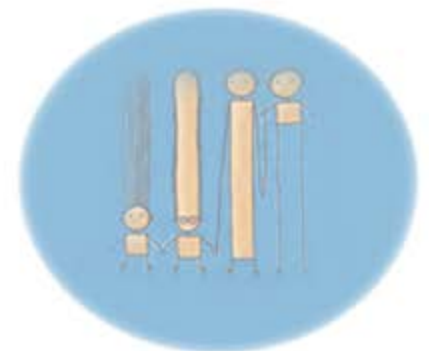
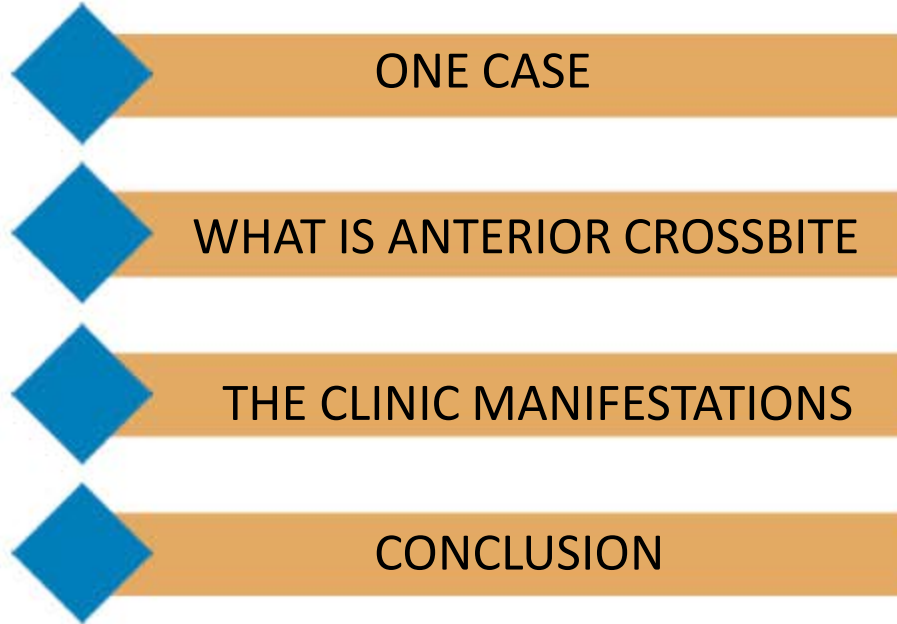


the clinic manifestations

Anterior Crossbite



LET'S START WITH THIS CASE





Anterior Crossbite

Anterior crossbite

前牙反𪙇

One of the most frequently occurring malocclusions.

The lower front teeth are more prominent and anterior than the upper front teeth.

Angle's class III malocclusion.

