



HSE Antimicrobial Resistance
Infection Control (AMRIC)

Competency Framework for Infection Prevention and Control Practitioners in Ireland v1.1



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Section 1

Introduction

Effective infection prevention and control (IPC) is central to providing clean, safe and high-quality health and social care for people who use those services. It also protects those who deliver the services and the wider community.

The purpose of IPC practice is:

1. to support the timely delivery of health and social care that people need with the lowest practical risk of healthcare associated infection in the context of the facilities and resources available at the time
2. to identify areas for quality improvement and to advocate for the change in systems, practice, facilities and resources necessary to achieve that improvement

The national antimicrobial resistance and infection control (AMRIC) team reports to the office of the Chief Clinical Officer (CCO) and is responsible for planning, enabling, performance and assurance of national clinical infection prevention control (IPC), antimicrobial stewardship (AMS) and antimicrobial resistance (AMR) work in the domain of health.

Each HSE health region has responsibility for the planning and coordinated delivery of joined-up health and social care services as part of an integrated structure. IPC and AMS teams have been developed, and these established teams aim to deliver timely IPC and AMS integrated care for patients and service users at regional and local level. These regional IPC and AMS teams work collaboratively with the national AMRIC team; for example, the national AMRIC team develops IPC and AMS guidelines informed by contributions from these teams and stakeholders, and the regional IPC and AMS teams implement these guidelines in clinical practice at their sites.

IPC and AMS teams are comprised of consultant microbiologists/ infectious disease doctors, specialist IPC practitioners for example nurses and midwives, surveillance scientists and antimicrobial pharmacists and supported by administrative staff. IPC and AMS teams work closely and collaboratively with specialist teams such as outpatient antimicrobial therapy (OPAT), sepsis, surgical site infection (SSI) surveillance, intravenous care (IVC) teams and link practitioners in preventing HCAI and promoting AMS, and with specialists with expertise in quality and patient safety and human factors. A fundamental requirement of effective IPC and AMS practice is an educated and skilled workforce to form the multidisciplinary IPC and AMS teams.

Public health emergencies over recent years served to highlight gaps in IPC capacity in some services and in response to a demand for more IPC expertise, the Department of Health (DOH) provided additional funding for IPC specialists across health and social care settings, resulting in the welcome appointment of new colleagues from the nursing, midwifery, medical and allied health professions.

This document on core competencies for IPC practitioners in Ireland has been developed to support health and care professionals pursuing specialist careers in IPC. It will help in identifying and gaining the specific competencies they will require as an IPC practitioner as relevant to their professional role. This will support the growth and development of a skilled IPC workforce in Ireland. Those who have already gained specialist IPC knowledge, skills, experience and qualifications through their training may find this a useful aid when reviewing their continuing training and development requirements.

Acknowledgement

This competency framework document is based on an adaptation of the World Health Organisation (WHO) Core Competencies for IPC Professionals (2020). The value of this document is gratefully acknowledged. The World Health Organisation (WHO) Core Competencies for IPC Professionals (2020) is available at the following link: <https://www.who.int/publications/i/item/9789240011656>

Document development

This document was developed by the HSE-AMRIC team (Appendix I). There was extensive consultation with key stakeholders (Appendix II). It has been adapted from the World Health Organisation (WHO) Core Competencies for IPC Professionals (2020). Adaptation has taken account of other international guidance and the experience and expertise of those who contributed to the development of the document.

In 2025, an evaluation of this document was undertaken. IPC practitioners across Ireland were consulted on content, layout, design and usability. This feedback has informed this version (V1.1) of the Competency Framework for Infection Prevention and Control Practitioners in Ireland.

Purpose of document

This document provides a competency framework to healthcare professionals, to review, assess and document their knowledge, skills and competence to work as IPC practitioners as relevant to their professional role. It is not intended that all of these are requirements that must be fulfilled before commencing work as an IPC practitioner. Many competencies are gained through continuing professional development while working as an IPC practitioner.

This document aims to support managers, in growing and developing a skilled workforce as a basis for multidisciplinary teams within healthcare organisations.

This framework will:

- provide standardisation of the core competencies required for IPC practitioners in Ireland as relevant to their professional role
- assist in curriculum design of post graduate training courses for IPC in Ireland
- support health regions and healthcare organisations in growing and developing skilled and educated IPC workforce
- support self-assessment of competence by the IPC practitioner
- assist and complement staff appraisal and professional development plan processes (PDP)

Scope

This document outlines the core competencies, knowledge, skills and ability required as an IPC practitioner in Ireland. The term IPC practitioner in the context of this document refers specifically to healthcare professionals pursuing a specialist career in IPC.

This document does not intend to address the specialist knowledge, skills and competencies as set out within specified specialist training pathways for IPC practitioners such as clinical microbiologists/ infectious disease consultants.

This framework document does not refer to professional grades, job specification requirements as set out by national and local HR departments, local governance and reporting relationships and staff management. It does not intend to replace the requirement to follow local procedures and policies for human resources management and is intended to be used as a tool to assist and complement these processes.

Higher Education Institutes (HEI) and professional training bodies are invited to consider this document to inform the development of curricula for the courses and training they deliver and qualifications they award.

Target audience

The target audience is health and care professionals currently engaged in or considering a specialist career in IPC, and those who work in IPC and AMS education, training, evaluation, management and clinical service delivery.

Definitions of competency and core competencies

Competency: Proven ability to use knowledge, skills and personal, social and/or methodological abilities in work or study situations and in professional and personal development – what a professional should be able to do (ECDC 2013).

IPC Core competencies: the knowledge, skills and attitudes required for an IPC practitioner to practice with an in-depth understanding of situations, using reasoning, critical thinking, reflection and analysis to inform assessment and decision-making in the prevention and control of healthcare associated infections (HCAI) and antimicrobial resistance (AMR) (WHO 2020).

The competencies described in this document reflect the broad range of competencies that a proficient IPC practitioner is expected to gain. They may not reflect all the higher-level competencies required of an IPC practitioner who is managing the IPC service and not all the core competencies listed will be relevant to all IPC practitioner roles in all settings where healthcare is delivered.

Areas and Domains of core competencies for IPC practitioners

The 6 areas of IPC core competencies and 13 domains outlined in this document are:

1. Leadership in Infection Prevention and Control programme management

- IPC programme management and leadership
- Built environment in healthcare settings

2. Microbiology and Surveillance

- Basic microbiology
- Antimicrobial resistance prevention
- Healthcare associated infection surveillance

3. IPC in Clinical Practice

- Standard precautions
- Transmission-based precautions
- Decontamination of reusable invasive medical devices
- Prevention of healthcare associated infection
- Incident and outbreak management

4. Education

- IPC education and training

5. Quality, patient safety

- Quality and patient safety

6. Infection prevention and control related to safe working environment

- Infection prevention and control practices related to safe working environment

Assessment of core competencies

Assessment of competence can be self-assessment, in conjunction with line managers in professional development planning, and through local IPC team mentorship programmes. Self-assessment and plan of action tools have been developed to support self-assessment and competence development process for the areas and domains of core competencies for IPC practitioners (Section 2).

The following terms can be used to support assessment of competence:

- Working towards: Has acquired some experience of performing the skill, task or responsibility but still requires support or supervision.
- Competent: Able to perform the skill, task or responsibility as an autonomous practitioner. (IPS 2021)

Application of practical experience to complement core competencies

Practical IPC experience is fundamental to acquisition of required competence by an IPC practitioner. IPC practitioners should seek to gain broad experience of IPC service delivery in different settings such as specialist settings (operating theatres, intensive care, neonatal intensive care, renal, oncology and other specialist areas) and general clinical areas. It is useful to have experience of varied health and care settings for example, in an acute hospital, primary care and community settings, as an enabler to delivering IPC and AMS in an integrated manner for patients and service users at regional and local level. Practical experience in managing outbreaks of HCAI and AMR prevention strategies including AMS are essential. Experience working with clinical microbiology laboratory services, estates and facilities management, occupational health, public health, and senior management are valuable.

Professional expertise grows in a continuum. The speed of acquisition and completeness of knowledge and competencies depends on many different variables in particular the opportunities for experience and professional development in different settings. This means that the time required to gain a post-graduate qualification in IPC and for a practitioner to feel proficient and capable of practicing at an independent level will vary. Consideration must be given to the pace at which individual practitioners develop skills and are ready to take on additional roles and responsibilities. Some people may be ready for additional roles and responsibilities more quickly and others may require longer. HR guidance and policies, governance, professional development planning and performance management strategies may support practitioners and line managers in identifying reasonable and achievable timelines to gain competence and practice at a level deemed appropriate by the healthcare organisation in which they work in.

How to use this document to assess your own competencies?

This document sets of a series of 6 areas of IPC core competencies and 13 domains of practice, for example the first area is Leadership in IPC programme management and leadership. Within each area are domains of practice with a section on knowledge and a section on skills and ability.

Knowledge (do I know about?)

