

Version 2 (December 12, 2018) Faculty can add a clinical or imaging picture

Learning objectives

- Describe different types of condylar fracture
- Discuss signs and symptoms
- Select appropriate imaging modalities and interpret the findings

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Comment on the most frequent occlusal disturbance and why there is early molar contact on the fracture side





Comment that the reason of a medial condyle displacement is because the lateral pterygoid muscle classically will pull a condylar fracture medially



- What is meant by a subcondylar fracture, neck fracture, etc?
- Different types of condylar head fracture and many different classifications.



Describe that closed procedures can mean firm or loose (elastic guided) MMF or a combination



- Controversial area.
- Absolute indications described by Zide and Kent (Zide MF, et al. Indications for open reduction of mandibular condyle fractures, *J Oral Maxillofac Surg.* 1983).
- No other way to treat the patient-debatable?
- Angulation of fragments is a debatable point—some papers suggest anything more than > 10° angulation and fracture should be fixed (others state > 30°).
- Similarly overlap of fragments—some suggest >2 mm or more and fracture should be fixed because of loss of posterior ramus height, others state > 5 mm).



- ORIF choice of one plate or two.
- Now there are a variety of hybrid plates—an example is shown.



Left condylar fracture treated with a single miniplate.

Note: This single miniplate may not be the ideal form of fixation in this case.

Leaving a blank screw hole is not as preferable as using a formal spaced plate.

A thicker plate would be preferable as a single miniplate.



Plate at sigmoid notch and stronger plate at posterior.

Comment that hybrid plate provides the same stability as double plating.



- In selected centers endoscopic or endoscopic-assisted ORIF may be performed.
- Requires specialized equipment and operative skills.

Rehabilitation

- Early active mobilization
- May require physiotherapy

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Take-home messages

- Assess fracture carefully:
 Clinically and radiologically
- Treatment plan
 - Nonoperative vs operative
- Operative:
 - Closed (MMF)
 - ORIF
- Rehabilitation

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