

## Instructions for the national infection prevention and control assessment tool 2 (IPCAT2)

# **Updated July 2017**



Supporting national implementation through effective baseline assessment and evaluation

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## Acknowledgements

IPCAT2 represents a revision of the World Health Organization (WHO) *Core components for infection prevention and control programmes: Assessment tools for IPC programmes* (2011), based on the 2016 WHO Guideline "Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level (<u>http://www.who.int/infection-prevention/publications/ipc-components-guidelines/en/</u>). The revision was coordinated by Benedetta Allegranzi (Department of Service Delivery and Safety, WHO) and led by Julie Storr (Department of Service Delivery and Safety, WHO). Sara Tomczyk (Department of Service Delivery and Safety, WHO) contributed to revision of the tool. Maki Kajiwara (Department of Service Delivery and Safety, WHO) provided IT support for the update of the Excel programme and Rosemary Sudan provided professional editing assistance.

The following experts provided technical review and input: Ana Paula Coutinho Rehse (WHO Regional Office for Europe), Neil Gupta (United States Centers for Disease Control and Prevention [CDC] IPC Team), Valeska Stempliuk (Pan American Health Organization [PAHO]) and Bassim Zayed (WHO Regional Office for the Eastern Mediterranean).

Abbreviations and acronyms used in the Updated instructions for the national infection prevention and control assessment tool 2 (IPCAT2) and accompanying Microsoft Excel assessment tool

AMR: antimicrobial resistance

- CAUTI: catheter-associated urinary tract infection
- CDC: Centers for Disease Control and Prevention
- CLABSI: central line-associated bloodstream infection
- GLASS: Global Antimicrobial Resistance Surveillance System
- HAI: health care-associated infection
- HCF: health care facility
- HCW: health care worker
- HMIS: health management information system
- IPC: infection prevention and control
- IPCAT2: infection prevention and control assessment tool (2017 version)

MDR: multidrug resistance

- PAHO: Pan American Health Organization
- PDR: pandrug resistance
- PPE: personal protective equipment
- TORs: terms of reference
- UNICEF: United Nations Children's Fund
- VAP: ventilator-associated pneumonia
- WASH water, sanitation and hygiene
- WHO: World Health Organization
- XDR: extensive drug resistance



## Introduction

The objectives of the World Health Organization (WHO) *Guidelines on core components of infection prevention and control programmes at the national and acute health care facility level* are<sup>1</sup>:

- to provide evidence-based recommendations on the core components of infection prevention and control (IPC) programmes that are required to be in place at the national and acute facility level to prevent health care-associated infection (HAI) and to combat antimicrobial resistance (AMR) through IPC good practices;
- to support countries and health care facilities to develop or strengthen IPC programmes and strategies through the provision of evidence- and consensus-based guidance that can be adapted to the local context, while taking account of available resources and public health needs.

WHO developed the *Interim practical manual* to support countries in the implementation of the recommendations outlined in the WHO *Guidelines on core components of infection prevention and control programmes.*<sup>2</sup> The interim manual outlines **five steps** for implementing IPC programmes at the national level in order to maximize the likelihood of success and overcome some of the process complexity. IPCAT2 and a simple checklist are two tools recommended during steps two and four, respectively. **Step two** involves conducting a **baseline assessment** to establish an understanding of the current situation, including strengths and weaknesses to guide action planning for improvement. **Step four** (evaluating impact) is concerned with assessing the effectiveness of the action plan.

## Purpose of IPCAT2

IPCAT2 will assist countries to determine the core components already in place, that is, existing strengths, and to identify gaps or weaknesses to guide action planning. IPCAT2 corresponds to the six core component recommendations of the guidelines targeted at the national level.

It is very important to understand that IPCAT2 is not intended to be used as an audit tool. Its purpose is to help assess, plan, organize and implement a national IPC programme. The tool provides a general overview of the status of IPC activities according to the guideline recommendations, rather than focusing on specific IPC practices/risk factors related to individual patients or specific.

The main purpose of ICPAT2 is to support implementation, thereby providing a road map to guide IPC actions.

<sup>2</sup> Interim practical manual supporting national implementation of the WHO guidelines on core components of infection prevention, and control programmes. Geneva: World Health Organization; 2017 (<u>http://www.who.int/infection-prevention/campaigns/clean-hands/cc-implementation-guideline.pdf?ua=1</u>, accessed 12 June 2017 ).

<sup>&</sup>lt;sup>1</sup> Guidelines on core components of infection prevention and control programmes at the national and acute healthcare facility level. Geneva: World Health Organization; 2016 (http://www.who.int/infection-prevention/publications/ipc-components-guidelines/en/, accessed 12 June 2017).

## **Target audience**

The assessment tool focuses on the national IPC programme in its support of acute health care facilities. However, as outlined in the WHO *Guidelines on core components for IPC programmes at the national and acute healthcare facility level*, the core principles and practices of IPC as a countermeasure to the development of HAI are common to any facility where health care is delivered. Therefore, IPCAT2 can be considered with some adaptations for national programmes as they concern community, primary care and long-term care facilities, in addition to acute healthcare facilities.

