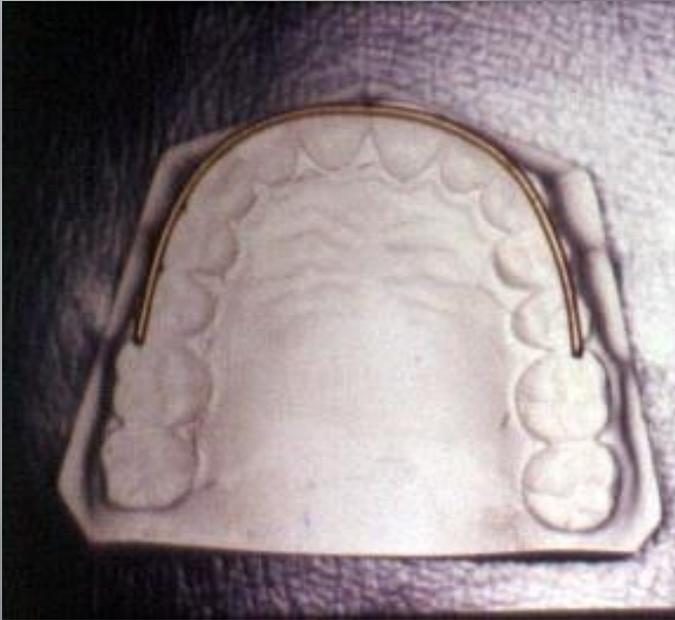
1. Hays-Nance analysis:

- ▣ In principle the analysis depends on comparing the space required for alignment of the teeth and the actual available space.

- ▣ Tooth size measurement in permanent teeth:
 - From vestibular in posterior teeth, from incisal edge in anterior teeth.



- ▣ Measurement the available space



- ▣ You can make extraction for patient if the result of hays-nance analysis more than 6-7 mm crowding in mandibular

▣ Bolton analysis: (Tooth size discrepancies)

- The analysis determines the ratio of the mesiodistal widths of maxillary versus mandibular teeth.
- It helps to estimate the overbite and overjet relationship, that will likely be obtained after orthodontic treatment is complete and the occlusal misfits produced by interarch tooth size discrepancy are identified.
- The overall ratio determines the relationship between the 12 mandibular and 12 maxillary teeth (after excluding the second and third molars); the anterior ratio is between the six upper and lower anteriors.

- ▣ The purposes of using the cephalometric film analysis
 1. The diagnosis of abnormalities in craniofacial form or growth
 2. The planning of orthodontic treatment goals
 3. The prediction of craniofacial growth
 4. The assessment of results of orthodontic treatment

- ▣ By the cephalometric films:
 - Evaluation the problems in the sagittal direction
(Class I, II,III malocclusion and incisors labial / lingual inclination
 - Evaluation the Problems in the vertical direction
(the normal direction of growth, openbite and deepbite)
 - Evaluation of airways

THANK YOU