NHS
Education
for
Scotland

ANTIMICROBIAL RESISTANCE AND HEALTHCARE ASSOCIATED INFECTIONS (ARHAI)

Education Resources to Support Health and Social Care Staff and Students in Scotland

A skilled and sustainable workforce for a healthier Scotland
w: **www.nes-hai.info**
e: **hai@nes.scot.nhs.uk**

HAI
Education for Infection
Prevention and Control

The NES ARHAI educational resources are for all professions and disciplines in NHSScotland and extend to social care settings. The resources are grouped under broad categories and the key below indicates the target audience for each resource.

Target Audience Key for ARHAI

● HEALTH & CARE ROLE

DIRECT PATIENT / CLIENT CONTACT

For example:
Healthcare support workers, nurses, midwives, AHPs, GPs, home care staff, senior care assistants, medical staff, dental care professionals, pharmacists and undergraduate students.

■ NO HEALTH / CARE ROLE

DIRECT PATIENT / CLIENT FACE-TO-FACE CONTACT

For example:
Receptionists, medical secretaries.

⬡ HEALTH & CARE ROLE

NO DIRECT PATIENT / CLIENT FACE-TO-FACE CONTACT

For example:
Decontamination technicians, decontamination operatives, laboratory technicians.

★ NO HEALTH / CARE ROLE

NO DIRECT PATIENT / CLIENT FACE-TO-FACE CONTACT

For example:
Domestic and ancillary staff, non-patient porters, estates and facilities staff.

Resources specifically developed for social care staff or directly relevant to them are indicated with **(SC)**.

Delivery of ARHAI education resources

All ARHAI education resources are available on Turas Learn in the **IPC Zone** (**learn.nes.nhs.scot/2482/infection-prevention-and-control-ipc-zone**).

Log in to **Turas Learn** (learn.nes.nhs.scot).

You already have a Turas Learn account if you have Turas Appraisal, as all Turas applications use the same account. Log into Turas Learn and explore the IPC Zone.

If you work for an NHSScotland Health Board, please check with your line manager or your local Infection Prevention and Control Team or Health Protection Team to ascertain where you should complete resources in this leaflet (i.e. eLearning modules). (N.B. Some NHSScotland Health Boards are not yet using Turas Learn for all their learning provision.)

For a quick overview on which resources are for you, please use the **HAI Resources Matrix**.

Scottish Infection Prevention and Control Education Pathway
A route to excellence

FOUNDATION LAYER

The foundation layer of the SIPCEP comprises a range of resource types covering all 10 Standard Infection Control Precautions and other introductory infection prevention and control topics.

These learning resources are aimed at staff and students new to health and social care, but are also suitable for experienced staff in any setting who want to refresh their knowledge or update their skills. They are aligned with the National Infection Prevention and Control Manuals (NIPCM & CH IPCM) and provide the foundation for further learning in IPC.

TOPICS INCLUDE:

- Why Infection Prevention and Control Matters
- The Chain of Infection
- Each of the 10 Standard Infection Control Precautions
- Prevention and Control of Infection – *Clostridioides difficile*
- Infection Prevention and Control: Refresher for non-clinical staff
- Infection Prevention and Control: Refresher for clinical staff
- Winter Preparedness (seasonal resources)

All resources can be individually selected. Learners only require completing modules relevant to their role or as set out in their employer's local policy. ● ■ ⬡ ★

🕐 **Time to complete: variable, 20–30 minutes per e-learning module**

Modules are also available in print format and can be downloaded from the Turas Learn IPC Zone.