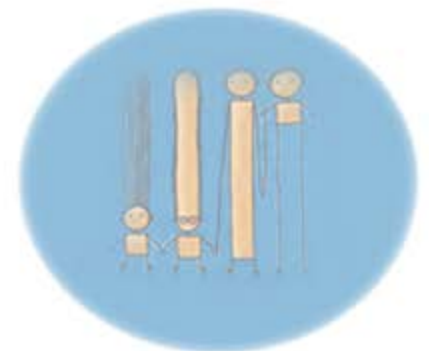


RIGHT



LEFT

THE CLINIC MANIFESTATIONS



1. Developmental Defects of Jaw

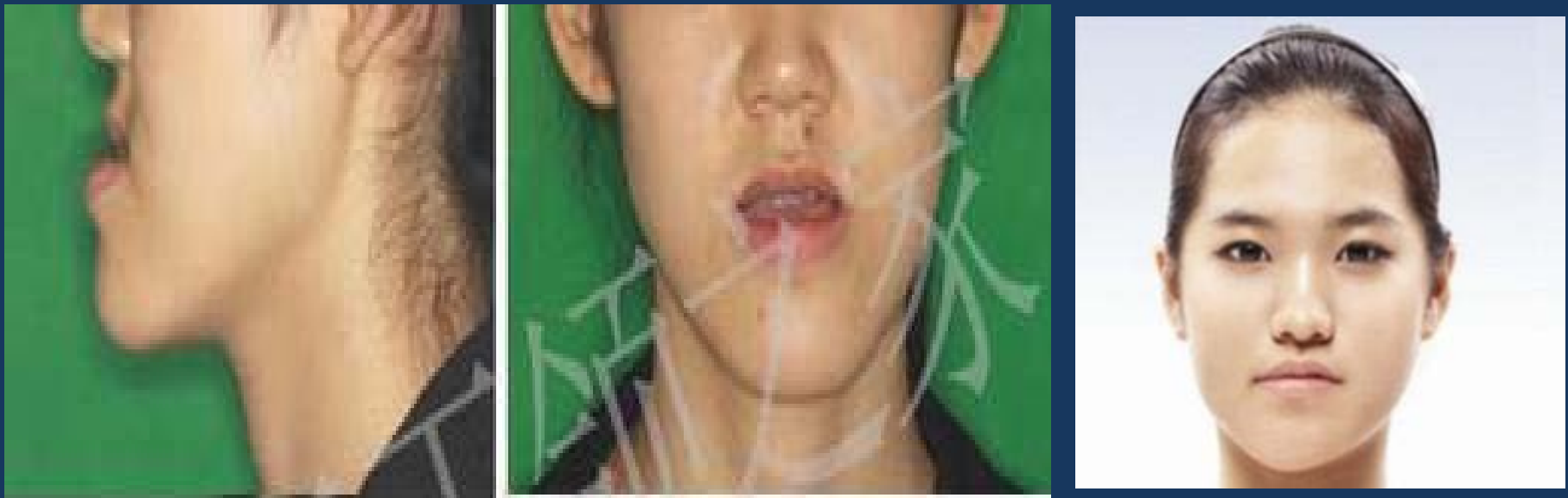
Mandible:

overgrowth mandible 颌骨过度发育

dysplasia exists 存在畸形

an asymmetric change in condylar position.

髁突位置的不对称



1. Developmental Defects of Jaw

Maxillary:

Maxillary maxilla constriction 上颌骨缺失

upper dental arch constriction 上牙弓缩小

Dental crowding 牙列拥挤



Maxillary machine constriction



2.Soft Tissues

Grow in a normal way

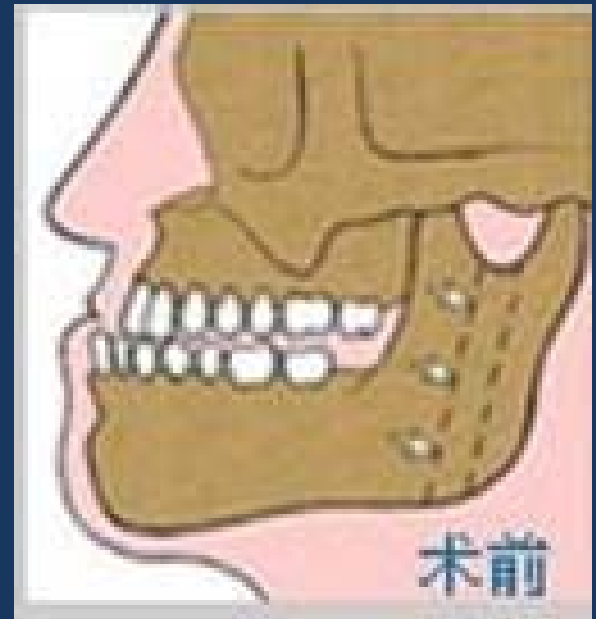
some changes of the thickness of the soft tissues around lips and chin

compensate the skeletal deformity.

