

Scottish Antimicrobial Prescribing Group



# Current SAPG work programme and key challenges

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## REDUCE HARM & OPTIMISE OUTCOME

#### **ANTIMICROBIAL PRESCRIBING QUALITY IMPROVEMENT**



**CONSORTIUM OF EXPERTS** 

### Scotland 2017

#### Successes

#### Mature Stewardship framework/infrastructure

- Key support: Infection community, AMTs, ASAP, ADTCs, HIS, NSS
- Guidance and good practice (GAV, MDRGNB)
- Quality improvement (indicators, ScRAP)
- Engagement across disciplines / organisations
- Unified PC guidance with sig reductions in Abx including higher risk agents
- Secondary care guidance with sig reductions in higher risk Abx
- Significant CDI and sepsis mortality reductions

### Scotland 2017

- Challenges
  - Hearts and minds
    - Language and understanding
      - e.g. AMR vs Antibiotic resistant infections, Restrictions vs Preservation, abstract ideas
    - True inter-disciplinary engagement: Nursing, Pharmacy, Medical – Clinician led stewardship
    - Engineering behaviour change
  - Electronic prescribing and e-support
  - Pharma financial / supply / gaming
  - Austerity No more resource











#### FIGURE 24: Number of CPO isolates by enzyme type reported in Scotland by AMRHAI (PHE).



### **Realistic Medicine**

- Person receiving care is at the centre of decision making
  - Personalised/ individualised approach to care
  - Reduction in harm
  - Reduction in waste
  - Reduction in variation



#### How can SAPG Support "Realising Realistic Medicine"

- Personalise and Rationalise Rx:
  - Clinical decision support
  - Data management Infection/antimicrobial "dashboards"
  - Do simple things better
    - Reduce redundancy & improve/focus review
    - Reduce duration of Rx & burden of IV Rx
    - Palliative / frail elderly
    - Minimise mislabelling of allergy
  - Diversification of Rx

#### Driver Diagram for ROLE OF SAPG IN REALISING REALISTIC MEDICINE



### New programmes of work

- Supporting and promoting antibiotic review in hospital
- De-labelling Penicillin allergy
- Antifungal stewardship
- Prioritising AMS in paediatrics
- Developing AMS in Nursing profession

### 1. Day 3 Antibiotic Review Resource

- Build on success of ScRAP
- Draw on published AMS evidence
- Develop educational resource for hospital prescribers to support antibiotic review / de-escalation / STOP
- Case based learning resource
- Quality improvement methodology

## 2. De-labelling of Penicillin Allergy

- Reported about 10% of hospital patients
- Reality 80% of these are not allergy
- Mislabelling associated with increased Rx cost, admission length, AMR and poorer outcomes
- National approach (guidance) to delabelling

### 3. Anti-fungal stewardship

- Currently no national approach
- Wide variation in practice in use of systemic antifungals
- Need uniform, cost-effective approach to utilising new diagnostic tests
- Optimise empirical and directed Rx

### 4. Paediatric AMS

- Increasing evidence of importance of microbiome and influence on many aspects of health
- Wide variation in antimicrobial practice
- Children not immune to AMR and CDI
- Some controversies in common practice (Strep throats)
- Relatively neglected need for national focus

### 5. Nurse Stewardship

- Involved in every aspect of antimicrobial therapy from investigation, diagnosis, monitoring, administration and prescribing
- Rapid growth in NMPs: Primary/Secondary care
- World first resource Antimicrobial stewardship work book. Highly rated but poorly utilised
- Acknowledge and develop role in AMS
- Further develop work book acknowledging different roles/ function

### **Hospital Quality Indicators**

Hospital Antibiotic Prescribing Quality Indicators

Part A: Reduction of antibiotic use

# 1% Reduction of antibiotic use per 1000 admissions

- Total antibiotic use per 1000 admissions
- Carbapenems per 1000 admissions
- Piperacillin-tazobactam per 1000 admissions

#### 2015 baseline

Hospital Antibiotic Prescribing Quality Indicators

#### Part B: Documentation of IV Antibiotic review (including nature of review) at 72 hours

Part C: Documentation of Stop date or Proposed duration if oral antibiotic prescribed

