

Antimicrobial Stewardship in Northern Ireland



Contained and controlled

The UK's 20-year vision for antimicrobial resistance

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CHANGING THE CULTURE 2019-2024: ONE HEALTH

TACKLING
ANTIMICROBIAL
RESISTANCE
IN NORTHERN IRELAND
A FIVE-YEAR ACTION PLAN



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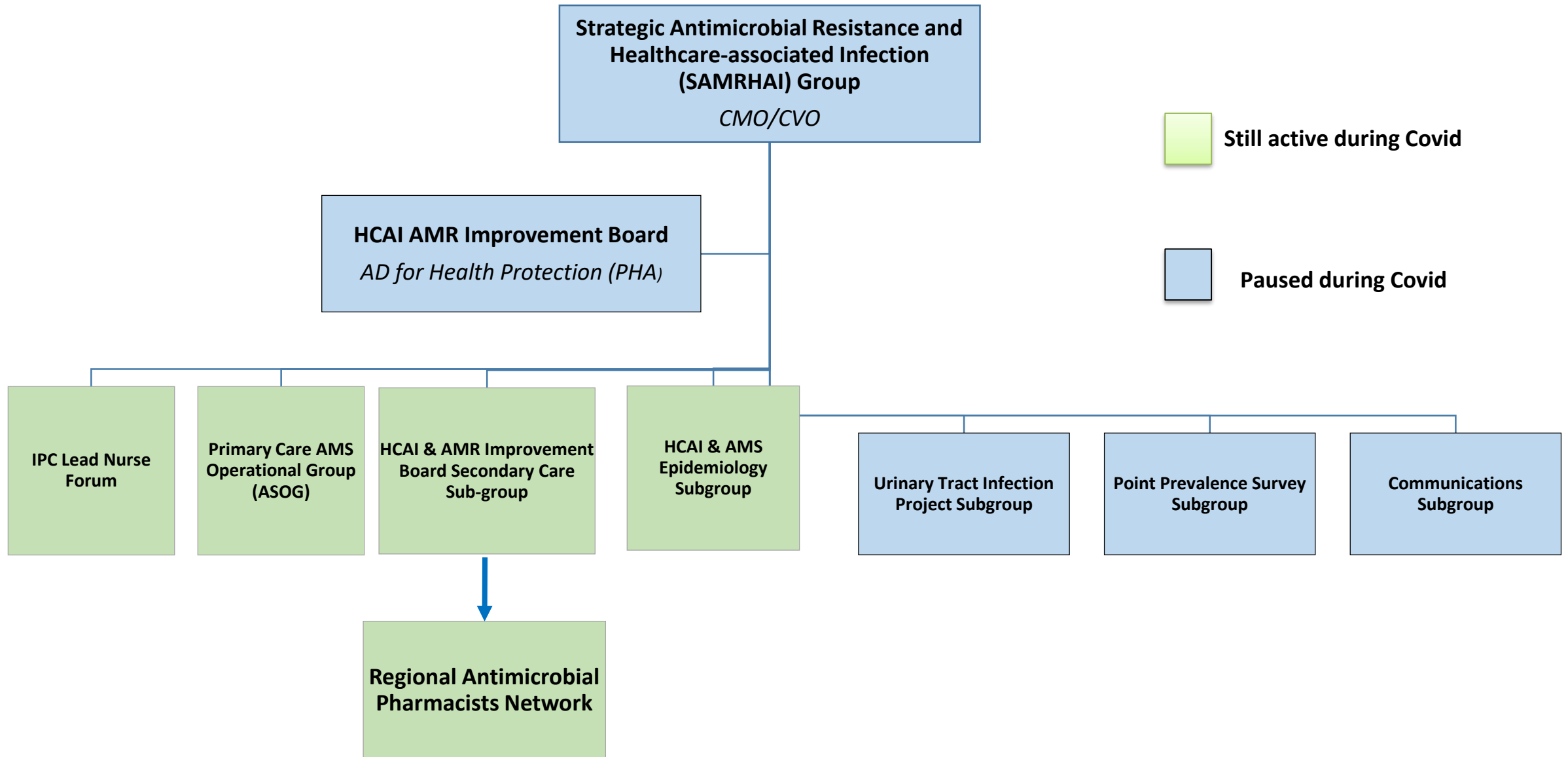
OPTIMISING USE OF ANTIMICROBIALS

2.1 Optimal use of antimicrobials in humans

Measuring success

Target: to reduce antimicrobial use in humans by 15% by 2023/24.

