



# Hand Hygiene Self-Assessment Framework

## Introduction and user instructions

The Hand Hygiene Self-Assessment Framework is a systematic tool with which to obtain a situation analysis of hand hygiene promotion and practices within an individual health-care facility.

### What is its purpose?

While providing an opportunity to reflect on existing resources and achievements, the Hand Hygiene Self-Assessment Framework also helps to focus on future plans and challenges. In particular, it acts as a diagnostic tool, identifying key issues requiring attention and improvement. The results can be used to facilitate development of an action plan for the facility's hand hygiene promotion programme. Repeated use of the Hand Hygiene Self-Assessment Framework will also allow documentation of progress with time.

Overall, this tool should be a catalyst for implementing and sustaining a comprehensive hand hygiene programme within a health-care facility.

## Who should use the Hand Hygiene Self-Assessment Framework?

This tool should be used by professionals in charge of implementing a strategy to improve hand hygiene within a health-care facility. If no strategy is being implemented yet, then it can also be used by professionals in charge of infection control or senior managers at the facility directorate. The framework can be used globally, by health-care facilities at any level of progress as far as hand hygiene promotion is concerned.

#### How is it structured?

The Hand Hygiene Self-Assessment Framework is divided into five components and 27 indicators. The five components reflect the five elements of the WHO Multimodal Hand Hygiene Improvement Strategy (http://www.who.int/gpsc/5may/tools/en/index.html) and the indicators have been selected to represent the key elements of each component. These indicators are based on evidence and expert consensus and have been framed as questions with defined answers (either "Yes/No" or multiple options) to facilitate self-assessment. Based on the score achieved for the five components, the facility is assigned to one of four levels of hand hygiene promotion and practice: Inadequate, Basic, Intermediate and Advanced.

**Inadequate:** hand hygiene practices and hand hygiene promotion are deficient. Significant improvement is required.

**Basic:** some measures are in place, but not to a satisfactory standard. Further improvement is required.

**Intermediate:** an appropriate hand hygiene promotion strategy is in place and hand hygiene practices have improved. It is now crucial to develop long-term plans to ensure that improvement is sustained and progresses.

**Advanced:** hand hygiene promotion and optimal hand hygiene practices have been sustained and/or improved, helping to embed a culture of safety in the health-care setting.

Leadership criteria have also been identified to recognise facilities that are considered a reference centre and contribute to the promotion of hand hygiene through research, innovation and information sharing. The assessment according to leadership criteria should only be undertaken by facilities having reached the Advanced level.

#### How does it work?

While completing each component of the Hand Hygiene Self-Assessment Framework, you should circle or highlight the answer appropriate to your facility for each question. Each answer is associated with a score. After completing a component, add up the scores for the answers you have selected to give a subtotal for that component. During the interpretation process these subtotals are then added up to calculate the overall score to identify the hand hygiene level to which your health-care facility is assigned.

The assessment should not take more than 30 minutes, provided that the information is easily available.

Within the Framework you will find a column called "WHO implementation tools" listing the tools made available from the WHO First Global Patient Safety Challenge to facilitate the implementation of the WHO Multimodal Hand Hygiene Improvement Strategy (http://www.who.int/gpsc/5may/tools/en/index.html). These tools are listed in relation to the relevant indicators included in the Framework and may be useful when developing an action plan to address areas identified as needing improvement.

## Is the Hand Hygiene Self-Assessment Framework suitable for inter-facility comparison?

Health-care facilities or national bodies may consider adopting this tool for external comparison or benchmarking. However, this was not a primary aim during the development of this tool. In particular, we would draw attention to the risks inherent in using a self-reported evaluation tool for external benchmarking and also advise the use of caution if comparing facilities of different sizes and complexity, in different socioeconomic settings. It would be essential to consider these limitations if inter-facility comparison is to be undertaken.