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FOUNDATION LAYER

Other resources within the foundation layer of the pathway that have been customised for specific audiences include:

Preventing Infection in Social Care Settings

Pocket Book
The resources list common infection risks staff may encounter and reveals the "must do" Standard Infection Control Precautions (SICPs) guidance. Aimed at staff providing care in the community, care homes or in a homely setting. **(SC)** ● ★

Preventing Infection in General Practice

Pocket Book
Adapted from the Preventing Infection in Care at Home resource but focuses on the Standard Infection Control Precautions (SICPs) guidance for staff caring for patients in general practice. ●

Preventing Infection in the Ambulance Setting

Interactive Guide
Designed for use on tablets and adapted from the Preventing Infection in Care at Home resource but focuses on the Standard Infection Control Precautions (SICPs) guidance for staff caring for patients in the ambulance setting. ●

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INTERMEDIATE LAYER

The principles in this layer relate to the application of knowledge into practice and motivation of staff. It is this layer that provides further learning for staff (including existing Cleanliness Champions), and the building blocks for them to progress and enhance their knowledge and skills and champion good practice locally and nationally as they join or continue on the pathway.

The intermediate layer provides resources to:

- Enhance 'clinical' or 'practical' skills

- Reinforce decision making and clinical reasoning skills

- Develop interpersonal and leadership skills

This layer encompasses many of the existing ARHAI educational resources, along with some new and refreshed resources. Resources are listed below and are divided into topical areas to assist in identifying appropriate learning.

Resource topics:

- General Infection Prevention and Control

- Antibiotic management

- Audit and surveillance

- Decontamination of reusable medical devices (local and endoscopy)

- Frameworks

- Occupational risks

- Organisms and outbreaks

- Skin integrity

- Surgical site infections

General Infection Prevention and Control

Aseptic Technique

e-Learning Modules and Pocket Guides
These resources provide knowledge and understanding of the Principles of Aseptic Technique. Learners can self-select modules based on their role and responsibilities.

The pocket guides provide a sequential step-by-step guide on preparation, aseptic technique and post-procedure care.

🕐 **Time to complete:**
20 minutes per module

Modules include:
Principles of Aseptic Technique; Insertion of Peripheral Vascular Catheters; Taking Blood Cultures; Insertion of Indwelling Urethral Catheters; Applying Aseptic Technique to Wounds; Long and Short Term Central Vascular Access Devices and Management of Arteriovenous Fistula (AVF). ●

Presentation of Infections in the Older Person

e-learning Module
This module supports health and social care staff who deliver care to the older person. It focuses on health and wellbeing but also how to recognise signs of infection quickly and take the most appropriate actions to prevent complications. **(SC)** ●

🕐 **Time to complete:**
1.5–2 hours

In it together to get it right: Practical application of SICPs and additional precautions

Resource Pack
The resource is based on practical scenarios that reflect clinical situations that staff may find themselves in and allows staff to participate in active learning combining theory and practice. The scenarios are ideal for incorporating into your local education and training provision. Includes a scenario on decontamination of a patient's bed, including roles and responsibilities.
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🕐 **Time to complete:**
15–20 minutes per scenario

Antibiotic Management

Antimicrobials in Clinical Practice

Presentation Slides with Notes
Designed for local trainers to deliver education for practitioners who are involved in the prescribing, monitoring and administration of antibiotics in clinical practice. The resource covers diagnosis of infection and clinical decision making, prudent antimicrobial prescribing, antimicrobial use in hospital and primary care and nurses role in antimicrobial management. ● ⬡

Antibiotic Prescribing for Today's Practitioners

e-Learning Modules
An introductory module is followed by a series of short vignettes based on different infections, relevant to acute or community settings. This module aims to heighten awareness of contemporary approaches to antimicrobial management relating to clinical effectiveness, patient safety and the reduction of bacterial resistance. ● ⬡

🕐 **Time to complete:**
25 minutes per vignette

GaV – Gentamicin and Vancomycin

e-Learning Modules
Modules are based on the Scottish Antimicrobial Prescribing Group guidance for prescribing, administering and monitoring of intravenous gentamicin use in adults and intravenous vancomycin in adults as a continuous or an intermittent infusion. Specific modules should be undertaken based on the guidance adopted locally in practice. ● ⬡