HCAI AMR Structures in NI: pre-Covid 19



HCAI & AMR Improvement Board Secondary Care Sub-Group

- **Membership of the HCAI & AMR Secondary Care Subgroup includes:**
 - Lead Antimicrobial Pharmacists
 - Consultant Medical Microbiologists
 - ID Consultant & Associate Specialist in one of the Trusts
 - Consultants from BHSCCT
 - Consultant in Public Health

HCAI & AMR Improvement Board Secondary Care Sub-Group

Regional workstreams:

- Regional Vancomycin and Teicoplanin guidelines
- Participation in CO-GENT (Clinical Outcomes in Gentamicin Prescribing and Monitoring) National Audit
- Antibiotic Review Kit (ARK) Research Project
- Regional Kardex redesign following ARK study
- ENCOMPASS
- Link with NI Paediatric Antimicrobial Group (regional gentamicin chart/paper published April 22)
- Link with the Medicines Optimisation Innovation Centre (MOIC)

Regional Antimicrobial Pharmacists Network: 1

Areas of Activity	Completed	Ongoing	Future plans
Antimicrobial Consumption	Surveillance system developed in collaboration with PHA providing timely access to DDD data for all 5 Trusts Target Monitoring Reports	No annual targets for antimicrobial consumption in last 2 years Participation in UK-wide review of AMC metrics	Overall target of 15% reduction in antimicrobial consumption by 2024 still in place Improved graphical representation of consumption trends over time
Guideline Development	Regional Glycopeptide Guidelines - Vancomycin and Teicoplanin now completed	Aminoglycosides in progress Empirical Antibiotic Guidelines update Surgical prophylaxis Guidelines update Regional Neonatal Guidelines update Advise on primary care antimicrobial guidelines	Regional Paediatric guidelines
Audit & Quality Improvement	Participation in Global PPS 2021	Participation in Co-Gent national audit Pen-allergy de-labelling projects Scheduled adherence to policy audits in Trusts	PPS participation
OPAT service development	OPAT pharmacy service established in 4 of 5 Trusts- Recruitment issues in one Trust	Post Project Evaluation completion Funding in some Trusts not permanent Virtual clinics	Exploring self OPAT and aim to increase switch to orals

Regional Antimicrobial Pharmacists Network: 2

Areas of Activity	Completed	Ongoing	Future plans
ENCOMPASS	Multiple meetings with ENCOMPASS teams	Advising ENCOMPASS on AMS needs e.g. ARK principles	Continue to work with Encompass teams to ensure AMS needs are incorporated
Regional and National Networks	NI Paediatric AMS Group set up – current chair of our network a member	Developing a regional audit tool for AMS in paediatrics Regional gentamicin chart for paediatrics	Development of regional paediatric guidelines
Diagnostics	PCT study in one Trust	PCT pilot in another Trust	POCT CRP testing in the community under consideration
Research	ARK study completed Contributed to the UK-wide survey during June 2020 assessing the impact of COVID-19 on AMS activities	AMS Teach Study Link with University of Ulster and MOIC – Evaluating the impact of COVID-19 pandemic on antimicrobial prescribing in NHSCT Working with MOIC on a European research project - QUARANTINE	Celtic collaborative work with MOIC Link with Queen’s University Belfast and University of Ulster

Regional Antimicrobial Pharmacists Network: 3

Areas of Activity	Completed	Ongoing	Future Plans
Education and Training	<p>ARK e-learning available on NI HSE e-learning</p> <p>Pre-registration workbook and training</p> <p>Advanced Pharmacy Practice (APP)</p> <p>WAAW – co-ordinated regional activities including regional symposium on Thursday 24th November</p>	<p>ARK training to be made mandatory for all NI Trusts</p> <p>FY0 & FY1 training (annual)</p> <p>Other staff training</p>	<p>Consideration of a Regional TDM training package</p>
New way of working during pandemic	<p>Use of electronic AMS care plans for patients with complex infection</p>	<p>Virtual ward rounds and clinics e.g. Diabetic Foot Infection clinics (OPAT), and remote sites in different Trusts</p>	
Outpatient COVID-19 treatment centres	<p>Involvement in set up of Outpatient Covid-19 Treatment Centres (OCTCs) in each trust including protocols, SOPs, prescription design</p>	<p>Involvement in OCTCs to ensure prudent prescribing of antivirals for certain non-hospitalised patients with covid-19</p>	<p>Transfer to community with appropriate training</p>

Primary Care AMS Operational Group Work Streams

Completed

- CMO letter
- GP POC CRP Pilot
- Community pharmacy AMR living well campaign

Paused/Stopped due to COVID

- Community Pharmacy POC CRP pilot
- HSCQI – nursing home UTI pilot

Continued during COVID

- NI Formulary & MicroGuide App
- Resources – PCI, PILs, Patient Zone
- Education & training – remote consultations
- Community pharmacy UTI pilot
- OOHs and COVID centres

Dental Work Streams: Pre-pandemic

- Promotion of AMS and FGDP on-line tool (to check compliance with best practice guidelines)
 - Practice-based Clinical Audits (CAPRAP scheme)
 - NI dental prescribing dashboard made available
 - Draft dental prescribing database to help practices compare prescribing patterns
 - Pharmacy student project: *'Analysis of the clinical appropriateness of out-of-hours emergency dental prescribing of antibiotics'*
- **Partners – BDA, NIMDTA and CAPRAP committee**

Dental work streams: Post pandemic

- Compiling monthly data on dental prescribing
- Communicating data and trends to practices
- Information on AMS highlighted during talks to FD dentists at start and end of their year – also in presentation to any dentist joining a practice
- Facilitating two student projects looking at dental prescribing during the pandemic **University of Ulster**
 - a) Quantitative – analysis of data
 - b) Qualitative – focus group and questionnaire
- Part of 4 nations dental prescribing study exploring trends and variations during pandemic