The section on knowledge sets out topics that the IPC practitioner should have knowledge of under the following sub-headings such as (1) general principles (2) programmes, policy and guidance, (3) leadership and implementation (4) communication and advocacy (5) education and training and (6) quality. In considering this section, the practitioner should ask themselves do they know enough about each topic to support themselves in their practice and relevant to their professional role within the IPC team, and do they know how to access additional knowledge when they require it.

Skills and ability (am I able to?)

The section on skills and ability relates to the skill and ability of the IPC practitioner to apply the knowledge. The section on skills and ability relates to the skill and ability of the IPC practitioner to apply the knowledge that they have, relevant to their professional role within the IPC team or know how to access. The sub-headings correspond to the sub-headings in the preceding knowledge section. In considering this section, the practitioner should ask themselves do they have the skills and ability to apply their knowledge to fulfil their role in delivering the relevant area of IPC service.

The format of the section on knowledge and skills and ability can appear somewhat repetitive. The intention is to focus the practitioner's attention on the fact what they know (knowledge) is an essential foundation but that being able to use what they know (skills and ability) is critical to delivering on their role.

A section on additional resources has been added to guide practitioners using this competency framework to key guidance and resources available to support IPC practice and further learning in each area.

Self-assessment and plan of action (POA) tools have been developed to support self-assessment and competence development process (Section 2).

These tools are interactive, allowing user to download the file and input information as required, save, review and update throughout the self-assessment and competence development process.

Section 2

IPC core competencies - areas and domains

Leadership and IPC programme management

Domain: IPC programme management and leadership

Competency review:

- Use leadership and management strategies, including behavioural change approaches and concepts for development, planning and implementation of an IPC programme.
- Develop/plan/implement guidance, training resources, monitoring and audit tools (from national/international IPC standards and guidance).
- Provide IPC and AMS training and education for health and care worker (H & CW) professions.
- Undertake monitoring and feedback of compliance with national IPC standards/guidance.
- Use data and evidence to support decision making for IPC and AMS interventions.
- Use leadership, and communication skills in communicating with H&CWs, teams, senior management, patients and their families.
- Advise and support IPC infrastructure, environmental monitoring, hygiene and IPC standards (national standards).
- Utilise change management strategies for implementing change in IPC service delivery.

IPC Programme, policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • National strategies, guidance and policies for IPC, AMS and AMR. • National healthcare quality standards on hygiene, decontamination and IPC and associated monitoring requirements. • National, regional and local governance structures for IPC and AMS. • Health region governance and IPC and AMS teams- the roles, responsibilities and governance of the multidisciplinary IPC/AMS team and IPC/AMS committees at local/ regional levels. • Approaches to developing local IPC policies and procedures, strategic plans, standard operating procedure (SOPs), and monitoring/feedback and evaluation strategies. • IPC programmes at regional and local level with clearly defined objectives, functions and activities for preventing and managing HCAI and AMR. • Behaviour change strategies and how to influence change in practice. 	<ul style="list-style-type: none"> • Work collaboratively to develop a written and measurable IPC programme to include an integrated approach to IPC and AMS service delivery at regional and local levels. (clear objectives, time frame, responsibilities, utilising multimodal strategies, update annually based on needs, risk assessment and the available resources of the IPC and AMS team). • Work collaboratively to develop local or adapt national infectious diseases epidemic plans (clear objectives, time frame, responsibilities and update as required). • Work collaboratively to develop local/adapt national IPC guidance on HCAI, AMS and AMR. • Work collaboratively with key stakeholders and leaders in the healthcare organisation in developing strategy for compliance with IPC elements of national quality standards for healthcare Health information and Quality Authority (HIQA). • Work collaboratively with local committees and facility wide departments such as sterile services department (SSD) and decontamination leads, hygiene services, facilities, estates advising on IPC and AMS standards and practices recommended in their specific areas of responsibility.

Leadership and implementation

Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Management strategies for the planning and implementing of an IPC programme and/or a team to achieve objectives, setting goals, prioritisation of work, project management, teamwork. • The elements of multimodal improvement strategies including behavioural change approaches and concepts, to influence H&CWs in their application of IPC practices • Quality improvement interventions including behavioural change approaches and concepts to implement national strategies and guidance. • Change management strategies in IPC service in health service delivery for example the Health Services Change Guide here • IPC knowledge of national and local procurement and tendering processes and the advisory role of the IPC practitioner as relevant to their role. 	<ul style="list-style-type: none"> • Use leadership skills including behavioural change approaches and concepts, to direct and implement IPC programme (for example evaluation & monitoring of programme results, planning, coaching, training, capacity building,). • Work collaboratively with key stakeholders and leaders in implementing national guidance on IPC, AMS and AMR. • Work collaboratively with key stakeholders and leaders in conducting facility wide IPC risk assessments, developing plans to manage risks as a strategy for compliance with IPC elements of national quality standards for healthcare (HIQA). • Demonstrate problem solving and critical thinking skills when presented with situations involving infectious threats. • Implement a hand hygiene multimodal improvement strategy and campaign in the local/regional health care areas • Implement IPC and AMS interventions (as relevant to role), working with multidisciplinary teams and using multimodal strategies and campaigning as required. • Consult with and collaborate with local public health departments to help coordinate surveillance and the outbreak response (community/hospital/facility outbreaks), promote an exchange of information, and generate regular reports. Contribute to research activities as part of a team. • Review, evaluate and report on local/ regional IPC and AMS initiatives. • Implement quality improvement initiatives based on local resources, epidemiology and risk-based priorities with key stakeholders and leaders. • Work with the microbiology laboratory service to support appropriate testing for infectious agents and application of results to support IPC and AMS. • Use change management strategies for example the Health Services Change Guide here to assist with changes in IPC service delivery.

Communications and advocacy

Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Effective communication approaches and how they are used in IPC. • Advocating effectively the importance of IPC and AMS programmes and practices with key stakeholders and leaders. • Importance of communicating with patients/service users. 	<ul style="list-style-type: none"> • Advocate for and facilitate synergy between IPC & AMS teams at local & regional level • Advocate for the involvement of the IPC team at design stage in local project development, the built environment, particularly in recommending specific layout and design, finishes, equipment, personnel and resources for the IPC programme. • Advocate for communication with patients/ service users at all times. • Use effective communication approaches to facilitate multidisciplinary interactions with key stakeholders and leaders. • Promote national and international IPC and AMS events for example World hand hygiene day, IPC week, European antibiotic awareness day (EAAD) and all the other related national/worldwide events with materials supported from AMRIC

Education and training

Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Knowledge of adult education and learning methods, including face to face training, simulation, eLearning and mentorship. • IPC and AMS knowledge and skill required for pre-graduate, in-service and postgraduate IPC training. 	<ul style="list-style-type: none"> • Develop/ adapt IPC training resource strategies and plans targeting different audiences. • Conduct H&CWs training in IPC using evidence-based and practical approaches, while supporting continuous education, including a mentorship role for other IPC professionals and clinical staff.



Quality

Knowledge (do I know about?)

- Local/ regional organisational governance and reporting structures.
- Knowledge of national key performance indicator (KPI) and reporting arrangements.
- Knowledge of risk assessment process and management of IPC risks.
- Knowledge of national quality standards monitoring programmes.
- Review and evaluation approaches to assess the effectiveness of IPC interventions and IPC programme and quality improvement strategies.

Skills and ability (am I able to?)

- Implement monitoring and reporting of national key performance indicators.
- Conduct product evaluation for equipment and supplies in alignment with national procurement guidance framework.
- Work collaboratively to present and disseminate IPC and AMS audit and surveillance findings, IPC and AMS recommendations, annual reports, policies and procedures, through local governance structures to relevant stakeholders (for example, individuals, committees, departments, units, academia).
- Work collaboratively with key stakeholders and leaders in monitoring compliance with IPC elements of national quality standards for healthcare (HIQA).
- Collaborate with risk management and quality improvement teams and other stakeholders in reviewing adverse events with IPC, identifying organisational IPC risks, current and additional control measures required, management of risks and healthcare organisations/ Integrated healthcare area risk register.
- Work with others to monitor potential epidemics or influx of infectious disease through routine surveillance of admissions through scheduled and unscheduled care admission pathways, microbiological surveillance, including emerging and re-emerging pathogens.



Leadership and IPC programme management

Domain: The built environment in healthcare settings

Competency review:

- Implement IPC guidance (from national/international IPC guidance and standards) to prevent HCAI and AMR in the healthcare environment.
- Use a risk-based approach to assess the infection risks related to building design, construction and renovation, ventilation, water systems in healthcare, environmental hygiene, and provide guidance on IPC practices.
- Support healthcare organisations, local estates and facilities departments with IPC related training and education.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • National and international guidance and standards on IPC in the built environment and the influence of facility design on healthcare associated infections. • The health care environment as a source of infection by air, water and contact with the physical environment. • How the built environment contributes to effective IPC - for example design// layouts/spacing/surface finishes/workplace design. • National and international guidance on water systems in healthcare facilities. • The IPC risk assessment criteria and key principles for pre-, during, post-construction and commissioning of a new building or for any demolitions or renovations, taking into consideration current building guidance and legislation. • Principles of hospital design related to layout, ventilation requirements and other aspects of general wards and specialised units, such as isolation rooms/facilities, (including neutral, negative and positive pressure systems), theatres and immediate pre- and postoperative areas, augmented care units, haemodialysis units, burns unit, sterile services department, endoscopy units. • Surface and material characteristics important for IPC. • Outcomes/indicators relating to IPC and water supply systems and environmental hygiene during the design, construction, and modification of the built environment. • Commissioning requirements including timelines for air sampling, water sampling, environmental hygiene requirements. • IPC standards and practices for the hospital/ facility/laundry to protect health workers from exposure to potentially infectious materials during the collection, handling and management of waste and linen which may be contaminated with blood and body fluids or other infectious material. 	<ul style="list-style-type: none"> • Collaborate with local estates, facilities management and hygiene services, and contribute IPC advice and expertise in standard operating procedures related to a safe built environment, water systems in healthcare and environmental monitoring requirements, environmental cleaning and disinfection, healthcare waste management and safe handling of linen procedures.

