Infection Prevention and Control Assessment Framework (IPCAF) at the Facility Level

- 1. Inadequate: IPC core components implementation is deficient. Significant improvement is required.
- 2. Basic: Some aspects of the IPC core components are in place, but not sufficiently implemented. Further improvement is required.
- **3. 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.
- 4. Advanced: The IPC core components are fully implemented according to the WHO recommendations and appropriate to the needs of the facility.

Core component 1: Infection Prevention and Control (IPC) programme			
Question	Answer	Score	
1. Do you have an IPC programme? ³ Choose one answer	□ No	0	
Choose one answer	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 of	□ No	0	
IPC professionals? ⁴ Choose one answer	☐ Not a team, <i>only</i> an IPC focal person	5	
	☐ Yes	10	
3. Does the IPC team have at least one full-time IPC professional or equivalent (nurse or doctor working 100% in IPC) available?	☐ No IPC professional available	0	
Choose one answer	☐ No, <i>only</i> a part-time IPC professional available	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 activities?	□ No	0	
	☐ 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 team?	□ No	0	
	☐ Yes	10	
7. Are any of the following professional groups represented/included in the	PC committee?		
Senior facility leadership (for example, administrative director, chief executive officer [CEO], medical director)	□ No	5	
	☐ Yes	0	
Senior clinical staff (for example, physician, nurse)	□ No	2.5	
	☐ Yes	0	
Facility management (for example, biosafety, waste, and those tasked with	□ No	2.5	
addressing water, sanitation, and hygiene [WASH])	Yes	0	
8. Do you have clearly defined IPC objectives (that is, in specific critical	_	2.5	
areas)? Choose one answer	∐ No		
	Yes, IPC objectives <i>only</i>		
	Yes, IPC objectives <u>and</u> measurable outcome indicators (that is, adequate measures for improvement)	5	
	\square Yes, IPC objectives, measurable outcome indicators \underline{and} set future targets	10	
9. Does the senior facility leadership show clear commitment and support fo	r the IPC programme?		
By an allocated budget specifically for the IPC programme (that is, covering IPC activities, including salaries)?	□ No	0	
- ,	☐ Yes	5	

2 INFECTION PREVENTION AND CONTROL ASSESSMENT FRAMEWORK AT THE FACIL	LITY LEVEL		
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
10. Does your facility have microbiological laboratory support (either	□ No		0
present on or off site) for routine day-to-day use? Choose one answer	Yes, but not delivering results reliably (timely and quality)	of sufficient	5
	Yes, and delivering results reliably (timely and of suffic	cient quality)	10
Subtotal score			/100
IPC programmes should have clearly defined <i>objectives</i> based on local epidemiology and priorities of health care-associated infections and antimicrobial resistance in health care. They should also <i>national and acute health care facility level</i> for more information (http://www.who.int/infection-4 IPC professional: medical or nursing staff trained in a certified IPC course. An IPC committee is a multidisciplinary group with interested stakeholders across the facility, whice IPC programme.	o include dedicated, trained IPC professionals. See the WHO Guidelines on core co- -prevention/publications/core-components/en/, accessed 13 April 2018). ch interacts with and advises the IPC team. An IPC team includes dedicated IPC prof	omponents of IPC prog	grammes at t
Core component 2: Infection Prevention and	Control (IPC) guidelines	Amouse	Seeme
Question 1. Does your facility have the expertise (in IPC and/or infectious diseases)) for developing or adapting guidelines?	Answer	Score 0
	,	☐ Yes	7.5
2. Does your facility have guidelines available for:		□ Yes	
		□ No	0
Standard precautions?		Yes	2.5
		□ No	0
Hand hygiene?		☐ Yes	2.5
		□ No	0
Transmission-based precautions? ⁶		☐ Yes	2.5
Outhors I was a series and a series and a series		□ No	0
Outbreak management and preparedness?		☐ Yes	2.5
Prevention of surgical site infection?		□ No	0
Prevention of surgical site infections:		☐ Yes	2.5
Prevention of vascular catheter-associated bloodstream infections?		□ No	0
Trevention of vascalar current associated bloodstream incedions:		☐ Yes	2.5
Prevention of hospital-acquired pneumonia ([HAP]; all types of HAP, includ	ding (but not exclusively) ventilator-associated pneumonia)?	☐ No	0
,		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	0
Disinfection and sterilization?		□ No	2.5
		Yes	0
Health care worker protection and safety ⁸		□ No	2.5

Injection safety?

