INSTITUTO NACIONAL DE PEDIATRIA

2019

Evaluacion Anual PCI

World Health Organization (WHO) IPC global survey - Confirm profile registration

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WHO IPC Survey -nareply@who-spc-survey.org+

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SVP, VOIR PLUS BAS POUR LA VERSION FRANÇAISE

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Infection Prevention and Control Assessment Framework (IPCAF)

Se recibe acuse de recibo el 22 ENERO 2019



Introduction and user instructions

The Infection Prevention and Control (IPC) Assessment Framework (IPCAF) is a tool to support the implementation of the World Health Organization (WHO) Guidelines on core components of IPC programmes at the acute health care facility level. The user should be familiar with the contents of these guidelines, including the Interim practical manual supporting the implementation of the IPC core components at the facility level before using this tool. The IPCAF is a systematic tool that can provide a baseline assessment of the IPC programme and activities within a health care facility, as well as ongoing evaluations through repeated administration to document progress over time and facilitate improvement.

What is its purpose?

The IPCAF is a structured, closed-formatted questionnaire with an associated scoring system. It is primarily intended to be self-administered (that is, a self-assessment tool), but it can also be used for joint assessments, through careful discussions between external assessors (for example, from the Ministry of Health, WHO or other stakeholders) and facility staff. The framework is intended for acute health care facilities, but it can be used in other inpatient health care settings. Although some indicators will be straightforward for high- and middle-income countries, this is a global tool that is valid for assessment of IPC standards in any country. The goal of the framework is to assess the current IPC situation in your facility, that is, existing IPC activities/resources, and identify strengths and gaps that can inform future plans. It can be considered as a diagnostic tool for facilities to detect relevant problems or shortcomings that require improvement and identify areas where they can meet international standards and requirements. If the IPCAF is undertaken as a self-assessment, its usefulness depends on being completed objectively and as accurately as possible. Identifying existing strengths and achievements will help build confidence and convince decision-makers that success and progress is possible. Honestly recognizing gaps will help to create a sense of urgency for the changes needed to improve IPC. For these reasons, it is important to determine the correct score for each section as well as the overall score. Overall, the IPCAF gives a score that can be used as an indicator of the level of progress from an improvement perspective. These results can be used to develop an action plan, using the Interim practical manual for the implementation of the IPC core components at the facility level among other resources, to strengthen existing measures and motivate facilities to intensify efforts where needed. By completing it regularly, facilities can monitor their progress over time.

WHO proposes five steps for the implementation of IPC facility programmes:

- 1. preparing for action
- 2. baseline assessment
- 3. developing and executing an action plan
- 4. assessing impact
- 5. sustaining the programme over the long term.

In particular, the IPCAF is a valuable tool to support Steps 2 and 4 of this process. Step 2 "baseline assessment" is concerned with understanding the current situation, including strengths and weaknesses, to guide action planning for improvement. Step 4 "assessing impact" is concerned with evaluating the effectiveness of activities undertaken in the context of the action plan.

Who should complete and use the IPCAF?

- Health care professionals/teams responsible for organizing and implementing IPC activities, who have indepth understanding and knowledge of IPC activities at the facility level.
- If there are no professionals in charge of IPC or there is not yet an IPC programme established, the tool should be completed and used by senior facility managers.
- The IPCAF assesses the healthcare facility as a whole. Of note: in most cases "you" refers to the facility and
 is not directly addressing the IPC lead/professional answering the question. The IPC team may need to
 consult with other relevant teams in the facility (for example, health care worker protection and safety,
 occupational health, surveillance and epidemiology, cleaning and maintenance, environmental health,
 administration, etc.) to be able to respond to questions accurately.
- The IPCAF is designed for global use at facilities of any size, regardless of their medical focus or development stage.
- If used in joint evaluations, the external assessor should be an IPC professional with an understanding of the recommendations contained in the WHO Guidelines on core components of IPC programmes¹.

How is it structured?

The IPCAF is structured according to the recommendations in the WHO Guidelines on corecomponents of IPC programmes¹ at the acute health care facility level and thus, it is divided into eight sections reflecting the eight WHO IPC core components, which are then addressed by a total of 81 indicators. These indicators are based on evidence and expert consensus and have been framed as questions with defined answers to provide an orientation for assessment. Based on the overall score achieved in the eight sections, the facility is assigned to one of four levels of IPC promotion and practice.

- 1. Inadequate: IPC core components implementation is deficient. Significant improvement is required.
- Basic: Some aspects of the IPC core components are in place, but not sufficiently implemented. Further improvement is required.
- Intermediate: Most aspects of the IPC core components are appropriately implemented. The facility should
 continue to improve the scope and quality of implementation and focus on the development of long-term
 plans to sustain and further promote the existing IPC programme activities.
- Advanced: The IPC core components are fully implemented according to the WHO recommendations and appropriate to the needs of the facility.

