

Osteogenesis imperfecta (OI)

Osteogenesis imperfecta (OI) represents a rare heterogeneous group of inherited disorders characterized by low bone mass, increased bone fragility, and other connective tissue manifestations. This condition can contribute to dramatic complications after a seemingly insignificant injury.

Typically includes fractures; bowed, irregular thickened bones; short/normal size extremities; soft, thin skull.

The finding of premature **osteoporosis** in persons with osteogenesis imperfecta suggests a possible role for the type I collagen genes in bone integrity. However, the relative importance of any one gene, particularly that of specific VDR genotypes, has been controversial.

Cranial base pathology is a serious complication of osteogenesis imperfecta (OI), and may develop despite **bisphosphonate** treatment. Early initiation of bisphosphonate treatment may delay development of craniocervical junction pathology. Careful followup of cranial base morphology is warranted, particularly in patients with severe OI ¹⁾.

see [Intracranial epidural hematoma in osteogenesis imperfecta](#).

¹⁾

Arponen H, Vuorimies I, Haukka J, Valta H, Waltimo-Sirén J, Mäkitie O. Cranial base pathology in pediatric osteogenesis imperfecta patients treated with bisphosphonates. J Neurosurg Pediatr. 2015 Mar;15(3):313-20. doi: 10.3171/2014.11.PEDS14113. Epub 2015 Jan 10. PubMed PMID: 25559924.

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