Overiew of Forensic Odontology

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Abstract

The treatment of mandibular fractures has been in a constant state of evolution over the past few decades. The most significant advancements related to the management of fractures of the mandible are based on specific technical refinements in the methods of internal fixation. Also there is improvement in the knowledge of anatomy, pathophysiology, pharmacology and biomaterial science which influence our current management of mandibular fractures. Recent mandibular fracture management techniques have allowed for decreased infection rates and biological stable fixation of bone segments. This philosophy produces bony union and restoration of preinjury occlusion and normally eliminates the need for wire maxillomandibular immobilization. All this adds up to a faster, safer, more comfortable return to function. In spite of the presence of these modern techniques, closed reduction has by no means fallen by the wayside and still remains a commonly used procedure.This chapter presents an overview of general treatment principles in the management of mandibular fractures and also discusses the treatment strategies in detail depending on the age and anatomical site involved (symphysis, angle, condyle etc). Mandibular fractures in children and adults need different treatment approaches. Similarly, fractures of different anatomical sites in the mandible need different treatment modalities; they differ in their biomechanics, treatment requirements and complications. So each fracture is discussed individually taking care of the different schools of thought and controversies regarding their management. Major advances in the treatment of mandibular fracture in terms of biomaterials and minimally invasive surgical techniques are also discussed.

Biography

Dr. Pooja Chakraborty is a Forensic Odontologist by profession. She completed her bachelors of dental surgery in 2018 with outstanding marks.She achieved highest university marks in Orthodontics and Conservative dentistry. On her quest to do something different, she went on to pursue her masters in Forensic Odontology thereafter. To her credit she has numerous International and national Paper and Poster Presentations and also bagged few awards for the same. She has contributed articles in both national and international journals and has even co-authored a chapter on 'Recent advances in Forensic Odontology'. She is trained in performing dental autopsies. She has keen interest for forensic archaeology and forensic facial reconstructions. She is actively involved in the field of forensics and has addressed various talks for the graduates, post graduates as well as security professionals. She has been invited as speaker on various platforms. She is actively involved with International agencies dealing with DVI Operations.

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