





Association of Scottish
Antimicrobial Pharmacists

**Kirsteen Hill & Fiona McDonald Co-chairs** 

Evolving Role of Pharmacy in Antimicrobial Stewardship

### Overview



NATIONAL VISIONS



WORKFORCE & EDUCATION



**TECHNOLOGY** 



**FUTURE** 

#### **National Visions**

Publication - Strategy/plan

Scottish Management of Antimicrobial Resistance Action Plan 2014-18 (ScotMARAP2)

# ACHIEVING EXCELLENCE IN PHARMACEUTICAL CARE A STRATEGY FOR SCOTLAND











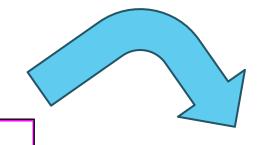
Reduce Unwarranted Variation



Managing Risk Better



Become Improvers and Innovators



## Reduce 45

Cellramae

če smericht

& other caphabaporina

Climanycis

Ciproflex ac is

& other quinolones



Produced by the Artistics hid Management Trace Jone 2009. Cordent Epochilis I Artistic Physicals is \$1.00 or king 2.003. **>** J Antimicrob Chemother. 2018 Aug 1;73(8):2223-2230. doi: 10.1093/jac/dky171.

## Optimizing carbapenem use through a national quality improvement programme

Siân E Robson <sup>1</sup>, Alison Cockburn <sup>1</sup> <sup>2</sup>, Jacqueline Sneddon <sup>1</sup>, Abdulrhman Mohana <sup>3</sup>, Marion Bennie <sup>3</sup> <sup>4</sup>, Alexander B Mullen <sup>3</sup>, William Malcolm <sup>5</sup>, Jennifer Armstrong <sup>4</sup>, Andrea Patton <sup>1</sup>, Ronald Andrew Seaton <sup>1</sup> <sup>6</sup>





**WATCH** 

**RESERVE** 







#### COLD? FLU? TAKE CARE NOT ANTIBIOTICS

- Viral infections, which can often cause coughs, colds, sore throats and earaches, cannot be cured by antibiotics and your doctor will only prescribe antibiotics when you need them.
- Many Infections get better just as quickly without antibiotics. Simple eye, ear, throat infections are
  good examples of this.

If you are concerned about your symptoms and think you may need antibiotics, speak to your local pharmacist or contact your GP surgery.



Produced by the: Scottish Antimicrobial Prescribing Group Prepared: August 2010 For review: August 2011

Allerger Fed Advance (C)



#### **Pharmacists**

- Pharmacy First/First +
- Prescribers / Prescriber Ready

## WORKFORCE & EDUCATION







#### Pharmacy Support Workers

Advanced roles

#### Pharmacy Technicians

- Pre-registration Trainee scheme
- Vocational Training Foundation Programme
- Specialist Antimicrobial Technicians

#### **Pharmacists**



Antimicrobial Stewardship



Urinary Tract Infections (UTIs)



Skin Conditions Overview



Impetigo



Skin infections



Shingles



## WORKFORCE & EDUCATION





#### **Pharmacy Support Workers**

#### What is a pharmacy support worker?

Pharmacy support workers are a key part of the pharmacy team. They order, prepare and help to dispense medicines.

They work in different areas, including:

- distribution centres
- hospital wards
- hospital dispensaries
- NHS contracted community pharmacies
- care homes
- primary care
- GP practices in some Health Boards

Pharmacy support workers are also known as pharmacy assistants or dispensing assistants.

#### **Pharmacy Technicians**



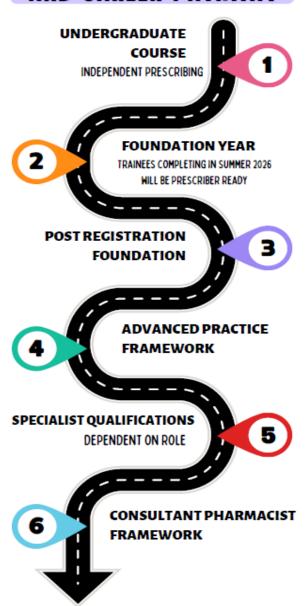
P20 Addition of a pharmacy technician to the ward team improves antimicrobial stewardship and patient care and safety 8

R Rodger, Jonathan Coulter, Sharon Thompson

JAC-Antimicrobial Resistance, Volume 5, Issue Supplement\_2, June 2023, dlad066.024, https://doi.org/10.1093/jacamr/dlad066.024

Published: 14 June 2023

## EDUCATION AND CAREER PATHWAY



EXPERIENTIAL LEARNING

MULTIPROFESSIONAL & CROSS SECTOR OPPORTUNITIES

PRESCRIBING LEARNING IN PRACTICE

**PRESCRIBERS** 

& DESIGNATED PRESCRIBING PRACTITIONERS PROVIDING SUPERVISION





EXPERIENTIAL LEARNING

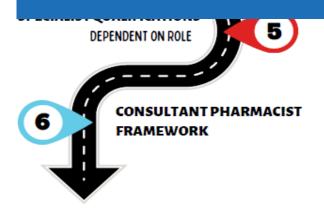
MULTIPROFESSIONAL & CROSS SECTOR OPPORTUNITIES

PRESCRIBING
I FARNING

Guidance

# Antimicrobial prescribing and stewardship competency framework

Updated 16 August 2023



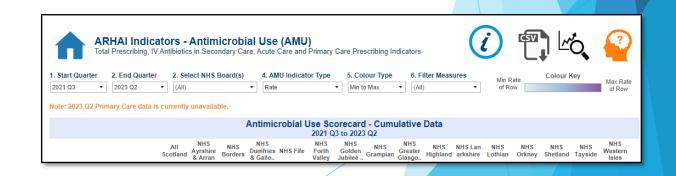
### **Technology**











# Automated dispensing of OPAT pumps

Personalised clinical decision making tools

Delivery by drones

National electronic social care and health record

Pharmacogenetics

Integrated medical calculators

Antibiotic prescribing data linked to infections /outcomes

## Future Opportunities and Challenges







Balancing workload Patient specific vs Population level Upskilling workforce Support prescribers

Embrace technology



Pharmacy services will evolve

And the role of the pharmacy workforce in AMS must evolve

