How to prepare orthodontics patient for the surgical treatment

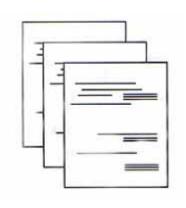
UROŠ MEZEG DR. DENT. MED



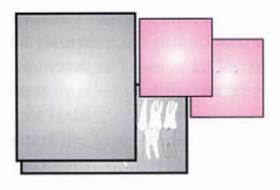
Take a history

Examine the patient

Take records







Personal information Chief concerns Medical, dental and TMJ histories Growth assessment

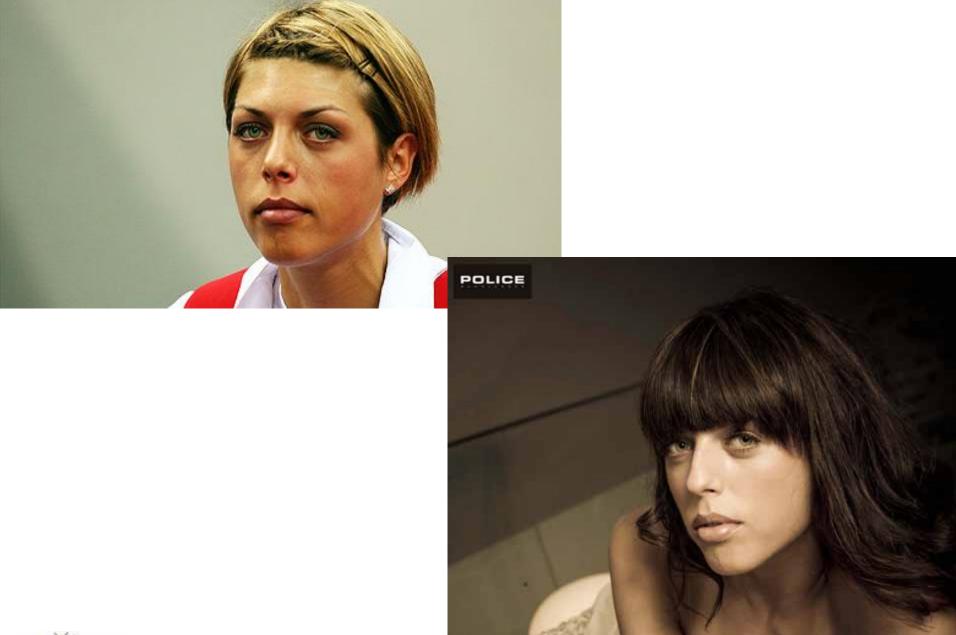
TMJ examination Front facial Profile facial Dental examination Quality of records Natural head position Photographs Radiographs Mounted models























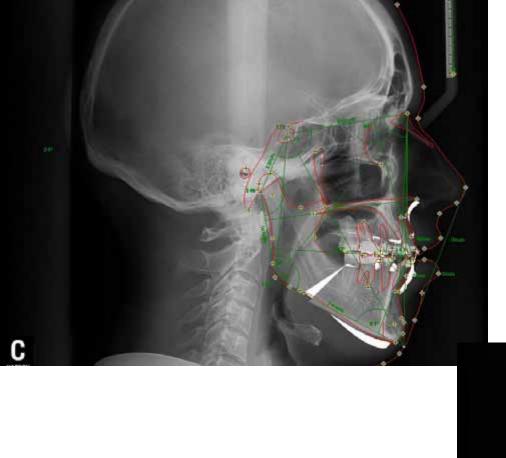














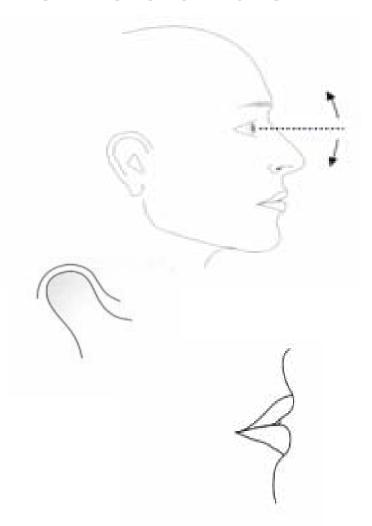


How to take the records

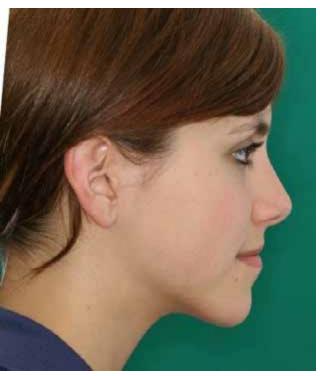
Natural head position

Seated condils
 CR-CO

Relexet lip postur











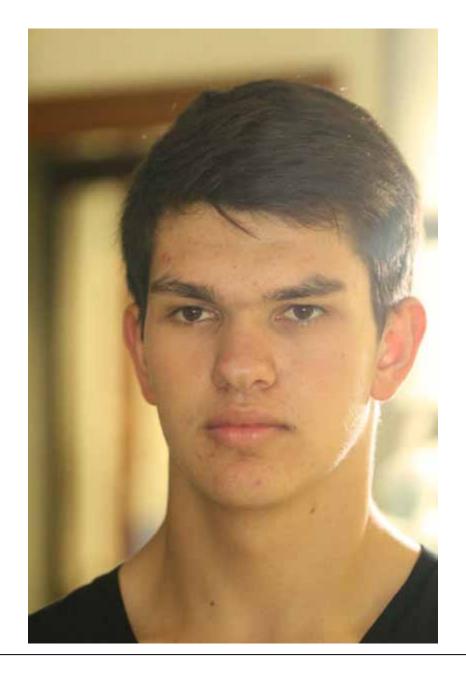


Postural Horizontal Head Up **Head Down** FH FH FH Class I Profile Class II Class III **Profile Profile**

B

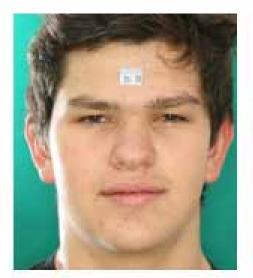


A















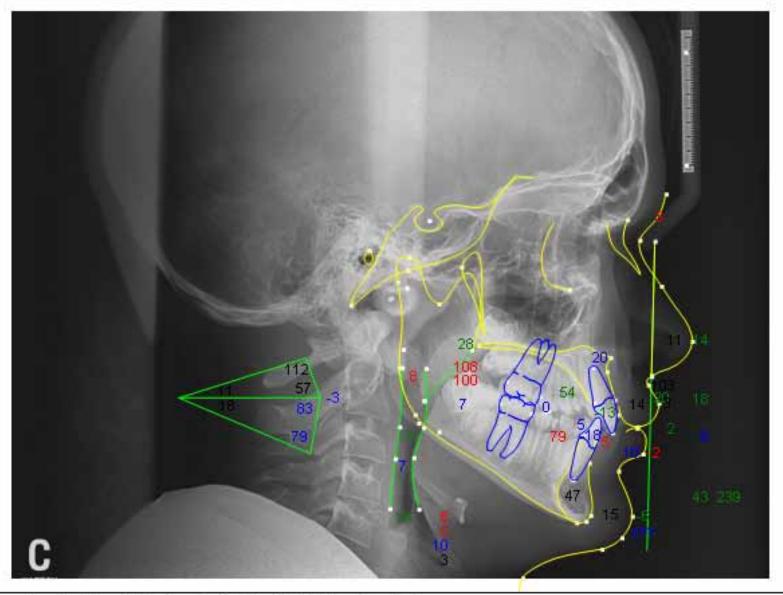




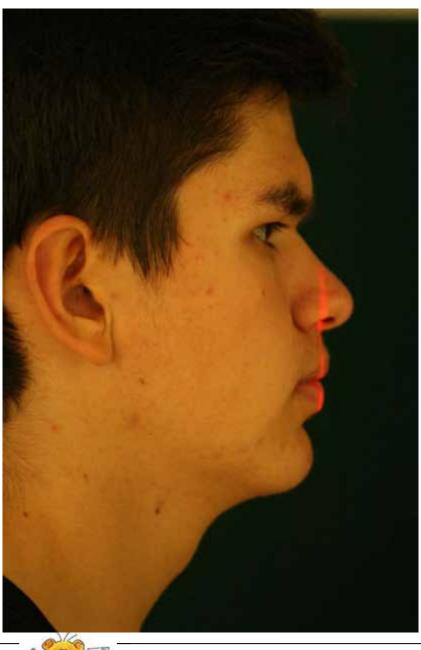


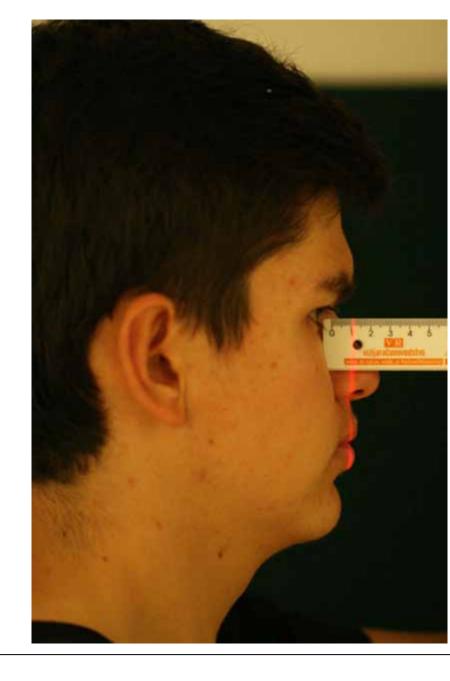
Dr. Uros Mezeg Zg. Otok 8 4240 Radovljica Phone: +38645309090

