The right drug for the right bug

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ED Medicines Management
(on behalf of the project team)
Acknowledgement of country

Damibila – cool dry season
Project team

- Led by Prof Jodie McVernon (Director of Doherty Epidemiology)

- Multidisciplinary Collaboration between
  - The Peter Doherty Institute for Infection and Immunity
  - NT Department of Health & Top End Health Service
  - Kimberley Aboriginal Medical Service
  - Telethon Kids Institute
  - Queensland Health

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Background

• Increasing resistance of bacteria to antibiotics is well documented as a major healthcare issue

• The high burden of infectious diseases in remote communities results in high levels of antimicrobial use

• Information on prescribing and understanding of dynamic trends in resistance in this settings is limited
Background

- The National Antimicrobial Prescribing Survey has been in use since 2011
  - Hospitals
  - Aged care
  - Surgical services
  - General Practice
- It forms part of a continuous quality improvement cycle and allows benchmarking
Project aim

• To conduct a pilot study of the application of the existing National Antibiotic Prescribing Survey (the GP-NAPS tool), to the setting of Aboriginal and Torres Strait Islander Health Services across
  • Far north Queensland
  • Northern Territory and the
  • Kimberly region of Western Australia
Research design

Three regions and 4 guidelines
• Five sites in each region

Five conditions
• Impetigo
• Acute otitis media
• Abscess
• Lower respiratory tract infection/pneumonia
• Sexually transmitted infections
Research design

Retrospective audit
28/8/17 to 03/09/17

• Medical officers
• Nurses
• Aboriginal Health Practitioners
Progress so far...

- Ethics approval for all sites
- Comparison of guidelines
- Revision of NAPS-GP tool
- Workshop for auditors
- Enrolment of sites
- Data collection in NT
Progress so far...

• Preliminary NT data analysis

• 1563 events screened – 485 valid clinic presentations
  • 41% resulted in antimicrobial prescription (n=200)
  • 34% resulted with more than one antimicrobial (n=166)

• Some recommendations for revisions in CARPA

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Discussion