0

☐ No

/100

III Zenovine comice / issessment mineral	KAT THE TACIETY	
	☐ Yes	2.5
West,	□ No	0
Waste management?	☐ Yes	2.5
	□ No	0
Antibiotic stewardship?9	☐ Yes	2.5
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 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 Stat 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 & Stewardship to Combat Antimicrobial Resistance (http://www.who.int/phi/implementation/research/UpdatedRoadmap-Global-Framework-for-Development-Stewardship-toco accessed 29 March 2018).		
3. Are the guidelines in your facility consistent with national/international guidelines (if they exist)?	□ No	0
	☐ Yes	10
4. Is implementation of the guidelines adapted 10 according to the local needs and resources while maintaining key IPC standards?	□ No	0
	☐ Yes	10
5. Are frontline health care workers involved in <u>both</u> planning and executing the implementation of IPC guidelines in addition to IPC personnel?	□ No	0
	☐ Yes	10
6. Are relevant stakeholders (for example, lead doctors and nurses, hospital managers, quality management) involved in the development and adaptation of the IPC guidelines in addition to IPC personnel?	□ No	0
acceptance and california of the fire galactines in addition to the personner.	☐ Yes	7.5
7. Do health care workers receive specific training related to new or updated IPC guidelines introduced in the facility?	□ No	0
	☐ Yes	10
8. Do you regularly monitor the implementation of at least some of the IPC guidelines in your facility?	□ No	0
	Yes	10

Subtotal score

¹⁰ IPC team carefully reviews guidelines to prioritize activities according to needs and resources while maintaining key IPC standards.

Core component 3: Infection Prevention and Co	ontrol (IPC) education and training	
Question	Answer	Score
1. Are there personnel with the IPC expertise (in IPC and/or infectious diseases) to lead IPC training?	□ No	0
	☐ Yes	10
2. Are there additional non-IPC personnel with adequate skills to serve as trainers and mentors (for example, link nurses or doctors, champions)? Choose one answer	□ No	0
champions): Choose one answer	Yes	10
3. How frequently do health care workers receive training regarding IPC in your facility?	☐ Never or rarely	0
Choose one answer	New employee orientation <i>only</i> for health care workers	5
	\square New employee orientation <u>and</u> regular (at least annually) IPC training for health care workers offered but not mandatory	10
	☐ New employee orientation <u>and</u> 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 facility?	☐ Never or rarely	0
Choose one answer	☐ New employee orientation <i>only</i> for other personnel	5
	New employee orientation <u>and</u> regular (at least annually) training for other personnel offered but not mandatory	10
	☐ New employee orientation <u>and</u> 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
Choose one answer	New employee orientation only for other personnel New employee orientation and regular (at least annually) training for other personnel offered but not mandatory New employee orientation and regular (at least annually) mandatory IPC training for other personnel	
6. How are health care workers and other personnel trained?	☐ No training available	0
Choose one answer	_	5
		10
7. Are there periodic evaluations of the effectiveness of training programmes (for example, hand hygiene audits, other checks on	□ No	0
knowledge)? Choose one answer	☐ Yes, but not regularly	5
	Yes, regularly (at least annually)	10
8. Is IPC training integrated in the clinical practice and training of other specialties (for example, training of surgeons involves aspects of IPC)?	□ No	0
Choose one answer	Yes, in some disciplines	5
	Yes, in all disciplines	10
 Is there specific IPC training for patients or family members to minimize the potential for health care-associated infections (for example, immunosuppressed patients, patients with invasive devices, 	□ No	0
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
	Yes	10
Subtotal score		/100
Core component 4: Health care-associated infe	ction (HAI) surveillance	
Question	Answer	Score
Organization of surveillance		

