

# **Module 4: Management of IPC programs**



### Introduction

- IPC aims to prevent or control the spread of infections in healthcare facilities and the community
- All healthcare workers require at least a basic understanding of IPC principles and practice
- Effective IPC includes building a program with all healthcare personnel (HCP) playing their part to prevent the spread of pathogens and AMR.
- IPC programmes include activities, procedures and policies designed to reduce the spread of infections, usually within healthcare facilities.



### **Module sessions**

- Session 1: IPC Quality Improvement Process
- Session 2: Overview of Occupational health in regards to IPC
- Session 3: Health Facility IPC Audit
- Session 4: IPC Risk assessment
- **Session 5**: Traffic flow in healthcare settings



## **Module 4: Learning objectives**

- Understand the concept of IPC program management
- Describe the hierarchy of controls and how these controls reduce risk in healthcare settings.
- Understand how to conduct health facility IPC audit
- Understand why and how to conduct Risk assessments
- Understand how safety measures and procedures are put in place
- Describe traffic flow and activity pattern in health care settings
- Identify how the IPC core components provide a blueprint for successful implementation of IPC programs.



### **IPC Governance and Coordination structures**

#### Structure of infection prevention and control programmes

- Coordinating body (national Department of Health or provincial /regional)
   healthcare administration
- Facility IPC (primary care clinics and hospitals)
- Facility management,
- The IPC committee and
- the IPC practitioner.

# PC committee representation

- Facility management
- Nursing management
- Clinicians
- The IPC practitioner or team
- Quality Improvement

- Occupational health
- Pharmacy
- Laboratory/Pathology
- Cleaning services
- Sterile services
- Engineering department.



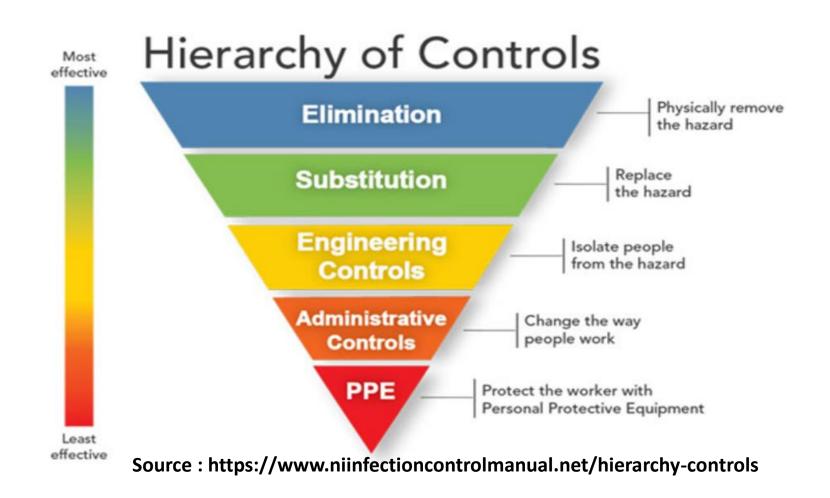
# The infection prevention and control committee roles

An IPC committee is a multi-disciplinary group of healthcare facility staff mandated with the following tasks:

- Management of the IPC programme
- Policy development
- ❖ Procurement issues
- ❖ Patient safety
- ❖ Risk identification
- IPC training and education
- Antimicrobial resistance and disinfectant use
- ❖ Surveillance of healthcare-associated infections.



# The IPC hierarchy of controls



# Roles and Responsibilities of the IPC Team

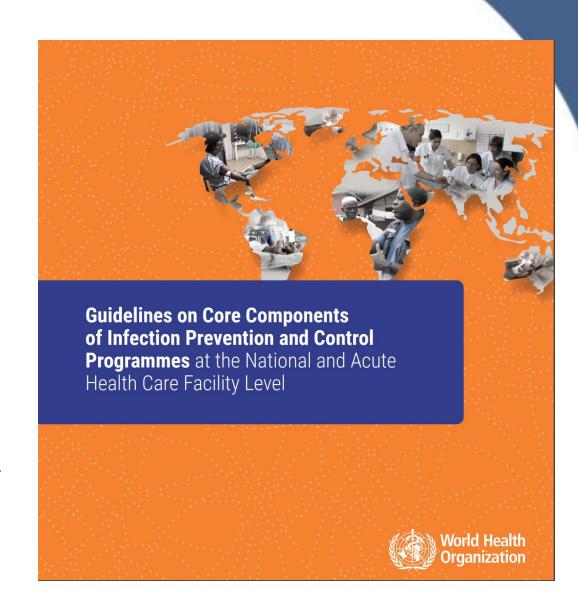
- Performing and reporting on surveillance for healthcareassociated infection
- Investigating and advising on outbreak management
- Providing a clinical advisory service for infection preventionrelated issues
- Revising and formulating policies
- Guideline development and implementation are the responsibility of IPC focal point. In case they lack experience or expertise, an external technical support may be offered.