OZBE MEZEG 15.11.2010, Progress, YR

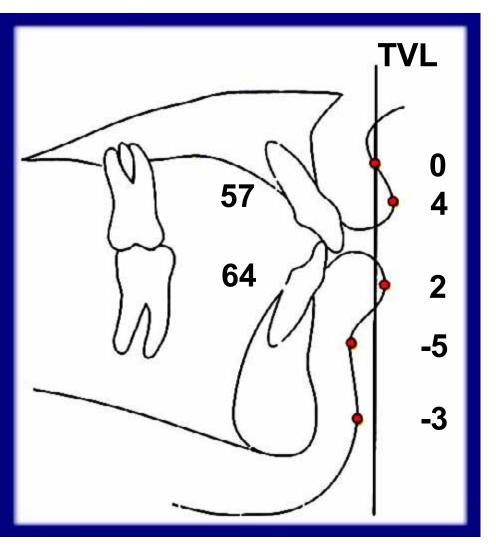


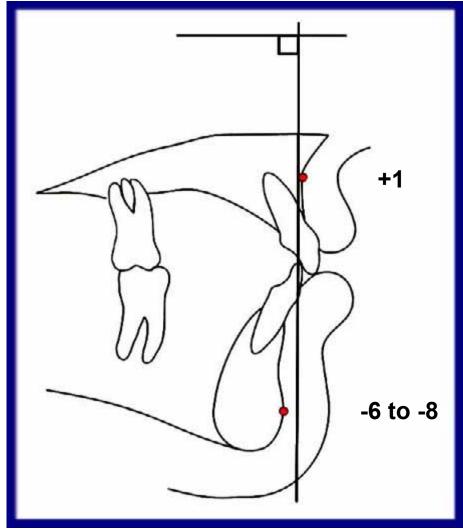
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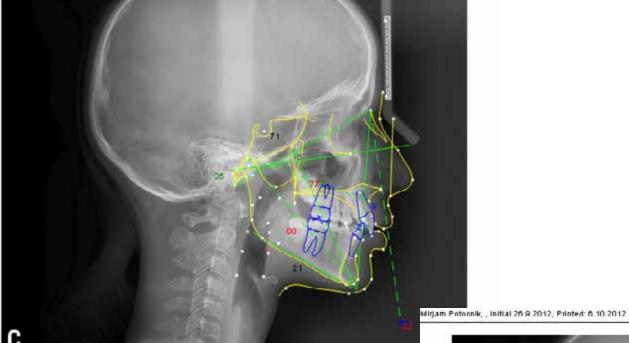




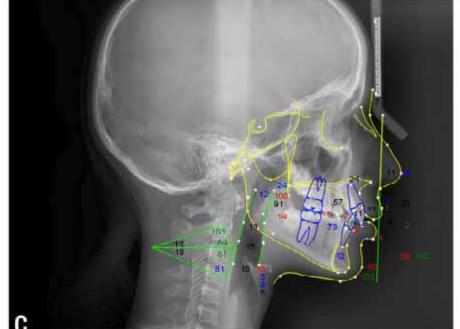








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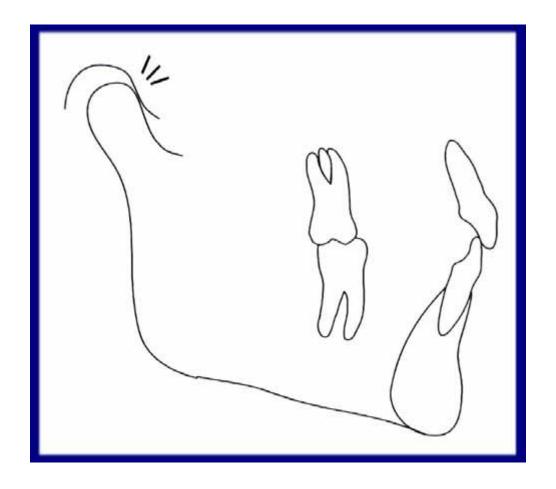


Seated Condyle Position A



Postured Position B





If the patient shows an anterior skid, with a corresponding anterior condyle position, it is beneficial to continue with headgear or Class II mechanics to allow the condyles to seat in the fossae.

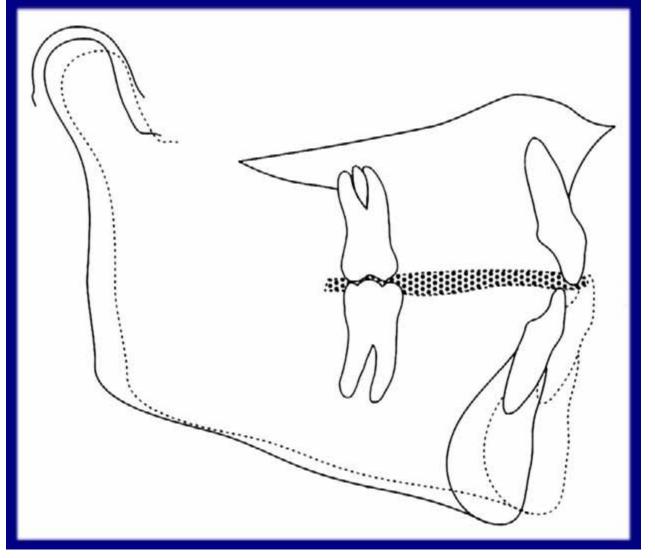




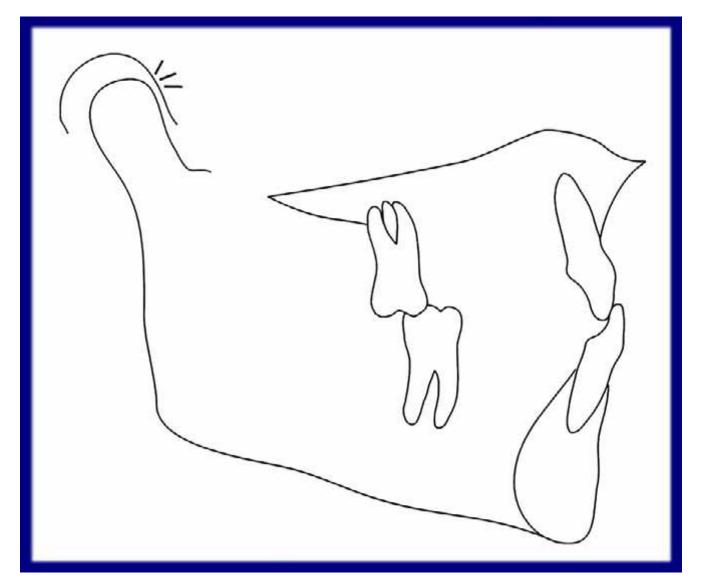


В

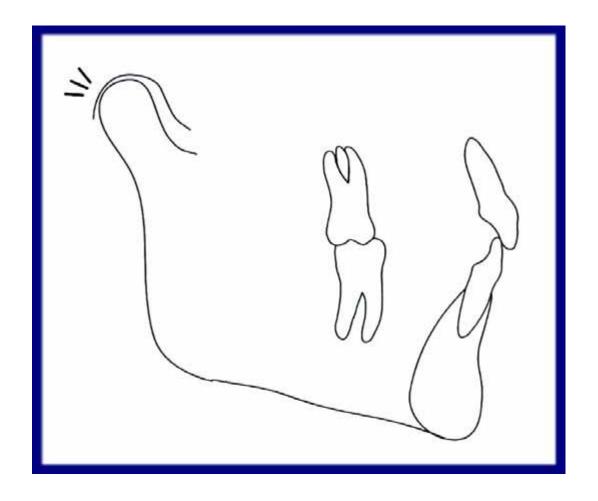




A waxbite is required to accurately record the A/P position of the mandible, with condyles centered. In this way, accurate treatment planning will be possible, based on records taken with the mandible at the CR position.