## **Description of the tool**

The tool is designed in Microsoft Excel. Only basic features of the software are used to allow ease of use to translate the tools into different languages and adapt them to national requirements as needed. A printed version of the tool (annex 1) can be used when computer use is not feasible or possible. Of note, when the printed version is used, there is still a need to enter the data into the Excel workbook in order to calculate the scores and visualize the data. IPCAT2 workbooks include an **introduction** worksheet containing details of the assessor and institution, **six separate worksheets** for the six core components at the national level, and a **summary sheet** for data visualization.

Each component is divided into a number of sections with essential elements (indicators) of IPC programmes. Every element contains a yes/no statement. Any single element is either fully implemented (yes) or not (no). Any partially implemented or intermediate progress in achievement can be recorded in the comments' fields, as well as any additional information that may provide further clarification of the situation. A final field presents potential verifiers to guide the user in completing the tool.

## Summary of scoring method Yes is assigned if the element exists (is implemented, introduced, etc.) No means the element does not exist/is not implemented. All questions must be answered. Blank answers cannot be analyzed.

## Illustrative example: How to complete each core component tab (figure 1)

Using **core component 1 (IPC programmes)** as an example, the data are entered directly into the worksheets.

- The title of a core component and the resulting score for the whole component are in the first row (73% in this example).
- The headings of the main fields and indicators are in subsequent rows.
- The indicators act as trigger questions for the assessor and require a yes (y)/no (n) answer.
- A **negative answer (no or n)** automatically highlights the element in **red** for easy reference.
- Referring to **Organization and leadership of the programme** (1.1) the score for this section is 63%.

	A	B C D E F G H I	u j
1	1	Infection prevention control (IPC) programmes*	73%
2		Components for assessment (Red font=Gap or "N" response)	Score (Y or N)
3	1.1	Organization and leadership of the programme	63%
4	1.1.1	An active IPC programme exists at the national level	У
5	1.1.2	An appointed infection preventionist(s) in charge of the programme can be identified	У
6	1.1.3	The appointed technical team of infection preventionist(s) includes both doctors and nurses	n
7	1.1.4	The appointed infection preventionist(s) have undergone training in IPC in the prevention of health care-associated infection (HAI)	У
8	1.1.5	The appointed infection preventionist(s) have dedicated time for the tasks (at least one full-time person)	n
9	1.1.6	The programme has been granted authority to make decisions that influence field implementation	У
10	1.1.7	There is an identified, protected and dedicated budget allocated according to planned activity	n
11	1.1.8	An official multidisciplinary group/committee or equivalent structure is established to support the IPC team at the national level (for example, national IPC committee)	У
12			

Figure 1: IPCAT2 example scoring

Evaluation scores are calculated automatically for every sub-component and every core component in total, resulting in a percentage score. There is also a field for **comments** and a field for potential **verifiers**, although the suggestions are not exhaustive and can be amended by the assessor.

## Visualizing the results – the summary worksheet

The assessment measurements are summarized for all core components and major subcomponents on a separate **summary page worksheet**. The data are provided in tables and visualized in radar charts (see example in Fig. 2 below).

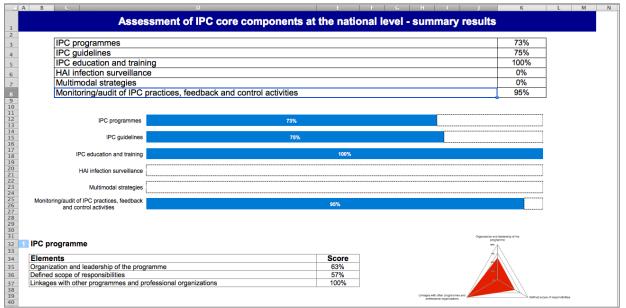


Figure 2. IPCAT2 summary worksheet.

## Data to drive improvement

The IPCAT tools provide a quantitative evaluation of the different components of IPC programmes in a systematic way, allowing changes to be tracked over time. The resulting scores can be used to measure and monitor progress in implementing IPC programmes at the national level.

It should be emphasized that the calculated scores are only percentages that reflect the number of implemented core components. They should not be used for grading programmes/institutions and/or comparing them. A score below 100% simply means that there are certain elements of the IPC programme that are still to be implemented. As the intention is to highlight strengths and weaknesses so as to provide a snapshot of the current situation and support action planning, the scoring is not weighted. However, users of the tool may want to highlight within the summary worksheet those results that are considered a national priority and require particular attention.

In some instances where an IPC programme is in the process of being established, multiple gaps will be highlighted through the assessment. Using the example of core component 4, HAI surveillance, that comprises 30 indicators, it is likely that early stage implementers will not be able to answer 'yes' to a wide range of questions. In this instance, the results will be of value in directing subsequent action plans in support of a long-term approach to improvement.

