HEPMA and Antimicrobial Stewardship in NHS Ayrshire and Arran

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Identifying patients for review

• Daily automated reporting
  – Protected antimicrobials
    • Ward rounds
    • Verified/unverified status
  – Gentamicin and vancomycin prescriptions
    • Gentamicin Rxd > 4 days
    • Unverified Rx

• Ad hoc reporting in response to trends
  – Meropenem/taz surge in resp wards
  – Assessing inappropriate use of Co-amoxiclav- ?chest/?urine

• Doxycycline/quinolones + cation-containing products
  – remote assessment, mini PPS, regular monitoring and raising awareness
Prioritising patients for review

• PHEW report
  – In house developed prioritisation tool
  – IV Abx score high

• Dr Helper tool- red/amber/green warning
  – At a glance info on Abx Rxing
  – Duration
  – Stop dates
  – QI work
Dr Helper Tool

Prototype FY1 ePrescribing Helper

feedback/requested developments to richard.cottrell@aaht.scot.nhs.uk
Antimicrobial use reports (1)

- Automated monthly emails
- Prevalence of antimicrobial use by proportion of patients treated - hospital
  - Ward level
  - Hospital level
  - Compare over time and with PPS 2016

High level overview of antimicrobial usage by hospital for September 2020.
Shows distinct number of patients to receive antimicrobial in relation to number of patients to receive any medicine over date range concerned.
Note Gentamicin and Vancomycin are not accurately recorded on HEPMA as per use of paper charts.

- Station 15 HDU
  - Total: 775
  - Total: 1,647
  - 57.14%
  - 47.06%
Percentage of patients administered antibiotics of all patients administered any medicine in UHA and UHC

Scottish average (2016)
Antimicrobial use reports (2)

• Medicines administration patterns by antimicrobial type
  • IV vs PO
Improving the supply of Protected Antimicrobials

- July 2020- New RxSelect prompt launched
  System used by technicians to supply meds against HEPMA prescriptions
- Review of protected Abx stocked on wards
  - Pip/taz, ceftriaxone
- Improved number of protected Abx verified before supply by 10%
- Data collected on when not supplied
  - 3 x temocillin 1 x ceftriaxone stopped-inappropriate use
  - Error in prescribing ceftriaxone in orthopaedic ward- cefuroxime intended
- Work ongoing to further improve verification/supply process

This medicine is a protected antimicrobial and must be verified by a pharmacist prior to supply.

If the protected antimicrobial is not verified on HEPMA, please contact the clinical pharmacist responsible for the area/duty pharmacist or discuss with the antimicrobial pharmacist*
Future plans

• New web-based system, making this work for Abx prescribing

• Retrospective reporting/tracking of stop dates
  — Implement HARP and observe change

• Use HEPMA Rxing reports to provide prescriber feedback
  — Review habits/patterns