How does it work?

When completing the questions contained in the eight sections, choose the answer(s) that most accurately describe(s) the situation at your facility. When you are unfamiliar with terminology in the stated questions, it is strongly recommended to consult the WHO Guidelines on core components of IPC programmes¹ or other resources provided in the footnotes to familiarize yourself with new terms and concepts. Difficulties in answering specific questions could indicate that some IPC aspects are not sufficiently developed at your facility and users are encouraged to self-reflect. This can also help lead to improvement. In general, you should choose only one answer per question (questions marked either "yes/no" or "choose one answer"). Some questions are designed to allow multiple answers. These questions are marked with the note "please tick all that apply", which enables you to choose all answers that are appropriate to your facility (choose at least one). Points are allocated to the individual answers of each question, depending on the importance of the question/answer in the context of the respective core component. In each section (core component), a maximum score of 100 points can be achieved. After you have answered all questions of a component, the score can be calculated by adding the points of every chosen answer. By adding the total scores of all eight components, the overall score is calculated.

Is the IPCAF suitable for inter-facility comparison?

The primary goal of the framework is to provide an orientation to assess the situation of IPC at the individual health care facility level and to monitor the development and improvement of IPC activities over time through repeated use. The comparison of different health care facilities should be done very carefully, particularly when of different sizes, medical focus and socioeconomic setting. Therefore, the framework is not primarily intended for external comparison or benchmarking, but these might be possible - provided that a sound methodology is used.

Question	Answer	Score
1. Do you have an IPC programme? ³	□No	0
	Yes, without clearly defined objectives	5
	Yes, with clearly defined objectives and annual activity plan	10
2. Is the IPC programme supported by an IPC team comprising	No	0
of IPC professionals?4	Not a team, only an IPC focal person	5
	Yes	10
3. Does the IPC team have at least one full-time IPC professional	No IPC professional available	0
or equivalent (nurse or doctor working 100% in IPC) available?	No, only a part-time IPC	2.5
	Yes, one per > 250 beds	5
	Yes, one per <= 250 beds	10
4. Does the IPC team or focal person have dedicated time for IPC	□ No	0
activities?	☐ Yes	10
5. Does the IPC team include both doctors and nurses?	□No	0
	☐ Yes	10
6. Do you have an IPC committee ⁵ actively supporting the IPC	□No	0
team?	■ Yes	10
7. Are any of the following professional groups represented/include	-	
Senior facility leadership (for example, administrative director, chief	No	0
executive officer [CEO], medical director)	■ Yes	5
Contact chinters shaff (For opening whitefolion opening)		0
Senior clinical staff (for example, physician, nurse)	∐ No	Ů.
	Yes	2.5
Facility management (for example, biosafety, waste, and those tasked with addressing water, sanitation, and hygiene [WASH])	□ No	0
with didnessing water, samitation, and nygrene (WASHI)	Yes	2.5
8. Do you have clearly defined IPC objectives (that is, in specific	☐ No	0
critical areas)?	Yes, IPC objectives only	2.5
	Yes, IPC objectives and measurable outcome indicators (that is, adequate measures for improvement)	5
	Yes, IPC objectives, measurable outcome indicators and set future targets	10
9. Does the senior facility leadership show clear commitment and	support for the IPC programme:	
By an allocated budget specifically for the IPC programme (that is, covering IPC activities, including salaries)?	■ No	0
and a contract of the state of	Yes	5
By demonstrable support for IPC objectives and indicators within the facility (for example, at executive level meetings, executive rounds,	No	0
participation in morbidity and mortality meetings)?	Yes	5

(either present on or off site) for routine day-to-day use?	Yes, but not delivering results reliably (timely and of sufficient quality)	5
	Yes, and delivering results reliably (timely and of sufficient quality)	10
Subtotal score	and the second s	95 / 100
2. Infection Prevention and Control (IPC) guidelines		
Question	Answer	Score
1. Does your facility have the expertise (in IPC and/or infectious	□ No	0
diseases) for developing or adapting guidelines?	Yes	7.5
2. Does your facility have guidelines available for:		
Standard precautions?	No	0
	Yes	2.5
Hand hygiene?	No	0
	Yes	2.5
Transmission-based precautions?6	No	0
	Yes	2.5
Outbreak management and preparedness?	□ No	0
	Yes	2.5
Prevention of surgical site infection? ⁷	□ No	0
	■ Yes	2.5
Prevention of vascular catheter-associated bloodstream infections?	No	0
	■ Yes	2.5
Prevention of hospital-acquired pneumonia ([HAP]; all types of HAP,	□ No	0
including (but not exclusively) ventilator-associated pneumonia)?	■ Yes	2.5
Prevention of catheter-associated urinary tract infections?	■ No	0
	Yes	2.5
Prevention of transmission of multidrug-resistant (MDR) pathogens?	□No	0
	Yes	2.5
Disinfection and sterilization?	No	0
	Yes	2.5
Health care worker protection and safety ⁸	■ No	0
	Yes	2.5
Injection safety?	□ No	0
	■ Yes	2.5
Waste management?	No	0
Traste management.	■ Yes	2.5
Antibiotic stewardship?	■ No	0
Anabote stevardany:	Yes	2.5
3. Are the guidelines in your facility consistent with	No No	0
national/international guidelines (if they exist)?		1975
	Yes	10