🕐 **Time to complete:**
3 x 45 minutes

Hospital Antibiotic Review Programme (HARP)

Toolkit
The toolkit is aimed at multi-professional clinical teams in hospitals and supports the antimicrobial stewardship agenda by focussing on two key areas; the three-day review of IV antibiotics and the duration of treatment of oral antibiotics. The toolkit includes educational materials to support delivery of facilitated learning sessions with practical tools and ideas for quality improvement. The facilitated sessions can also be utilised for personal learning, but a team-based approach is preferable. ●

🕐 **Time to complete:**
Two sessions, 20–30 minutes each

Antibiotic Management

Raising Awareness of Antimicrobial Stewardship for Nurses and Midwives

Toolkit

The resources aim to support nurses and midwives understanding and awareness of antimicrobial stewardship and the role that they have within this. The resources are suitable for all registered nurses and midwives across health and social care settings. This is one of a suite of resources to address the learning needs of nurses and midwives and includes pre- and post-resource reflections. ●

Scottish Reduction in Antimicrobial Prescribing (ScRAP) Programme

Toolkit

The toolkit is aimed at GP practices but may be of interest to others working in primary care and includes educational materials to support delivery of facilitated learning sessions across four key topics:

(1) Antimicrobial resistance and antimicrobial stewardship

(2) Targeting antibiotic prescribing for respiratory tract infections

(3a) Uncomplicated female urinary tract infections

(3b) Complicated urinary tract infection (older people; catheter associated; men)

(3c) Recurrent urinary tract infection

(3d) Paediatric urinary tract infection.

This has been recently extended to include further learning sessions in relation to urinary tract infection. ● ●

🕐 **Time to complete:**
Each session is designed to be 'bite-size' and last 30–60 minutes.

Organisms and Outbreaks

Management and Control of CPE in Scottish Acute Healthcare Settings

e-Learning Module

This module focusses on the management of CPE positive patients and those at risk. This will help you and others prevent the spread of CPE when patients are admitted to hospital and during their stay. The module is intended for frontline clinical staff in acute healthcare settings. ●⬡

🕐 **Time to complete:**
   50 minutes

HAI Acute Hospital Admission Screening

e-Learning Module

This module guides healthcare workers in acute hospital settings through a two-step admission screening process:

accurately completing a Clinical Risk Assessment (CRA) followed by taking the correct swabs or other specimens from patients at high risk of carrying MRSA or CPE. ●

🕐 **Time to complete:**
   1 hour

Managing People with a *Clostridioides difficile* infection (CDI)

e-Learning Module

This module builds upon the SIPCEP Foundation Layer *Clostridioides difficile* module and supports revised national guidance. This module gives the learner the knowledge and skills needed to improve the care and outcome of people with a CDI through effective clinical management and covers identification and interpretation of CDI severity markers and how to manage a first episode and a first recurrence of CDI using national algorithms. ●

🕐 **Time to complete:**
   30 minutes

Skin Integrity

Hand Dermatitis

Pocket Book and Trainer Presentation
The resources aim to complement hand surveillance skills and training by providing health and social care workers with a better understanding of good hand care, including recognising signs of skin damage which may be associated with work-related substances and the necessary actions to take to reduce or prevent the symptoms. **(SC)**. ● ■ ⬢ ★

The Prevention and Management of Pressure Ulcers

e-Learning Module and Workbook
The resource assists health and social care staff working in acute, community or care home settings to understand pressure ulcers - how they form, how they are treated and crucially how they can be prevented. Made up of eight units, the learner self-selects the units depending on their role and responsibilities. ●

🕐 **Time to complete:**
   40 minutes per unit (e-learning)

Audit and Surveillance

Using Audit to Support Improved Practice

e-Learning Module

This module shows the learner how to use audit findings to improve decontamination practices where they work and is ideal for all staff in health and social care settings new to carrying out audits in the workplace. It is also suitable for more experienced staff who want to refresh their knowledge or update skills. The module identifies the reasons why practices sometimes "go wrong" and why they "go right" and provides information on practical actions to improve practices where you work.

