

When it comes to reducing the incidence of peri-prosthetic infection, **silver** is our **gold standard**

> **Over 26% of knee revisions are due to infection¹**

Infection is now the leading cause of knee revisions in Australia when reviewing currently used prostheses in the AOANJRR 2021¹

Which is why our MUTARS implants are designed to help avoid it.

Silver coating can **reduce** the incidence of peri-prosthetic joint infection^{2,3}

- ✔ Silver reduces surface bacterial colonization⁴
- ✔ Has broad-spectrum antimicrobial activity²
- ✔ A low level of toxicity⁴
- ✔ Prolonged elution of silver ions into the surgical field⁵
- ✔ Bacterial resistance is low⁵

“ The use of silver-coated prostheses reduced the infection rate.....In addition, less aggressive treatment of infection was possible in the group with silver-coated prostheses² ”



“ Infection presents a major challenge in TJA, and is costly and demanding to manage for both surgeons and patient⁶ ”



Heightened risk factors for patients include:

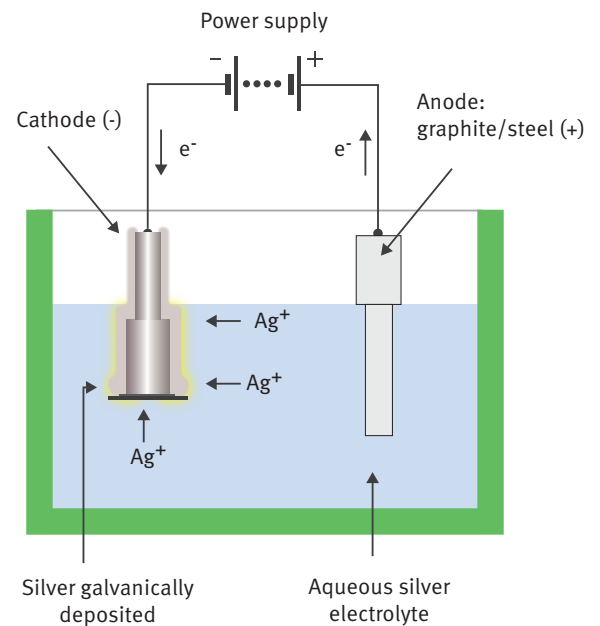
- High BMI, smoking, diabetes, immunodeficiency, previous infection⁶
- Implants with extensive surface areas for biofilm formation⁷
- Radiation affected tissue in patient immuno-compromised by chemotherapy⁷

47 4d¹⁰5s¹
Ag
 Silver
 107.868

Silver is our standard

➤ The MUTARS[®] Silver Coating Process: Electroplating Technology⁸

1. **Pre-treatment** - applying gold layer as carrier
2. **Application of the silver coating** – applied via galvanic deposition 10-15µm thick
3. **Post-treatment** – finishing and sterilisation



For more information please contact your LifeHealthcare Representative on 1800 060 168 or revisionknee@lifehealthcare.com.au

References: 1. Australian Orthopaedic Association National Joint Registry Report 2021 2. Harges J, von Eiff C, Streitbuenger A, Balke M, et al. J Surg Oncol. 2010. 1:389-95 3. Harges J, Henrichs M, Hauschild G, et al. J Arthroscopy 2017; 2208-2213 4. Gosheger, G., Harges, J., Ahrens, J. et al. Biomaterials. 2004. 25:5547-5556 5. Donati, F., Di Giacomo, G., D'Adamo, S., et al. BioMed Research International. 2016.1-6 6. Ratto, N., Arrigoni, C., Rosso, F., et al. EFORT Open Rev. 2016.1:339-344 7. Zuidhof RJ, Löwik CA, Ploegmakers JJ, et al. Annals of Joint. 2019. 4:26 8. Data on file.

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