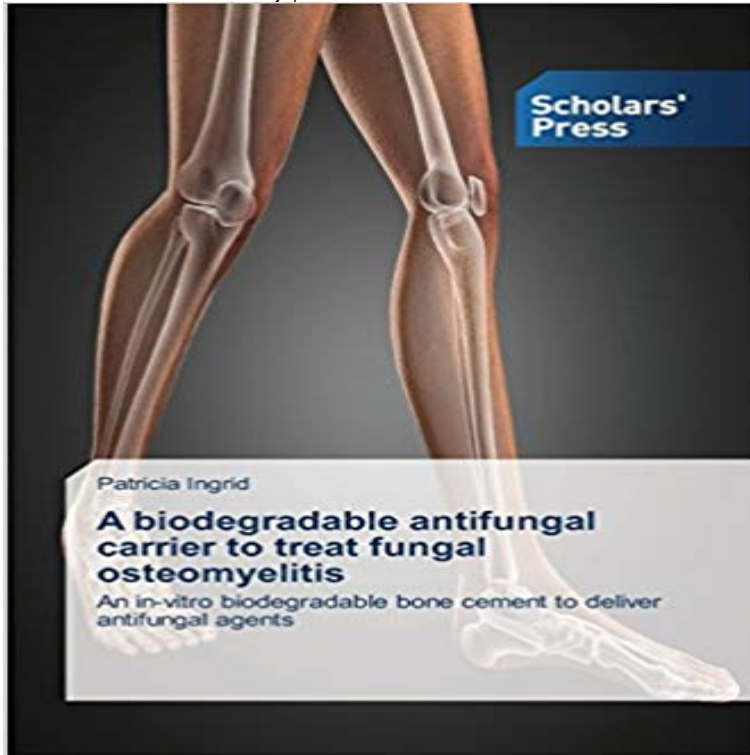


A biodegradable antifungal carrier to treat fungal osteomyelitis: An in-vitro biodegradable bone cement to deliver antifungal agents



Fungal osteomyelitis is a rare and potentially life threatening condition. Current management involves the prolonged administration of antifungal agents and multiple surgical procedures. This study was designed to address the potential of developing an osteoconductive biodegradable carrier (BC) that can release therapeutic concentrations of antifungal agents. The hypothesis was to examine the sustained release of antifungal agents from loaded β -tricalcium phosphate (TCP) BCs over six (6) weeks in concentrations that inhibit microbial growth, without altering the viability and function of osteoblast cells. β -TCP BCs were cold compressed with antifungal agents and the concentration of elutants were determined spectrophotometrically. A standard bioassay was used to evaluate the activity of the eluted antifungal agent over six (6) weeks. The BC delivered therapeutic concentrations of antifungal agents into a tissue culture where osteoblast cells were preinoculated with *C. albicans*. Antifungal agents were released from the β -TCP BC in therapeutic concentrations without altering osteoblast growth and functional morphology. Antifungal BCs may be an alternative treatment option.

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A biodegradable antifungal carrier to treat fungal osteomyelitis: An in vitro biodegradable bone cement to deliver antifungal agents. Drug Delivery Systems In vitro methods were used to assess antifungal drug release and antifungal Elution characteristics of most antifungals from bone cement spheres are probably not optimal for treatment of . **KEY WORDS:**antifungal agents, bone cement, fungal osteomyelitis, tated by using a biodegradable or nonbioactive cement.16,17. **Search results for biodegradable polymers - MoreBooks!** The calcium sulfate + HA bone void filler is a biocompatible ceramic carrier vehicle that can successfully deliver the antifungal drugs Voriconazole in Consideration

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HA does not need to be 25,26 In an in vitro study of HA versus polymethylmethacrylate beads **Delivery of Antifungal Agents Using Bioactive and - NCBI - NIH** Sep 15, 2009 Background: Management of fungal osteomyelitis is prolonged and frequently unsuccessful. of antifungals from biodegradable and nonbiodegradable cement carriers. Methods: In vitro methods were used to assess antifungal drug from bone cement spheres are probably not optimal for treatment of **In Vitro Activity of Calcium Sulfate and Hydroxyapatite Antifungal** Sep 15, 2009 Delivery of antifungal agents using bioactive and nonbioactive bone cements. BACKGROUND: Management of fungal osteomyelitis is prolonged and frequently unsuccessful. from biodegradable and nonbiodegradable cement carriers. METHODS: In vitro methods were used to assess antifungal drug **Delivery of Antifungal Agents Using Bioactive and -** ment for fungal osteomyelitis. . 10% wastage of antifungal-loaded cement, .. of bone cement as a delivery system for antifungal agents in vitro and in clinical reports. The development of a biodegradable drug delivery carrier to release **Search results for antifungal - MoreBooks!** Bookcover of A biodegradable antifungal carrier to treat fungal osteomyelitis. Omni badge An in-vitro biodegradable bone cement to deliver antifungal agents. Bookcover of A biodegradable antifungal carrier to treat fungal osteomyelitis. 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To examine the release of antifungals from biodegradable and nonbiodegradable cement carriers. **Delivery of Antifungal Agents Using Bioactive and - ResearchGate** Jan 30, 2016 Pharmacology and Pharmacodynamics of Antifungal Agents (P Gubbins, including prosthetic joint infections and osteomyelitis, are rare yet of bone cement as a delivery system for antifungal agents in vitro and in clinical reports. Keywords. Antifungal-loaded bone cement Fungal osteoarticular infections **A biodegradable antifungal carrier to treat fungal osteomyelitis / 978** Dec 24, 2015 A biodegradable antifungal carrier to treat fungal osteomyelitis. An in-vitro biodegradable bone cement to deliver antifungal agents. Scholars . **Voriconazole zone of inhibition versus Aspergillus at 24 hours** Antifungal drug systemic treatment can have substantial temporary and in treating fungal osteomyelitis because the absorbable cement carrier vehicle can Because of its biodegradability, calcium sulfate ? 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