4. Is implementation of the guidelines adapted 10 according to the local needs and resources while maintaining key IPC	□ No	0
standards?	Yes	10
5. Are frontline health care workers involved in both planning	☐ No	0
and executing the implementation of IPC guidelines in addition to IPC personnel?	Yes	10
6. Are relevant stakeholders (for example, lead doctors and	□ No	0
nurses, hospital managers, quality management) involved in the development and adaptation of the IPC guidelines in addition to IPC personnel?	Yes	7.5
7. Do health care workers receive specific training related to new or updated IPC guidelines introduced in the facility?	□ No	0
new or updated ire guidelines introduced in the facility?	Yes	10
8. Do you regularly monitor the implementation of at least some	□ No	0
of the IPC guidelines in your facility?	Yes	10
Subtotal score	la-Co	92.5 / 100
3. Infection Prevention and Control (IPC) education and training		
Question 1. Are there personnel with the IPC expertise (in IPC and/or	Answer	Score 0
infectious diseases) to lead IPC training?	Yes	10
		T.C.
Are there additional non-IPC personnel with adequate skills to serve as trainers and mentors (for example, link nurses or		0
doctors, champions)?	Yes	10
3. How frequently do health care workers receive training regarding IPC in your facility?	Never or rarely	0
	New employee orientation only	5
	for health care workers New employee orientation and	10
	regular (at least annually) IPC training for health care workers offered but not mandatory	10
	New employee orientation and regular (at least annually) mandatory IPC training for all health care workers	15
4. How frequently do cleaners and other personnel directly involved in patient care receive training regarding IPC in your	Never or rarely	0
facility?	New employee orientation only for other personnel	5
	New employee orientation and regular (at least annually) training for other personnel offered but not mandatory	10
	New employee orientation and regular (at least annually) mandatory IPC training for other personnel	15
5. Does administrative and managerial staff receive general training regarding IPC in your facility?	☐ No	0
naming regulating ir o in your facility:	Yes	5
6. How are health care workers and other personnel trained?	No training available	0
	Using written information and/or oral instruction and/or e- learning only	5
	Includes additional interactive training sessions (for example, simulation and/or bedside training)	10

7. Are there periodic evaluations of the effectiveness of training	□ No	0
programmes (for example, hand hygiene audits, other checks on knowledge)?	Yes, but not regularly	5
	Yes, regularly (at least annually)	10
8. Is IPC training integrated in the clinical practice and training	□No	0
of other specialties (for example, training of surgeons involves aspects of IPC)?	Yes, in some disciplines	5
	Yes, in all disciplines	10
9. Is there specific IPC training for patients or family members	No	0
to minimize the potential for health care-associated infections (for example, immunosuppressed patients, patients with invasive devices, patients with multidrug-resistant infections)?	Yes	5
10. Is ongoing development/education offered for IPC staff (for example, by regularly attending conferences, courses)?	■ No	0
example, by regularly attending conferences, courses)?	Yes	10
Subtotal score	to ""	70 / 10
4. Health care-associated infection (HAI) surveillance		
Question	Answer	Score
Organization of surveillance	The second secon	Checkery
1. Is surveillance a defined component of your IPC programme?	□ No	0
	Yes	5
2. Do you have personnel responsible for surveillance activities?	No	0
	Yes	5
3. Have the professionals responsible for surveillance activities	□ No	0
been trained in basic epidemiology, surveillance and IPC (that is, capacity to oversee surveillance methods, data management and interpretation)?	Yes	5
4. Do you have informatics/IT support to conduct your	□ No	0
surveillance (for example, equipment, mobile technologies, electronic health records)?	■ Yes	5
Priorities for surveillance - defined according to the scope of care		l II
5. Do you go through a prioritization exercise to determine the	No	0
HAIs to be targeted for surveillance according to the local context (that is, identifying infections that are major causes of morbidity and mortality in the facility)? ¹¹	Yes	5
5. In your facility is surveillance conducted for:		28
Surgical site infections? ¹²	No	0
	■ Yes	2.5
Device-associated infections (for example, catheter-associated urinary tract infections, central line-associated bloodstream infections,	No	0
peripheral-line associated bloodstream infections, ventilator-associated pneumonia)?	Yes	2.5
Clinically-defined infections (for example, definitions based only on clinical signs or symptoms in the absence of microbiological testing)?	□ No	0
initial signs of symptoms in the absence of inicrobiological testing)?	Yes	2.5
Colonization or infections caused by multidrug-resistant ¹³ pathogens	No	0
according to your local epidemiological situation?	■ Yes	2.5
ocal priority epidemic prone infections (for example, norovirus,	□ No	0
nfluenza, tuberculosis [TB], severe acute respiratory syndrome SARS], Ebola, Lassa fever)?	Yes	2.5
infections in vulnerable populations (for example, neonates, intensive	□ No	0
care unit, immunocompromised, burn patients)?14	── Yes	2.5
Infections that may affect health care workers in clinical, laboratory, or	No	0
	The second secon	110

