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The diagnosis of mandibular midlingual foramen and the chin relationship by Computed Tomography scan

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Nowadays, as the long term success and the survival rate of dental implants are growing up, implant surgery is largely regarded as a safe and minimal invasive procedure when meticulously planned and carefully performed, especially at the lower anterior region. However, implant placement and chin bone harvesting procedures, as any other surgical procedures, are not free of inherent risks.

These years, there are more and more articles which discussed the neurosensory disturbance including pulpal canal obliteration, negative pulpal sensibility, and postoperative paresthesia after mandibular symphysis bone harvesting procedure. To be compared with harvesting autogenous bone blocks, implant placement at mandibular symphysis is a minimally invasive surgery. Nevertheless some articles revealed that implant placement at mandibular symphysis may cause not only neurosensory disturbance, also life threatening scenarios. One of the fetal risks is severe haemorrhage in the floor of the mouth with subsequent life threatening upper airway obstruction have been recorded in association with implant placement in both the anterior and posterior mandible.

In order to avoid the life-threatening complication, such as severe haemorrhage in the floor of the mouth with subsequent upper airway obstruction after implant placement or chin block harvesting.

The aim of this study is (1) to bring to the attention of the clinician this extremely important anatomic structure which may cause potentially fatal complication, (2) to determine the location and incidence of the mandibular midlingual foramina by direct measurement on human dry skull and CT images (3) to analyze the difference between different data banks.

Biography

Chia-Ming Ho has completed his D.D.S. at the age of 26 years from National Yang-Ming University in Taiwan and M.S. from Johann-Wolfgang Goethe (Frankfurt) University in Germany. He is the instructor of TIDER (Taiwan Institute of Dental Education and Research) and the director and diplomate of APAID (Asia-Pacific Association of Implant Dentistry).

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