Leadership and implementation

Skills and ability (am I able to?)

- Implement IPC requirements of national estates guidance.
- Be involved and provide IPC advice at all stages of healthcare developments of new buildings, demolition and renovation projects.
- Advise on key design features that minimise the transmission of infection such as isolation facilities, ventilation, water systems, appropriate workplace design, layout and spacing and storage as per national and international guidance and standards.
- Complete IPC risk assessments and advise on IPC key measures for pre-, during, post-construction and commissioning of a new building or for any demolitions or renovations, taking into consideration current building guidance and legislation.
- Advise on IPC commissioning requirements including timelines for new buildings and renovations including air sampling, water sampling and environmental hygiene requirements and auditing.
- Support the local facilities department and hygiene services with IPC advice on cleaning standards and cleaning specifications for the healthcare environment.

Education and training

Skills and ability (am I able to?)

- Contribute to or develop IPC training resources, strategies and plans specifically for, estates and construction staff on IPC principles and practices related to IPC in the built healthcare environment
- Plan, deliver and evaluate IPC related training programmes.

Communications and advocacy

Skills and ability (am I able to?)

- Advise on key IPC communication messages and tools (for example, reminders) tailored to different audiences about the importance of IPC in the built environment, water systems management and environmental monitoring, ventilation, hand hygiene and sanitary facilities management.
- Engage and collaborate with stakeholders such as estates, maintenance, facilities management, hygiene and other related staff to advocate for IPC in the built environment.

Quality

Skills and ability (am I able to?)

- Provide support with the monitoring of cleaning standards and advise on corrective action plans where standards are not met.
- Contribute to local environmental committees, identifying elements important for a safe care environment, such as ventilation, water systems in healthcare facilities, air quality and other factors relating to the built environment. and contribute to the monitoring programmes of these systems.
- Assess the infection risks of design, construction and renovation that may impact on patient care settings and provide recommendations to reduce the risk of infection.
- Audit and monitor implementation of IPC recommendations of pre-construction, during, and post-construction and commissioning of a new building or for any demolitions or renovations, report findings and advise on corrective actions.



Microbiology and surveillance

Domain: basic microbiology

Competency review: Know the microorganisms that commonly cause infections in humans, in particular in health care settings and in the context of the global, national and local epidemiology; understand their modes of transmission and antimicrobial resistance (AMR) patterns.

General Principles		Policy and guidance
Knowledge (do I know about?)		Skills and ability (am I able to?)
<p>General classification of microorganisms (including bacteria, virus, fungus, prions, etc., in particular, those of epidemiological significance in the health care and community settings, those commonly found in the environment, and microorganisms likely to be associated with outbreaks) and their key characteristics including:</p> <ul style="list-style-type: none"> • Mode of transmission. • Pathogenicity and virulence. • Reservoirs or sources. • Chain of infection. • Incubation period and period of communicability. • Survival in various environments. • Most common clinical presentations of the infection. • Appropriate diagnostic/surveillance test(s) for specific microorganisms. • Different host-microorganism interactions (for example, colonisation versus infection, normal flora versus transient carriage, latency, commensal versus pathogens) and general concepts about AMR mechanisms. • Human microbiome and its role in the transmission and prevention of disease. • IPC measures to reduce or prevent transmission of microorganisms and infections, including vaccination. • IPC elements of national public health emergency plans including infections that are common in the community and that can be transmitted in the health care setting. 		<ul style="list-style-type: none"> • Support implementation of national/ local facility-adapted guidance on recommended microbiological investigations for routine and outbreak management of health care-associated infections and AMR.

Leadership and implementation

Knowledge (do I know about?)

- Correct collection methods (correct microbiological samples at the correct time from the correct site and correct amount), handling, packaging, labelling and transport of specimens and biohazardous material.
- General methods for the detection and identification of microorganisms in the laboratory and when each is appropriate (for example, direct detection methods, culture, serology, molecular techniques).
- The role of the IPC programme, including specific interventions and AMS and their integration in AMR containment strategies.

Skills and ability (am I able to?)

- Support national and facility-based efforts to minimise AMR, including diagnostic and AMS initiatives and reporting of multidrug-resistant microorganisms, according to local and national requirements.
- Work with the microbiology laboratory to identify the infectious agent and to establish an appropriate IPC and AMS strategy.
- Advise or participate in discussions on the microbiological specimens to be taken in specific infection cases and/or outbreaks, microorganisms potentially involved based on laboratory results, clinical presentation, epidemiological information, and modes of transmission.
- Take appropriate actions to provide advice and support for H&CWs in applying standard and transmission-based precautions in caring for patients infected or colonised by epidemiologically relevant microorganisms, depending on the modes of transmission and virulence patterns identified through microbiological tests.

Communication and advocacy

Skills and ability (am I able to?)

- Communicate in a timely and effective manner with stakeholders and leaders (for example, laboratory, Public Health Departments, healthcare workers, clinical leaders) and target audiences (for example, patients /service users and families) about modes of transmission and risks of specific pathogens and necessary microbiological investigations.
- Advocate for effective clinical communication processes (aligned to NCEC guidelines on clinical communication). Communication processes should address infection risks and MDROs and include communication when people are transferring between healthcare facilities and when transferring
- from healthcare facilities to residential care facilities or to home
- Support IPC and AMS team members with diagnostic and antimicrobial stewardship programmes where required.

Education and training

Skills and ability (am I able to?)

- Identify relevant clinical microbiology topics and practical activities to be included in IPC training programmes and develop related training resources in collaboration with microbiology team.

Quality

Skills and ability (am I able to?)

- Contribute to the review of laboratory reports of epidemiology and AMR relevant to locally common microorganisms.
- Contribute as required in the review of the processes used to conduct diagnostic/laboratory tests for investigating HCAI (surveillance).

Microbiology and surveillance

Domain: Antimicrobial resistance

Competence review:

- Understand AMR mechanisms and methods for the detection and interpretation of results; understand basic concepts of AMR surveillance.
- Contribute to improve/sustain AMR surveillance protocols and systems including rapid alert/detection systems.
- Implement AMRIC national policies at health care facility level.
- Support training activities on AMR, IPC and AMS in healthcare.

General principles		Policy and guidance	
Knowledge (do I know about?)		Skills and ability (am I able to?)	
<ul style="list-style-type: none"> • Definition of AMR, concept of intrinsic and acquired resistance. • Factors contributing to the emergence and spread of AMR in health care facilities and communities, including human behaviour, the overuse/misuse of antimicrobials, water systems management and monitoring. • Main AMR mechanisms of the most common microorganisms causing HCAs. • Global, national and local epidemiology of AMR and its implications on the burden of endemic HCAs and in outbreaks. • Impact of AMR in terms of morbidity, mortality, complications and costs. • Common classes of antimicrobials and their mechanisms of action to prevent and control infections, including the role of antimicrobial prophylaxis. • Key principles of standard and transmission precautions and their effectiveness to reduce the spread of AMR. • Principles of the rational use of antimicrobials, including key elements of effective AMS programmes and their linkages to IPC. 		<ul style="list-style-type: none"> • Contribute to develop or to improve/sustain AMR surveillance protocols and systems including rapid alert/ detection systems. • Contribute to develop or to improve/sustain evidence-based AMR prevention strategies and policies (national/local). 	
Leadership and implementation			
Knowledge (do I know about?)		Skills and ability (am I able to?)	
<ul style="list-style-type: none"> • Components of Ireland's national action plans (iNAP) for antimicrobial resistance and the role of IPC and AMS as key interventions to combat AMR. • Antimicrobial management principles for prophylaxis and treatment. • IPC and AMS practices to prevent and control the spread of AMR in the healthcare setting. • The synergy of national and local IPC and AMS strategies to reduce AMR. 		<ul style="list-style-type: none"> • Collaborate in identifying factors contributing to the emergence and spread of AMR in health care facility. • Support the implementation of appropriate IPC and AMS measures for preventing the spread of AMR and specific transmission-based precautions for caring for people colonized or infected with resistant microorganisms. • Use multimodal strategies to implement IPC and AMS measures to reduce AMR and HCAI. • Participate in and support the activities of the IPC and AMS committees to develop and update plans to reduce AMR in healthcare, based on findings related to local AMR determinants and data including the consumption of antimicrobial agents. 	