other settings (for example, hepatitis B or C, human immunodeficiency		
virus [HIV], influenza)?	Yes	2.5
7. Do you regularly evaluate if your surveillance is in line with the current needs and priorities of your facility? ¹¹	□ No	0
the current needs and priorities of your memity.	Yes	5
Methods of surveillance		
8. Do you use reliable surveillance case definitions (defined	No	0
numerator and denominator according to international definitions [e.g. CDC NHSN/ECDC] ¹⁵ or if adapted, through an evidence-based adaptation process and expert consultation?	Yes	5
9. Do you use standardized data collection methods (for example, active prospective surveillance) according to	□ No	0
international surveillance protocols (for example, CDC NHSN/ECDC) or if adapted, through an evidence-based adaptation process and expert consultation?	Yes	5
10. Do you have processes in place to regularly review data	No	0
quality (for example, assessment of case report forms, review of microbiology results, denominator determination, etc.)?	Yes	5
11. Do you have adequate microbiology and laboratory capacity	□ No	0
to support surveillance?	Yes, can differentiate gram- positive/negative strains but cannot identify pathogens	2.5
	Yes, can reliably identify pathogens (for example, isolate identification) in a timely manner	5
	Yes, can reliably identify pathogens and antimicrobial drug resistance patterns (that is, susceptibilities) in a timely manner	10
Information analysis and dissemination/data use, linkage, and go	vernance	
12. Are surveillance data used to make tailored unit/facility- based plans for the improvement of IPC practices?	No	0
bused plans for the improvement of it o plantees.	Yes	5
13. Do you analyze antimicrobial drug resistance on a regular	□No	0
basis (for example, quarterly/half-yearly/annually)?	Yes	5
14. Do you regularly (for example, quarterly/half-yearly/annually) information to:	feedback up-to-date surveillance	
Frontline health care workers (doctors/nurses)?	No	0
	Yes	2.5
Clinical leaders/heads of department?	□ No	0
	i∎ Yes	2.5
IPC committee?	No	0
To committee.	■ Yes	2.5
NY - 11 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 2	1	0
Non-clinical management/administration (chief executive officer/chief financial officer)?	No	
	Yes	2.5
15. How do you feedback up-to-date surveillance information? (at least annually)	No feedback	0
6.mes.com	By written/oral information only	2.5
	By presentation and interactive problem-orientated solution finding	7.5
Subtotal score		100 / 100

Question	Answer	Score
1. Do you use multimodal strategies 16 to implement IPC	No	0
interventions?	Yes	15
2. Do your multimodal strategies include any or all of the follo	owing elements:	
System change	Element not included in	0
System Change	multimodal strategies	0
	■ Interventions to ensure the	5
	necessary infrastructure and continuous availability of supplies are in place	
	Interventions to ensure the necessary infrastructure and continuous availability of supplies are in place and addressing ergonomics ¹⁷ and accessibility, such as the best placement of central venous catheter set and tray	10
Education and training	Element not included in multimodal strategies	0
	Written information and/or oral instruction and/or e-learning only	5
	Additional interactive training sessions (includes simulation and/or bedside training)	10
Monitoring and feedback	Element not included in multimodal strategies	0
	Monitoring compliance with process or outcome indicators (for example, audits of hand hygiene or catheter practices)	5
	Monitoring compliance and providing timely feedback of monitoring results to health care workers and key players	10
Communications and reminders	Element not included in multimodal strategies	0
	Reminders, posters, or other advocacy/awareness-raising tools to promote the intervention	5
	Additional methods/initiatives to improve team communication across units and disciplines (for example, by establishing regular case conferences and feedback rounds)	10
Safety climate and culture change	Element not included in multimodal strategies	0
support and ac role models, p adaptive appro strengthening supports IPC,	Managers/leaders show visible support and act as champions and role models, promoting an adaptive approach ¹⁸ and strengthening a culture that supports IPC, patient safety and quality	5
	Additionally, teams and individuals are empowered so that they perceive ownership of the intervention (for example, by participatory feedback rounds)	10