The binary nature of the indicators allows for easy interpretation of the results.

## Focus on self-assessment

IPCAT2 is intended to be used for self-assessment, but it can also be used for external assessment (interview). The self-assessment can be sufficiently objective if the responders fully realize **the purpose of the evaluation**, which is not to grade or to establish a position in a rating/ranking, but to identify strengths and weaknesses in order to effectively plan and implement improvement. To support assessment, one or more verifiers have been suggested for each indicator. However, these are just examples of sources of information that can be used to determine whether a certain indicator is present. IPCAT users are free to use other methods to establish the presence of indicators.

If an external assessment is planned, it is advisable to inform both the assessors and the interviewees in advance of what documents may be requested as verifiers.

### Limitation of the tool

Although comprehensive, the full set of IPCAT2 tools are not exhaustive in their scope and they are not intended to be so. Other existing assessment/evaluation tools may be utilized when there is a need to evaluate a certain component of an IPC programme in greater depth. Several other WHO assessment tools related to IPC are listed below.

### Feedback from users and further development of the tool

Comments and suggestions from ICPAT2 users will be collected. This will allow us to revise and update the tools regularly. Minor changes will be reflected in the Excel documents and major updates will be provided both in the Excel files and in the printed versions from time to time. Local development of the tool is encouraged, for example the Regional Office for the Eastern Mediterranean developed the infection prevention and control assessment tool (e-IPCAT, version 1.1) mobile application software (available via the iTunes App Store) based on the previous version of the IPCAT).

### **Other WHO IPC-related assessment tools**

International Health Regulations' monitoring tools. Geneva: World Health Organization; 2017

(http://www.who.int/ihr/procedures/monitoring/en/, accessed 12 June 2017).

Water and sanitation for health facility improvement tool (WASH FIT). A practical guide for improving quality of care through water, sanitation and hygiene in health care facilities. Geneva: World Health Organization/UNICEF; 2017

(http://www.who.int/water\_sanitation\_health/publications/water-and-sanitation-for-health-facilityimprovement-tool/en/, accessed 12 June 2017).

Water and sanitation for health facility improvement tool: mobile version (WASH FIT Mobile). Geneva: World Health Organization/UNICEF; 2017 (<u>https://washfit.org/#/</u>, accessed 12 June 2017).

WHO hand hygiene self-assessment framework. Geneva: World Health Organization; 2010 (http://www.who.int/gpsc/country\_work/hhsa\_framework\_October\_2010.pdf?ua=1, accessed 12 June 2017).

WHO national infection prevention and control core component checklist (<u>http://www.who.int/infection-prevention/campaigns/clean-hands/cc-implementation-guideline.pdf?ua=1</u> annex 2, pages 72-73, accessed 12 June 2017).

WHO tools for evaluation and feedback (hand hygiene). Geneva: World Health Organization; 2017 (http://www.who.int/infection-prevention/tools/hand-hygiene/evaluation\_feedback/en/, accessed 12 June 2017).

## Annex 1 Assessment tool for national IPC programmes

	Item for assessment	Yes/ No	Comments	Suggested verifiers
1	Infection prevention contro	ol (IPC)	) programmes*	
1.1	Organization and leadershi	p of th	ne programme	
1.1.1	An active IPC programme exists at the national level			Interview or national IPC programme/work plan, website
1.1.2	An appointed infection preventionist(s) in charge of the programme can be identified			Interview or national IPC programme/work plan, website
1.1.3	The appointed technical team of infection preventionist(s) includes both doctors and nurses			Interview or national IPC programme/work plan, website
1.1.4	The appointed infection preventionist(s) have undergone training in IPC in the prevention of health care- associated infection (HAI)			Interviews, training certificates or equivalent
1.1.5	The appointed infection preventionist(s) have dedicated time for the tasks (at least one full-time person)			Interview & check of TORs
1.1.6	The programme has been granted authority to make decisions that influence field implementation			Document signed by most responsible national authority
1.1.7				An official document or budget summary
1.1.8	An official multidisciplinary group/committee or equivalent structure is established to support the IPC team at the national level (for example, national IPC committee)			A national IPC programme/work plan
1.2	The scope of IPC responsi	pilities	is defined and inclu	
1.2.1	Development of national policies, guidelines and standards for effective, evidence-based practices			Interviews and a national IPC programme/work plan
1.2.2	Development of a national plan for preventing HAIs relating to endemic pathogens and those with epidemic potential, for example, including national goals, objectives and strategies			Interviews and a national IPC programme/work plan

