

Hydroxyl-apatite coated hip implants

[s.n.] - Benefits of hydroxyapatite coatings on medical implants — HIMED



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Hydroxyapatite coatings for metallic implants

If bacteria colonize this space they would keep proliferating, as the immune system is unable to reach and destroy them. To secure the implant, surgeons use bone cement, a polymer that resembles glass when hardened. All of these will have an impact on the implant performance.

Benefits of hydroxyapatite coatings on medical implants — HIMED

When an implant is coated with HA, it provides an osteophilic surface, which helps the natural bone affix to the implant.

New coating for hip implants could prevent premature failure

For over a century HA has been used to repair or rebuild missing or damaged portions of bone in bone grafts. The interface was covered predominantly by trabecular bone, which closely followed the contour of the prosthesis, and was partly woven nonmineralized bone.

New coating for hip implants could prevent premature failure

Our HA microspheres are thermally stable in air to 1300 °C, retaining a highly crystalline structure after spraying under suitable conditions. Other researchers have experimented with injecting the growth factor or depositing it directly on the implant, but most of it ends up draining away from the implant site, leaving too little behind to have any effect.

Orthopedic Implant Coatings, Hydroxyapatite Coating Powder Supplier

Composition powder is specially formulated to produce an uncommonly pure and highly crystallized coating on metallic substrates.

New coating for hip implants could prevent premature failure

Antibacterial Innovations One common cause of failure for dental and orthopedic implants is infection.

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