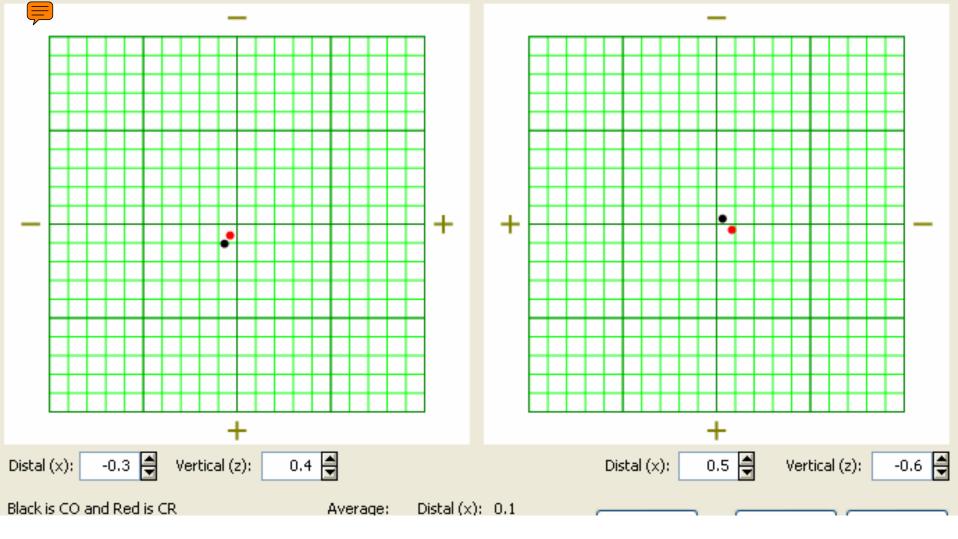


Mandibular displacements are frequently found in Class III malocclusions. They need to be identified and accurately recorded.



If the patient shows a significantly posterior condylar position, further treatment should be provided, to achieve a more centered position

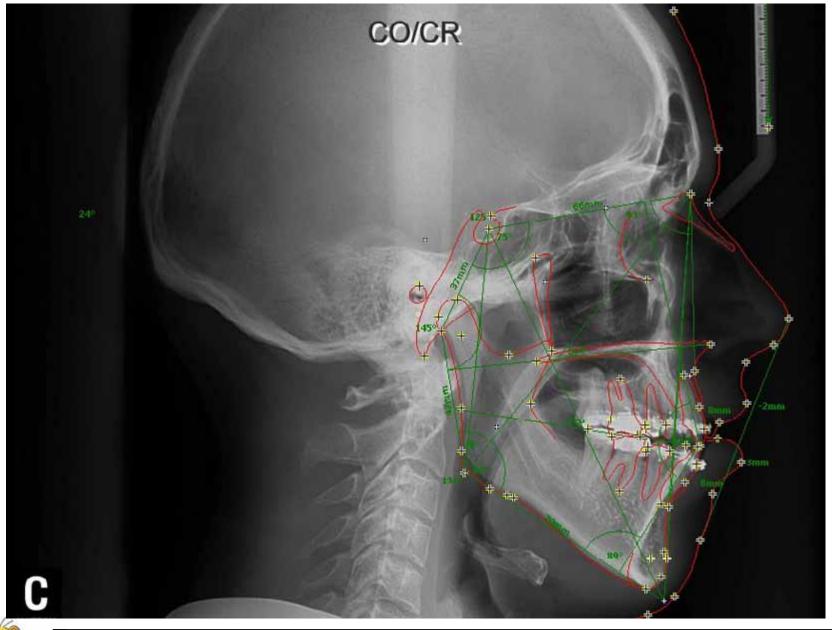




Črna je CO Rdeča je CR Povprečje: Distalno (x): 0.1

Navpično (y):-0,1



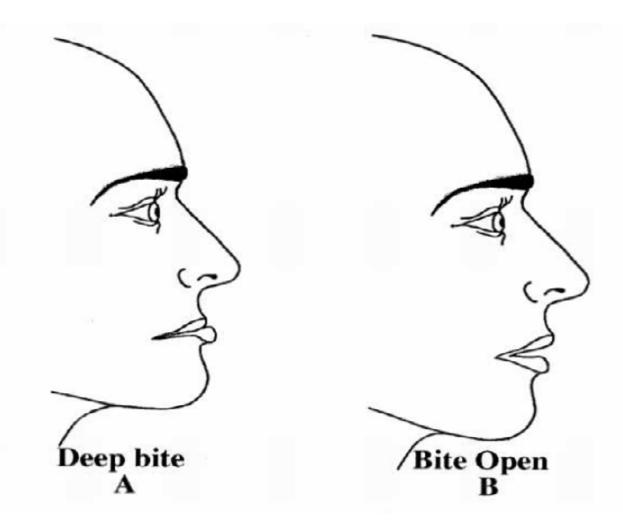






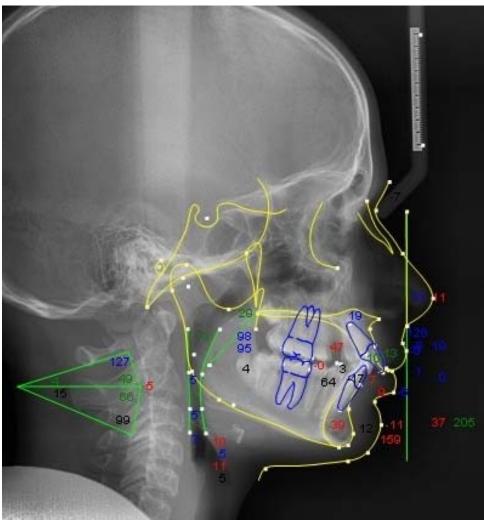
Mounted models may be used to re-evaluate mandibular position and check functional movements as the finishing stage commences.