	Item for assessment	Yes/ No	Comments	Suggested verifiers
1.2.3	Development of national monitoring frameworks to measure implementation with policies, guidelines and standards			Interviews and a national IPC programme/work plan
1.2.4	Development and support of IPC training and educational programmes to support the facility level			Interviews and a national IPC programme/work plan
1.2.5	Surveillance and epidemiology of HAI and HAI- related aspects of antimicrobial resistance (AMR) in collaboration with epidemiologists, data managers and information technology experts			Interviews and a national IPC programme/work plan
1.2.6	A national plan to support early detection of HAI outbreaks and prompt and effective response			Interviews and a national IPC programme/work plan
1.2.7	Assurance of national procurement of adequate supplies for IPC practices, including access to essential infrastructures, materials and equipment necessary for safe IPC practice			Interviews and a national IPC programme/work plan
1.3			and professional organizat	ions - clear linkages
1.3.1	Other national programmes, for example AMR, quality and safety, water, sanitation and hygiene, environment, tuberculosis, human immunodeficiency virus, immunization, maternal, child and adolescent health			A national IPC programme/work plan & interviews with relevant departments
1.3.2	Priority public health programs including integration of IPC with IHR & preparedness relating to public health emergencies			A national IPC programme/work plan & interviews with relevant departments
1.3.3	National referral laboratories and laboratory biosafety			A national IPC programme/work plan & interviews with relevant departments
1.3.4	Occupational health programmes			A national IPC programme/work plan & interviews with relevant departments
1.3.5	Patient associations/civil society bodies			A national IPC programme/work plan

	Item for assessment	Yes/ No	Comments	Suggested verifiers
				& interviews with
				relevant departments
1.3.6	Scientific professional			A national IPC
	organizations (for example,			programme/work plan
	IPC professional societies and			& interviews with
	other relevant medical,			relevant departments
	nursing and allied health			
107	professional societies)			
1.3.7	Training establishments and			A national IPC
	academia			programme/work plan & interviews with
				relevant departments
1.3.8	Relevant sub-national bodies,			A national IPC
1.0.0	for example, provisional or			programme/work plan
	district health offices			& interviews with
				relevant departments
*For fu	ther information, please refer to page 11	of the V	HO Guidelines on core compo	1
manua prograi	ww.who.int/infection-prevention/publicati supporting national implementation of th nmes (http://www.who.int/infection-preve	ne WHO	Guidelines on core componen	ts on infection prevention and control
2	IPC guidelines*			
2.1	Development, disseminatio	n and	implementation of na	
<b>2.1</b> 2.1.1	The IPC programme has a	n and	implementation of na	A national IPC
	The IPC programme has a mandate to produce	on and	implementation of na	A national IPC programme/work plan;
	The IPC programme has a mandate to produce guidelines for preventing and	on and	implementation of na	A national IPC programme/work plan; URL/web link to
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2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	The IPC programme has a mandate to produce guidelines for preventing and controlling HAI The guidelines are for national coverage, including all acute health care facilities (both public and private) The guidelines are reviewed at least every five years and updated to reflect the current evidence base The development of guidelines involves the use of evidence-based scientific knowledge and international/national standards The IPC programme has the necessary expertise to develop national guidelines The IPC programme actively addresses guideline adaptation and	on and	implementation of na	A national IPC         programme/work plan;         URL/web link to         guidelines if in the         public domain         A national IPC         programme/work plan         A national IPC         programme/work plan         A national IPC         programme/work plan         The guidelines &         interview         Interviews, training         certificates or         equivalent         The guidelines &         interview & national         IPC programme/work
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2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	The IPC programme has a mandate to produce guidelines for preventing and controlling HAI The guidelines are for national coverage, including all acute health care facilities (both public and private) The guidelines are reviewed at least every five years and updated to reflect the current evidence base The development of guidelines involves the use of evidence-based scientific knowledge and international/national standards The IPC programme has the necessary expertise to develop national guidelines The IPC programme actively addresses guideline adaptation and	on and	implementation of na	A national IPC         programme/work plan;         URL/web link to         guidelines if in the         public domain         A national IPC         programme/work plan         A national IPC         programme/work plan         A national IPC         programme/work plan         The guidelines &         interview         Interviews, training         certificates or         equivalent         The guidelines &         interview & national         IPC programme/work

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	their implementation to reflect local conditions			
2.1.7	Guideline development involves early engagement of key stakeholders, including involvement of programmes closely linked to IPC (see section 1.3)			The guidelines & interview & national IPC programme/work plan
2.1.8	The IPC programme develops multimodal implementation strategies using available national/international implementation support packages			The guidelines & interview & national IPC programme/work plan
2.1.9	The IPC programme has the capability to ensure that the infrastructure and supply- related requirements to enable facility-level guideline implementation are in place/being addressed			Interviews & national IPC programme/work plan
2.2		elevar	nt healthcare workers on IPC	
2.2.1	The IPC programme supports and mandates a programme of health worker education and training on guideline recommendations across all facilities			A national IPC programme/work plan & review of training materials
2.2.2	The IPC programme supports and mandates a programme of health worker education and training on guideline recommendations at the pregraduate level			A national IPC programme/work plan & review of training materials
2.2.3	The IPC programme supports and mandates a programme of health worker education and training on guideline recommendations at the postgraduate level			A national IPC programme/work plan & review of training materials
2.3	Monitoring of guideline adh	nerenc	e	
2.3.1	A national system and schedule of monitoring and evaluation is in place to check on adherence with guideline recommendations, for example, at least annually			The guidelines & interview
2.4	Minimum set of national gu	idelin	es	
2.4.1	National guidelines are based on local priorities, frequency of practices and practices associated with the			The guidelines & interview

