



# Antimicrobial Resistance Crisis: why should dentists be concerned and what can we do about it? An Interprofessional Panel Presentation

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A post-antibiotic era – in which common infections and minor injuries can kill – far from being an apocalyptic fantasy, is instead a very real possibility for the 21<sup>st</sup> century

-- World Health Organization

## Dire consequences

At a tipping point

Epidemic

Challenge

**CRISIS!**

The threat is real

**URGENT**

Bigger than AIDS

Standing at a critical juncture

As big a threat as climate change

# Resistance to antibiotics poses a major global threat to public health – World Health Organization

## FACTS (2013):

- Morbidity and mortality related to resistant organisms
  - Deaths .....2000 (> H&N Cancer)
  - Cases c. difficile .....3000
    - Deaths .....88
  - Cases MRSA .....4855
    - Deaths .....91
- Cost to healthcare system = \$1 billion

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### FACTS:

- 24 million prescriptions for antibiotics each year
- 80% of antibiotics are prescribed in the community
- 10% are prescribed by dentists
- 50% of antibiotic use estimated to be inappropriate
  - Not needed
  - Suboptimal use – wrong drug, dose, or duration

# Learning Objectives

1. To discuss the looming crisis of antimicrobial resistance
2. To review the evidence underpinning antibiotic prophylaxis and other common uses of antibiotics in dentistry
3. To explore the role of dentistry in contributing to antimicrobial resistance and suggest strategies for the future

# Format

- Antibiotic Stewardship: The Imperative to Involve Dentistry – David Patrick
- The Bacteremia Debate and Antibiotic Guidelines in Dentistry– Susan Sutherland
- An Evidence Based Approach to Antibiotic Prophylaxis in Oral Surgery – Nicholas Makhoul
- Antimicrobial Stewardship in Dentistry – Andrew Morris
- Panel Discussion and Q&A