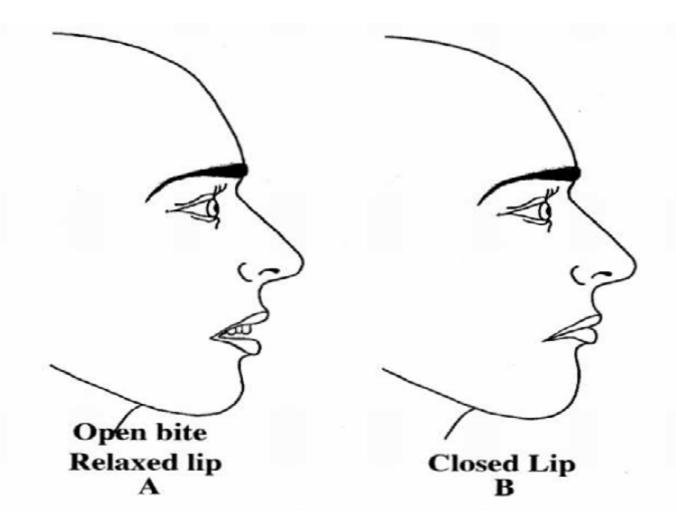
















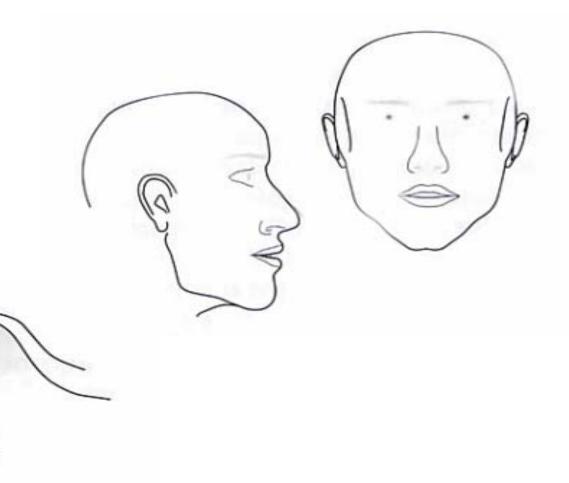




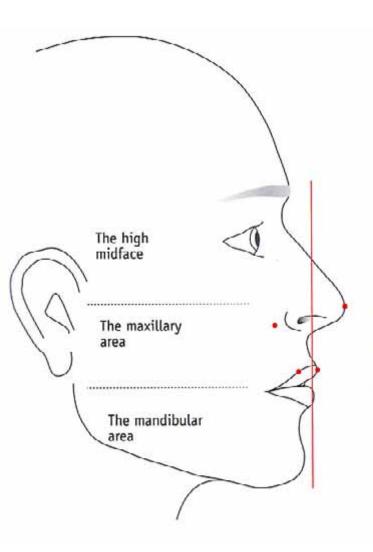
The clinical examination

- Profil view
- Frontal view

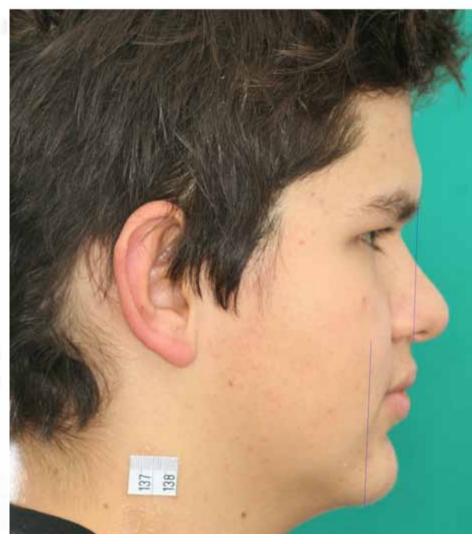
• The joints



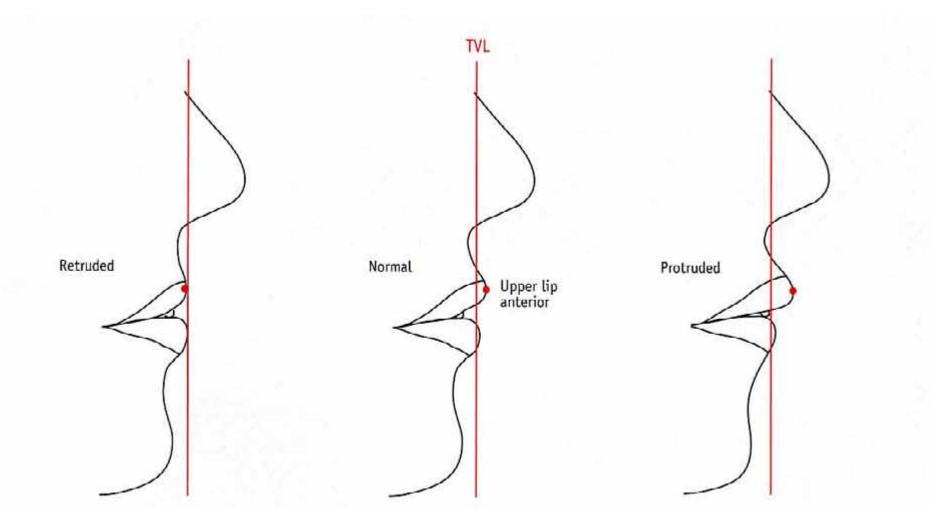




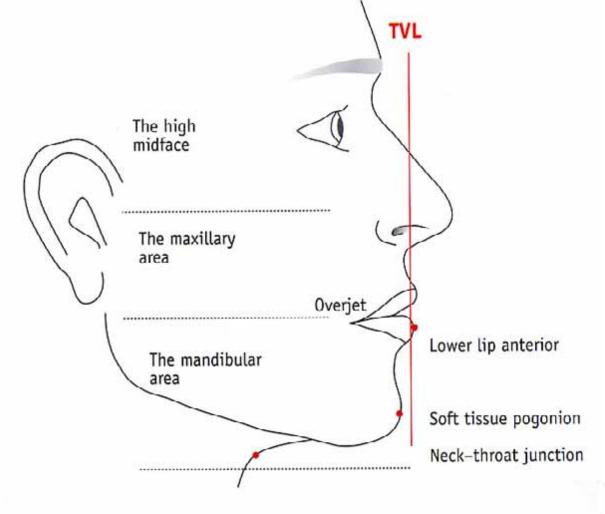
Nasal tip
Nasal base
Upper lip support
Upper lip anterior