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	populations most at risk of HAI			
2.4.2	Basic/essential guidelines			The guidelines &
	have been developed based			interview
	on/adapted from interntional			
	standards**			
2.4.3	Specific guidelines to prevent			The guidelines &
	the most prevalent HAIs			interview
	(catheter-associated urinary			
	tract infection, central line-			
	associated bloodstream			
	infection, surgical site			
	infection, ventilator-associated infection) have been			
	developed, depending on the			
	context and complexity of care			
	required			
	**For further information, please refer t prevention and control programmes at http://www.who.int/infection-prevention practical manual supporting national in	the nation /publicat plement	onal and acute healthcare facility le ions/ipc-components-guidelines/er ation of the WHO Guidelines on co	evel (recommendation 2: <u>n/</u> ) and pages 23-30 of Interim pre components on infection
	prevention and control programmes (ht implementation-guideline.pdf)	ttp://www	v.who.int/infection-prevention/camp	paigns/clean-hands/cc-
	Standard precautions; decontamination			
	respiratory hygiene and cough etiquett transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management.	ding patie res (inclu	ent identification, placement and pe uding surgery); device managemer	ersonal protective equipment); nt for clinical procedures;
3	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer	ersonal protective equipment); nt for clinical procedures;
	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management.	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment); nt for clinical procedures; ndry; health care waste
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment); nt for clinical procedures; ndry; health care waste
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in-	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans
<b>3</b> <u>3.1</u> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency,	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required,	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation,	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
3.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches)	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula & interview
<b>3.1</b> 3.1.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans & interview National IPC plans
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level National IPC plans and training curricula & interview
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level         National IPC plans and training curricula & interview         National IPC plans and training curricula and training curricula
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level         National IPC plans and training curricula & interview         National IPC plans and training curricula and training curricula
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health workers at the facility level	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	the facility level         National IPC plans and training curricula & interview         National IPC plans and training curricula & interview         National IPC plans and training curricula & interview
3.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health workers at the facility level The national IPC programme	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment);         int for clinical procedures;         adry; health care waste         the facility level         National IPC plans         and training curricula         & interview         National IPC plans
<b>3.1</b> 3.1.1	transmission-based precautions (includ aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health workers at the facility level The national IPC programme provides content and support for other personnel that support health service	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment);         att for clinical procedures;         adry; health care waste         the facility level         National IPC plans         and training curricula         & interview         National IPC plans         and training curricula
<b>3.1</b> 3.1.1 3.1.2 3.1.2	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health workers at the facility level The national IPC programme provides content and support for other personnel that support health service delivery**	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment);         at for clinical procedures;         adry; health care waste         the facility level         National IPC plans and training curricula & interview
<b>3.1</b> 3.1.1	transmission-based precautions (include aseptic technique for invasive procedu sterilization and medical devices decor- management. IPC education and train Supporting and facilitating The national IPC programme provides guidance and recommendations for in- service training at the facility level (for example, frequency, expertise required, requirements for new employee orientation, monitoring and evaluation approaches) The national IPC programme provides content and support for IPC training of all health workers at the facility level The national IPC programme provides content and support for other personnel that support health service delivery**	ding patie res (inclu ntaminati	ent identification, placement and pe uding surgery); device managemer on; safe handling of linen and laun	ersonal protective equipment);         att for clinical procedures;         adry; health care waste         the facility level         National IPC plans         and training curricula         & interview         National IPC plans         and training curricula

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	for the training of IPC			certificates or
	professionals to support			equivalent
	competence			
	development/development of			
	an IPC career pathway			
3.1.5	The national IPC programme			National IPC plans
	provides content and support			and training, curricula
	to undertake national HAI			& interview
	surveillance			
3.2	National curricula and IPC	trainin	ig and education	
3.2.1	National IPC curricula,			National IPC plans &
	developed (or under			curricula;
	development) in collaboration			
	with local academic			
	institutions are available for			
	pregraduate courses			
3.2.2	National IPC curricula,			National IPC plans &
	developed (or under			curricula
	development) in collaboration			
	with local academic			
	institutions is available for			
3.2.3	postgraduate courses National curricula are			National IBC plana 8
3.2.3				National IPC plans & curricula
	informed by international curricula/networks and			cumcula
	adapted to national needs and			
	local resources			
3.2.4	National curricula are adapted			National IPC plans &
•	to national needs and local			curricula
	resources			
3.2.5	IPC training is integrated into			National IPC plans &
	continuing medical, nursing			interviews
	and allied health professional			
	education and training			
3.3	Monitoring of IPC educatio	n and	training	
3.3.1	A national system and			National IPC plans
	schedule of monitoring and			and reports
	evaluation is in place to check			
	on the effectiveness of			
	training and education, for			
	example, at least annually			
3.4	Implementation of training	and e	ducation	
3.4.1	Standardized training tools in			National IPC plans,
	line with national guidelines			training materials,
	and international standards to			interviews
	support implementation of			
	curricula are available			
3.4.2	The national IPC training			National IPC plans,
	supports packages to promote			training materials,
	the use of participatory and			interviews
	team- and task-based			
	strategies			