Communication and advocacy

Knowledge (do I know about?)

- Behavioural change and communication approaches to support IPC and AMS to reduce AMR.

Skills and ability (am I able to?)

- Advocate continuous and strong support to enable effective implementation of IPC and AMS strategies to combat AMR.
- Support communication strategies on AMR and the effectiveness and cost effectiveness of IPC and AMS practices to address AMR, using messages tailored to different audiences and stakeholders (for example senior management, healthcare workers, IPC committees, patients and the public).

Education and training

Skills and ability (am I able to?)

- Contribute to developing training resources on the importance of AMR and IPC and AMS strategies to combat AMR.
- Conduct or support training roll-out on AMR as part of IPC training, adapted to different healthcare worker groups.

Quality

Skills and ability (am I able to?)

- Work closely with the microbiology laboratory for the collection, interpretation and reporting of AMR data.



Microbiology and surveillance

Domain: Healthcare associated infection surveillance

Competence review:

- Understand basic concepts of epidemiology and surveillance.
- Contribute to develop or to improve/sustain HCAI surveillance protocols and systems at local level.
- Support implementation of HCAI surveillance, including AMR, considering the local context and other IPC processes.
- Work with a team to use surveillance data to identify IPC and AMS interventions to reduce the risk of HCAs among patients and with the healthcare organisation.
- Conduct or support training activities.

Basic principles	Policy and guidance
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • The tasks and specialisations linked to the individual roles within the IPC team related to HCAI surveillance. • Epidemiological concept of person, place and time in descriptive epidemiology. • Types of surveillance to target HCAs and AMR microorganisms and other processes and the use of surveillance data to implement interventions to reduce the risk of HCAs among patients'/service users and care providers and to improve adherence to IPC practice and reduce AMR. • Basic epidemiological and biostatistical principles and methods (for example, descriptive statistics). • Surveillance data recording and collection methods. • Best practices in data governance, data validation, data sharing, data privacy, data security and data portability. • Differences between HCAI surveillance definitions and clinical definitions for infectious syndromes. • The basic principles, advantages and disadvantages of different surveillance methodologies: incidence versus prevalence, passive versus active; prospective versus retrospective; hospital-wide versus targeted; laboratory versus patient-based; adjusted versus crude incidence rates. • The role of surveillance and feedback (prospective, benchmarking, identifying trends and patterns) and reporting to inform appropriate interventions and clinical practice. • Existing surveillance systems (local, regional, and national) and the most appropriate informatics support tools. • Best methods for targeted surveillance of common HCAs, such as: <i>Clostridioides difficile</i> (<i>C. difficile</i>) infection, <i>Staphylococcus aureus</i> bloodstream infection (SABSI), surgical site infection (SSI), catheter-associated urinary tract infection (CAUTI), ventilator-associated pneumonia (VAP), multidrug resistant organism (MDRO), microorganisms that tend to be associated with outbreaks. • Best approaches, descriptive and visual to present surveillance data. 	<ul style="list-style-type: none"> • Work with multidisciplinary IPC team to implement national protocols for a surveillance programme with clearly defined objectives and goals that are relevant for the target areas, procedure, population or event of interest. • Regulatory requirements for IPC and HCAI surveillance and data governance.

Leadership and implementation

Skills and ability (am I able to?)

- Support surveillance systems in place, including relevant linkages with clinical/laboratory services.
- Support implementation of facility IPC surveillance and notification systems.
- Work with the wider IPC team and plan as appropriate to determine organisational priorities for surveillance, based on available evidence and resources, regulatory or other relevant contextual factors.
- Work with the IPC team to develop a plan to collect data: choose surveillance protocol, create or adapt practical data collection forms, identify a data collection system, emphasise data quality.
- Work with a team to develop recommendations for action based on the data and literature.

Education and training

Skills and ability (am I able to?)

- Contribute to developing training resources, strategies and plans to teach basic principles of HCAI and AMR surveillance.
- Conduct or support training roll out adapting to different audiences.

Communications and advocacy

Skills and ability (am I able to?)

- Advocate the value of HCAI surveillance.
- Communicate the surveillance data as required to different stakeholders and leaders to raise awareness of HCAI and motivate health workers to change their behaviour and improve IPC practices.

Quality

Skills and ability (am I able to?)

- Work with the IPC team to incorporate information technology systems and applications into the analysis and dissemination of data.
- Contribute to data management, analysis and surveillance reporting.
- Work with the IPC team to critically evaluate and interpret the HCAI surveillance results in the context of trends over time. Comparison with internal/external data sources and/or benchmarks and the achievements of the surveillance programme and any other relevant context.
- Monitor the indicators of outcomes, process and structure following IPC interventions targeting HCAI.

IPC in clinical practice

Domain: Standard Precautions

Competency review:

- Implementation of standard precautions according to risk assessment for all patients in clinical services throughout the healthcare organisation, working with nursing teams, medical teams, specialist areas and other multi-disciplinary H&CWs and senior management.
- Adapt policies and/or SOP, training resources and monitoring/audit tools on standard precautions; organise and provide training and education for H&CWs on standard precautions in the context of broader IPC training; undertake audit, monitoring and feedback activities to assess compliance with standard precautions.

Policy and guidance	
Knowledge required (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • National quality standards on hygiene, decontamination and infection prevention control and associated monitoring guidance. • National guidance on standard precautions including IPC practices and measures to break the chain of disease transmission. • The hierarchy of controls (replacement or removal of hazards, engineering and administrative controls, and personal protective equipment) to prevent and control the transmission of microorganisms in health care settings. • Standard precautions as the basic IPC practices that apply at all times in all settings where health care is delivered. <ul style="list-style-type: none"> • Hand hygiene. • Appropriate use of personal protective equipment (PPE). • Safe injection practices. • Cleaning and disinfection of the healthcare environment and patient equipment. • Respiratory hygiene and cough etiquette. • Decontamination of reusable invasive medical devices. • Aseptic technique. • Waste management. • Handling of linen. • The equipment, supplies and products needed for the implementation of standard precautions and their technical specifications as appropriate. 	<ul style="list-style-type: none"> • Adapt policies and standard operating procedures on standard precautions including guidance related to IPC practices and measures to break the chain of disease transmission.

Leadership and implementation

Knowledge required (do I know about?)

- Governance, roles and responsibilities within the organisation, departments and H&CWs to minimize the risk of exposure to and transmission of infectious diseases in health and care settings through the implementation of standard precautions.

Skills and ability (am I able to?)

- Identify any IPC related practice gaps and apply multimodal strategies to implement standard precautions.
- Use standard precautions appropriately according to point of care risk assessment (PCRA).
- Collaborate with healthcare workers and other relevant departments to address issues related to the consistent application of standard precautions.
- Identify the appropriate technical specifications for personal protective equipment (gloves, masks, gowns, etc.) and other products (for example, disinfectants) that may be used for implementing standard precautions and support their timely procurement.

Education and training

Skills and ability (am I able to?)

- Develop or utilise existing training resources and implementation strategies for standard precautions in the context of broader IPC training, for example hand hygiene educational resources including eLearning resources and standard precautions eLearning resources and targeting different audiences., for example clinical and non-clinical staff, patients' relatives, general public
- Conduct and support H&CW training on standard precautions using both evidence-based and practical approaches.
- Inform and/or educate patients, families and visitors on standard precautions as appropriate.
- Evaluate training to assess its effectiveness.

Communications and advocacy

Skills and ability (am I able to?)

- Develop appropriate communication messages and tools (for example, reminders) about the importance of standard precautions to be applied for all patients, regardless of their infectious status.
- Use national communications resources such as posters, key messages and information leaflets on standard precautions.
- Act as a role model and champion for the implementation of standard precautions to ensure quality of care and safety for both patients and H&CWs.

Quality

Skills and ability (am I able to?)

- Work with a team to develop, implement, monitor and evaluate strategies for assessing compliance with standard precautions.

IPC in clinical practice

Domain: Transmission-based precautions

Competence review:

- Implementation of transmission-based precautions according to point of care risk assessment (PCRA) and in relation to the suspected or confirmed microorganism(s), working with nursing teams, medical teams, specialist areas and other multi-disciplinary H&CWs and senior management.
- Adapt policies and/or SOPs, training resources and monitoring/audit tools on transmission-based precautions.
- Lead on provision of training and education for H&CWs on transmission-based precautions in the context of broader IPC training.
- Undertake audit, monitoring and feedback activities to assess compliance with transmission-based precautions.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Definitions for use of transmission-based precautions. • National guidelines regarding: <ul style="list-style-type: none"> • Isolation, including airborne, droplet or contact precautions, or a combination and the required duration, based on the confirmed or suspected microorganism or conditions (for example, HCID, SARS-CoV-2, , multidrug-resistant <i>Candidozyma auris</i>, measles, mycobacterium tuberculosis, carbapenemase producing- organisms, and other multidrug resistant organisms), including personal protective equipment assessment as per PCRA, patient preparation, and route of patient transit (ambulance, corridors, etc.) • Safe transport of patients/service users on isolation precautions-PPE requirements. • Criteria for placing and removing patients on transmission-based precautions (suspected, confirmed, or high-risk cases). • Criteria for cohorting patients'/service users with infectious diseases (same organism or disease). • Engineering and environmental controls supporting the application of transmission-based precautions. • The equipment, supplies and products needed for the implementation of transmission-based precautions and their technical specifications as appropriate. 	<ul style="list-style-type: none"> • Adapt policies and standard operating procedures for transmission-based precautions. • Use nationally developed transmission-based precaution signage resources

Leadership and implementation

Knowledge (do I know about?)