3. Is a multidisciplinary team used to implement IPC multimodal	□ No	0
strategies?	Yes	15
4. Do you regularly link to colleagues from quality improvement	□ No	0
and patient safety to develop and promote IPC multimodal strategies?	Yes	10
5. Do these strategies include bundles ¹⁹ or checklists?	No	0
	☐ Yes	10
Subtotal score		85 / 100
		- 48
6. Monitoring/audit of IPC practices and feedback		
Question 1. Do you have trained personnel responsible for	Answer	Score 0
1. Do you have trained personnel responsible for monitoring/audit of IPC practices and feedback?	=======================================	16
	Yes	10
Do you have a well-defined monitoring plan with clear goals, targets and activities (including tools to collect data in a	∐ No	0
systematic way)?	Yes	7.5
3. Which processes and indicators do you monitor in your facility?	None	0
	Hand hygiene compliance (using the WHO hand hygiene observation tool ¹⁰ or equivalent)	5
	Intravascular catheter insertion and/or care	5
	Wound dressing change	5
	Transmission-based	5
	precautions and isolation to prevent the spread of multidrug resistant organisms (MDRO)	
	Cleaning of the ward environment	5
	Disinfection and sterilization of medical equipment/instruments	5
	Consumption/usage of alcohol- based handrub or soap	5
	Consumption/usage of antimicrobial agents	5
	Waste management	5
4. How frequently is the WHO Hand Hygiene Self-Assessment	Never	0
Framework Survey 21 undertaken?	Periodically, but no regular schedule	2.5
	At least annually	5
5. Do you feedback auditing reports (for example, feedback on	No reporting	0
hand hygiene compliance data or other processes) on the state of the IPC activities/performance?	Yes, within the IPC team	2.5
	Yes, to department leaders and managers in the areas being audited	2.5
	Yes, to frontline health care workers	2.5
	Yes, to the IPC committee or quality of care committees or equivalent	2.5
	Yes, to hospital management	2.5

	Yes, this is the responsibility of the head of department	5
	Yes, this is the responsibility of the hospital administration/ management	10
Subtotal score	120	40 /
8. Bullt environment, materials and equipment for IPC at the faci	lity level ²⁷	
Question	Answer	Score
Water	2/-	
Are water services available at all times and of sufficient quantity for all uses (for example, hand washing, drinking, personal hygiene, medical activities, sterilization,	No, available on average < 5 days per week	0
decontamination, cleaning and laundry)?	Yes, available on average ≥ 5 days per week or every day but not of sufficient quantity	2.5
	Yes, every day and of sufficient quantity	7.5
2. Is a reliable safe drinking water station present and	No, not available	0
accessible for staff, patients and families at all times and in all locations/wards?	Sometimes, or only in some places or not available for all users	2.5
	Yes, accessible at all times and for all wards/groups	7.5
Hand hygiene and sanitation facilities		
3. Are functioning hand hygiene stations (that is, alcohol-based	No, not present	0
handrub solution or soap and water and clean single-use towels) available at all points of care?	Yes, stations present, but supplies are not reliably available	2.5
	Yes, with reliably available supplies	7.5
4. In your facility, are ≥ 4 toilets or improved latrines ²⁸ available for outpatient settings or ≥ 1 per 20 users for inpatient settings?	Less than required number of toilets or latrines available and functioning	0
	Sufficient number present but not all functioning	2.5
	Sufficient number present and functioning	7.5
Power supply, ventilation and cleaning		
5. In your health care facility, is sufficient energy/power supply available at day and night for all uses (for example, pumping and	□ No	0
available at day and hight for an uses (to example, pumping and boiling water, sterilization and decontamination, incineration or alternative treatment technologies, electronic medical devices, general lighting of areas where health care procedures are	Yes, sometimes or only in some of the mentioned areas	2.5
performed to ensure safe provision of health care and lighting of toilet facilities and showers)?	Yes, always and in all mentioned areas	5
6. Is functioning environmental ventilation (natural or	■ No	0
mechanical ²⁹) available in patient care areas?	Yes	5
7. For floors and horizontal work surfaces, is there an accessible record of cleaning, signed by the cleaners each day?	No record of floors and surfaces being cleaned	0
	Record exists, but is not completed and signed daily or is outdated	2.5
	Yes, record completed and signed daily	5
8. Are appropriate and well-maintained materials for cleaning	No materials available	0
(for example, detergent, mops, buckets, etc.) available?	Yes, available but not well	2.5