- Providing regular in-service training in IPC for all healthcare workers
- Auditing quality of care, high-risk procedures, and occupational injuries
- Reporting to and advocating for improved standards of care with facility management
- Liaising with all role players, e.g. laboratory, engineering, nursing, clinicians, sterile services, pharmacy, cleaning services, and the procurement division.

# The 8 IPC core components

#### 1. National IPC programmes

- With clearly defined objectives and good practices to prevent healthcare associated infections (HAI) and address antimicrobial resistance (AMR).
- A dedicated and trained team should be in place in each facility to implement these good practices at;
- Primary healthcare(an IPC focal person)
- Secondary healthcare (Trained IPC focal point and Allocated budget for IPC implementation)and
- Tertiary healthcare (allocated budget, multidisciplinary committee/team and access to microbiology laboratory)





#### 2. IPC guidelines

- **Primary care** (Facility-adapted SOPs and their monitoring and Evidence-based facility-adapted SOPs based on the national IPC guidelines)
- Secondary and Tertiary care (standard and transmission-based precautions, aseptic technique for invasive procedures, specific SOPs to prevent the most prevalent HAIs based on local context/epidemiology, occupational health)

#### 3. IPC education and training

#### Primary, secondary and tertiary Care

Front liners must receive education and training on their:

IPC guidelines/SOPs and specific IPC training



### 4. HAI surveillance

#### **Primary and secondary Care**

- HAI not mandatory requirement, just to follow national or regional guidelines
   Tertiary care;
  - Conduct active HAI surveillance including information on AMR.
  - Enabling structures and supporting resources need to be in place
  - The method of surveillance should be directed by the priorities/ plans of the facility and/or country
  - Provide timely and regular feedback to key stakeholders in order to lead to appropriate action

### **5.** Multilevel improvement strategies

#### **Primary Care**;

• Use of multimodal strategies – at the very least to implement interventions to improve hand hygiene, safe injection practices, decontamination of medical instruments and devices and environmental cleaning.

#### **Secondary Care**

• Use of multimodal strategies — at the very least to improve each item of standard and transmission-based precautions and triage.

#### **Tertiary Care**

• Use of multimodal strategies to implement interventions to improve each item of standard and transmission-based precautions, triage, and those targeted at the reduction of specific infections in high-risk areas/patient groups, according to local priorities.



#### 6. Monitoring, evaluation and feedback;

#### Primary Care

 Monitoring of IPC structural and process indicators should be put in place at primary care level, based on IPC priorities identified in the other components.

#### Secondary and Tertiary care

- A person responsible for the conduct of the periodic or continuous monitoring of selected indicators for process and structure, informed by the priorities of the facility or the country.
- Hand hygiene is an essential process indicator to be monitored.
- Provide timely and regular feedback to key stakeholders in order to lead to appropriate action, particularly to the hospital administration.

### 7. Workload, staffing and bed occupancy

#### Primary Care

- Reduce overcrowding: establish a system for patient flow, a triage system, and a system for the management of consultations according to existing guidelines.
- Optimise staffing levels: assessment of appropriate staffing levels

### Secondary and Tertiary care

Standardise bed occupancy:

- Establish a system to manage the use of space and establish the standard bed capacity;
- Overall occupancy should not exceed the designed total bed capacity of the facility.
- Reduce overcrowding and optimise staffing levels

# 8

# The 8 IPC core components con't...

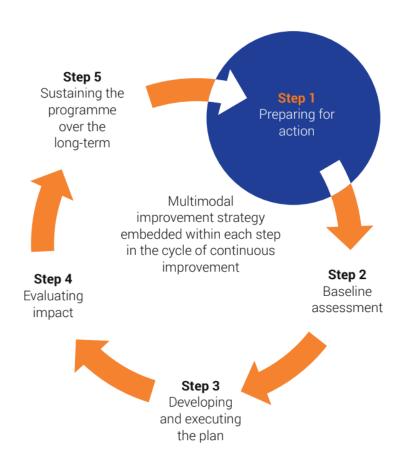
### 8. Built environment, materials and equipment

- > At all health facilities materials and equipment for good hand hygiene must be available at the point of care
  - Availability of water from an improved source on the premises to perform basic IPC measures
  - Availability of at least two functional, improved sanitation facilities on-site, one for patients and one for staff
  - Availability of functional hand hygiene facilities at points of care
  - Sufficient and appropriately labelled bins to allow for health care waste segregation
  - The facility layout should allow adequate natural ventilation, decontamination of reusable medical devices, triage and space for temporary cohorting/isolation/physical separation if necessary.
  - Sufficient and appropriate IPC supplies and equipment, power/energy, basic IPC measures
    according, standard precautions,, lighting
  - The facility should have adequate single isolation rooms or at least one room for cohorting patients with similar pathogens, if the number of isolation rooms is insufficient.





