



Functional Reconstruction of the Mandible: Experimental Foundations and Clinical Experience

Roland R. Schmoker

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Since 1958 the Association for the Study of Internal Fixation (ASIF) has worked to establish the experimental and biomechanical principles of the operative treatment of fractures. It has been proven that immediate, pain-free mobilization, made possible by stable internal fixation, is the key to restoring function in a fractured extremity. The same principles were applied in 1972¹⁷³ by Roland Schmoker, who developed a universal plate and sophisticated instrument set designed initially for the treatment of comminuted fractures of the mandible. To extend the applications of his plate to reconstructions after extensive tumor resections, he supplemented the device with ten poromandibular joint prostheses and anchoring elements for the attachment of dentures. He first tested the functional stability of these implants experimentally in sheep. Later he found that the minipig had a more human-like jaw shape and masticatory action, and so he tested the implants in 37 mini pigs that underwent extensive mandibular resections without bone grafting, using sequential dye injections and postoperative weight gain to chart the progress of osseous regeneration. Seven other animals were not operated and served as controls.

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