



## **Accentus Medical Brings Silver Antimicrobial Surface Treatments to Complex 3D-Printed Porous Implants Structures**

**Oxford, 5<sup>th</sup> January 2019** ... Accentus Medical, a leading developer of advanced surface modifications and coating technologies for implantable medical devices, is pleased to announce a funding award of £96,434 from Innovate UK, the UK's innovation agency. The project is driven by recent market trend towards more complex device materials, such as 3-D porous structures formed by e.g. additive layer manufacturing techniques.

With the good clinical performance already demonstrated by Agluna<sup>®</sup> silver ion based surface in reducing the incidence and severity of post-operative infections with conventional titanium device substrates, Accentus Medical is now addressing evolving market demand for a novel silver-based antimicrobial surface treatment applied to more complex 3-D surfaces.

With funding support from Innovate UK's Industrial Strategy Challenge Fund (Surface Engineering for High-Value Manufacturing), the project developed and evaluated novel silver based anti-microbial surface treatments, in combination with electrochemically deposited calcium phosphate (brushite) coating, demonstrating the basic safety and efficacy characteristics required of this innovative surface technology.

This project advances Accentus Medical toward commercialisation of our proprietary technologies in the orthopaedic market, where complex 3D structures are seeing increasing use in implantable devices.

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### **For further information, please contact:**

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### **About Agluna<sup>®</sup>**

Agluna<sup>®</sup> harnesses the anti-microbial properties of silver ions in preventing device related infection. The technology is an electrochemical process involving high voltage anodisation of the titanium implant in phosphoric acid, followed by incorporation of silver ions from an aqueous solution. Agluna<sup>®</sup> is protected by several patent families registered in major global territories.

### **About Accentus Medical**

Accentus Medical is a global leader in delivery of innovative, silver-based anti-microbial surface treatments and biocompatible coatings on implantable medical devices. The company combines a long history of expertise in surface technologies, with dedicated research and development of new technologies for the medical device industry. Based at the historic Harwell Campus, Accentus Medical has provided expertise in surface technologies to the orthopaedic device industry since the 1970s, serving major orthopaedic and medical device manufacturers worldwide.

The company has two principal technology platforms: Agluna<sup>®</sup> silver anti-microbial surface treatment for prevention and control of post-operative infection, and Acusure<sup>®</sup> plasma spray



coating for improving biocompatibility and durability of implants. These technologies are supplied to customers at Accentus Medical's ISO13485:2012 and ISO9001:2008 accredited facility.

Accentus Medical is also very well known for the medical device testing programmes offered by its in-house test laboratories. Manufacturers have been utilising test results provided by the company for many years as part of device homologation files all over the world. For further information, please visit: [www.accentus-medical.com](http://www.accentus-medical.com)

#### **About Innovate UK**

As the UK's innovation agency, Innovate UK works with people, companies and partner organisations to find and drive the science and technology innovations that will grow the UK economy

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