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 been trained in basic epidemiology, surveillance and IPC (that is, capacity to	□ No	0
oversee surveillance methods, data management and interpretation)?	Yes	5
4. Do you have informatics/IT support to conduct your surveillance (for example, equipment, mobile technologies, electronic health records)?	□ No	0
example, equipment, mobile technologies, electronic nearth records):	☐ Yes	5
Priorities for surveillance - defined according to the scope of care		
5. Do you go through a prioritization exercise to determine the HAIs to be targeted for surveillance according to the local context (that is, identifying	□ No	0
infections that are major causes of morbidity and mortality in the facility)? ¹¹	Yes	5
6. In your facility is surveillance conducted for:	_	
Surgical site infections? ¹²	□ No	0
	Yes	2.5
Device-associated infections (for example, catheter-associated urinary tract infections, central line-associated bloodstream infections, peripheral-line associated bloodstream infections, ventilator-associated pneumonia)?	□ No	0
associated should remine the should be should	Yes	2.5
Clinically-defined infections (for example, definitions based only on clinical signs or symptoms in the absence of microbiological testing)?	□ No	0
	☐ Yes	2.5
Colonization or infections caused by multidrug-resistant ¹³ pathogens according to your local epidemiological situation?	□ No	0
	☐ Yes	2.5
Local priority epidemic-prone infections (for example, norovirus, influenza, tuberculosis [TB], severe acute respiratory syndrome [SARS], Ebola, Lassa	□ No	0
fever)?	☐ Yes	2.5
Infections in vulnerable populations (for example, neonates, intensive care unit, immunocompromised, burn patients)? ¹⁴	□ No	0
	Yes	2.5
Infections that may affect health care workers in clinical, laboratory, or other settings (for example, hepatitis B or C, human immunodeficiency virus [HIV], influenza)?	□ No	0
illidenza):	Yes	2.5
7. Do you regularly evaluate if your surveillance is in line with the current needs and priorities of your facility $\mathbf{?}^{11}$	□ No	0
	Yes	5
11 A prioritization exercise should be undertaken to determine which HAIs to target for surveillance acc Interim practical manual supporting implementation of the WHO Guidelines on Core Compone components/enf. 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".	
Methods of surveillance		
8. Do you use reliable surveillance case definitions (defined numerator and denominator according to international definitions [e.g. CDC	□ No	0
NHSN/ECDC] ¹⁵ or if adapted, through an evidence-based adaptation process and expert consultation?	☐ Yes	5