生长正常

唇部 下巴厚度改变

代偿 骨性畸形



3.Mastication

Masticatory efficiency 咀嚼效能降低：

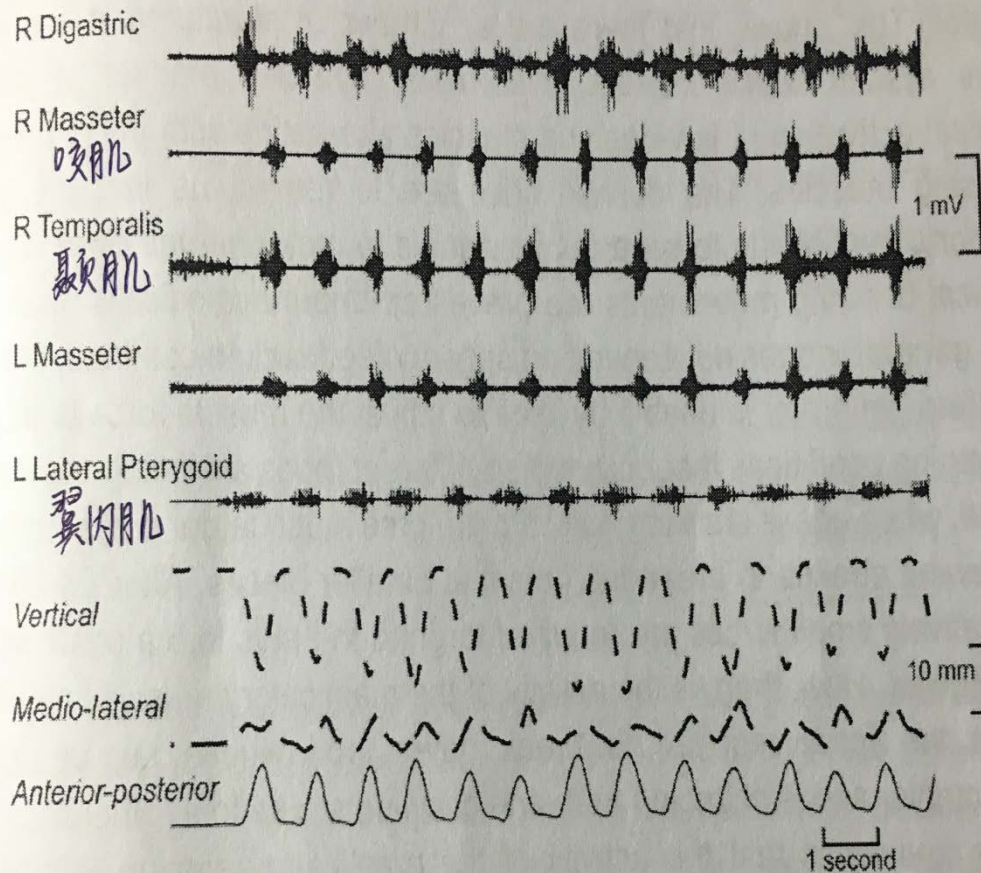
- problems on biting
- decrease the contact area of the teeth
lower masticatory efficiency



3.Mastication

Uncoordinated mastication 咀嚼活动不协调：

EMG (electromyograph),



The pattern of activity of some jaw-opening and jaw-closing muscles that produced the movements will be shown as the electromyogram (EMG) records.