- Working with a team to develop/implement strategies for implementation and compliance with transmission-based precautions for H&CWs.
- The roles and responsibilities of the organisation and H&CWs to minimise the risk of exposure to, and transmission of infectious diseases in health and care settings through implementation of transmission-based precautions.

Skills and ability (am I able to?);

- Identify gaps and the need for additional precautions according to the modes of transmission of the confirmed or suspected microorganism.
- Implement the correct transmission-based precautions consistently throughout the facility by working together with nursing and medical teams, other multi-disciplinary healthcare workers and senior management (including the initiation and discontinuation of transmission-based precautions, patient transport, items/ equipment cleaning, waste management, visitor management, etc.).
- Assess the risk of transmission related to the clinical presentation, patient placement, required clinical procedures, etc.

Education and training

Skills and ability (am I able to?)

- Educate health and care worker on the principles of transmission-based precautions, including types of precautions, transmission routes, implementation, duration and discontinuation of transmission-based precautions, correct and rational use of personal protective equipment (as per PCRA) and processes related to donning (putting on) and doffing (taking off) PPE, and specific waste disposal and management systems.
- Use multimodal training and education resources such as face-to-face training, simulation training and eLearning resources on transmission-based precautions, video and poster resources
- Inform and/or educate patients, families and visitors on IPC measures to prevent and control the transmission of infection in health care settings, including the specific features of transmission-based precautions.
- Lead by example by accompanying other healthcare workers when they are caring for people with infections that require transmission-based precautions.

Communications and advocacy

Skills and ability (am I able to?)

- Work with a team to develop appropriate communication messages and tools (for example reminders) about implementation of transmission-based precautions.
- Use nationally developed AMRIC communication resources such as posters, videos and information leaflets about application of transmission-based precautions.
- Act as a role model and champion in implementing transmission-based precautions to ensure quality of care and patient and health care worker safety.

Quality

Skills and ability (am I able to?)

- Work with a team to develop and implement monitoring and evaluation strategies for assessing compliance with transmission-based precautions.

IPC in clinical practice

Domain: Decontamination of reusable invasive medical devices (RIMD)

Competency review:

- Collaborate with decontamination leads/sterile services department (SSD) /local decontamination committees and contribute (from IPC perspective) to strategies, guidelines/standard operating procedures and training resources on appropriate cleaning, disinfection and sterilisation processes and quality control for reusable invasive medical devices.
- Contribute to the healthcare organisations decontamination programme to meet national quality standards.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • National recommendations for cleaning, disinfection and sterilisation processes for reusable invasive medical devices, national quality standards and monitoring guidance. • Concepts of cleaning, disinfection and sterilisation. • IPC risk related to specific high-risk pathogens (for example, known or suspected case of Creutzfeldt-Jakob Disease (CJD)) and the appropriate handling and reprocessing or disposal of medical devices/equipment used on patients/service users identified with these pathogens. • Standard methods for achieving effective sterilisation: <ul style="list-style-type: none"> • Quality assurance: documentation and monitoring for cleaning, disinfection (including high-level disinfection) and sterilisation processes. • Advantages and disadvantages of chemical agents used as chemical/high-level disinfectants, including level of action of chemical disinfectants (low-, intermediate- and high-level disinfection). • Components of sterilisation validation: <ul style="list-style-type: none"> • Risk management in decontamination and sterilisation: processes to identify, manage and mitigate breaches in processes. • Essential requirements for the SSD design: <ul style="list-style-type: none"> • Staffing, education and training, workflow and work environment. • How to monitor and evaluate practice and monitor patient outcomes in order to identify failures in process and practice. • Structure of an SSD (for example design layout, utilities, surfaces). • Required air changes, negative pressure for decontamination, storage room and racks, temperature and humidity ranges for each working area. • Quality assurance requirements & reporting processes • Appropriate point of use cleaning immediately after use (for example with enzymatic if appropriate), and prior to timely transport to SSD for reprocessing • Storage, handling and transportation of contaminated, clean and/or sterile supplies and medical devices to and from SSD (internal and external transport) including factors that affect the shelf life of sterile items. 	<ul style="list-style-type: none"> • Collaborate with decontamination leads/ SSD and advice on IPC measures related to cleaning, disinfection and sterilisation processes for medical devices and equipment. • Advise on IPC actions that are required to improve quality and safety when reprocessing medical devices/ equipment.

Leadership and implementation

Skills and ability (am I able to?)

- Provide IPC support, advice and guidance as a member of local decontamination committees.

Education and training

Skills and ability (am I able to?)

- Assist decontamination leads or designated other with developing or adapting training resources, strategies and plans on cleaning, disinfection and sterilisation processes and quality control for medical devices and equipment.
- Provide IPC training (in all areas where reprocessing is carried out and for all staff involved).

Quality

Skills and ability (am I able to?)

- Collaborate with decontamination and procurement key stakeholders as required to assess medical equipment and devices under product evaluation (for purchase) for their ability to be safely reprocessed.
- Collaborate with decontamination lead to initiate action/investigation if breaches in processes have been identified including equipment tracking, call back of sets, any harmed patient recalls.
- Work with a team to interpret relevant surveillance data and consider the implications of decontamination activities as part of an improvement strategy for the reduction in spread of both HCAI and AMR.

IPC in clinical practice

Domain: Prevention of healthcare associated infections

Competency review:

- Understand the epidemiology, risk factors and burden of HCAI. Implement national strategies for the prevention and control of HCAI and guidelines/SOPs for their prevention.
- Adapt or improve a surveillance/ monitoring system to detect HCAs, monitor compliance with preventive measures; review, interpret and use local data to inform preventive measures and provide regular and timely feedback on infection rates and compliance with best practices to all relevant audiences and stakeholders.
- Conduct or support training activities and develop and/or use effective communications to advocate for the prevention of harm due to healthcare associated infections.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Definitions and classification of HCAI for surgical site infections (SSI), HCAI bloodstream infections (BSI) from invasive medical devices for example peripheral venous catheter (PVC), central venous catheter (CVC) and peripheral inserted central catheter (PICC), catheter related urinary tract infection (CAUTI), ventilator associated pneumonia (VAP), Healthcare associated <i>Clostridioides difficile</i> infection. • Epidemiology, risk factors, burden, clinical presentation and complications of HCAs. • Causative microorganisms of HCAs. • Commonly used types of invasive devices such as PVCs and CVCs, and their potential associated risks. • Multimodal strategies* (including care bundles ** and checklists) for the prevention of the HCAs. 	<ul style="list-style-type: none"> • Adapt national guidelines and/or local policies and SOPs related to the prevention of HCAs.
Leadership and implementation	
Skills and ability (am I able to?)	
<ul style="list-style-type: none"> • Identify the existing gaps in practices and apply multimodal strategies* (including care bundles ** and checklists) for the prevention of HCAs. 	
Education and training	
Skills and ability (am I able to?)	
<ul style="list-style-type: none"> • Work with a team to develop or contribute to developing training resources, strategies and plans on the prevention of HCAs, with a focus on recommended best practices. • Conduct or support training roll-out adapted to different audiences, including continuous education and the use of bedside training simulations and other practical approaches. 	

Communications and advocacy

Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> Approaches to appropriate and effective communication about the prevalence of HCAIs and related preventive strategies, including targeting different audiences across all levels (national, local, unit specific). 	<ul style="list-style-type: none"> Use nationally developed AMRIC communication resources such as posters, videos and information leaflets about prevention of healthcare associated infections. Engage with key stakeholders and identify and work with champions to advocate for the prevention of harm due to HCAIs.

Quality

Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> Monitoring and evaluation methods for the surveillance of HCAI, methods for assessing compliance with measures to prevent them (for example insertion and maintenance bundles), including other indicators. HSE KPI for HCAI and how they are monitored. 	<ul style="list-style-type: none"> Work with a team to evaluate the local risk factors, epidemiology and burden of specific HCAIs, including at unit level. Work with a team to collect, critically review, interpret and use local data on specific HCAIs to inform preventive measures and to develop audit protocols for the regular monitoring of compliance with best practices. Work with a team to report on data required for the HSE national monitoring system. Identify barriers to compliance with recommended procedures and develop action plan to address non compliances. Provide regular and timely feedback on infection rates and compliance with best practices to all relevant audiences and stakeholders, including user-friendly methods (for example, displaying data on the unit board or providing results on smartphones). Conduct systems analysis, root cause analysis (RCA), incident review for HCAIs as required, identify areas of key learning and develop and implement key learning into prevention strategies.