	maintained	
	Yes, available and well-	5
	maintained	
Patient placement and personal protective equipment (PPE) in he	alth care settings	
9. Do you have single patient rooms or rooms for cohorting ³⁰ patients with similar pathogens if the number of isolation rooms	□ No	0
is insufficient (for example, TB, measles, cholera, Ebola, SARS)?	No single rooms but rather	2.5
© I	rooms suitable for patient cohorting available	
	Yes, single rooms are available	7,5
10. Is PPE ³² available at all times and in sufficient quantity for all uses for all health care workers?	□ No	0
an uses tot an nearth care workers.	Yes, but not continuously available in sufficient quantities	2.5
	Yes, continuously available in sufficient quantities	7.5
Medical waste management and sewage		
11. Do you have functional waste collection containers for noninfectious (general) waste, infectious waste and, sharps waste in close proximity to all waste generation points?	No bins or separate sharps disposal	0
masse in vivas proximity to an waste generation points:	Separate bins present but lids	2.5
	missing or more than 3/4 full; only two bins (instead of three); or bins at some but not all waste generation points.	
	Yes Yes	5
12. Is a functional burial pit/fenced waste dump or municipal pickup available for disposal of non-infectious (non-hazardous/general waste)?	No pit or other disposal method used	0
nazaruous/generai waste)?	Pit in facility but insufficient	2.5
	dimensions; pits/dumps overfilled or not fenced/locked; or irregular municipal waste pick up	
	Yes	5
13. Is an incinerator or alternative treatment technology for the	No, none present	0
treatment of infectious and sharp waste (for example, an autoclave) functional and of a sufficient capacity?	Present, but not functional	2.5
	Yes	5
14. Is a wastewater treatment system (for example, septic tank followed by drainage pit) present (either on or off site) and	No, not present	0
functioning reliably?	Present, but not functioning reliably	2.5
	Yes and functioning reliably	5
Decontamination and sterilization	Line V	
15. Does your health care facility provide a dedicated	No, not present	0
decontamination area and/or sterile supply department for the decontamination and sterilization of medical devices and other	Present, but not functioning	2.5
items/equipment?	Yes	5
16. Do you reliably have sterile and disinfected equipment ready for use?	No, available on average < five days per week	0
	Yes, available on average >=	2.5
	five days per week or every day, but not of sufficient quantity	
	Yes, available every day and of sufficient quantity	5
17. Are disposable items available when necessary? (for example,	No, not available	0
injection safety devices, examination gloves)	Yes, but only sometimes	2.5
	Yes, but only sometimes available	2.5

Subtotal score		77.5 / 100
	Yes, continuously available	5

Interpretation: A three-step process

1. Add up your points

Section (Core component)	Subtotals
1. Infection Prevention and Control (IPC) programme	95 / 100
2. Infection Prevention and Control (IPC) guidelines	92.5 / 100
3. Infection Prevention and Control (IPC) education and training	70 / 100
4. Health care-associated infection (HAI) surveillance	100 / 100
5. Multimodal strategies 16 for implementation of infection prevention and control (IPC) interventions	85 / 100
6. Monitoring/audit of IPC practices and feedback	82.5 / 100
7. Workload, staffing and bed occupancy ²³	40 / 100
8. Built environment, materials and equipment for IPC at the facility level ²⁷	77.5 / 100
Final Total	642.5 / 800

2. Determine the assigned 'IPC level' in your facility using the total score from Step 1

Total score (range)	IPC Level
0 - 200	Inadequate: IPC core components implementation is deficient. Significant improvement is required.
201 - 400	Basic: Some aspects of the IPC core components are in place, but not sufficiently implemented. Further improvement is required.
401 - 600	Intermediate: Most aspects of the IPC core components are appropriately implemented. The facility should continue to improve the scope and quality of implementation and focus on the development of long-term plans to sustain and further promote the existing IPC programme activities.
601 - 800	Advanced: The IPC core components are fully implemented according to the WHO recommendations and appropriate to the needs of the facility.

3. Review the framework results and develop an action plan

Review the areas identified by this evaluation as requiring improvement in your facility and develop an action plan to address them.

To undertake this task, consult the WHO *Interim practical manual* supporting implementation of the WHO Guidelines on Core Components of Infection Prevention and Control Programmes which will provide you with guidance, templates, tips, and examples from around the world as well as with a list of relevant IPC improvement tools.