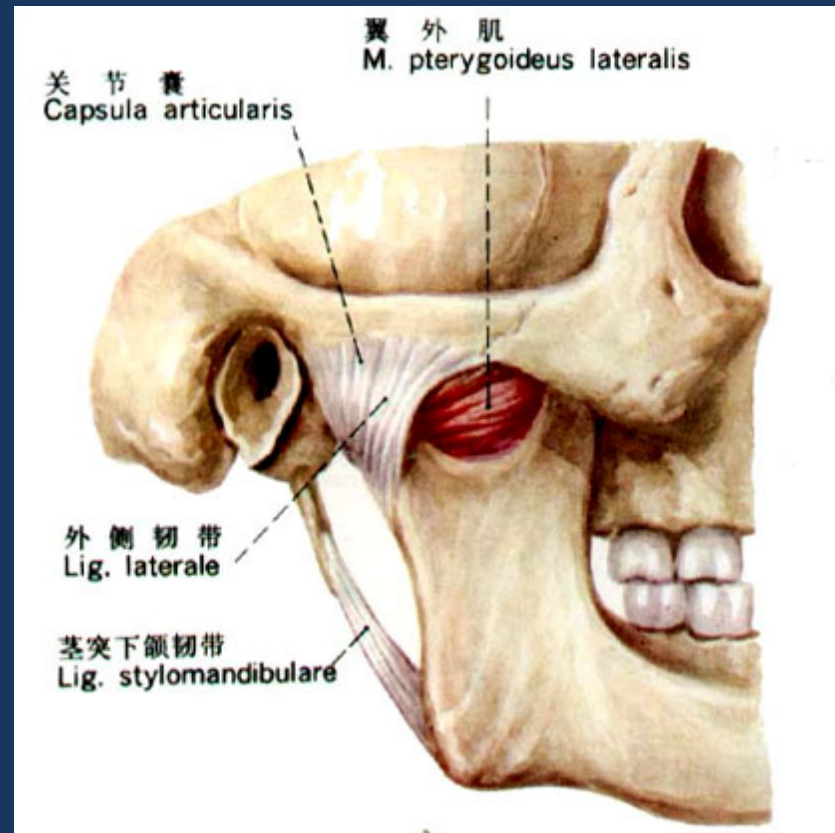
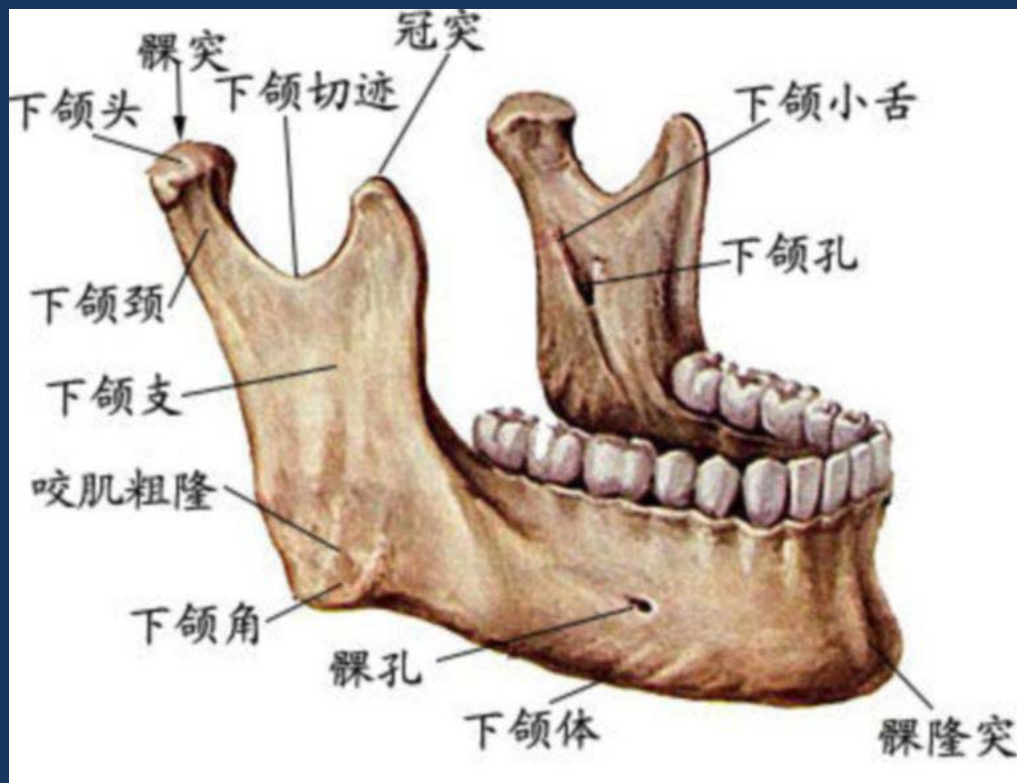
Difference in the electrical activity of their temporalis and masseter.