6 INFECTION PREVENTION AND CONTROL ASSESSMENT FRAMEWORK AT THE FACILITY LEVEL			
9. Do you use standardized data collection methods (for exa prospective surveillance) according to international surveilla (for example, CDC NHSN/ECDC) or if adapted, through an event of the control o	nce protocols	□ No	0
adaptation process and expert consultation?		☐ Yes	5
10. Do you have processes in place to regularly review data example, assessment of case report forms, review of microb		□ No	0
results, denominator determination, etc.)?		☐ Yes	5
11. Do you have adequate microbiology and laboratory capa support surveillance?	icity to	□ No	0
Choose one answer		Yes, can differentiate gram-positive/negative strains <u>but</u> cannot identify pathogens	2.5
		Yes, can reliably identify pathogens (for example, isolate identification) in a timely manner	5
		Yes, can reliably identify pathogens <u>and</u> antimicrobial drug resistance patterns (that is, susceptibilities) in a timely manner	10
Information analysis and dissemination/data use, linkage, and			
12. Are surveillance data used to make tailored unit/facility- for the improvement of IPC practices?	based plans	□ No	0
		Yes	5
13. Do you analyze antimicrobial drug resistance on a regula example, quarterly/half-yearly/annually)?	r basis (for	□ No	0
		☐ Yes	5
14. Do you regularly (for example, quarterly/half-yearly/ann	ually) feedback	up-to-date surveillance information to:	
Frontline health care workers (doctors/nurses)?		□ No	0
		Yes	2.5
Clinical leaders/heads of department		□ No	0
		☐ Yes	2.5
IPC committee		□ No	0
		☐ Yes	2.5
Non-clinical management/administration (chief executive off financial officer)?	cer/chief	□ No	0
indical officery:		☐ Yes	2.5
15. How do you feedback up-to-date surveillance informatic (at least annually) Choose one answer	n?	☐ No feedback	0
		☐ By written/oral information <i>only</i>	2.5
		☐ By presentation <u>and</u> interactive problem-orientated solution finding	7.5
Subtotal score			/100
15 United States Centers for Disease Control and Prevention (CDC) National Health European Centre for Disease Prevention and Control (ECDC) (https://		(NHSN) (https://www.cdc.gov/nhsn/index.html, accessed 13 April 2018); /about-us/partnerships-and-networks/disease-and-laboratory-networks/hai-net, accessed 13 April	2018).
Core component 5: Multimodal strat control (IPC) interventions	egies16 for	r implementation of infection prevention and	
Question	Answer		Score
	□ No		0

1. Do you use multimodal strategies ¹⁶ to implement IPC interventions?	Yes	15
2. Do your multimodal strategies include any or all of the following elements:	System change	0
Choose one answer (the most accurate) per element	☐ Element not included in multimodal strategies	0
	☐ Interventions to ensure the necessary infrastructure and continuous availability of supplies are in place	5
	Interventions to ensure the necessary infrastructure and continuous availability of supplies are in place <u>and</u> 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 <u>and</u> providing timely feedback of monitoring results to health care workers and key players	10
	Communications and reminders	
	☐ Element not included in multimodal strategies	0
	$\hfill\square$ 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
	☐ Managers/leaders show visible support and act as champions and role models, promoting an adaptive approach¹8 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
to achieve sustained system and behavioural change for the implementation of II change behavior (for example, hand hygiene practices). Components can include (of health care workers and key players (for example, managers), (iii) monitoring culture change within the establishment or the strengthening of a safety climate. I areas should be considered and necessary action taken, based on the local contexthese five elements (that is, using a "unimodal" strategy) is more likely to result in For more information, please see: https://www.who.int/infection-prevention/p	mis.pdf?ua=1, accessed 13 April 2018. The use of multimodal strategies in IPC has been shown to be the best evidence of Cinterventions. Multimodal strategy: 23 components implemented in an integrated way to achieve improvement of an injusted in the properties of the processor of the injusted in the macroscopic of the processor, outcomes and providing data feedback; (iv) reminders in the workplace/communicat also includes tools, such as checklists and bundles, developed by multidisciplinary teams that take into account local contat and situation informed by periodic assessments. Lessons from the field of implementation science suggest that targeti improvements that are short-lived and not sustainable. **weblications/ipc-cc-mis.pdf?ua=1**, accessed 13 April 2018 and the Interim practical manual supporting implementation at http://www.who.int/infection-prevention/tools/core-components/en/ , accessed 3 April 2018.	n outcome and on and training ations; and (v) ditions. All five ing only one of
-	nd elements of a system to optimize human well-being and overall system performance and prevent human error. More in	nformation at:
	exity in health care systems. They aim to improve the local safety climate and motivate local teams to consistently perform ring leadership, improving collaborations and team work, and facilitating staff ownership of the intervention. More in ndex.html, accessed 13 April 2018.	
3. Is a multidisciplinary team used to implement IPC multimodal strategies?	□ No	0
	Yes	15
4. Do you regularly link to colleagues from quality improvement and patient safety to develop and promote IPC multimodal strategies?	□ No	0
ii e maitimouai strategies:	☐ Yes	10
5. Do these strategies include bundles ¹⁹ or checklists?	□ No	0

	□ Yes 1	10
Subtota	al score /	/100

INFECTION PREVENTION AND CONTROL ASSESSMENT FRAMEWORK AT THE FACILITY LEVEL

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 which are a much more comprehensive approach.