	Item for assessment	Yes/ No	Comments	Suggested verifiers
3.4.3	The national IPC training			National IPC plans,
	supports packages to promote			training materials,
	the use of simulation			interviews
3.4.4	The national IPC training			National IPC plans,
	supports packages to promote			training materials,
	the use of multimodal			interviews
	strategies			
3.4.5	The national IPC training			National IPC plans,
	supports packages to			training materials,
	promote the integration and			interviews
	embedding of IPC training			
	within clinical practice and the			
240	training of other disciplines			National IDO plana
3.4.6	The national IPC training			National IPC plans,
	supports packages to			training materials, interviews
	promote the importance of			Interviews
	involving patients or family			
	members in facility-level			
	training programmes		l 2 of the WHO Guidelines on core comp	pents for infection prevention
			ute healthcare facility level.(Good pract	
	http://www.who.int/infection-prevention	/publicat	ions/ipc-components-guidelines/en/) a	nd pages 31-40 of Interim
			tation of the WHO Guidelines on core c	
		ttp://wwv	v.who.int/infection-prevention/campaign	s/clean-hands/cc-
	implementation-guideline.pdf) ** Including cleaning of the facility aux	iliarv ser	vice staff and administrative and managed	perial staff (for example local
	authorities and hospital administrators			
4	HAI infection surveillar	ice		
4.1	Coordination of surveilland	e at th	ne national level	
4.1.1	A national HAI surveillance			A national IPC
	programme and network of			programme/work plan
	facilities is established and			p g
	supported (including			
	financially) by governments			
	and national authorities			
4.1.2				
4.1.2	The national IPC team is			A national IPC
	trained in HAI surveillance			A national IPC programme/work plan
	trained in HAI surveillance concepts and methods			programme/work plan
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme			programme/work plan A national IPC
	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner)			programme/work plan
	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to			programme/work plan A national IPC
	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI			programme/work plan A national IPC
	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and			programme/work plan A national IPC
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network			programme/work plan A national IPC programme/work plan
	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme			programme/work plan A national IPC programme/work plan A national IPC
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative			programme/work plan A national IPC programme/work plan A national IPC programme/work plan
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative sample of data on HAI at the			programme/work plan A national IPC programme/work plan A national IPC
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative sample of data on HAI at the country level or in selected			programme/work plan A national IPC programme/work plan A national IPC programme/work plan
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative sample of data on HAI at the country level or in selected regions according to			programme/work plan A national IPC programme/work plan A national IPC programme/work plan
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative sample of data on HAI at the country level or in selected regions according to feasibility, including the use			programme/work plan A national IPC programme/work plan A national IPC programme/work plan
4.1.3	trained in HAI surveillance concepts and methods The national IPC programme (or collaborating partner) leads are designated to coordinate the national HAI surveillance programme and network The national IPC programme collects a representative sample of data on HAI at the country level or in selected regions according to			programme/work plan A national IPC programme/work plan A national IPC programme/work plan

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	programme links with AMR surveillance systems			programme/work plan & interview
4.1.6	The national HAI surveillance programme links with the national public health bodies responsible for International Health Regulations to ensure timely detection of outbreaks			A national IPC programme/work plan & interview
4.1.7	National HAI surveillance data are used for benchmarking purposes (for example, establishing baselines for comparison)			A national IPC programme/work plan & interview
4.2	National objectives of surv	eilland	ce are defined and include	
4.2.1	Describing the epidemiology of HAI (that is, incidence and/or prevalence, type, aetiology, severity, burden of disease)			A national IPC programme/work plan; surveillance guidelines & interview
4.2.2	Identification of risk factors, for example, high-risk populations, procedures and exposures			A national IPC programme/work plan; surveillance guidelines & interview
4.2.3	Early detection of outbreaks			A national IPC programme/work plan; surveillance guidelines & interview
4.2.4	Informing policy priorities			A national IPC programme/work plan; surveillance guidelines & interview
4.2.5	Assessment of the impact of IPC interventions			A national IPC programme/work plan; surveillance guidelines & interview
4.3	Prioritized HAIs for surveill	ance a	are defined and include	
4.3.1	Epidemic-prone infections (for example, norovirus, influenza, severe acute respiratory syndrome)			A national IPC programme/work plan; surveillance guidelines & interview
4.3.2	Infections in vulnerable populations (for example, neonates, burn patients, intensive care unit patients, immunocompromised hosts)			A national IPC programme/work plan; surveillance guidelines & interview
4.3.3	Infections that may cause severe outcomes			A national IPC programme/work plan; surveillance guidelines & interview
4.3.4	Infections caused by multidrug-resistant, extensive drug-resistant and pandrug			A national IPC programme/work plan; surveillance