*Multimodal implementation strategy: A strategy consisting of several elements or components (three or more; usually five) implemented in an integrated way with the aim of improving an outcome and changing behaviour. It includes tools, such as bundles and checklists, developed by multidisciplinary teams that take into account local conditions. The five most common components include: (i) system change (that is, availability of the appropriate infrastructure and supplies to enable IPC best practices); (ii) education and training of health care workers and key players (for example, managers); (iii) monitoring infrastructures, practices, processes, outcomes and providing data feedback; (iv) reminders in the workplace/communications; and (v) culture change with the establishment or strengthening of a safety climate. (WHO 2020).

**Bundle: An implementation tool aiming to improve the care process and patient outcomes in a structured manner. It comprises a small, straightforward set of evidence-based practices (generally three to five) that have been proven to improve patient outcomes when performed collectively and reliably. (WHO 2020).

IPC in clinical practice

Domain: Incident and outbreak management

Competency review:

- Prevent, detect, and contribute to the management of IPC related incidents and healthcare associated outbreaks as part of the outbreak control team (OCT).
- Conduct or support IPC and AMS training activities and develop and/or use effective communications during outbreaks in health care facilities.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Definitions and basic principles: levels of disease occurrence, definition of incidents, outbreak, cluster; types of outbreaks, including healthcare associated outbreaks and their possible sources. • National guidance related to incident and outbreak management. • Concepts of preparedness and readiness to respond to outbreaks and the role of IPC and AMS programmes in reducing the risk of health care-associated outbreaks, including those due to antimicrobial resistance. • Governance and roles and responsibilities of multidisciplinary OCT members for example Occupational health, Public Health Departments, Medical officer of health (MOH) to in relation to outbreak control and management in specific settings. 	<ul style="list-style-type: none"> • Adapt national/ local guidance related to the prevention, preparedness, response and control of healthcare associated outbreaks, including those due to antimicrobial resistance.
Leadership and implementation	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Incident and outbreak investigation and management within relevant healthcare settings, for example formation of the outbreak control team (OCT) and the role of IPC practitioners. • IPC processes for patient follow up. Support occupational health processes for H & CW follow up as relevant to role • Effective IPC measures to control transmission during a health care-associated outbreak. • The approach to a multidisciplinary collaboration between the IPC and AMS team and other stakeholders for preparedness and response to outbreaks. • Approaches to identify lessons learned from outbreak investigations to inform long-term IPC and AMS quality improvement initiatives. 	<ul style="list-style-type: none"> • Collaborate with key stakeholders (for example, major emergency management, Public Health Departments to ensure that the healthcare facility has the minimum requirements in place so as to be prepared to effectively recognise and respond to an infectious disease threat (for example, pandemics, emerging infections), including planning and preparation, implementation, evaluation, communication and keeping up-to-date with new recommendations and directives. • Work with a team to investigate outbreaks using appropriate methods and interpretation of outbreak findings, in particular by working with teams to: <ul style="list-style-type: none"> • Recognise an outbreak and prepare to investigate • Verify the diagnosis and confirm that an outbreak exists • Establish case definition and find cases • Determine who is at risk • Implement ongoing control/prevention measures • Communicate findings • Prepare a brief written report that evaluates methods used for the control of the outbreak, for example using the HSE template for documenting an outbreak and its closure

Education and training

Skills and ability (am I able to?)

- Contribute to developing/use existing training resources, strategies and plans related to IPC and AMS practices and minimum requirements to prevent, detect, manage and control outbreaks in healthcare facilities.
- Conduct or support training strategies adapted to different H & CW audiences, including practical approaches, face to face training, simulation, case studies, and eLearning resources

Communication and advocacy

Knowledge (do I know about?)

- Collaborate and work with local communications manager, as part of the OCT, on effective communications during outbreaks, targeting different audiences as appropriate
- Key messages to advocate for IPC as a pillar of outbreak preparedness, response and control.

Skills and ability (am I able to?)

- Follow local governance in communicating concerns regarding an outbreak and collaborate with the OCT on communication strategies relating to the IPC and AMS actions in control and management of the outbreak.

Quality

Skills and ability (am I able to?)

- Contribute to analysing the outbreak data to understand the modes of transmission and the possible source and to assess the impact of the control measures implemented, including future measures for improvement and prevention.
- Work with a team to collate outbreak data and summarise the main findings of the outbreak, measures implemented, and share lessons learned (for example, ward rounds, grand rounds, internal reports, conference abstracts, publications in scientific journals).

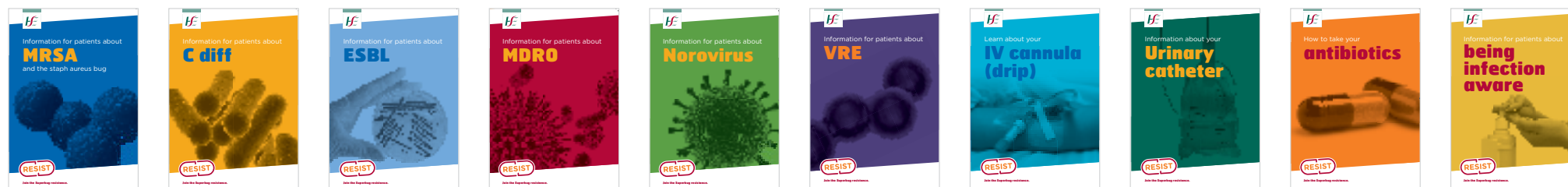
Education

Domain: IPC training and education

Competency review:

- Work with a team to develop/implement IPC and AMS education and training and resources based on the priority topics identified in the national guidance on IPC core knowledge and skills training requirements for all H&CWs and additional locally determined requirements.
- Work with a team to develop strategies and plans for IPC and AMS pre and postgraduate and local in-service training including strategies and tools for evaluation of the effectiveness of training programmes.
- Implement training for the different levels of trainees or H& CWs, as well as for patients, service users, and their families and visitors, using adult learning principles and different educational methods.

General principles	
Knowledge (do I know about?)	Skills and ability (am I able to?)
<ul style="list-style-type: none"> • Principles and methods of adult education and learning including team and task-based strategies that are participatory, including bedside and simulation training. • Education programmes/lesson planning, analysis of learning needs, teaching strategies, evaluation of learning. • Roles and processes related to coaching, mentoring, shadowing, consulting and preceptorship. • The role of education in translating evidence into practice and promoting behavioural change. • Means of identifying training needs and evaluating knowledge transfer. • The role of training and education in multimodal IPC and AMS strategies. • Priority IPC and AMS topics to be included in training and education programmes according to the target audience and context. • Best informatics resources/tools available to support effective delivery of IPC and AMS training. • Use web-based platforms/eLearning to support delivery of training. • Methods to evaluate the effectiveness and impact of training programmes. 	<ul style="list-style-type: none"> • Adapt IPC and AMS training programmes including pre and postgraduate and in-service training, depending on local needs, with curricula for all relevant target audiences, including at least (but not limited to) all H &CWs involved in service delivery and patient care, other personnel that supports health service delivery (for example administration staff, cleaners). • Work with a team to design a comprehensive strategy to provide appropriate IPC and AMS education to patients, family members, visitors and others included in the caregiving network.



Leadership and implementation

Skills and ability (am I able to?)

- Identify different learner needs, develop objectives that align with intended learning outcomes to meet identified needs and organisational objectives.
- Effectively implement planned training activities in a flexible and creative approach to meet learner needs and planned objectives in a variety of learning contexts (for example, group or individual, classroom or unit, online) using different methods (for example, participatory team and task based approaches and bedside and simulation training, electronic based education supported with face to face training and evaluation through simulations)
- Support continuous education, including for H&CW orientation/new members of staff.
- Deliver rapid training refresher courses in the case of change of policies and/or in special situations, such as during the response to outbreaks and emergencies.
- Collaborate with other departments and stakeholders to coordinate and provide IPC and AMS training and promotional messages.
- Use facilitation and mentorship skills to promote learning, problem-solving and behavioural change.
- Use web-based platforms such as eLearning to support delivery of training.

Communication and advocacy

Skills and ability (am I able to?)

- Develop workplace reminders associated with IPC and AMS training and communications and key messages to advocate for support for educational activities.

Quality

Skills and ability (am I able to?)

- Implement IPC and AMS training and education including the core IPC knowledge and skills required for H&CWs
- Evaluate the effectiveness of teaching process and learning outcomes and use results for planning new or revised education modules to improve knowledge, skills and competence of the workforce.
- Effectively report on education provided, including relevant outcomes and recommendations for follow up; describe the steps for updating training resources and providing continuing education and training over the short, medium and long term.
- Self-reflect and use methods to be assessed on strengths and limitations as an educator, and develop strategies for strengthening own knowledge, skills and practices.

Quality and Patient Safety

Domain: Quality and patient safety

Competence review:

- Contribute to development, implementation and evaluation of IPC and AMS related quality improvement initiatives, patient safety programmes, national healthcare quality standards (monitoring, inspection, reporting) within healthcare organisations
- Use multimodal strategies in the context of quality improvement and patient safety programmes to create structured change and translate IPC standards into practice.
- Key concepts related to national strategic direction on quality and patient safety and the role of IPC and AMS within this context.

