Debate: The rationale for local antibiotic use in surgery to prevent post-operative infection

Myth or Science?

Supported by: British Society for Antimicrobial Chemotherapy and European Wound Management Association

Chair: Dr Gavin Barlow
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Welcome, overview and quick quiz

Dr Gavin Barlow

The use of topical antibiotics for the prevention of surgical site infection: a survey of practice and opinions

Miss Charlotte Cooper

The argument for the motion..... (local antibiotics are a myth)

Professor Hilary Humphreys

The argument for the motion..... (local antibiotics are science)

Dr Matthew Dryden

Panel discussion/Questions

All
Warm up!
Topical, or local, use of antibiotics is defined as the application of an antibiotic agent directly to a surgical site, intraoperatively or immediately post-operatively, in the form of powders, sponges, irrigation solutions, sealants or dressings. It does not include antiseptic agents.
Setting the scene

• Surgical site infection (SSI) is common

• Patients who develop SSI are more likely to be readmitted to hospital and have increased morbidity/mortality

• SSI increases healthcare costs
Setting the scene

• Perioperative antibiotics established for contaminated and clean-contaminated procedures and when evidence exists for clean procedures

• BUT, in the era of increasing antimicrobial resistance, should we be thinking about the existing paradigms with the aim of reducing systemic antibiotic use and/or the risk of SSI?

• Can local antibiotics (as defined), contribute to this?
Question 1

How many of you work as the following?

- Infection doctor
- Surgeon
- Nurse
- Pharmacist
- Other?
Question 2

Your predominant place of clinical work is in...

• Primary care

• Secondary care

• Other
Question 3

In your institution, are...

• local antibiotics (as defined) used to try and prevent SSI?

• there guidelines to inform the use of local antibiotics to prevent SSI?
Question 4

Do you use or advise on/recommend* local antibiotics (as defined) where you work to try and prevent SSI?

* Including if you have recommended use within a local guideline
Question 5

Do you believe local antibiotics can contribute to...

• a reduction in SSI (with/without using systemic antibiotics)?

• a reduction in systemic antibiotic use for SSI?