Orthopaedic Innovation Centre

DRUG-ELUTING ADDITIVELY MANUFACTURED MATERIALS & DEVICES



Platform Technology Offering

Patient-Specific & Customizable

Simple Product-Line Integration

Opportunity to license novel additively manufactured (AM) drug-eluting polymer technology for medical device applications

Intellectual property







Patents issued:







EU

France

Germany

UK

Italy

🗷 Israel

Australia

Japan



Key opportunties

- Foundational technology suited to point-of-care manufacturing and personalized medicine
- Fully-customizable patient-specific devices
- Better addresses bacterial infections than existing implantables
- Broad intellectual property coverage
- Wide array of applications

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We are looking for a licensing partner to commericalize this material and device technology

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Applications

- Joint Arthroplasty
- Prosthetics
- Orthopaedic Trauma
- Cardiology
- Sports Medicine
- Wound
- Spine Orthopaedics
- Dental

High Potential Application



Peri-prosthetic joint infection

- Devastating complication
- 1%-8% occurrence
- Months to years of recovery
- Poor patient outcomes
- Gold standard is two-stage revision with temporary implant (spacer)



Existing Solutions

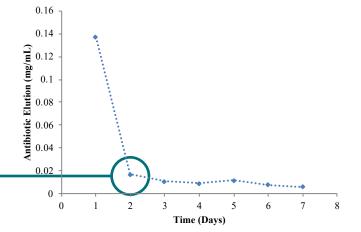
- Universal reliance of antibiotic-loaded bone cement
- Reduced interim patient function
- Limited antibiotic elution
- Virtually zero after 48 hr
- Potential for improved and sustained elution using drug-eluting printed device and bioresorbable polymer



PCL Knee Spacer

- Customized spacer geometry
- Patient-specific antibiotic cocktail delivery
- Bioresorbing polymer for potentially improved elution
- Manufactured on-demand









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