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Title: Comparative study on the healing potential of chitosan, polymethylmethacrylate and demineralized bone matrix in radial bone defects of rat

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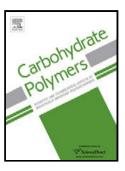
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Comparative study on the healing potential of chitosan, polymethylmethacrylate and 1 2 demineralized bone matrix in radial bone defects of rat Soodeh Alidadia, Ahmad Oryana,*, Amin Bigham-Sadeghb, Ali Moshiric 3 ^a Department of Pathology, School of Veterinary Medicine, Shiraz University, Shiraz, Iran 4 ^b Department of Clinical Sciences, School of Veterinary Medicine, Shahrekord University, 5 6 Shahrekord, Iran ^c Razi Drug Research Center, Iran University of Medical Sciences, Tehran, Iran 7 * Correspondence to: Professor Ahmad Oryan, D.V.M., Ph.D., Professor of Comparative 8 9 Pathology, Department of Pathology, School of Veterinary Medicine, Shiraz University, Shiraz, 10 Iran. E-mail address: oryan1215@gmail.com; Tel: +98-7132286950; Fax: +98-7132286940. 11 Running title: Chitosan, PMMA and DBM in bone regeneration 12 13 14 15 **Highlights** 16 Demineralized bone matrix was osteoinductive and osteoconductive. 17

Chitosan and PMMA possessed low biodegradability and biocompatibility.

Polymethylmethacrylate (PMMA) and chitosan were not effective in the bone healing.

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