Keep a copy of this assessment to compare with repeated uses in the future.

- 1 WHO Guidelines on core components of IPC programmes at the national and acute health care facility level. 2016 (http://www.who.int/infection-prevention/publications/core-components/en/, accessed 13 April 2018).
- 2 Improving infection prevention and control at the health facility level. Interim practical manual supporting implementation of the WHO guidelines on core components of infection prevention and control programmes. (http://www.who.int/infection-prevention/tools/core-components/en/, accessed 3 May 2018)
- 3 IPC programmes should have clearly defined objectives based on local epidemiology and priorities according to risk assessment, and defined functions and activities that align with and contribute towards the prevention of health care-associated infections and antimicrobial resistance in health care. They should also include dedicated, trained IPC professionals. See the WHO Guidelines on core components of IPC programmes at the national and acute health care facility level for more information (http://www.who.int/infection-prevention/publications/corecomponents/en/, accessed 13 April 2018).
- 4 IPC professional: medical or nursing staff trained in a certified IPC course.
- 5 An IPC committee is a multidisciplinary group with interested stakeholders across the facility, which interacts with and advises the IPC team. An IPC team includes dedicated IPC professionals who are responsible for the IPC programme.
- 6 Transmission-based Precautions are to be used in addition to Standard Precautions for patients who may be infected or colonized with certain infectious agents for which additional precautions are needed to prevent infection transmission. They are based on the routes of transmission of specific pathogens (for example, contact versus droplets). More information can be found in the United States Centers for Disease Control and Prevention Guidelines for Isolation Precautions (https://www.cdc.gov/infectioncontrol/pdf/guidelines/isolation-guidelines.pdf, accessed 13 April 2018).
- 7 If no surgical interventions are undertaken at your facility, choose answer "Yes".
- 8 Includes aspects of improving working conditions, detection of occupational diseases, health surveillance of workers, pre-employment screening and vaccinations.
- 9 Refers to the appropriate use of antimicrobials to improve patient outcomes while minimizing the development and spread of resistance. More information can be found in the WHO Global Framework for Development & Stewardship to Combat Antimicrobial Resistance
- (http://www.who.int/phi/implementation/research/UpdatedRoadmap-Global-Framework-for-Development-Stewardship-to-combatAMR_2017_11_03.pdf?ua=1, accessed 29 March 2018).
- 10 IPC team carefully reviews guidelines to prioritize activities according to needs and resources while maintaining key IPC standards.
- 11 A prioritization exercise should be undertaken to determine which HAIs to target for surveillance according to the local context (for example, areas and/or patients most at risk) according to available resources (see Interim practical manual supporting implementation of the WHO Guidelines on Core Components of Infection Prevention and Control Programmes at http://www.who.int/infection-prevention/tools/core-components/en/, accessed 3 May 2018)
- 12 If no surgical interventions are undertaken at your facility, choose answer "Yes".
- 13 Multidrug-resistant: Non-susceptibility to at least one agent in three or more antimicrobial categories.
- 14 If vulnerable patient populations are not treated at your facility, choose answer "Yes".
- 15 United States Centers for Disease Control and Prevention (CDC) National Healthcare Safety Network (NHSN) (https://www.cdc.gov/nhsn/index.html, accessed 13 April 2018);
- European Centre for Disease Prevention and Control (ECDC) (https://ecdc.europa.eu/en/about-us/partnerships-and-networks/disease-and-laboratory-networks/hai-net, accessed 13 April 2018).
- 16 See definition at http://www.who.int/infection-prevention/publications/ipc-cc-mis.pdf?ua=1, accessed 13 April 2018. The use of multimodal strategies in IPC has been shown to be the best evidence-based approach to achieve sustained system and behavioural change for the implementation of IPC interventions. Multimodal strategy: ≥3 components implemented in an integrated way to achieve improvement of an outcome and change behavior (for example, hand hygiene practices). Components can include (i) system change (for example, making the necessary infrastructure, supplies and human resources available), (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 within the establishment or the strengthening of a safety climate. It also includes tools, such as checklists and bundles, developed by multidisciplinary teams that take into account local conditions. All five areas should be considered and necessary action taken, based on the local context and situation informed by periodic assessments. Lessons from the field of implementation science suggest that targeting only one of these five elements (that is, using a "unimodal" strategy) is more likely to result in improvements that are short-lived and not sustainable. For more information, please see: http://www.who.int/infection-prevention/publications/ipc-cc-mis.pdf?ua=1, accessed 13 April 2018 and the Interim practical manual supporting implementation of the WHO Guidelines on Core Components of Infection Prevention and Control Programmes at http://www.who.int/infectionprevention/tools/core-components/en/, accessed 3 April 2018.
- 17 Ergonomics: human factors or an understanding of interactions among humans and elements of a system to optimize human well-being and overall system performance and prevent human error. More information at: http://www.health.org.uk/sites/health/files/IntegratingHumanFactorsWithInfectionAndPreventionControl.pdf, accessed 13 April 2018.
- 18 Adaptive approaches consider the behavioural, organizational and cultural complexity in health care systems. They aim to improve the local safety climate and motivate local teams to consistently perform best practices by shaping attitudes, beliefs, and values of clinicians. This could include engaging leadership, improving collaborations and team work, and facilitating staff ownership of the intervention. More information at: https://www.ahrq.gov/professionals/education/curriculum-tools/cusptoolkit/index.html, accessed 13 April 2018.

