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| Fabrication of Hydroxyapatite Ceramic Material for Defected Bone Reconstruction in Dogs  | Thesis Title  |
| 2006 | Year Abeer Ahmed Majeed |
|  Twelve local breed dogs of both sexes were used in this experiment , these dogs were divided into two equal groups : 1. The first group (The experimental group): in which HA mixed with a prepared inert gelatinous material was used .
2. The second group (The control group) : in which gelatinous material was used only.

 Each one of these groups was divided into two sub-groups, each consisted of three animals. They were examined radio graphically weekly throughout the study period. A Histopathologcal examination was done after the end of the two studies periods , (every 3, 6 weeks ).  The radiographic examination of the experimental group showed complete closure of the bony defect in a shorter time period in compare with the control group. The dog tibia test showed that the material formed a tight chemical boned with biological texture and had a good biocompatibility .Also the material used in this study revealed no inflammation and no toxic substances were released , through implantation period.  In conclusion , the study results showed that Hydroxyapatite can be used to treat bone defects as a synthetic bony grafting material that promotes gap reconstruction processes.  |  Abstract  |