Medical Devices

Diagnostics

Developing laser-based diagnostics for musculoskeletal applications. The first technology for fracture risk, Osentia®, was patented by Towler and launched commercially (UK, 2016) by Crescent Ops (www.osentia.co.uk).

Bioadhesives

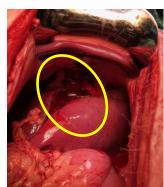
A bioadhesive for a range of sketal applications (sternal fixation, bone void filling) is being developed with orthopedic surgeons. The first two patented iterations, and a patented procedural kit to deliver the adhesives to the surgical site, have been evaluated in large animal trials.

Bioadhesives

A mesoporous glass-based hemostat for trauma applications is being developed. This patented composition of matter is both physically and chemically hemostatic.







Liver cut

Bleeding stops <2 mins

Blood clot

Glass-based hemostat employed to staunch a liver bleed in a porcine model

PoC

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Funding

• Funding agencies: CIHR, NSERC, MITACS (all Canada).

Private Equity

· Industry.



Keywords:

Medical Devices, Biomaterials, Musculoskeletal disease, trauma

Publications and Recognitions:

- Author of over 170 peer reviewed publications
- Inventor/co-inventor of eight granted patents