- 19 Bundles: sets of evidence-based practices focused on improving the care process in a structured manner, for example, improvement of catheter insertion. Please note that bundles and multimodal strategies are not the same concept; bundles are tools that can be used to facilitate the implementation of IPC measures, ideally in the context of multimodal strategies ¹⁶which are a much more comprehensive approach.
- 20 WHO hand hygiene monitoring and feedback tools can be found here: http://www.who.int/infection-prevention/tools/hand-hygiene/evaluation_feedback/en/, accessed 18 April 2018.
- 21 WHO Hand Hygiene Self-Assessment Framework can be found here: http://www.who.int/gpsc/country_work/hhsa_framework_October_2010.pdf?ua=1, accessed 18 April 2018.
- 22 HSOPSC: Hospital survey on patient safety culture; SAQ: Safety attitudes questionnaire, PSCHO: Patient safety climate in healthcare organizations; HSC: Hospital safety climate scale. A summary of these surveys can be found at: Colla JB, et al. Measuring patient safety climate: a review of survey. Qual Saf Health Care. 2005;14(5):364-6 (https://www.ncbi.nlm.nih.gov/pubmed/16195571, accessed 13 April 2018).
- 23 Particularly for these questions, the IPC team may need to consult with other relevant teams in the facility to be able to respond to questions accordingly.
- 24 The WHO Workload indicators of staffing need method provides health managers with a systematic way to determine how many health workers of a particular type are required to cope with the workload of a given health facility and aid decision-making (http://www.who.int/hrh/resources/wisn_user_manual/en/, accessed 13 April 2018).
- 25 Taking into account all health care workers involved in service delivery and patient care, including clinical staff (doctors, nurses, dentists, medical assistants, etc.), laboratory technicians and other health care workers (for example, cleaners).
- 26 The WHO Essential environmental health standards in health care guidance provides guidance on standards required for health care in medium- and low-resource countries. These guidelines have been written for use by health managers and planners, architects, urban planners, water and sanitation staff, clinical and nursing staff, carers and other health care providers, and health promoters (http://www.who.int/water sanitation health/publications/ehs hc/en/, accessed 13 April 2018).
- 27 This component can be assessed in more detail using the WHO Water and sanitation for health facility improvement tool (WASH FIT) (http://www.who.int/water_sanitation_health/publications/water-and-sanitation-for-health-facility-improvement-tool/en/, accessed13 April 2018). Particularly for these questions, the IPC team may need to consult with other relevant teams in the facility to be able to respond to questions accordingly and accurately.
- 28 Improved sanitation facilities include flusht oilets into a managed sewer or septic tank and soak-away pit,VIPlatrines,pitlatrineswithslabandcompostingtoilets. To be considered usable, atoilet/latrine should have a door that is unlocked when not in use (or for which a key is available at any time) and can be locked from the inside during use. There should be no major holes or cracks or leaks in the toilet structure, the hole or pit should not be blocked, water should be available for flush/pour flush toilets. It should be within the grounds of the facility and it should be clean as noted by absence of waste, visible dirt and excreta and insects.
- 29 Natural ventilation: outdoor air driven by natural forces (for example, winds) through building purpose-built openings, including windows, doors, solar chimneys, wind towers and trickle ventilators. Mechanical ventilation: air driven by mechanical vans installed directly in windows or walls or in air ducts for supplying air into, or exhausting air from, a room. More information at:
- http://www.who.int/water sanitation health/publications/natural ventilation/en/, accessed 13 April 2018.
- 30 Cohorting strategies should be based on a risk assessment conducted by the IPC team.
- 31 Negative pressure ventilation conditions in isolation rooms may be necessary to prevention transmission of some organisms (for example, multidrug-resistant TB).
- 32 Personal Protective Equipment (PPE): Medical non-sterile and surgical sterile gloves, surgical masks, goggles or face shields and gowns are considered as essential PPE. Respirators and aprons should also be available in adequate quantities in all facilities for use when necessary.