



Delivering Quality Education
for a Healthier Scotland
w: www.nes-hai.info
e: hai@nes.scot.nhs.uk



HAI
Education for Infection
Prevention and Control

The NES healthcare associated infections and antimicrobial resistance 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

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 Healthcare Associated Infection Education Resources

All Healthcare Associated Infection education resources are available on Turas Learn in the IPC Zone.

Log in to Turas Learn at: <https://learn.nes.nhs.scot/>

If you work for an NHS Scotland health board, please check with your line manager or your local Infection Prevention and Control Team or Health Protection Team to ascertain where you can access the resources in this leaflet.

(N.B. Some NHS Scotland health boards are not yet using Turas Learn for all their learning provision.)



**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 more 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 Manual (NIPCM) 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 – Clostridium difficile
- Infection Prevention and Control: Refresher for non-clinical staff
- Infection Prevention and Control: Refresher for clinical staff

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 NES website.



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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 Care

DVD/CD-Rom

The resource offers an induction module and a full programme with a variety of supporting tools including multiple choice assessment questions and a workbook. Aimed at staff working in care homes, home environments, residential housing and day care services for adults. **(SC)** ● ★

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. ●

Preventing Infection in Care at Home

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. ●



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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.

General Infection Prevention and Control

Aseptic Technique

e-Learning Modules

Providing knowledge and understanding of the principles of Aseptic Technique, learners can self-select modules depending on their role and responsibilities.

 **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). ●

General Infection Prevention and Control

Aseptic Technique and Injecting into Joint Cavities

Animation

Short animation for general practitioners, podiatrists, physiotherapists, rheumatologists and junior hospital doctors which is scenario based and follows the process from initial consultation to the actual procedure showcasing aseptic technique in practice. ●

Getting it Right: Practical Application of SICPs

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. A new scenario on decontamination of a patient's bed including roles and responsibilities has been added. ●★

⌚ **Time to complete:**

15-20 minutes per scenario

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

Strengthening our Defences

Resource Pack

Developed following the national HAI awareness events and is ideal for use by local trainers. It includes 'Helen's Story', a dramatized story highlighting the human cost of HAIs together with questions, activities and reflective exercises which can be adapted and incorporated into your local training.

(SC) ●★

Antimicrobial Prescribing and Stewardship

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) (Available late Summer 2019)

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.

Antimicrobial Prescribing and Stewardship

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

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 a pre-resource self-reflection activity and videos showcasing nurses and midwives' experiences within antimicrobial stewardship. ●

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 HAI
- (2) Public understanding and expectations
- (3) Targeting prescribing for respiratory tract infections
- (4) Managing urinary tract infections. ● ●

⌚ Time to complete:

Each session is designed to be 'bite-size' and last 30 to 60 minutes.

Continence Management

Indwelling Urinary Catheter Maintenance

Poster and Guide

Practical resources to aid care staff in assessing and undertaking the correct procedure when managing the care of a person with a urinary catheter. The main theme is to minimise or prevent urinary tract infections with a focus on assessment, emptying and changing a catheter bag. **(SC)** ●

Midstream Specimen of Urine (MSU) and Catheter Specimen of Urine (CSU)

Videos and Pocket Guides

These short videos and pocket guides are for all health and care staff who require to obtain either a midstream specimen of urine or catheter specimen of urine. The resources outline the correct procedure to follow for collecting urine specimens to reduce possible contamination and incorrect diagnosis and antibiotic treatment. ●

🕒 Time to complete:
5-10 minutes per video

Promotion of Continence and the Assessment of Bladder Dysfunction in Adults

e-Learning Module

The resource provides staff working in health and social care with the necessary knowledge in the causes of incontinence and the treatment options available to ensure that they can assist those they care for to maintain continence and where possible avoid the insertion of an indwelling urethral catheter. **(SC)** ●

🕒 Time to complete:
1 hour

Urinary Catheterisation: Management, Care and Prevention of Infection

e-Learning Module and Workbook

Suitable for staff caring for people with indwelling urinary catheters in health and social care settings and will improve their knowledge of catheterisation in the context of their own practice. The resource is made up of seven units with learners self-selecting the units depending on their role and responsibilities. **(SC)** ●

🕒 Time to complete:
20 mins per unit

Organisms and Outbreaks

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

Management of Legionella Incidents in the Community

e-Learning Module

Supports health and social care staff in implementing the Guideline on the Management of Legionella Cases, Incidents, Outbreaks and Clusters in the Community. The sequential steps and actions are enacted within the scenario bearing many of the hallmarks of a real Legionella incident, outbreak and cluster. ● ■ ★

⌚ Time to complete:

