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To be kept away from dust in dry cool place of 15 – 25c and relative humidity 20-40 %



ثبكة المعلومات الجامعية





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Healing of Mandibular Fractures Using Three Different Techniques of Internal Fixation

(Experimental study)

Thesis
Submitted to Oral Surgery Department,
Faculty of Dentistry
Suez Canal University

For Partial Fulfillment of M.D Degree in Oral Surgery

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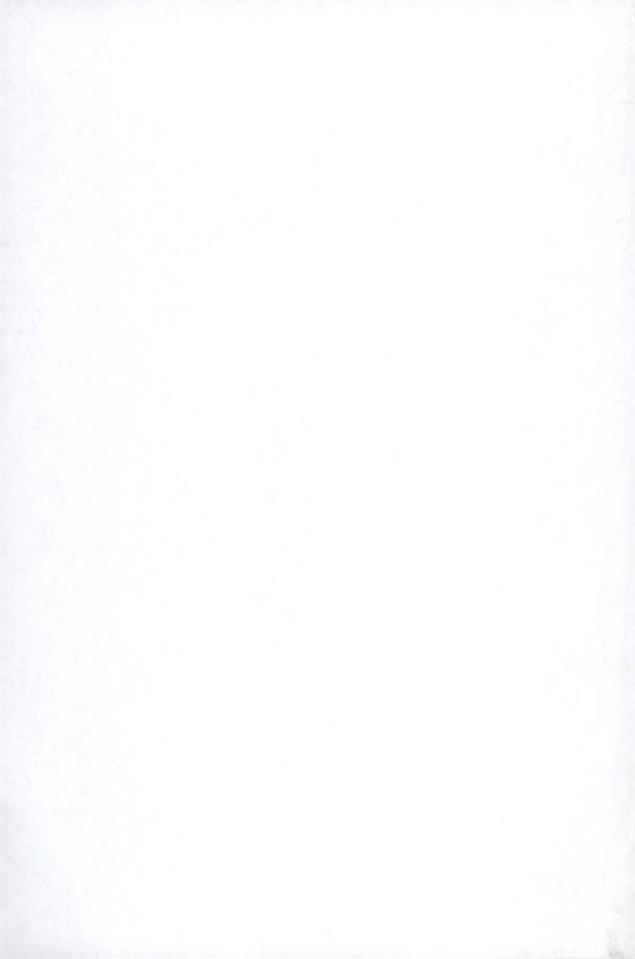
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Abstract: There has been an increasing interest in the use of bioresorbable materials for internal fracture fixation. Aim: Is to use three methods of internal fixation (stainless steel wires, Titanium plates and bioresorbable plates) to treat mandibular angle fracture. Subjects and methods: Thirty mongrel dogs were divided into three equal groups. Each group was treated by one of the selected internal fixation devices. All groups were experimentally exposed to mandiblar osteotomies at the angle region. Progress and evaluation of healing was performed at periods of two, six and twelve weeks postoperatively. It was carried out on the bases of clinical, digital radiographic, histo-pathological, biomechanical and X-ray diffraction tests. Results: Titanium and resorbable plates showed low rate of postoperative infection and high resistance to fracture biomechanical testing in addition to strong microstructure when examined with X-ray diffraction Titanium was superior radiodensity of bone and in the amount and surface area of bone trabeculae in the healing gap. Conclusion: Titanium or resorbable plates could be used alone in treatment of fracture angle.

Keywords	Fracture- Bioresorbable - Differaction-	
	Histophotometry- Digital radiology	



Healing of Mandibular Fractures Using Three Different Techniques of Internal Fixation (Experimental study) Faculty of Dentistry
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DEDICATION