#### Implementation of IPC programme improvements



- Developing and executing an action plan requires good project management skills:
- Agree timelines.
- Consider budget and resource needs.
- Establish monitoring mechanisms.
- Consider risks to success.

Source: Improving infection prevention and control at the health facility

Assessments and situation analysis as a key step of project management –Examples of Tools



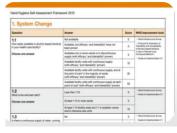
# Infection prevention and control assessment tool (IPCAT2)

- National-level assessment tool.
- Provides baseline and ongoing data for improvement.



# Infection prevention and control assessment framework (IPCAF)

- Facility-level assessment tool.
- Provides baseline and ongoing data for improvement.



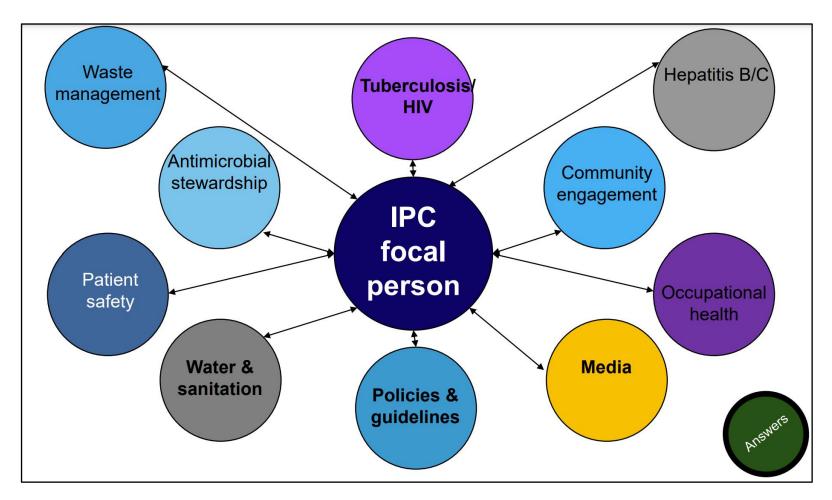
# Hand hygiene self-assessment framework (HHSAF)

- Diagnostic tool for health care facilities.
- Provides baseline and ongoing data for improvement.

# Structured Action Plan

CORE COMPONENT: <insert component="" core="" name="" of=""></insert>						
Priority gaps identified	Action required	Lead person	Start date	End date	Budget (if applicable)	Monitoring and evaluating implementation progress (include review/ completion dates)
<list all="" from<br="" gaps="" identified="">baseline assessment and prioritized for action&gt;</list>	<list 5="" actions="" are="" as="" cycle="" gathered="" implementation="" information="" of="" planned="" steps="" that="" the="" through="" using="" work="" you=""></list>	<list lead<br="" the="">person or group driving the action plan&gt;</list>	<state the<br="" when="">action will start to be addressed&gt;</state>	<estimate the<br="">deadline for action to be completed, in- cluding periodic review dates if applicable&gt;</estimate>	<estimate the<br="">budget required to address the required actions&gt;</estimate>	<describe achieve="" actions="" and="" at="" be="" been="" completion="" date="" decisions="" each="" for="" further="" has="" including="" made="" need="" progress="" review="" taken="" taken,="" that="" the="" to=""></describe>
Gap 1:						

# Linking IPC with other programmes





# Summary

- Developing and executing an action plan requires good project management skills:
- Agreed timelines.
- Consider budget and resource needs.
- Establish monitoring mechanisms.
- Consider risks to success.

- Support the development of an effective IPC programme.
- Support the implementation of the core components of IPC programmes in your facility.
- Contribute to a reduction in HAI and AMR.
- Run effective projects.
- Link with other relevant programmes.
- Train the health workforce effectively.

# References

- <a href="https://www.who.int/publications/m/item/ipc-training-leadership-and-programme-management-in-infection-prevention-and-control-module-presentation">https://www.who.int/publications/m/item/ipc-training-leadership-and-programme-management-in-infection-prevention-and-control-module-presentation</a>
- The Infection Prevention and Control (IPC) Assessment Framework (IPCAF) 2018
- WHO (2016). Guidelines on core components of infection prevention and control programmes at the national and acute health care facility level.

http://apps.who.int/iris/bitstream/10665/251730/1/9789241549929 -eng.pdf?ua=1