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	pathogens (for example, WHO priority/Global Antimicrobial Surveillance Systems**)			guidelines & interview
4.3.5	Infections associated with invasive devices or specific procedures (for example, intravascular devices, surgery, etc.)			A national IPC programme/work plan; surveillance guidelines & interview
4.3.6	Infections that may affect health care workers in clinical, laboratory and other settings (for example, hepatitis B or C, human immunodeficiency virus, influenza)			A national IPC programme/work plan; surveillance guidelines & interview
4.4	Methods of surveillance are	e defir	hed and include	
4.4.1	Standardized active prospective data collection methods			A national IPC programme/work plan; surveillance guidelines & interview
4.4.2	Standardized case definitions of infections (including accurate denominators) informed by international standards, careful local expert consultation and validation			A national IPC programme/work plan; surveillance guidelines & interview
4.4.3	Systems to regularly assess data quality (for example, review of case report forms, microbiology results, denominator determination) and surveillance programme attributes (for example, sensitivity, specificity, user- acceptability)			A national IPC programme/work plan; surveillance guidelines & interview
4.5	Microbiology and laborator	y sup	port	
4.5.1	The national IPC programme has microbiological support to monitor certain organisms (at least one national reference microbiology laboratory)			A national IPC programme/work plan; surveillance guidelines & interview
4.5.2	Microbiological data on the aetiology and patterns of AMR (at least for prioritized HAIs, for example, most severe infections)			A national IPC programme/work plan; surveillance guidelines & interview
4.6	Information is analyzed and	d time	ly feedback provided to	all relevant
	stakeholders	T	Γ	
4.6.1	Clear and regular reporting lines from facility to the national level are in place			A national IPC programme/work plan; surveillance guidelines & interview
4.6.2	National IPC programme has			A national IPC

	Item for assessment	Yes/ No	Comments	Suggested verifiers
	a clear plan for data			programme/work plan;
	management and analysis at			surveillance
	the national level			guidelines & interview
4.6.3	National IPC programme			A national IPC
	provides timely feedback			programme/work plan;
	reports to relevant			surveillance
	stakeholders on the national			guidelines, feedback
	situation of HAI and special			reports & interview
	events			
4.6.4	National IPC programme			A national IPC
	provides timely feedback			programme/work plan;
	reports to relevant			surveillance
	stakeholders on outbreak			guidelines, feedback
	management and control			reports & interview
4.6.5	National IPC programme			A national IPC
	provides timely feedback			programme/work plan;
	reports to relevant			surveillance
	stakeholders on HAI caused			guidelines, feedback
	by multidrug-resistant			reports & interview
	pathogens			
4.6.6	HAI surveillance data are			A national IPC
	linked with available IPC and			programme/work plan
	water, sanitation and hygiene			& interview
	monitoring data			
4.6.7	Feedback reports from the			A national IPC
	national level to relevant			programme/work plan;
	stakeholders contain both			surveillance
	analyses and			guidelines, feedback
	recommendations *For further information, please refer to			reports & interview
	and control programmes at the national http://www.who.int/infection-prevention practical manual supporting national in prevention and control programmes ( <u>h</u> <u>implementation-guideline.pdf</u> ) **WHO priority organisms <u>http://www.w</u> ET_NM_WHO.pdf?ua=1	n/publicat nplement ttp://www	tions/ipc-components-guidelines/en/) a tation of the WHO Guidelines on core wwho.int/infection-prevention/campaig	nd pages 41-49 of <i>Interim</i> components on infection ns/clean-hands/cc-
-				
5	Multimodal strategies*			
5.1	National and sub-national			mplementation of IPC
	improvement interventions	inclu	des	
5.1.1	A trained national IPC team,			Interview, training
	competent in implementation			certificates or
	science and multimodal			equivalent
	behaviour change strategies**			
5.1.2	Promotion of multimodal			National IPC plan;
	strategies through the			relevant guideline &
	inclusion of the approach in			interview
	the development of IPC			
	guidelines, education and			
	training			