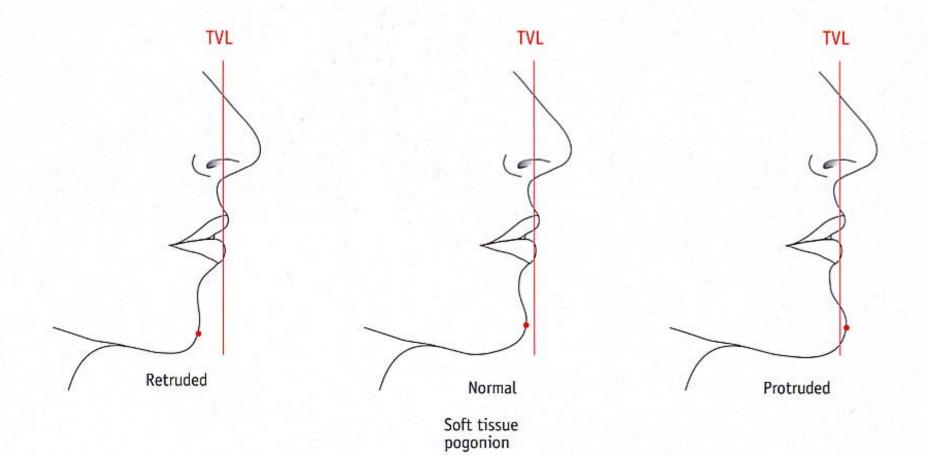




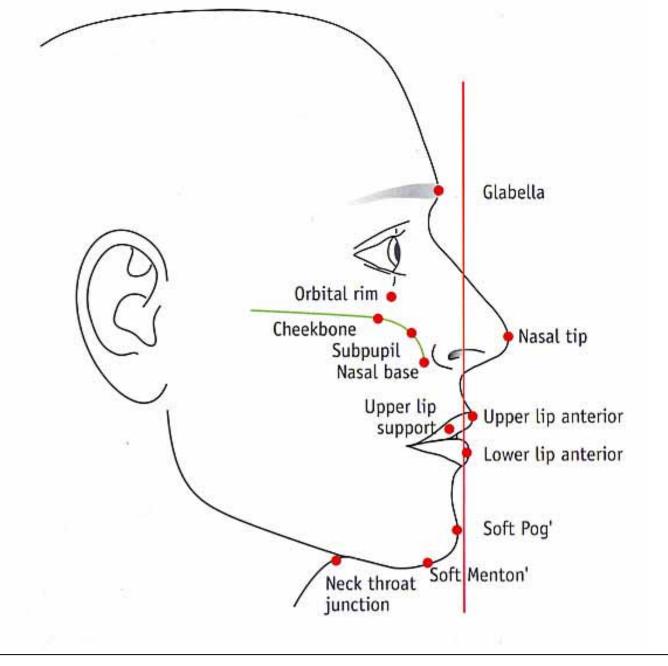




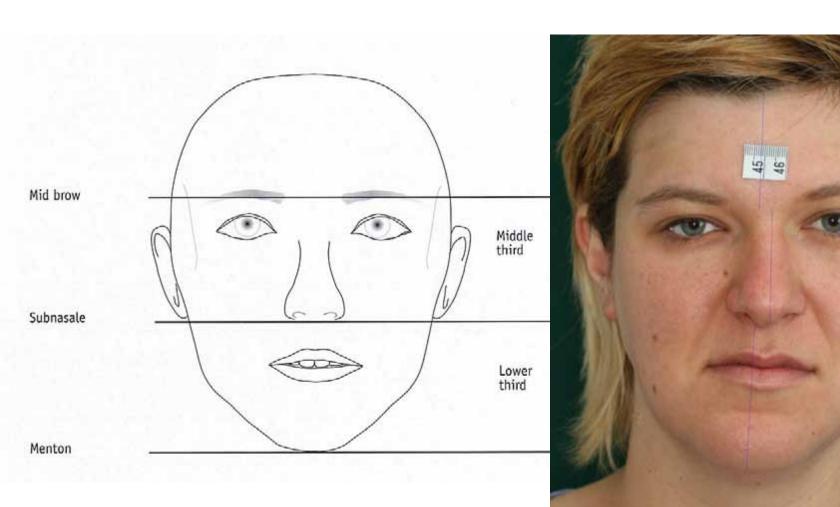




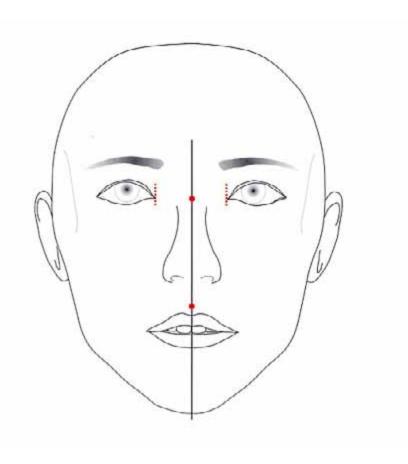


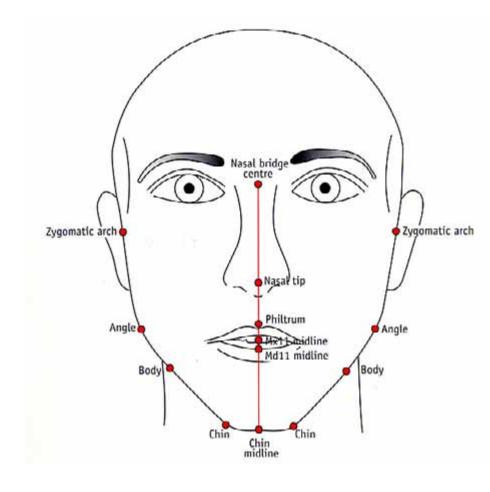










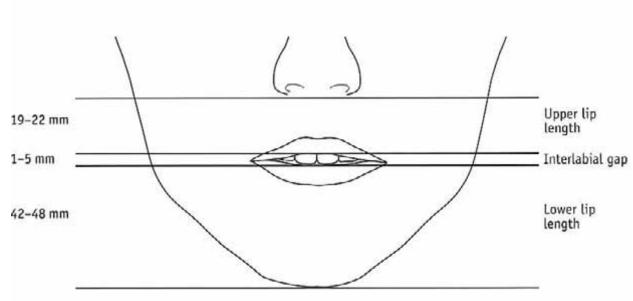






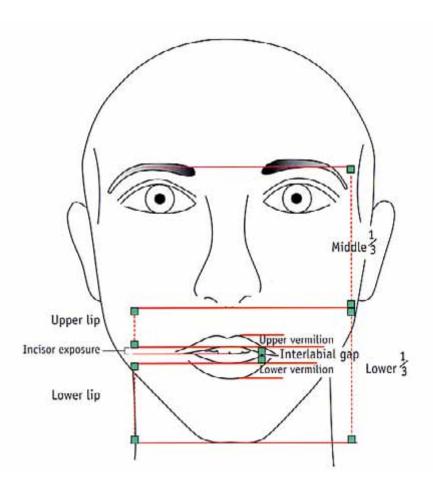


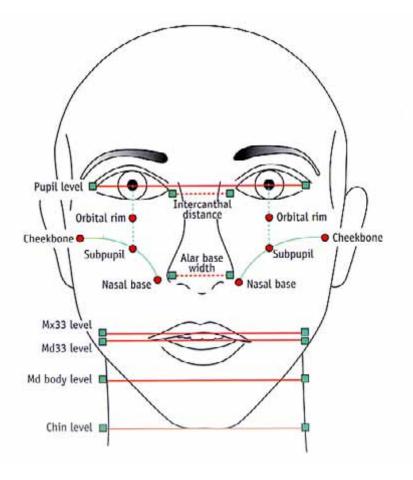






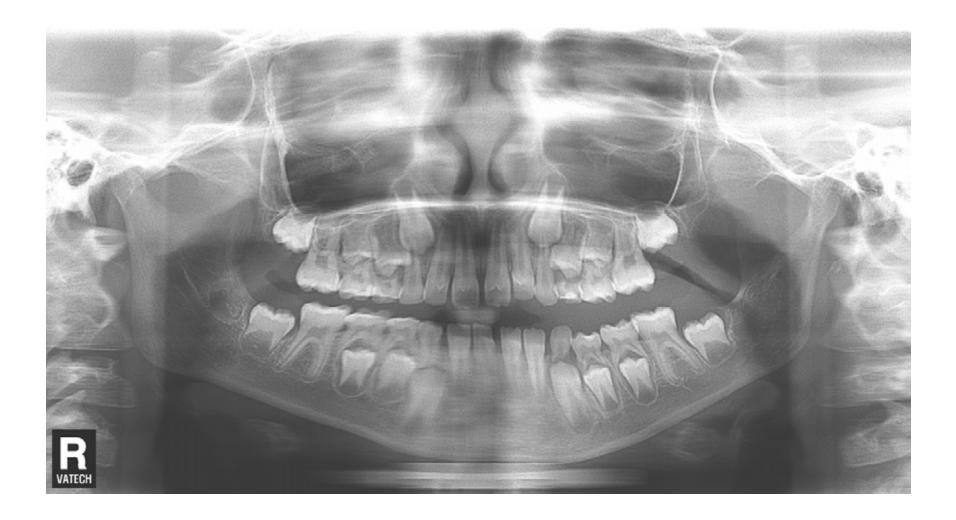










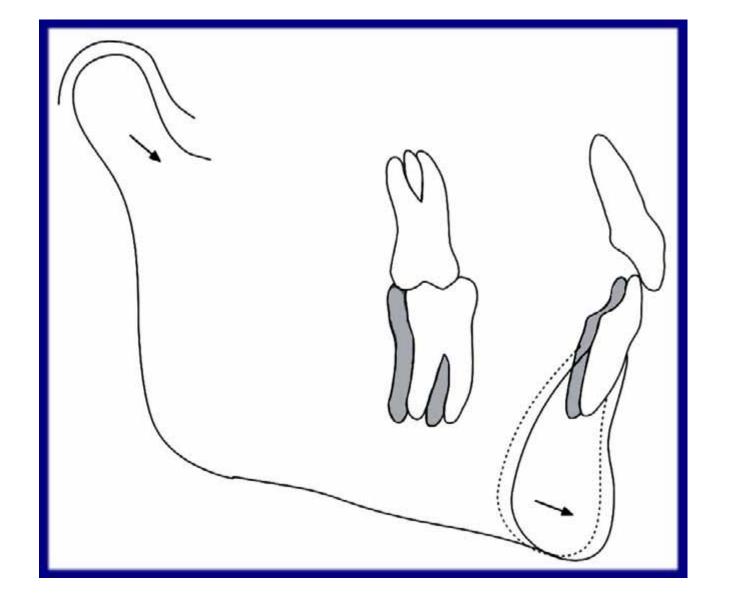






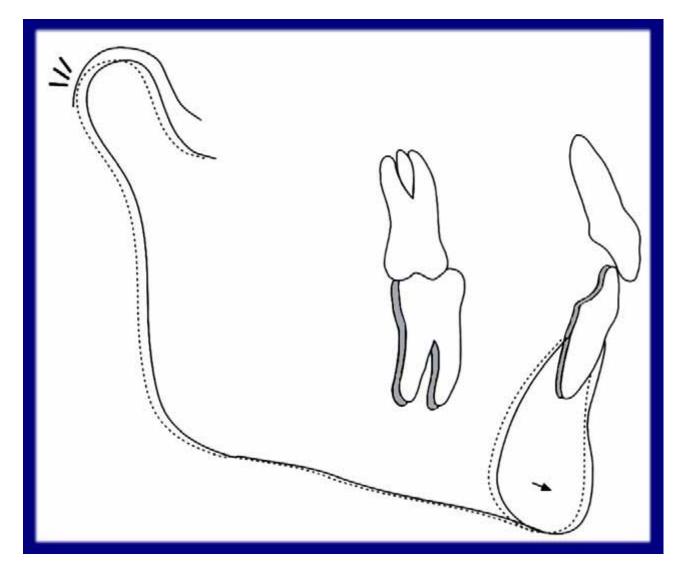
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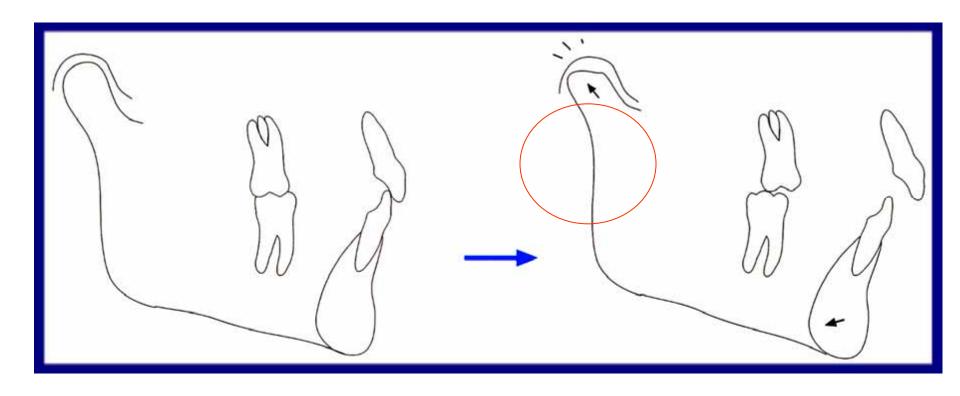
A change in the length of the mandible





A change in the A/P position of the mandible, due to changes in the position of the condyles in the fossae





Idiopathic condylar resorption is fortunately seldom seen, and is difficult to manage. It can result in unfavorable downward and backward movement of 'B' point during or after orthodontic treatment.







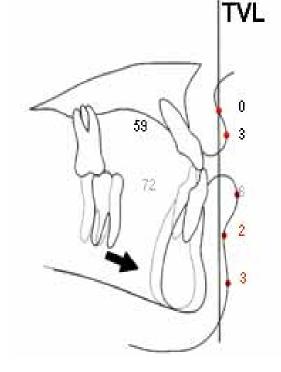
Idiopathic condylar resorption occurs mainly in females. It is not well understood, and fortunately is rare. It can be unilateral. It causes a reduction in the length of the mandible, and this in turn results in an increase in overjet and anterior open bite.