General principles	
Knowledge (do I know about)	Skills and ability (am I able to)
<ul style="list-style-type: none"> • HIQA standards relating to prevention and control of HCAs for acute and community services, monitoring, inspection and reporting requirements. • Definitions and understanding of quality and patient safety as defined by HSE Quality and Patient Safety Division, and the link between quality improvement with the role of IPC practitioners. • Epidemiology, risk factors, burdens and causes of adverse events, near-misses, accidents, and dangerous incidents in healthcare as reported in healthcare organisations incident management system. • Concepts of health systems' organisation and complexity of care delivery, organisational and safety culture, behavioural change, human factors, quality improvement and patient safety, and how these relate to each other and to IPC. • Key concepts and processes for identifying, investigating and managing IPC related adverse events and IPC safety risks to patients and staff-incident and risk management systems. • Key concepts related to national strategic direction on quality and patient safety and the role of IPC and AMS within this context. 	<ul style="list-style-type: none"> • Demonstrate an understanding of HIQA national standards for the prevention and control of healthcare associated infections for acute and community services, monitoring, inspection and reporting requirements. • Demonstrate an understanding of the key principles of quality and patient safety and of the epidemiology, risk factors' burden and causes of adverse events, near-misses, accidents and dangerous incidents in health care. • Adapt resources and tools in line with national Quality and Patient Safety methodology and support to improve the institutional safety climate and quality of care in the context of IPC multimodal strategies.

Leadership and Implementation

Knowledge (do I know about)

- Quality assurance and improvement programmes, including commonly used methods (for example, Plan, Do, Study, Act (PDSA), RCA and incident review tools) to promote the collection of IPC indicators and use of data to drive improvement.
- National and local organisational quality and patient safety standards and initiatives, including interventions to shape the system environment, reduce harm, improve clinical care, and engage patients, families and communities.
- Most effective quality improvement approaches to support the implementation of IPC practices contributing to improving quality of care.
- Developing and implementing communication strategies and improvement initiatives to promote front line ownership amongst healthcare staff.
- Adapt and implement national approaches locally to embed key IPC, AMS and AMR initiatives and in collaboration with timelines associated with key national/international IPC, AMS and AMR awareness initiatives including RESIST Programme, WHO International Hand Hygiene Day and international Infection Prevention and Control week.
- Concepts and systems related to the engagement of patients, families and communities in healthcare.

Skills and ability (am I able to)

- Implement national standards for prevention and control of HCAs your area.
- Contribute to design quality improvement plans/projects according to gaps identified in IPC.
- Implement interventions to improve the institutional safety climate and quality of care in the context of IPC multimodal strategies.
- Provide expertise to other departments on quality improvement issues related to IPC (for example, hand hygiene and standard and transmission-based precautions).
- Engage and liaise with facility leadership to shape service planning that prioritises IPC and quality (noting that these require system change and not just individual actions).
- Collaborate with healthcare stakeholders and leaders, patients, service users' families and advocacy groups to identify, prevent or mitigate potential patient safety risks related to IPC.
- Include standard and transmission-based precautions and antimicrobial resistance and patient safety as integral parts of IPC quality improvement.
- Collaborate with specialists in quality and patient safety and human factors in integrating IPC and AMS activities into the healthcare regions quality and patient safety programme.

Education and training

Skills and ability (am I able to)

- Contribute to develop resources for and deliver training on quality of care and patient safety.
- Demonstrate and share learning from practical efforts on quality improvement related to IPC to enhance sustained practice-based learning.

Communications and advocacy

Skills and ability (am I able to)

- Effectively communicate, manage and escalate appropriately any risks that are identified.
- Engage with patients, families and communities to understand their needs and ensure their active participation in IPC programmes to gain compliance with hand hygiene, standard and transmission-based precautions and other measures needed.
- Advocate and enable integration of risk management concepts such as rapid reporting of adverse events or errors, and methods systems analysis, RCA, incident review in IPC activities within the healthcare organisation.

Quality

Knowledge (do I know about)

- Approaches to adverse events documentation and reporting, data analysis and interpretation, feedback and learning, including integration with HCAI surveillance and IPC indicator monitoring systems.
- The HSE National Incident Management Framework and reporting requirements
- HSE policies relating to quality and patient safety, for example open disclosure.
- Methods and systems for internal or external evaluation of the implementation of quality and patient safety standards, including accreditation of healthcare facilities.

Skills and ability (am I able to)

- Advise on IPC indicators, national KPIs to be included in quality and patient safety assessment tools and systems.
- Contribute to conducting an assessment of services using quality and patient safety standards to identify and learn from gaps to enhance performance.
- Conduct systems analysis, RCA, incident review for HCAIs as required, identify areas of key learning, and develop and implement key learning into prevention strategies
- Contribute to provide clinical audit and feedback in the context of quality improvement projects, including the dissemination and spread of successful interventions.
- Understand how to select and interpret quality indicators and use them to drive improvements in IPC and quality of care.
- Actively participate in external evaluations, including accreditation/certification and develop action plans to meet standards and required organisational practices for IPC.



IPC related to a safe working environment

Domain: IPC related to a safe working environment

Competency review:

- Understand the infectious risks related to working in a health and social care environment and support the implementation of appropriate IPC preventive measures (standard and transmission-based precautions), monitor and investigate outbreaks as part of the OCT.
- Promote the provision of a safe working environment for staff with implementation of IPC practices standard and transmission-based precautions.

Policy and guidance	
Knowledge (do I know about?)	Skills and ability (am I able to?):
<ul style="list-style-type: none"> • Transmission, preventive measures and processes related to H&CW exposure to the following infections/ infectious agents in the healthcare setting in the context of standard and transmission-based precautions: <ul style="list-style-type: none"> • Bloodborne pathogens such as human immunodeficiency virus, hepatitis B, hepatitis C, • Respiratory viruses such as influenza, SARS-CoV 2, RSV • High consequence infectious diseases for example Ebola virus disease (EVD), Marburg virus disease (MVD), Middle East respiratory syndrome (MERS), Severe acute respiratory syndrome (SARS) • Multidrug-resistant organisms for example Carbapenemase-producing Enterobacterales (CPE), methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) • Tuberculosis, meningitis, norovirus, rotavirus. • Vaccine preventable diseases for example measles, rubella, mumps, tetanus, chickenpox. • IPC control measures such as: <ul style="list-style-type: none"> • Standard and transmission-based precautions and PCRA • Immunisation as an essential component of disease prevention for H&CWs and the role of vaccination in promoting a safe working environment and the promotion of healthcare worker vaccination • IPC practices related to the emergency management of injuries (EMI) • Governance and roles and responsibilities of the IPC practitioner related to promotion of a safe working environment. 	<ul style="list-style-type: none"> • Contribute to or adapt local/national guidance related to IPC practices (standard and transmission-based precautions) that protect H&CWs from acquiring infection and prevent H&CWs from transmitting an infection.

Leadership and implementation

Skills and ability (am I able to?):

- Collaborate as part of the wider incident/outbreak management team for IPC recommendations and follow-up of patients. Support occupational health processes relating to H&CW follow up and work restriction recommendations related to communicable diseases and/or exposures as relevant to role.
- Support the implementation of H&CW protection measures in the context of standard and transmission-based precautions.
- Signpost to the emergency management of injuries (EMI) process

Communications and advocacy

Skills and ability (am I able to?):

- Support and advocate for all H&CWs to take part in occupational vaccination programmes (for example seasonal influenza vaccine), and any campaigns supporting a safe work environment

Training and education

Skills and ability (am I able to?):

- Contribute to training resources, strategies and plans for the training and education of H&CWs relating to IPC measures and practices that protect H&CWs (for example standard and transmission-based precautions, vaccination, post-exposure prophylaxis) and nosocomial transmission to patients (for example, vaccination programmes).

Quality

Skills and ability (am I able to?):

- Contribute to the development/improvement of a system for assessing and managing the risk of occupational exposure to infectious diseases; engineering controls for example, ventilation and environmental cleaning.
- Collaborate with occupational health and health and safety professionals to evaluate local data on infections in H&CWs and provide IPC recommendations on tailored surveillance, feedback and prevention strategies.
- Collaborate with occupational health and health and safety professionals and make IPC related recommendations in instances where a H&CW has been exposed or potentially exposed to an infectious agent (for example, from another H&CW or a patient) or is ill with a communicable disease or infection, including steps for prevention of a repeat occurrence.