Core component 6: Monitoring/audit of IPC pra	actices and feedback	
Question	Answer	Score
Do you have trained personnel responsible for monitoring/audit of IPC practices and feedback?	□ No	0
	☐ Yes	10
2. Do you have a well-defined monitoring plan with clear goals, targets and activities (including tools to collect data in a systematic way)?	□ No	0
	Yes	7.5
3. Which processes and indicators do you monitor in your facility? Tick all that apply	☐ None	0
	Hand hygiene compliance (using the WHO hand hygiene observation tool ²⁰ or equivalent)	5
	☐ Intravascular catheter insertion and/or care	5
	☐ Wound dressing change	5
	☐ Transmission-based precautions and isolation to prevent the spread of multidrug resistant organisms (MDRO)	5
	☐ 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 Framework Survey ²¹ undertaken?	□ Never	0
Choose one answer	Periodically, <u>but</u> no regular schedule	2.5
	At least annually	5
5. Do you feedback auditing reports (for example, feedback on hand hygiene compliance data or other processes) on the state of the IPC	☐ No reporting	0
activities/performance? Tick all that apply	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 and senior administration	2.5
6. Is the reporting of monitoring data undertaken regularly (at least annually)?	□ No	0
	☐ Yes	10
7. Are monitoring and feedback of IPC processes and indicators performed in a "blame-free" institutional culture aimed at improvement and	□ No	0
behavioural change?	☐ Yes	5
8. Do you assess safety cultural factors in your facility (for example, by using other surveys such as HSOPSC, SAQ, PSCHO, HSC ²²)	□ No	0
asing other surveys such as noorse, say, round, noon	Yes	5
Subtotal score		/100

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).

Question	Answer	Score
Staffing		
Are appropriate staffing levels assessed in your facility according to patient workload using national standards or a standard staffing needs	□ No	0
assessment tool such as the WHO Workload indicators of staffing need ²⁴ method?	Yes	5
2. Is an agreed (that is, WHO or national) ratio of health care workers to patients ²⁵ maintained across your facility?	□ No	0
Choose one answer	Yes, for staff in less than 50% of units	5
	Yes, for staff in more than 50% of units	10
	Yes, for all health care workers in the facility	15
3. Is a system in place in your facility to act on the results of the staffing needs assessments when staffing levels are deemed to be too low?	□ No	0
_	☐ Yes	10
Bed occupancy	1	-
4. Is the design of wards in your facility in accordance with international standards ²⁶ regarding bed capacity?	□ No	0
Choose one answer	Yes, but only in certain departments	5
	Yes, for all departments (including emergency department and pediatrics)	15
5. Is bed occupancy in your facility kept to one patient per bed? Choose one answer	□ No	0
	Yes, <u>but</u> only in certain departments	5
	Yes, for all units (including emergency departments and pediatrics)	15
6. Are patients in your facility placed in beds standing in the corridor outside of the room (including beds in the emergency department)?	Yes, more frequently than twice a week	0
Choose one answer	Yes, less frequently than twice a week	5
	□ No	15
7. Is adequate spacing of > 1 meter between patient beds ensured in your facility?	□ No	0
Choose one answer	Yes, <u>but</u> only in certain departments	5
	$\hfill \square$ Yes, for all departments (including emergency department and pediatrics)	15
8. Is a system in place in your facility to assess and respond when adequate bed capacity is exceeded?	□ No	0
Choose one answer	Yes, this is the responsibility of the head of department	5
	Yes, this is the responsibility of the hospital administration/management	10
Subtotal score		/100
23 Particularly for these questions, the IPC team may need to consult with other relevant teams in the fa 24 The WHO Workload indicators of staffing need method provides health managers with a systematic health facility and aid decision-making (http://www.who.int/hrh/resources/wisn_user_manual/en/ 25 Taking into account all health care workers involved in service delivery and patient care, including cli (for example, cleaners).	way to determine how many health workers of a particular type are required to cope with the workl, accessed 13 April 2018). nical staff (doctors, nurses, dentists, medical assistants, etc.), laboratory technicians and other health	n care workers
26 The WHO Essential environmental health standards in health care guidance provides guidance on sta by health managers and planners, architects, urban planners, water and sanitation staff, clin water sanitation health/publications/ehs_hc/en/, accessed 13 April 2018).	ical and nursing staff, carers and other health care providers, and health promoters (

