SMGr&up

SM Dentistry Journal

Article Information

Received date: Mar 14, 2018 Accepted date: Apr 13, 2018 Published date: Apr 18, 2018

*Corresponding authors

Karthik Shunmugavelu, Consultant Dental Surgeon, Mercy Multispecialty Dental Centre, India, Tel: 0091-9789885622; Email:drkarthiks1981@gmail.com

Distributed under Creative Commons CC-BY 4.0

Article DOI 10.36876/smd.1019s

Clinical Image

Bilateral Fracture of Medial Poles of Condyle and Fracture of Symphysis, Bilateral Parasymphysis of Mandible due to Road Traffic Accident

Karthik Shunmugavelu^{1*} and Kumaravel Subramaniam²

¹Consultant Dental Surgeon, Mercy Multispecialty Dental Centre, India ²Consultant Oral and Maxillofacial Surgeon, SPMM Multispecialty hospital, India

Three dimensional computed tomography of 35 year old male patient due to road traffic accident. Clinical examination revealed restricted mouth opening of one finger breadth, oedema, subconjunctival haemorrhage, deviation of mandible during mouth opening and deranged occlusion. Bilateral condylar fractures observed along with fracture of mandible pertaining to symphysis and parasymphysis regions. Computed tomography axial section (Panel B and Panel G) depicts multiple fractures in relation to symphysis and parasymphyseal region extending up to the midpoint of left body of mandible and bilateral medial poles of mandibular condyle. Coronal sections (Panel A) revealed fracture of medial pole of the condylar head bilaterally and left parasymphyseal region. Three dimensional coronal sections (Panel C) revealed comminuted fracture in relation to maxillary alveolus involving left maxillary central and lateral incisor and fracture of left and right parasymphyseal regions. Three dimensional left and right lateral views (Panel D and Panel E) depicted respective parasymphyseal fractures of the mandible. Three dimensional axial views (Panel F) depicted fractured medial poles of right and left mandibular condyle and lingual extension of fracture from mandibular symphysis to the midpoint of body of the mandible. Treatment plan included open reduction and internal fixation. The post operative period was uneventful (Figures 1-5).



Figure 1: Coronal facial CT section depicting bilateral fracture of medial poles of mandibular condyle and left parasymphyseal fracture of mandible.

OPEN ACCESS ISSN: 2575-7776

> How to cite this article Shunmugavelu K and Subramaniam K. Bilateral Fracture of Medial Poles of Condyle and Fracture of Symphysis, Bilateral Parasymphysis of Mandible due to Road Traffic Accident. SM J Dent. 2018; 4(1): 1019s. https://dx.doi.org/10.36876/smd.1019s

SMGr*€***up**

Copyright © Shunmugavelu K



Figure 2: Axial facial CT section depicting bilateral fracture of medial poles of condyle.



Figure 3: Coronal 3D facial CT section depicting bilateral parasymphyseal fracture of mandible and left maxillary dentoalveolar fracture involving left maxillary central and lateral incisors.



Figure 4: Right lateral 3D facial CT depicting right parasymphyseal fracture of mandible.



Figure 5: Left lateral 3D facial CT depicting left maxillary dentoalveolar fracture.



Figure 6: Axial 3D facial CT depicting fracture of bilateral medial poles of the mandibular condyle and fracture of the left parasymphyseal region of the mandible.



Figure 7: Axial facial CT depicting fracture of right body of the mandible and parasymphyseal region and left parasymphyseal and body of the mandible.

Citation: Shunmugavelu K and Subramaniam K. Bilateral Fracture of Medial Poles of Condyle and Fracture of Symphysis, Bilateral Parasymphysis of Mandible due to Road Traffic Accident. SM J Dent. 2018; 4(1): 1019s. https://dx.doi.org/10.36876/smd.1019s



SMGr*¢***up**

References

- Natu SS, Pradhan H, Gupta H, Alam S, Gupta S, Pradhan R, et al. An Epidemiological Study on Pattern and Incidence of Mandibular Fractures. Plast Surg Int. 2012.
- 2. Fonseca R J, Barber H D, Powers M P, Frost D E.Oral & maxillofacial trauma 4th edn. W B Saunders Co. 2012: 912.
- Pektas Z O, Bayram B, Balcik C, Develi T, Uckan S. Effects of Different Mandibular Fracture patterns on the Stability of Miniplate Screw Fixation in Angle Mandibular Fractures. Int J Oral Maxillofac Surg. 2012; 41: 339-343.

