



Article

Comparison of Ostene® and Bone
wax on Bone Healing: A Comparative
experimental study in rabbits.

Abstract:

Introduction: Ostene® is a new synthetic bone hemostatic wax-like inert and biocompatible material that dissolves within two days after application. Bone wax is a well-known topical hemostatic agent, easy to use, and its application is very simple. Wound healing is a complex biological process; Bone is a dynamic tissue that is continuously resorbed, renewed, and remodeled. Materials and methods: Twenty domestic rabbits were divided into four groups (day 1, day 3, day 7, and day 14). Each rabbit was anaesthetized and three holes were drilled in the mandible: one was filled with Ostene®, another with bone wax, and the other was left unfilled as control. Sites of intervention were assessed by histopathology. Results and Discussion: Ostene® and bone wax showed osteoinductive property in bone healing with no inflammatory reaction. Our study revealed new bone formation within 14 days in Ostene® group. After histopathological analysis and scoring was finished, analysis by SPSS 14 software showed a significant difference between the use of Ostene® and bone wax. Conclusion: Ostene® showed superiority over bone wax in bone healing, and it can be used in the same way as bone wax with no interference with bone healing and osteogenesis. Ostene® has no side effects following application.