



Use of Piezoelectric in Oral and Maxillofacial Surgery

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Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Piezoelectric device or piezosurgery device was originally developed for the atraumatic cutting of bone by way of ultrasonic vibrations and as an alternative to the mechanical and electrical instruments that are used in conventional oral surgery. Over the last two decades, an increasing amount of literature has shown that piezoelectric devices are innovative tools and that there is extensive indication for their use in dental implantology and oral and maxillofacial surgery. Recent publications have also shown the benefits of their use in craniofacial surgery, plastic and reconstructive surgery, head and neck surgery, neurosurgery, ophthalmology, traumatology, and orthopaedics. Key features of piezosurgery include the selective cutting of bone without damaging the adjacent soft tissue (e.g. vessels, nerves or mucosa), providing a clear visibility in the operating field, and cutting with micron sensitivity without the generation of heat. The cutting characteristics of piezosurgery are mainly depending upon the degree of bone mineralisation, the design of the insert being used, the pressure being applied on the handpiece and the speed of movement during usage. Therefore, a novice user | Format: Paperback | Language/Sprache: english | 60 pp.



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