2 hours

Managing People with a Clostridium Difficile Infection

e-Learning Module

This module builds upon the SIPCEP Foundation Layer Clostridium 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

Organisms and Outbreaks

Minimising the Risk of Pseudomonas Aeruginosa Infection and Other Waterborne Outbreaks

Video

The video offers guidance on a multidisciplinary approach to surveillance, risk assessment, recording and audit of measures and highlights how staff can apply the six critical control points to minimise infection risks. Explanations and demonstrations are provided by clinical staff from Intensive Care and Neonatal Units. ● ■ ★

🕒 Time to complete:

10 minutes

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

Skin Integrity

Common Skin Conditions Explained

Pocket Book

Designed to assist healthcare staff in community settings in managing common dermatological conditions they are likely to encounter. The resource aids in structured history taking, advanced decision-making skills, recognising differential diagnosis, formulating prescriptions, identifying referral pathways, where required, and provides practical advice on emollient and steroid therapy. (SC) ●

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). ● ■ ● ★

Skin Integrity

Skin Tears: Prevention, Assessment and Management

Workbook and Video

The resources provide guidance and best practice on groups at risk of skin tears and covers classification, prevention and management to assist those providing care for people in hospital, their own home or in a care homes. **(SC)** ●

🕒 **Time to complete:**

Video 20 minutes, workbook 4 hours

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. The resource also encompasses tools for identifying key education to support progressive development in tissue viability through the Creating Viable Options Tool. **(SC)** ●

🕒 **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

Environmental Cleaning

Cleaning of an Isolation Room: A Training Guide for Domestic Staff

Videos

This resource is suitable for the domestic services workforce in NHS acute and primary setting. It provides education and training in cleaning of isolations rooms and sanitary fittings and divided into short clips no more than 5 minutes. The resource aligns with the national cleaning standards and national IPC Manual. ★

🕒 **Time to complete:**
5 minute video clips

Surgical Site Infection

Recognising Surgical Site Infection (SSI)

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)

Recognising Surgical Site Infection (SSI) – C-Section

e-learning Module

This module covers the same content but with a focus on C-section. ●

🕒 **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 Module

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

Interpersonal Skills and Leadership

e-learning Programme

Working in collaboration with the NES Leadership and Management Team, a range of introductory modules are available for health and social care staff working across all care settings.

Topics include:

- Motivating and Inspiring
- Empowering
- Collaborating and Influencing
- Decision Making
- Managing Difficult Conversations
- Self Leadership
- Vision
- Creativity and Innovation



Time to complete:

15 minutes per module

Professional Development Framework

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. 



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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.

It provides modules, other resources and tools from the Quality Improvement Zone which are linked to the different stages in the Improvement Journey, including:

- Build will and conditions for change
- Understand current system
- Develop aim and change theory
- Identify specific change ideas, test and refine in context

Infection Prevention and Control worked examples and tools for each stage provide context.

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.

Health Protection

NES, in partnership with Health Protection Scotland, the Scottish Health Protection Network (SHPN) and other stakeholders, have produced a range of educational resources across a variety of topics.

Target Audience Key for Health Protection

▲ REGISTERED
HEALTHCARE
PRACTITIONERS

◆ STAFF INVOLVED
IN SUPPORTING
HEALTH PROTECTION
PROGRAMME IN A
VARIETY OF SETTINGS

Delivery of Health Protection Resources

The Promoting Effective Immunisation Practice (PEIP) e-learning programme is **only** available on Turas Learn. Log into Turas learn at:
<https://learn.nes.scot.uk>

All other health protection resources are available on both the NES website and on Turas Learn.

Further information on the NES website:
<https://www.nes.scot.nhs.uk/education-and-training/by-theme-initiative/public-health/health-protection.aspx>

Sexual Health and Blood Borne Viruses

Blood Borne Viruses: Some Basic Important Facts

Resource Pack

Provides facts around transmission, testing, progression of infection and treatment and will be of value to those working within the health, social or voluntary care sectors who have a role in supporting patients/clients and their families. ◆ ▲

Hepatitis B and C: Detection, Diagnosis and Management

Training Slides and Facilitator Notes

Consolidates prior knowledge of the detection, diagnosis and management of Hepatitis B and C and is designed for those who deliver programmes of continuing professional development in Blood Borne Viruses. ▲

HIV Pre-Exposure Prophylaxis (HIV PrEP)

Training Slides and Video

This resource is designed to support registered healthcare practitioners involved in the delivery of HIV pre-exposure prophylaxis services in Scotland including the NHS. ▲

Recognition and Diagnosis of HIV Infection

Training Slides

This teaching resource discusses opportunities for diagnosis of HIV using case studies and other clinical information. The resource is designed in particular for those who deliver continuing professional development but may also be used for personal study. ▲

Recognition and Diagnosis of HIV Infection in Primary Care Settings

Training Slides and Facilitators Notes

The resources aim to increase recognition and diagnosis of HIV in Primary Care settings. The resource is designed in particular for those who deliver continuing professional development but may also be used for personal study. ▲

Immunisation

Promoting Effective Immunisation Practice (PEIP)

e-learning Programme

This programme supports registered health care practitioners whose remit includes immunisation, whether advice giving or administration of vaccines.