Additional resources to support further learning (this list is not exhaustive)

National

[Ireland's National Action plan on antimicrobial resistance \(iNAP3\)](https://www.gov.ie/en/department-of-health/publications/antimicrobial-resistance-a-one-health-approach/)

<https://www.gov.ie/en/department-of-health/publications/antimicrobial-resistance-a-one-health-approach/>

[HSE Action plan 2026-2030](https://assets.hse.ie/media/documents/AMRIC_Action_Plan_2026_-_2030.pdf)

https://assets.hse.ie/media/documents/AMRIC_Action_Plan_2026_-_2030.pdf

[NCEC guideline no 30 on IPC](https://www.gov.ie/en/department-of-health/publications/infection-prevention-and-control-ipc/)

<https://www.gov.ie/en/department-of-health/publications/infection-prevention-and-control-ipc/>

[HIQA National standards for infection prevention and control](https://www.hiqa.ie/reports-and-publications/standard/2017-national-standards-prevention-and-control-healthcare)

<https://www.hiqa.ie/reports-and-publications/standard/2017-national-standards-prevention-and-control-healthcare>

<https://www.hiqa.ie/reports-and-publications/standard/national-standards-infection-prevention-and-control-community>

Leadership

Refer to the HSE website for more information on

[Health Services Change Guide](#)

[National Clinical Leadership Centre for Nursing and Midwifery \(ONMSD\)](#)

[HSE Leadership and Capability Leadership Development Framework](https://healthservice.hse.ie/staff/training-and-development/training-programmes-for-all-staff/)

<https://healthservice.hse.ie/staff/training-and-development/training-programmes-for-all-staff/>

Built Environment

[Infection Control Guiding Principles for Buildings Acute Hospitals and Community Health and Social Care Settings](https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/guidelines/)

<https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/guidelines/>

[Post-construction/pre-commission guide for building projects to support application of infection prevention and control \(IPC\) standards and guidelines](https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/guidelines/)

<https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/guidelines/>

[Design recommendations in relevant health building notes \(HBN\)](https://www.england.nhs.uk/estates/health-building-notes/)

<https://www.england.nhs.uk/estates/health-building-notes/> and Health technical memoranda (HTM) <https://www.england.nhs.uk/estates/health-technical-memoranda/>

Surveillance

[European Centre for Disease Prevention and Control](https://www.ecdc.europa.eu/en/surveillance-atlas-infectious-diseases)

<https://www.ecdc.europa.eu/en/surveillance-atlas-infectious-diseases>

[National Notifiable Disease Hub](https://notifiabledisease.hpsc.ie/)

<https://notifiabledisease.hpsc.ie/>

[HPSC notifiable diseases](https://www.hpsc.ie/notifiablediseases/)

<https://www.hpsc.ie/notifiablediseases/>

[HPSC antimicrobial resistance](https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/)

<https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/>

IPC in Clinical practice

[Healthcare-associated infection and antimicrobial resistance](#)

Refer to the HSE website for more information.

www.hse.ie

[HPSC Infection Control and HAI](#)

<https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/guidelines/>

[Antibiotic prescribing guidance](#)

<https://healthservice.hse.ie/staff/information-healthcare-workers/antibiotic-prescribing/>

[Immunisation guidelines for Ireland](#)

<https://www.hiqa.ie/areas-we-work/national-immunisation-advisory-committee/immunisation-guidelines-ireland>

[HSE Incident management](#)

<https://www2.healthservice.hse.ie/organisation/qps-incident-management/incident-management/>

[Poster resources](#)

<https://www.hpsc.ie/a-z/microbiologyantimicrobialresistance/infectioncontrolandhai/posters/>

[AMRIC eLearning resources](#)

<https://www.hseland.ie>

[HSE healthcare associated infections general information](#)

Refer to the HSE website for more information.

www.hse.ie

[HSE Healthcare associated infections/patient information leaflets](#)

Refer to the HSE website for more information.

www.hse.ie

[Guidelines for the Emergency Management of Injuries \(EMI\) and Post-Exposure Prophylaxis \(PEP\)](#)

<https://www.hpsc.ie/a-z/emi/>

IPC competency self-assessment tool

Name	Date of assessment
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Area	Domain	Self-assessment of competence (Knowledge, skills and ability)		
		Working towards	Competent	Achieved
Leadership and IPC programme management	IPC programme management and leadership			Name Line manager Date
	The built environment in healthcare settings			Name Line manager Date
Microbiology and surveillance	Basic microbiology			Name Line manager Date
	Antimicrobial resistance prevention			Name Line manager Date
	Healthcare associated infection surveillance			Name Line manager Date

Area	Domain	Self-assessment of competence (Knowledge, skills and ability)		
		Working towards	Competent	Achieved
Infection prevention and control in clinical practice	Standard precautions			Name Line manager Date
	Transmission-based precautions			Name Line manager Date
	Decontamination of reusable invasive medical devices			Name Line manager Date
	Prevention of healthcare associated infections			Name Line manager Date
	Incident and outbreak management			Name Line manager Date

Area	Domain	Self-assessment of competence (Knowledge, skills and ability)		
		Working towards	Competent	Achieved
Education	IPC training and education			Name Line manager Date
Quality and patient safety	Quality and patient safety			Name Line manager Date
IPC related to a safe working environment	IPC practices related to a safe working environment			Name Line manager Date

Additional comments/actions

IPC competency plan of action tool

Area	Domain	Actions	Supports required	Date to be achieved	Achieved
Leadership and IPC programme management	IPC programme management and leadership				Name Line manager Date
	The built environment in healthcare settings				Name Line manager Date
Microbiology and surveillance	Basic Microbiology				Name Line manager Date
	Antimicrobial resistance prevention				Name Line manager Date
	Healthcare associated infection surveillance				Name Line manager Date

Area	Domain	Actions	Supports required	Date to be achieved	Achieved
IPC in clinical practice	Standard precautions				Name Line manager Date
	Transmission based-precautions				Name Line manager Date
	Decontamination of reusable invasive medical devices				Name Line manager Date
	Prevention of healthcare associated infections				Name Line manager Date
	Incident and outbreak management				Name Line manager Date

Area	Domain	Actions	Supports required	Date to be achieved	Achieved
Education	IPC training and education				Name Line manager Date
Quality and patient safety	Quality and patient safety				Name Line manager Date
IPC related to a safe working environment	IPC related to a safe working environment				Name Line manager Date

Additional comments/actions

Key Resources and references

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HSE (2020) Infection Control Guiding Principles for Buildings Acute Hospitals and Community Settings HSE V 5. August 2020, available at: <https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/buildingsandfacilitiesguidance/Infection%20Control%20Guiding%20Principles%20for%20Building.pdf>

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Appendix 1 AMRIC Governance

The National AMRIC team reports to the Office of the Chief Clinical Officer and is responsible for planning, enabling, performance and assurance of national clinical infection prevention and control (IPC), antimicrobial stewardship (AMS) and antimicrobial resistance (AMR) work in the domain of health. This includes working collaboratively with and across government sectors and international partners (e.g. ECDC, WHO and 5 nations). This approach ensures there is strategic and operational alignment for planning and implementation of health actions related to national action plans on AMR and other related government strategies. Previous AMRIC governance arrangements were supported by an oversight group and implementation team and these governance arrangements have been stood down. In line with organisational reform the following governance arrangements are agreed, this includes:

- AMRIC reporting to CCO
- AMRIC Senior Management Team
- AMRIC Clinical Guidance Approvals Board
- AMRIC Programme Board

The AMRIC Clinical Lead has delegated authority from CCO to approve AMRIC clinical guidance.

Appendix 2 Stakeholder consultation list

- Antimicrobial Resistance Infection Control Core Team
- Health and Social Care Professions
- Health Protection Surveillance Centre
- Health Service Executive National HR
- Infection Prevention and Control Lead Nurses
- Infection Prevention Control Ireland
- Infection Prevention Society
- Infectious Diseases Society of Ireland
- Irish Society Clinical Microbiologists
- National Patient Safety Office Department of Health
- Office of the Nursing and Midwifery Services Director

In 2025, an evaluation of this document was undertaken. IPC practitioners across Ireland were consulted on content. This feedback has informed version 2 of the core competency framework for IPC practitioners.

Appendix 3 Abbreviations used

AMR - Antimicrobial Resistance
AMRIC - Antimicrobial Resistance and Infection Control
AMS - Antimicrobial Stewardship
BSI - Blood Stream Infection
CVC - Central Venous Catheter
ECDC - European Centre for Disease Prevention and Control
HCAI - Healthcare Associated Infections
H&CW - Healthcare Worker
HEI - Higher Education Institutions
HIQA - Health Information and Quality Authority
HPSC - Health Protection Surveillance Centre
HR - Human Resources
HSCP - Health and Social Care Professionals
HSE - Health Service Executive
iNAP - Ireland's National Action Plan
IPC - IPC
IPCP - IPC Practitioner
MOH - Medical Officer of Health
NMBI - Nursing and Midwifery Board of Ireland
PDP - Professional Development Plan
PICC - Peripherally Inserted Central Catheter
PPE - Personal Protective Equipment
PVC - Peripheral Venous Catheter
OCT - Outbreak Control Team
ONMSD - Office of the Nursing and Midwifery Services Director
RCA - Root Cause Analysis
SABSI - *Staphylococcus aureus* bloodstream infection
SOP - Standard Operating Procedure
SSD - Sterile Services Department
SSI - Surgical Site Infection
VAP - Ventilator Associated Pneumonia
WHO - World Health Organisation

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