	Item for assessment	Yes/ No	Comments	Suggested verifiers	
5.2	National and sub-national f improvement interventions	national facilitation in support of local implementation of IPC			
5.2.1	Promotion of actions to ensure that the infrastructure/necessary supplies for IPC are in place (system change)			National IPC plan; relevant guideline & interview	
5.2.2	Promotion of health care worker training and education relevant to IPC interventions is being implemented			National IPC plan; relevant guideline & interview	
5.2.3	Promotion of the development of monitoring indicators (process or outcome) reflecting the IPC improvement interventions is being implemented, including provision of feedback data			National IPC plan; relevant guideline & interview	
5.2.4	Promotion of the role of communications and reminders/awareness-raising resources relating to the IPC improvements is being implemented			National IPC plan; relevant guideline & interview	
5.2.5	Promotion of organizational culture change			National IPC plan; relevant guideline & interview	
5.3	Programme and accreditati	on lin	kages include		
5.3.1	Liaison between national IPC programme and quality improvement/quality and safety departments to promote multimodal strategies			National IPC plan; meeting minutes & interview	
5.3.2	Liaison between national IPC programme and accreditation bodies to promote multimodal strategies			National IPC plan; meeting minutes & interview	
5.4	Evaluation of multimodal strategies includes				
5.4.1	A system for regular reporting and evaluation on multimodal strategies across health facilities, including feedback			National IPC plan; relevant guideline & interview	
	*For further information, please refer to page 14 of the WHO Guidelines on core components for infection prevention and control programmes at the national and acute healthcare facility level. (Recommendation 5b: http://www.who.int/infection-prevention/publications/ipc-components-guidelines/en/ ) and pages 50-59 of Interim practical manual supporting national implementation of the WHO Guidelines on core components on infection prevention and control programmes (http://www.who.int/infection-prevention/campaigns/clean-hands/cc- implementation-guideline.pdf)				
	<ul> <li>** Multimodal strategies comprise measures to support implementation of IPC improvement interventions and commonly focus on: <ol> <li>System change</li> <li>Training and education</li> <li>Monitoring and feedback</li> <li>Communications/reminders</li> <li>Safety climate/culture change</li> </ol> </li> </ul>				

	Item for assessment	Yes/	Comments	Suggested verifiers		
		No				
6	Monitoring/audit of IPC	prac	tices, feedback and con	trol activities*		
		prac				
6.1	Monitoring/audit and feedback framework for IPC is established at national level, including					
6.1.1	A well-defined plan focusing			A national IPC		
	on IPC outcomes, processes and strategies, with clear goals, targets and operational plans			programme/work plan, IPC indicators & interview		
6.1.2	IPC indicators integrated			A national IPC		
	within national monitoring systems, for example, health management information system			programme/work plan, IPC indicators, HMIS (or equivalent) reports & interview		
6.1.3	Development of tools to collect information needed for monitoring/audit and feedback in a systematic way including the WHO hand hygiene self- assessment framework			A national IPC programme/work plan, IPC indicators & interview		
6.1.4	National monitoring/audit and feedback activities aligned with equivalent activities at the local level (focused on core IPC indicators)			A national IPC programme/work plan, IPC indicators & interview		
6.1.5	A mechanism to train national and local auditors is in place			A national IPC programme/work plan, IPC indicators & interview		
6.1.6	Mechanisms to link/cross- reference IPC monitoring/audit data with available water, sanitation and hygiene monitoring data			A national IPC programme/work plan, IPC indicators & interview		
6.2	Monitoring/audit indicators are defined					
6.2.1	Hand hygiene compliance monitoring and feedback is identified as a key national indicator, at the very least for reference hospitals			A national IPC programme/work plan & interview		
6.2.2	All indicators are linked to the targets established by the national IPC work plan			A national IPC programme/work plan & interview		
6.2.3	Core indicators include both process and outcome indicators (for example, focused on structures/infrastructure and the environment as well as practices of health care workers)			A national IPC programme/work plan & interview		

	Item for assessment	Yes/ No	Comments	Suggested verifiers		
6.2.4	A minimal set of core indicators for health care facilities in the country is defined			List of indicators		
6.3	Monitoring/audit and feedback process and reporting					
6.3.1	Information on the monitoring/audit of national IPC goals and strategies is collected regularly			Monitoring/audit reports		
6.3.2	Monitoring/audit of IPC activities and structures of health care facilities is conducted regularly			Monitoring/audit reports		
6.3.3	Information collected is regularly analyzed and used to inform national decision making			Monitoring/audit reports		
6.3.4	Evaluation of the performance of local IPC programmes is performed in an improvement- oriented institutional culture			Monitoring/audit reports		
6.3.5	The IPC national programme facilitates facility-level self or peer evaluation against national standards/goals			A national IPC programme/work plan & interview		
6.3.6	Regular reports of monitoring/audit results are provided to drive improvement action at the facility level as part of a multimodal strategy			Monitoring/audit reports		
	*For further information, please refer to page 15 of the WHO Guidelines on core components for infecti and control programmes at the national and acute healthcare facility level. (Recommendation 6b: http://www.who.int/infection-prevention/publications/ipc-components-guidelines/en/) and pages 60-68 of practical manual supporting national implementation of the WHO Guidelines on core components on in prevention and control programmes (http://www.who.int/infection-prevention/campaigns/clean-hands/co- implementation-guideline.pdf)					