The programme is based on UK standards for immunisation training and consists of 12 short units and activities. A folder of evidence is required to provide evidence of completing activities. Learners are assigned a facilitator to support them through the programme. ▲

🕒 **Time to complete:**

15 hours to complete all units and activities.

CPD Resources relating to specific vaccinations:

- Human Papilloma Virus (HPV) (training slides)
- Human Papilloma Virus MSM (HPV MSM) (training slides and video)
- Meningococcal B (training slides)
- Meningococcal ACWY for Adolescents (training slides)
- Pertussis (Whooping Cough) (training slides)
- Rotavirus (training slides)
- Shingles (training slides)
- Yellow Fever Vaccination Training Programme (Resource)
- Hexavalent DTaP / IPV / Hib / HepB combination vaccine (training slides and video)



Seasonal Flu

Adult Seasonal Flu Vaccination Programme

Training Slides, Algorithm and Poster

Resources for registered practitioners to support the delivery of the flu vaccination programme. ▲

Childhood Seasonal Flu Vaccination Programme

Training Slides, Algorithm and Videos

Resources for registered practitioners to support the delivery of the flu vaccination programme. ▲

Flu Vaccination for Healthcare Workers

Training Slides and Videos

Resources update knowledge amongst the healthcare workforce of flu and the benefits of flu vaccination. ◆ ▲

Flu Vaccination in Pregnancy

Training Slides

This resource is designed to support midwives involved in raising the issue of flu vaccination with all women in the antenatal period and providing women with evidence-based information about flu vaccination. ▲

Public Health Microbiology

Whole Genome Sequencing

Videos

Videos providing an overview of Whole Genome Sequencing in reference laboratories and transforming public health microbiology services in Scotland. ▲

Framework for Workforce Education Development for Public Health Microbiology

The framework addresses key elements of workforce education and development activity that organisations within the statutory and private sectors should consider as they develop action plans for workforce education and development in public health microbiology. ◆ ▲

Travel and International Health

Infectious diseases of high consequence:

Viral Haemorrhagic Fever and E-bola

Training Slides and Videos

Resources use case histories to illustrate the common travel associated causes of fever in travellers with a focus on Viral Haemorrhagic Fever risk assessment. Resource also illustrates the correct procedure for donning and doffing personal protective equipment. ▲

Schistosomiasis

Training Slides and Videos

Resources to support registered practitioners and for use within school settings with a focus on the infection, implications for those travelling to risk countries and advice on prevention.



Gastrointestinal Infection and Zoonoses

Ticks and Lyme Disease

Training Slides, Clinical FAQs and Video

Resources to support registered practitioners and raise awareness of Lyme disease, and how to recognise and manage it most appropriately. ▲

Professional Development

Health Protection Education Pathway

This pathway has been developed to guide the learning and development needs of practitioners in the wider public health workforce. The pathway will provide a structure to inform the development of practitioners new to health protection and allow existing practitioners to consider continuing professional development needs and select appropriate learning activities according to previous knowledge and role requirements. ◆ ▲

Other Resources

Other resources due to be developed include:

- Hepatitis E (training slides and video)
- Rabies educational resource to accompany new SHPN guidance (training slides)
- TB Under Served Population (training slides and information sheets)
- Syphilis resource aimed at clinicians (training slides)

National Events

National events on health protection topics are held annually and information can be found on the Diary of Events webpage on the NES website:

<https://www.nes.scot.nhs.uk/education-and-training/by-theme-initiative/public-health/health-protection/health-protection-diary-of-events-and-webinars.aspx>

Professional Development Frameworks

Career Development Framework for Health Protection Nursing

The framework assists organisations, senior nurses and service leads in identifying the practice and competence required and allows for the benchmarking of existing roles.

The Framework inform nurses in their career progressions and in determining their continuing professional development needs. Workforce planners and developers can use this tool in decisions around capacity building within the Health Protection workforce. ●

Disclaimer

These educational resources continue to be updated as part of the rolling programme of educational governance but do not replace the clinical judgement of practitioners.

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.

www.nes-hai.info

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