Facial treatment plan

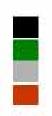
 Soft Tissue Cefalometric Analysis STCA

Cefalometric
 Treatment Planing



Color codes used with the Arnett soft tissue cephalometric analysis

Black = within 1 SD Green = within 2 SD Blue = within 3 SD Red = more than 3 SD

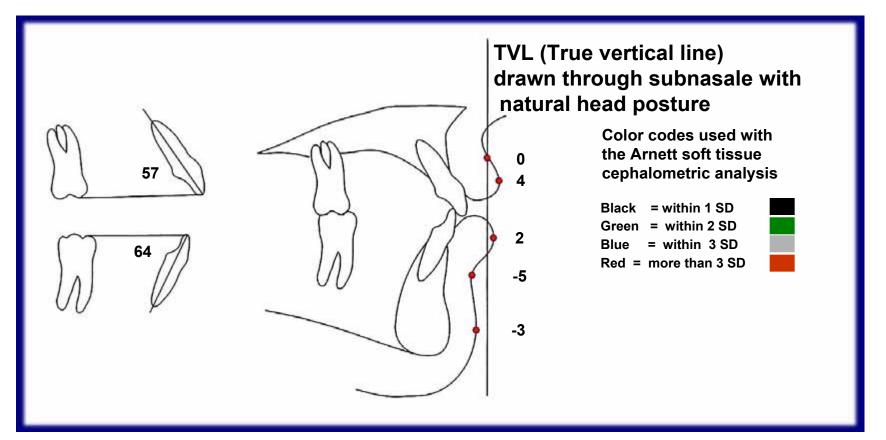






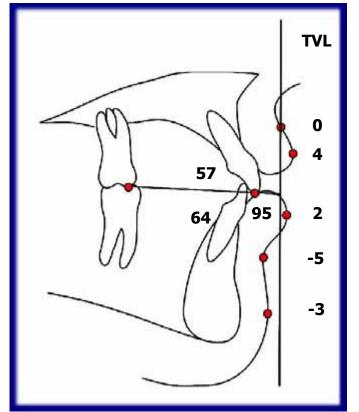


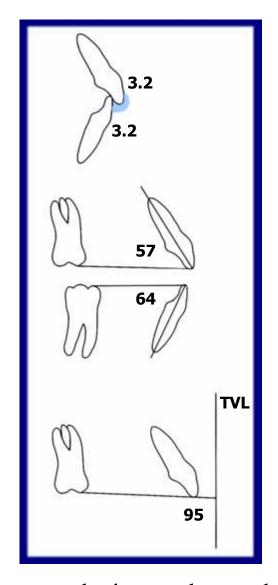




Only seven measurements from the STCA are included here. The upper incisor torque is measured relative to the maxillary occlusal plane and the lower incisor torque is measured relative to the mandibular occlusal plane. In this diagram, the following are projected to the true vertical line (TVL): Soft tissue 'A' point, upper lip anterior, lower lip anterior, soft tissue 'B' point, and soft tissue pogonion. Black numbers are within 1 SD to normal.

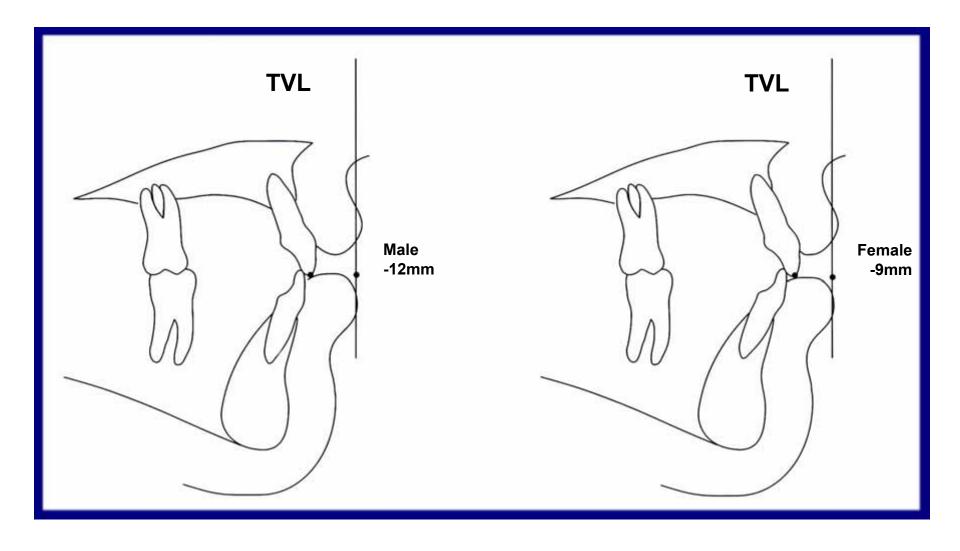
	female	male
• MxOP	95.6 ± 1.8	95.0 ± 1.4
• Mx1 to MxOP	56.8 ± 2.5	57.8 ± 3.0
 Md1 to MdOP 	64.3 ± 3.2	64.0 ± 4.0
• overjet	3.2 ± 0.4	3.2 ± 0.6
• overbite	3.2 ± 0.7	3.2 ± 0.7





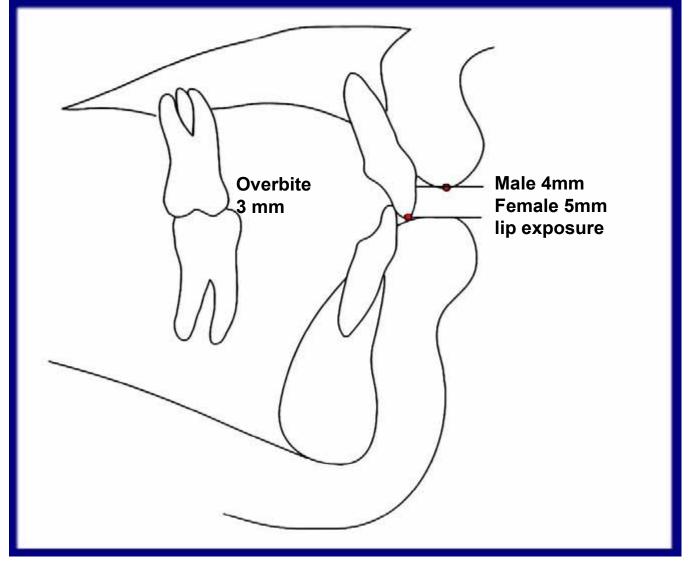
During the final stages of treatment the Arnett analysis may be used to evaluate facial profile and dentoskeletal structures.





The Arnett analysis relates upper incisor position to a true vertical line (TVL) and requires different ideals for males and females.

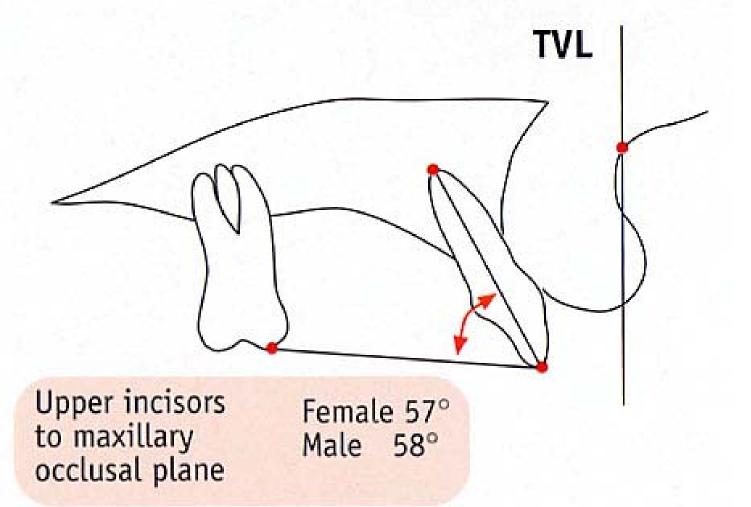




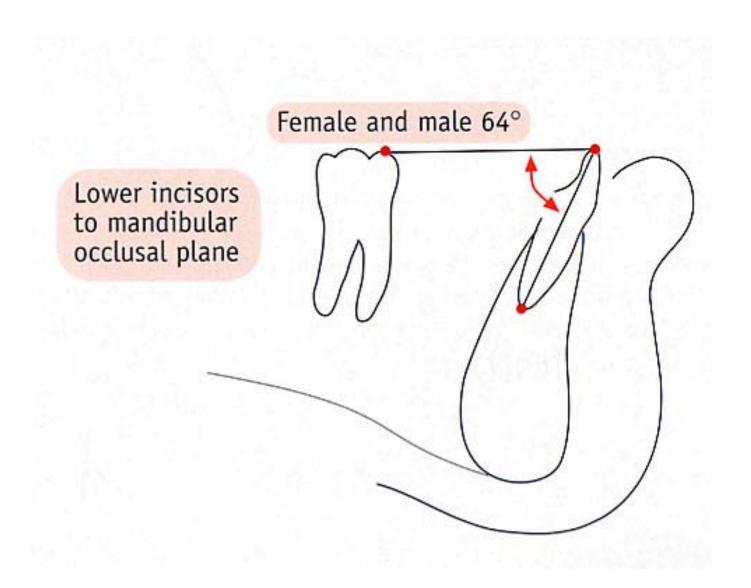
Conventional orthodontic analysis does not provide clear goals for vertical upper incisor position. In contrast, the Arnett analysis quantifies incisor overbite and incisor exposure, with lips at rest.