Are water services available at all times and of sufficient quantity for all uses (for example, hand washing, drinking, personal hygiene, medical activities, sterilization, decontamination, cleaning and laundry)?	Yes, available on average ≥ 5 days per week or every day <u>but</u> not of sufficient quantity	2.5
Choose one answer	Yes, every day <u>and</u> of sufficient quantity	7.5
2. Is a reliable safe drinking water station present and accessible for staff, patients and families at all times and in all locations/wards?	☐ No, not available	0
Choose one answer	Sometimes, or only in some places or not available for all users	2.5
	Yes, accessible at all times <u>and</u> for all wards/groups	7.5
Hand hygiene and sanitation facilities		ı
3. Are functioning hand hygiene stations (that is, alcohol-based handrub	☐ No, not present	0
solution or soap and water and clean single-use towels) available at all points of care?	Yes, stations present, <u>but</u> supplies are not reliably available	2.5
Choose one answer	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? Choose one answer	Less than required number of toilets or latrines available and functioning	
choose one unsuch	Sufficient number present <u>but</u> not all functioning	2.5
	Sufficient number present <u>and</u> 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 boiling water,	□ No	0
sterilization and decontamination, incineration or alternative treatment technologies, electronic medical devices, general lighting of areas where health care procedures are performed to ensure safe provision of health care and lighting of toilet facilities and showers)? Choose one answer	Yes, sometimes or only in some of the mentioned areas	2.5
	Yes, always <u>and</u> in all mentioned areas	5
6. Is functioning environmental ventilation (natural or mechanical ²⁹) available in patient care areas?	□ No	0
aranasie in parient care areas.	☐ Yes	and of sufficient quantity ble or only in some places or not available for all users at all times and for all wards/groups 7.5 at all times and leads 7.5 at all ti
7. For floors and horizontal work surfaces, is there an accessible record of	☐ No record of floors and surfaces being cleaned	0
cleaning, signed by the cleaners each day? Choose one answer	Record exists, <u>but</u> 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 (for example, detergent, mops, buckets, etc.) available?	☐ No materials available	0
Choose one answer	Yes, available <u>but</u> not well maintained	2.5
	Yes, available <u>and</u> well-maintained	5
27 This component can be assessed in more detail using the WHO Water and sanitation for health facility for-health-facility-improvement-tool/en/, accessed13 April 2018). Particularly for these questions, the and accurately.		
28 Improved sanitation facilities include flush toilets into a managed sewer or septic tank and soak-away door that is unlocked when not in use (or for which a key is available at any time) and can be locked should not be blocked, water should be available for flush/pour flush toilets. It should be within the gr	from the inside during use. There should be no major holes or cracks or leaks in the toilet structure,	the hole or pit
29 Natural ventilation: outdoor air driven by natural forces (for example, winds) through building purpose- air driven by mechanical vans installed directly in windows or walls or in air ducts water sanitation health/publications/natural ventilation/en/, accessed 13 April 2018.		
Patient placement and personal protective equipment (PPE) in health care so	ettings	
9. Do you have single patient rooms or rooms for cohorting ³⁰ patients with	□ No	0
similar pathogens if the number of isolation rooms is insufficient (for example, TB, measles, cholera, Ebola, SARS)? ³¹ Choose one answer	☐ No single rooms <u>but rather</u> rooms suitable for patient cohorting available	2.5
	Yes, single rooms are available	7.5
10. Is PPE ³² available at all times and in sufficient quantity for all uses for	□ No	0
all health care workers? Choose one answer	Yes, but not continuously available in sufficient quantities	2.5

