Condylar Process Fracture (Child)

Findings

- Trauma to chin or parasymphysis
- Pain and tenderness in Temporomandibular Joint region
- Unilateral malocclusion & premature tooth contact, contralateral posterior open bite, and deviation of midline to side of injury with Unilateral fractures
- Anterior open bite & retrognathia with Bilateral condylar fractures

Diagnostic Imaging

- Computerized Tomography (Axial & Coronal)
- Panoramic radiograph
- Anteroposterior radiograph
- Towne projection radiograph

Unilateral

Minor displacement

- Fractures with contact of the segments
- Intracapsular Fractures

Closed Reduction

- No more than 2 weeks of Maxillomandibular Fixation
- Active Physical therapy

Major displacement

- No contact of segments

Open Reduction

- No Maxillomandibular Fixation
- Guiding elastics for deviation on mouth opening

Bilateral

Minor displacement

- Fractures with bilateral contact of the segments
- Intracapsular Fractures

Closed Reduction

- No more than 2 weeks of Maxillomandibular Fixation
- Active Physical therapy

Major displacement

- Treat both sides if no contact of the segments
- Treat only the side without contact if there is contralateral contact

Open Reduction

- No Maxillomandibular Fixation
- Guiding elastics for deviation on mouth opening

Postoperative Care

Inform parents of possible future retrognathia or laterognathia