Temporomandibular joint disturbance syndrome

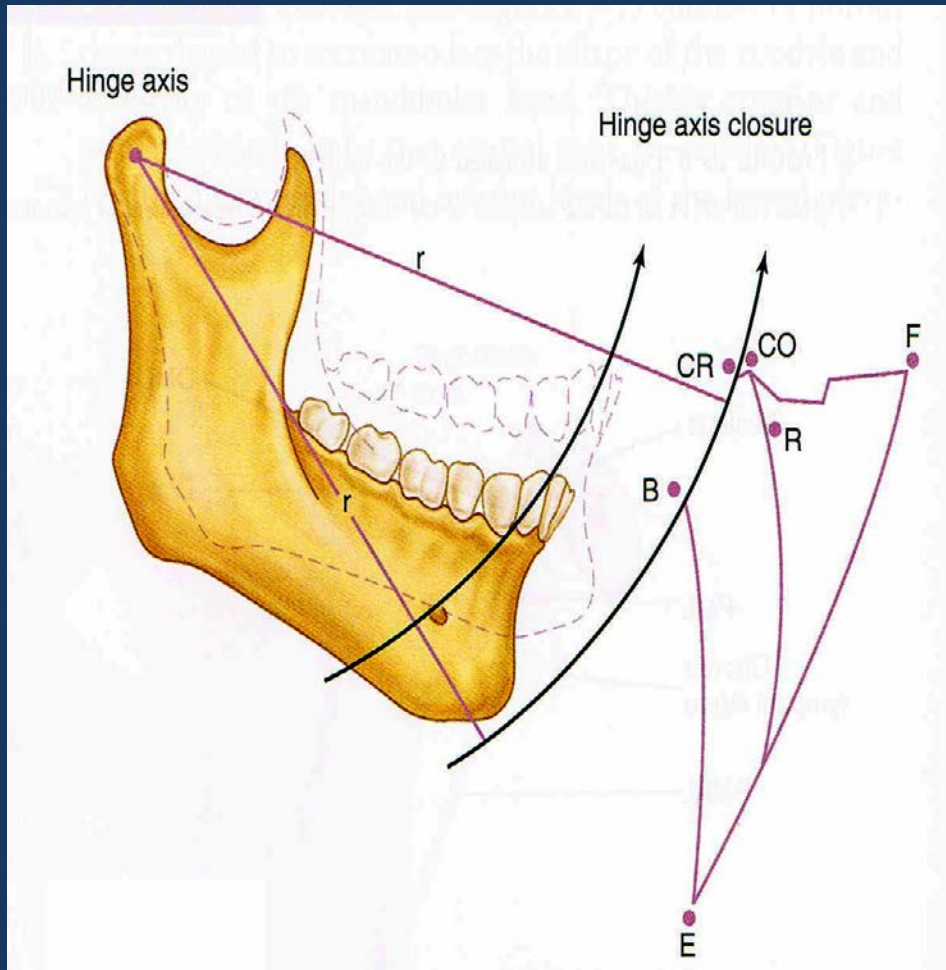
Malocclusion is one of the essential factors.

The condylar are forced to move forward.

Easier to be plagued by this kind of illnesses.



5.Mandible movement



Effected by occlusion.
RCPs do not exist

(provide a buffer space
when the mandible is in
ICP.)

6.Aesthetic Problem

Facial depression and mandibular protrusion.

Lead to anterior dental crowding.

Mental problems.



Conclusion

Effects stomatognathic system (口颌系统).

A series of clinical symptoms.

A negative impact on the quality of life.

Consequently

Early diagnosis and treatment.

To eliminate the occlusal interferences and deviation of the mandible on closure.

(消除 牙合 干扰 和下颌位置的偏移)

Target : harmony, stable and aesthetic.



Thank you