2 INFECTION PREVENTION AND CONTROL ASSESSMENT FRAMEWORK AT THE FACILIT	Y LEVEL		
	Yes, continuously available in sufficient q	uantities	7.5
Medical waste management and sewage			
11. Do you have functional waste collection containers for non-infectious (general) waste, infectious waste and, sharps waste in close proximity to all waste generation points? Choose one answer	 □ No bins or separate sharps disposal □ Separate bins present <u>but</u> lids missing or more than 3/4 full; <u>only</u> two bins (instead of three); <u>or</u> bins at some but not all waste generation points 		2.5
	☐ Yes		5
12. Is a functional burial pit/fenced waste dump or municipal pick-up available for disposal of non-infectious (non-hazardous/ general	☐ No pit or other disposal method used		0
waste)? Choose one answer	Pit in facility <u>but</u> insufficient dimensions; fenced/locked; <u>or</u> irregular municipal waste		2.5
	Yes		5
13. Is an incinerator or alternative treatment technology for the treatment of infectious and sharp waste (for example, an autoclave) present (either	☐ No, none present		0
present on or off site and operated by a licensed waste management service), functional and of a sufficient capacity? Choose one answer	Present, <u>but</u> not functional		1
	Yes		5
14. Is a wastewater treatment system (for example, septic tank followed by drainage pit) present (either on or off site) and functioning reliably?	☐ No, not present		0
Choose one answer	Yes, <u>but</u> not functioning reliably		2.5
	Yes <u>and</u> functioning reliably		5
Decontamination and sterilization			
15. Does your health care facility provide a dedicated decontamination area and/or sterile supply department (either present on or off site and operated by a licensed decontamination management service) for the decontamination and sterilization of medical devices and other items/equipment?	☐ Yes, but not functioning reliably		2.5
Choose one answer	☐ Yes and functioning reliably		5
16. Do you reliably have sterile and disinfected equipment ready for use? Choose one answer	☐ No, available on average < five days per week		0
	☐ Yes, available on average ≥ five days per week or every day, <u>but</u> not of sufficient quantity		2.5
	Yes, available every day <u>and</u> of sufficient	quantity	5
17. Are disposable items available when necessary? (for example, injection safety devices, examination gloves) Choose	☐ No, not available		0
one answer	Yes, <u>but</u> only sometimes available		2.5
	Yes, continuously available		5
Subtotal score			/100
Cohorting strategies should be based on a risk assessment conducted by the IPC team. Negative pressure ventilation conditions in isolation rooms may be necessary to prevention transmiss. Personal Protective Equipment (PPE): Medical non-sterile and surgical sterile gloves, surgical masks, gadequate quantities in all facilities for use when necessary. Interpretation: A three-step process		PPE. Respirators and aprons should also	be availabl
. Add up your points			
Section (Core component)		Score Subtotals	
1. IPC programme			
2. IPC guidelines			

3. IPC education and training $% \left(1\right) =\left(1\right) \left(1\right) \left($

4. HAI surveillance	
5. Multimodal strategies	
6. Monitoring/audits of IPC practices and feedback	
7. Workload, staffing and bed occupancy	
8. Built environment, materials and equipment for IPC at the facility level	
Final total score	/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
201–400	Basic
401–600	Intermediate
601–800	Advanced

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 Programmes² 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.