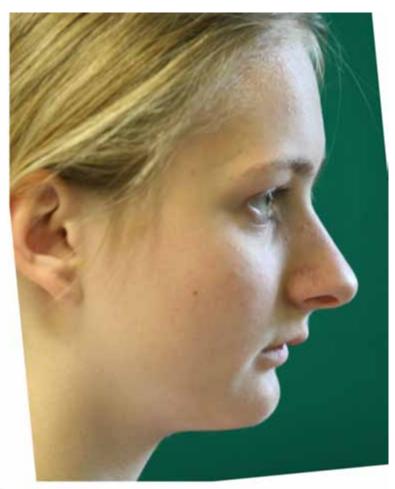


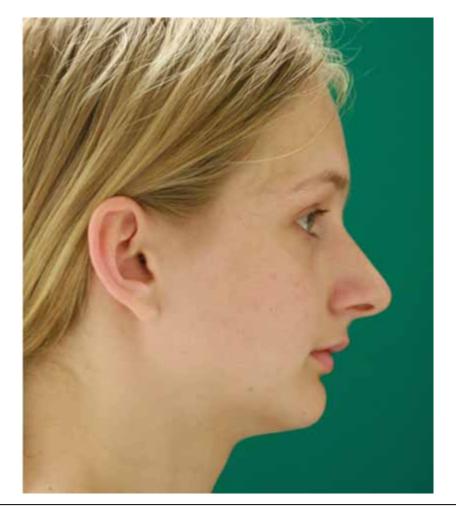




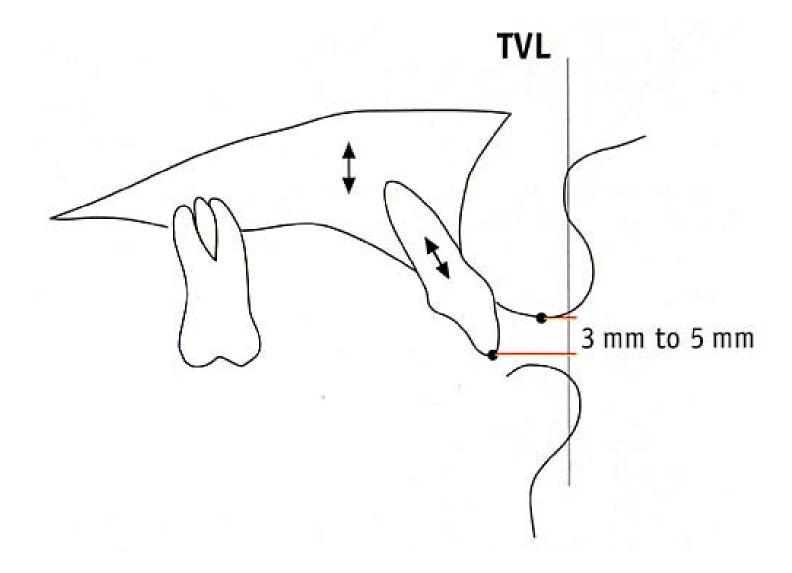






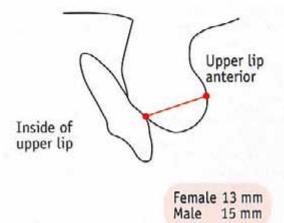


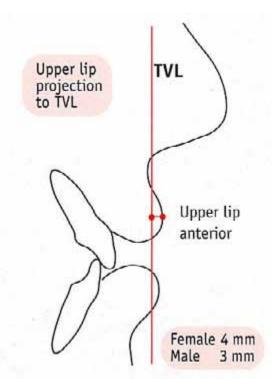


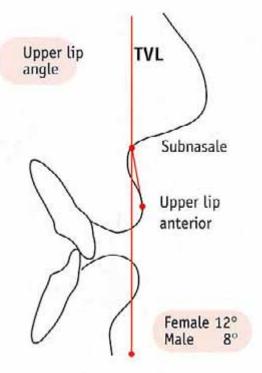




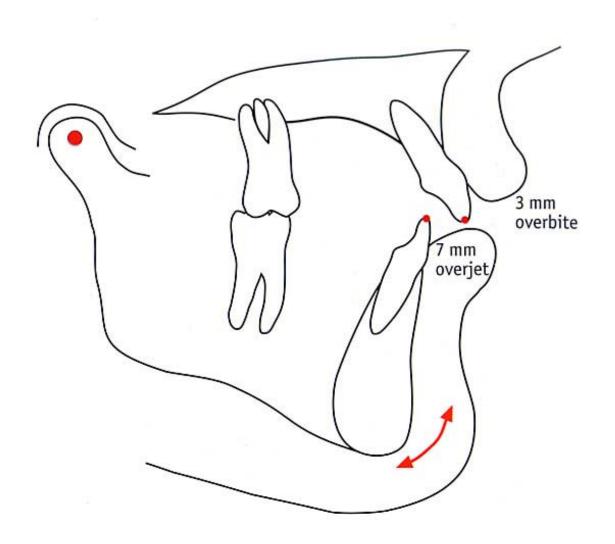




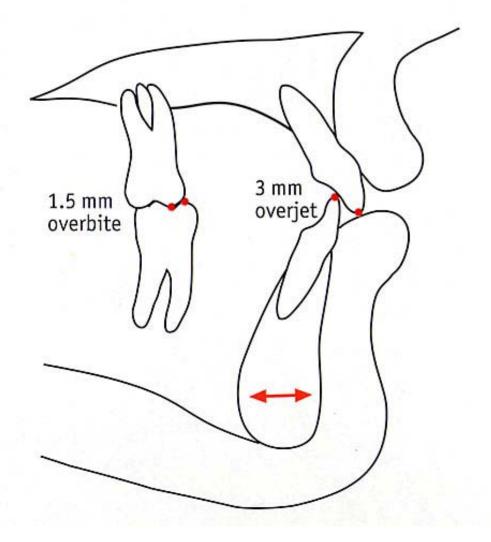






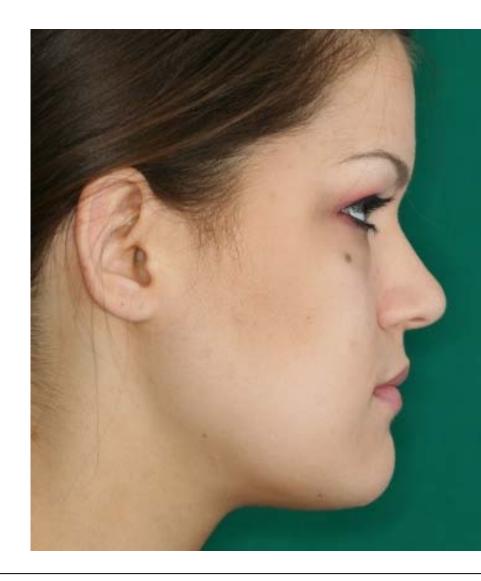




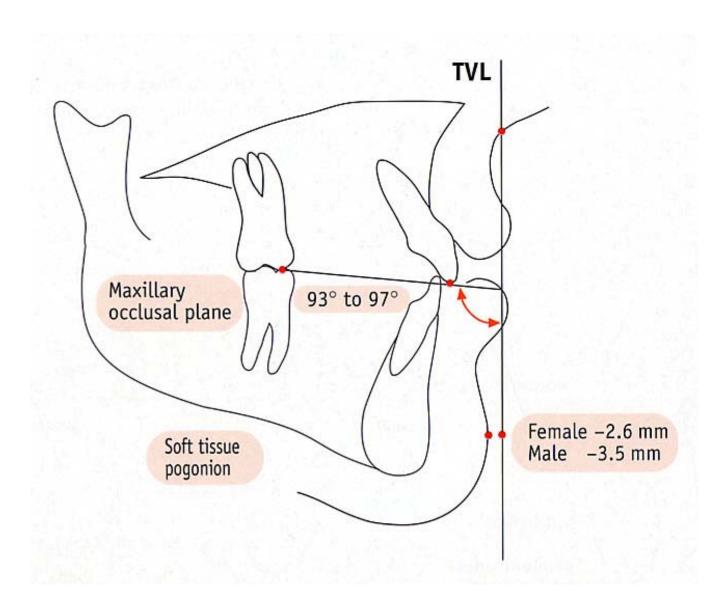




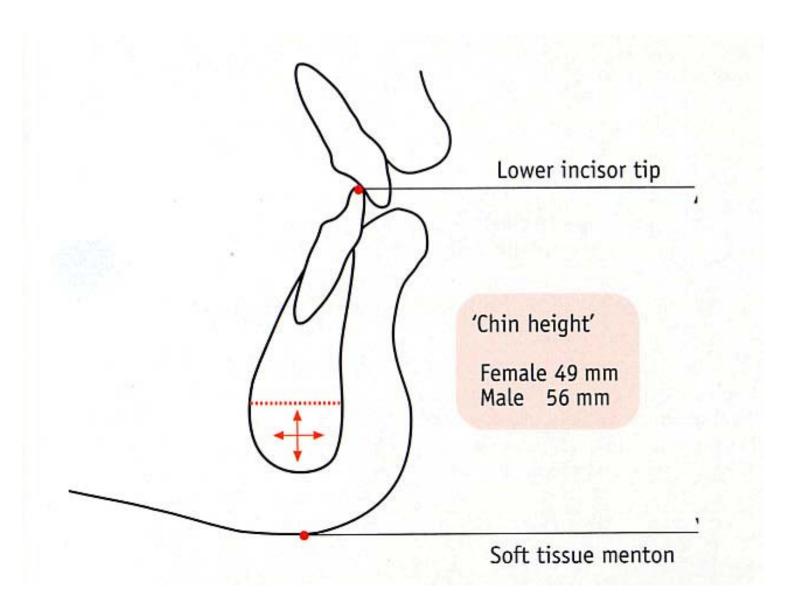














3D Diagnosing

 Patient with disturbance of breathing





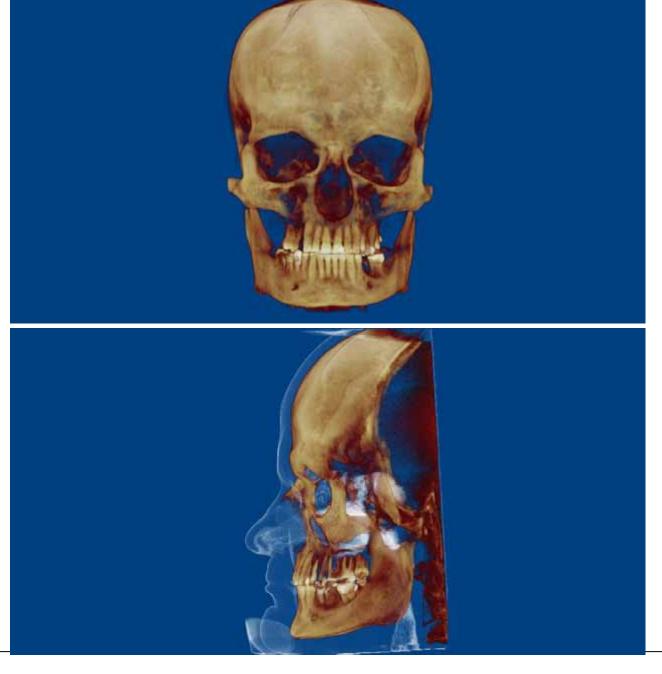














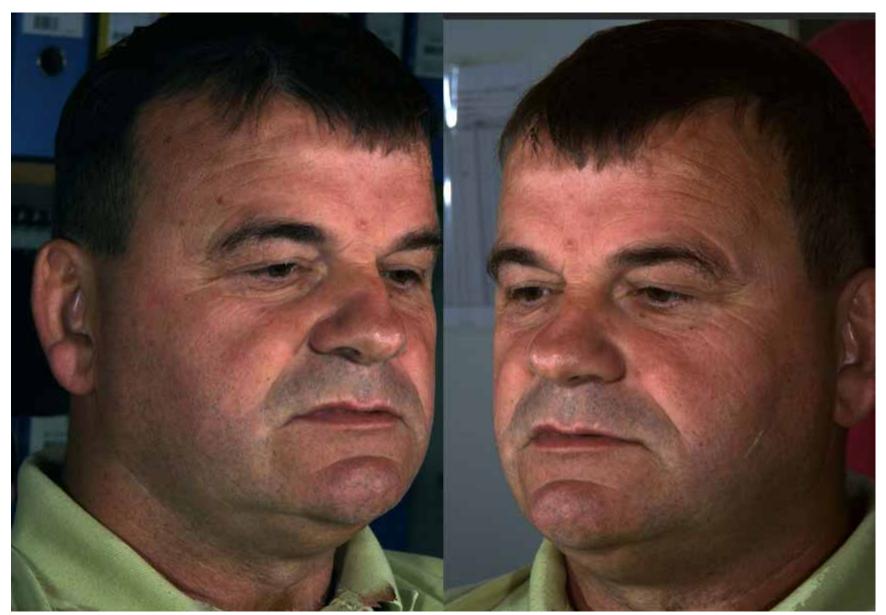
Uroš Mezeg dr. dent. med



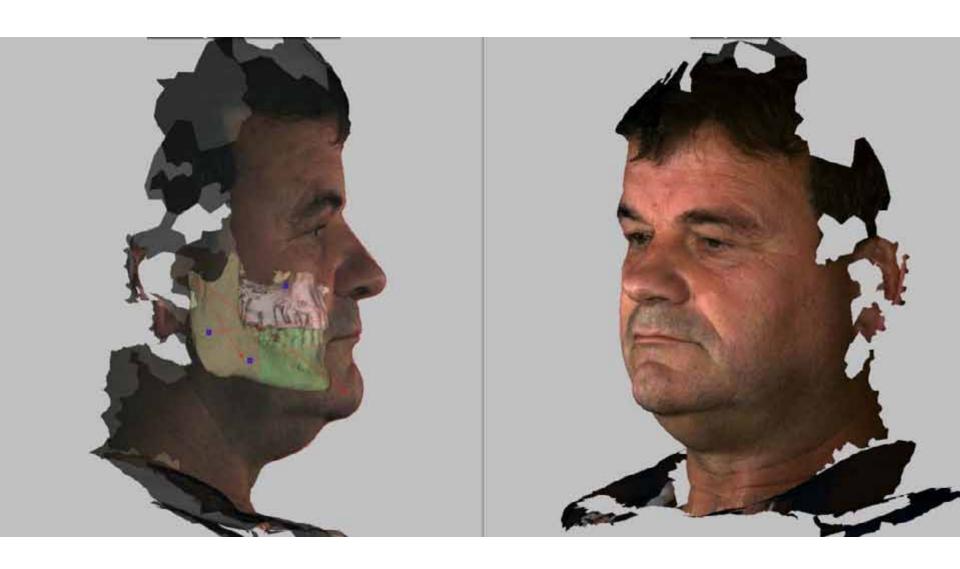


