Manual addition of antibiotics

- MHRA advises where possible to avoid:
  - modifying medical devices
  - using products other than those CE-marked as medical devices
- Early implant loosening due to poor mechanical properties
- Uncontrolled release of antibiotics that could increase the risk of patients suffering from kidney damage
- Unpredictable effectiveness of antimicrobial action

Manual addition of antibiotics with Vancomycin & Gentamicin
Effectiveness of antimicrobial bone cement

**Simplicity** with clinical assurance

**Cement**
- Vancogenx is the first commercially available bone cement dual loaded with Vancomycin and Gentamicin.
- Vancogenx cement is based on the clinically proven Cemex range\(^6\).
- Vancogenx cement has a unique synergistic behaviour between the two antibiotics to provide a more effective solution to help fight bone infection.\(^3\)
- 26 years of clinical history and innovation with the Cemex range (over 2.4 million patients treated worldwide)
- Cemex bone cement is authorised for use in over 60 countries which include Europe, USA, Australia, China, South Africa and South Korea

**Spacers**
- Vancogenx-Space is the first pre-formed hip and knee dual loaded Spacer with Vancomycin and Gentamicin.
- Mechanically tested for partial weight bearing.\(^7\)
- Custom options for hip, knee and shoulder Spacers available on request.
- A Spacer shall be used in the interim to prevent joint contractures, scarring and shortening of the extensor mechanism, as first described by Cohen in 1988.
- Manufactured with a low dose of antibiotics, but providing high and prolonged release. Demonstrated therapeutic levels of antibiotics at 99 days.\(^8\)

\(^{1}\)MDA/2010/001


\(^{3}\)ISO 5833:2002 Implants for surgery - Acrylic resin cements


\(^{7}\)Baleani M et al. The mechanical behaviour of a pre-formed hip spacer. Hip Int 2003; 13(3): 159 - 162