● ⬡ ★

🕐 **Time to complete:**
    30 minutes

Surgical Site Infection

Recognising Surgical Site Infection (SSI) including Caesarean Section

e-learning Module and Trainer Presentation

The resource aims to improve practice in assessing and recording of surgical site infection and improve understanding of the implications of SSI for the patient. This module helps learners to understanding and apply national surgical site infection definitions, record SSIs and interpret results. ●

🕐 **Time to complete:**
    1 hour (e-learning module)

Occupational Risks

Preventing and Reducing Risks in the Workplace

e-learning Module

This resource will provide the learner with the skills and knowledge needed to help prevent occupational risks in the workplace. The resource comprises 3 modules:

(1) Principles of health and safety

(2) Maintaining skin health at work

(3) Respiratory Protective Equipment (RPE)

Module 1 is mandatory, and the learner can only undertake other modules after they have completed it. Modules 2 and 3 can be self-selected based on relevance to the learner's role. ●◆

⏱ Time to complete:
10 minutes per module

Decontamination of Reusable Medical Devices

Decontamination of RMDs (Local and Endoscopy)

e-learning Programme

The national e-learning programme covers all stages of the decontamination life cycle and supports the education of all staff involved in some way with the decontamination of re-usable medical devices. The programme is available as 3 options and depending on your role, you may not require completing all nine modules. ●●

⏱ Time to complete:
1 hour per module or 9 hours for full programme

**Scottish Infection
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IMPROVEMENT LAYER

This layer is designed for those who wish to develop a deeper level of knowledge and skills in relation to infection prevention and control and quality improvement and lead on or actively participate in an infection prevention and control improvement project in their place of work.

The SIPCEP Improvement Layer provides links to the Quality Improvement Zone and examples of the application of Quality Improvement to IPC. It includes:

- The model for improvement
- Improvement tools for IPC
- Measurement
- Improvement stories
- eLearning for Quality improvement

This layer also incorporates quality improvement development programmes currently offered by NES at Foundation. Practitioner and Leader levels and builds on knowledge and skills in the application of the science of improvement.

This layer will be redesigned in 2023.

Professional Development Frameworks

Framework to Support Staff Development in the Decontamination of Reusable Medical Devices (RMDs)

This framework supports staff that undertake, manage or are responsible for decontamination activities in local, endoscopy or central decontamination units throughout Scotland.

It supports practitioners to increase and develop their existing knowledge, understanding and skills in the complex area of decontamination and covers staff working in NHS Boards and the independent sector e.g. independent hospitals, general dental services and non-NHS podiatry sectors.

It may also be helpful as a reference source for higher education institutions when planning curriculum which includes decontamination services.

Preventing and Reducing Infection and other Risks in the Healthcare Built Environment. A Knowledge and Skills Framework

The overarching aim of the Knowledge and Skills Framework is to support the educational development of NHS staff and external partners, for example building contractors and suppliers, in acquiring the knowledge and skills to prevent and control the potential risks of harm posed by healthcare facilities. Known risks commonly associated with service systems are the provision of water and drainage, air ventilation, electricity, fire and medical gases. The framework articulates the knowledge and skills required across 4 levels of practice: informed, skilled, enhanced and expert.

For further information and other resources, access the **Healthcare Built Environment (HBE) learning zone:**

If you wish to be kept informed and added to the **HAI contact list** then please email your name, job title, organisation and email address to the HAI mailbox: **HAI@nes.scot.nhs.uk**

www.nes-hai.info

Alternative Formats

This resource may be available, in full or summary form, in alternative formats and community languages. Please contact us on **0131 656 3200** or email **altformats@nes.scot.nhs.uk** to discuss how we can best meet your requirements.

NHS
Education
for
Scotland

NHS Education for Scotland
Westport 102
West Port
Edinburgh
EH3 9DN