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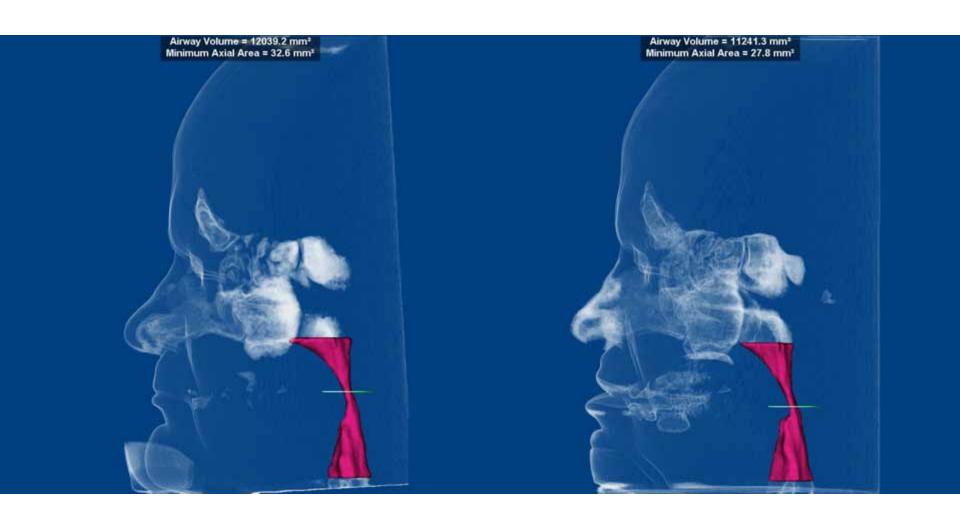


















VIRI

- FACIAL AND DENTAL PLANNING FOR ORTHODONTISTS AND ORAL SURGEONS; G. William Arnett, Richard P. McLaughlin
- SYSTEMIZED ORTHODONTIC TREATMENT MECHANICS; Richard P. McLaughlin, John C. Bennett, Hugo J. Trevisi;
- G. W. Arnett:
 - PROGRESSIVE MANDIBULAR RETRUSION part I and II
 - FACIAL KEYS part I and II
 - STCA DIAGNOSIS AND TREATMENT
 - A REDEFINITION OF BSO ADVANCMENT RELAPSE
 - COMPARISON OF SKELETAL AND DENTAL NORMAL JOINTS
 - COMPARISON OF SKELETAL AND DENTAL MORPHOLOGY BILATERAL DJD
 - COMPARISON OF SKELETAL AND DENTAL UNILATERAL DISK DISPLACE
 - FACIAL ANALYSIS



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