Comprehensive AOCMF Classification System

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Mandibular fractures – Level-2 system (cases 1 to 18)
Case 1: Body fracture traversing anterior transition zone

Imaging: 3 D Reformatted CT scans (surface rendering): anterior oblique view, oblique basal view with making of anterior transitional zone, basal view, inside (lingual) view.

Description: Oblique fracture starting in interdental space between lateral lower incisor and canine, travelling back and downwards across the transitional zone. Lingual view confirms the course of the fracture line over the transitional zone.

Level 2 Code: 91 m.B
AOCOIAC case CMTR-91-003
Case 2: Body region fracture

Imaging: Panorama x-ray
Description: vertical fracture line along the periodontium of first molar to inferior mandibular border.

Level 2 Code: 91 B.m
AOCOIAC case CMTR-91-004
Case 3: Angle fracture in posterior transition zone

Imaging: Panorama x-ray, a.p. 15° - Clemenschisch

Description: Vertical fracture line just behind the posterior transition zone on the left. The wisdom tooth (38) is involved.

Level 2 Code: 91 m.A
AOCOIAC case CMTR-91-005
Case 4: Fracture fully within posterior transition zone

Imaging: Panoramic x-ray

Description: Almost vertically running fracture within the posterior transition zone on the left, transsecting the root bifurcation of the wisdom tooth (38).

Level 2 Code: 91 m.A
AOCOIAAC case CMTR-91-007
Case 5: Horizontal angle / ramus fracture

Imaging: Panorama x-ray

Description: Single horizontal fracture within the angle / ramus region on the left side

Level 2 Code: 91 m.A

AOCOIAC case CMTR-91-008
**Case 6: Vertical angle / ramus fracture**

Imaging: 3D CT reformation

Description: A vertical fracture line running from the coronoid process to the inferior border of the mandible. The fracture does not separate the coronoid process from its base. Therefore it is not classified as a coronoid fracture. It corresponds to a typical vertical ramus fracture, which is encompassed in the angle/ramus region.

**Level 2 Code: 91 m.A**

AOCOIAC case CMTR-91-010
Case 7: Isolated coronoid fracture

Imaging: CT Scans coronal, sagittal, axial, 3D Reformation: volume and surface rendering
Description: single fracture line separating the coronoid process on the left from its base.

Level 2 Code: 91 m.C
AOCOIAC case CMTR-91-011
Case 8: Condylar process fracture

Imaging: CT Scans coronal, axial. 3 D Reformation volume rendering

Description: Fracture line running through the base of the condylar process on the left side (Level 3). The small fragment is laterally displaced (lateral override) and angulated medially. The bony contact between the fragments is not completely lost. The condylar head is orthtotopically distorted within the fossa.

Level 2 Code: 91 m.P Level 3 P (left) Code: B0

AOCOIAC case CMTR-91-012
Case 9: Double fracture of the mandible

Imaging: Panoramic X-ray
Description (Level-2): Double fracture of the mandible - Condylar process fracture with displaced fragment of the condylar head on the right, and symphyseal fracture, with vertical fracture line within the symphyseal region extending from the interdental space between the medial and lateral incisors (21/22) to the inferior mandibular border.

Level 2 Code: 91 P.S
AOCOIAC case CMTR-91-014
Case 10: Double fracture

Imaging: 3D CT Reformation
Description: Double fracture of the mandible - Angle / ramus fracture with fracture line from the retromolar area on the right downward to the inferior border within the posterior transition zone, and body fracture with oblique fracture line across the anterior transition zone on the left.

Level 2 Code: 91 A.m.B
AOCOIAC case CMTR-91-016
Case 11: Multifragmented fracture within right ascending ramus with condylar process involvement

Imaging: 3D CT Reformations of mandibular ramus on the right (lateral view, anterior view, inside view) coronal CT scan at midlevel of the ramus

Description: Multifragmentation within right ascending ramus. One fracture line separates the condylar process at its base from the ramus

Level 2 Code: 91 P.C
AOCOIAC case CMTR-91-017
Case 12: Triple mandibular fracture (1)

Imaging: Panoramic xray, 3D reformatted CTs, sagittal CT slices at the level of the right condylar process

Description: Fracture one: Fracture line from the (sigmoid) mandibular notch on the right running backwards along the base of the condylar process to the outer angle - angle/ramus. From a functional viewpoint it can be regarded as condylar process fracture.

Fracture two: Fracture line extending from the toothless molar area on the right posteriorly downward crossing the posterior transition zone and ending in the inferior border of the angle. Basal wedge at the lingual aspect.

Fracture three: Fracture line from the posterior aspect of 35 to lower mandibular border - body fracture.
Level 2 Code: 91 A-B.m.B
AOCOIAC case CMTR-91-018
Case 13: Triple mandibular fracture (2)
Imaging: Panoramic x-ray and CT scans (3D Volume Rendering, MPR coronal, sagittal right, MPR sagittal left, 3D Surface Rendered Views)

Description: Fracture one: Fracture starting from the anterior part of the sigmoid notch separating the base of the condylar process in a rectangular fashion - condylar process fracture. Fracture two: Fracture line running from the interdental space between the medial and lateral incisors on the right (41/42) halfway vertically downward into the anterior transition zone - symphyseal fracture. Fracture three: Oblique fracture from the left retromolar area to the outer angle - angle fracture.

Level 2 Code: 91 P.S.A
AOCOIAC case CMTR-91-019
Case 14: Triple mandibular fracture (3)

Imaging: 3 D CT Reformations

Description: Fracture one and three: Sagittal fracture line separating the condylar head including the pole zone on the right and left (condylar head bearing fragments in red) - level 2: bilateral condylar process fractures. Fracture two: vertical midline fracture - symphyseal fracture.

Level 2 Code: 91 P.S.P

AOCOIAC case CMTR-91-020
Case 15: Multiple mandible fractures

Imaging: 3 D CT Reformations
Description: Panfacial fracture with multiple fractures in the mandible: condylar process right, angle/ramus right, symphysis contiguous with the body on the left, coronoid process left and condylar process left.

Level 2 Code: 91 P.A.S-B.C.P
AOCOIAC case CMTR-91-021
Case 16: Mandibular fracture within the posterior transitional zone

Imaging: 3D CT Reformations

Description: Oblique fracture line from the tooth gap anterior to the second molar downwards and backwards into the posterior transition zone on the left. - body fracture

Level 2 Code: 91 m.B
AOCOIAC case CMTR-91-022
Case 17: Condylar process fracture on edentulous mandible

Imaging: Panoramic x-ray and 3D CT Reformations
Description: Fracture from sigmoid notch posteriorly downwards within the condylar base (Level 2)

Level 2 Code: 91 m.P
AOCOIAC case CMTR-91-023
Case 18: Mandibular body fracture

Imaging: 3D CT Reformations

Description: Sagittal fracture reaching from the lower canine on the outer table to the molar area on the inner table. Body fracture (Level 2).

Level 2 Code: 91 m.B
AOCOIAC case CMTR-91-025