## 1. System Change

Question	Answer	Score	WHO improvement tools	
.1	Not available	0	Ward Infrastructure Survey	
How easily available is alcohol-based handrub in your health-care facility?	Available, but efficacy <sup>1</sup> and tolerability <sup>2</sup> have not been proven	0	Protocol for Evaluation of Tolerability and Acceptability of Alcohol-based Handrub	
Choose one answer	Available only in some wards or in discontinuous supply (with efficacy <sup>1</sup> and tolerability <sup>2</sup> proven)	5	in Use or Planned to be Introduced:Method 1 Guide to Implementation II.1	
	Available facility-wide with continuous supply (with efficacy <sup>1</sup> and tolerability <sup>2</sup> proven)	10		
	Available facility-wide with continuous supply, and at the point of care <sup>3</sup> in the majority of wards (with efficacy <sup>1</sup> and tolerability <sup>2</sup> proven)	30		
	Available facility-wide with continuous supply at each point of care³ (with efficacy¹ and tolerability² proven)	50		
<b>1.2</b> What is the sink:bed ratio?	Less than 1:10	0	Ward Infrastructure Survey Guide to Implementation II.1	
Choose one answer	At least 1:10 in most wards	5		
	At least 1:10 facility-wide and 1:1 in isolation rooms and in intensive care units	10		
1.3	No	0	Ward Infrastructure Survey	
Is there a continuous supply of clean, running water <sup>4</sup> ?	Yes	10	Guide to Implementation II.1	
1.4	No	0	Ward Infrastructure Survey	
Is soap⁵ available at each sink?	Yes	10	Guide t Implementation II.1	
1.5	No	0	Ward Infrastructure Survey	
Are single-use towels available at each sink?	Yes	10	Guide to Implementation II.1	
1.6 Is there dedicated/available budget for the	No	0	Guide to Implementation II.1	
continuous procurement of hand hygiene products (e.g. alcohol-based handrubs)?	Yes	10		

Extra Question: Action plan

Answer this question ONLY if you scored less than 100 for questions 1.1 to 1.6:	No	0	Alcohol-based Handrub Planning and Costing Tool Guide to Local Production:
Is there realistic plan in place to improve the infrastructure <sup>6</sup> in your health-care facility?	Yes	5	WHO-recommended Handrub Formulations Guide to Implementation II.1
	System Change subtotal	/100	

- 1. Efficacy: The alcohol-based handrub product used should meet recognised standards of antimicrobial efficacy for hand antisepsis (ASTM or EN standards). Alcohol-based handrubs with optimal antimicrobial efficacy usually contain 75 to 85% ethanol, isopropanol, or n-propanol, or a combination of these products. The WHO-recommended formulations contain either 75% v/v isopropanol, or 80% v/v ethanol.
- 2. Skin tolerability: The alcohol-based handrub product is well tolerated by health-care workers skin (i.e. it does not harm or irritate the skin) when used in clinical care, as demonstrated by reliable data. The WHO Protocol for Evaluation of Tolerability and Acceptability of Alcohol-based Handrub in Use or Planned to be Introduced can be used as a reference.
- 3. Point of care: The place where three elements come together: the patient, the health-care worker, and care or treatment involving contact with the patient or his/her surroundings (within the patient zone). Point-of-care products should be accessible without having to leave the patient zone (ideally within arms reach of the health-care worker or within 2 meters).
- 4. Clean, running water: A water supply that is either piped in (or where this is not available, from onsite storage with appropriate disinfection) that meets appropriate safety standards for microbial and chemical contamination. Further details can be found in Essential environmental health standards in health care (Geneva, World Health Organization, 2008, http://whqlibdoc.who.int/publications/2008/9789241547239\_eng.pdf).
- **5. Soap:** Detergent-based products that contain no added antimicrobial agents, or may contain these solely as preservatives. They are available in various forms including bar soap, tissue, leaf, and liquid preparations.
- 6. Infrastructure: The "infrastructure" here referred to includes facilities, equipment, and products that are required to achieve optimal hand hygiene practices within the facility. Specifically, it refers to the indicators included in questions 1.1-1.5 and detailed in the WHO Guidelines on Hand Hygiene in Health Care 2009, Part I, Chapter 23.5 (e.g. availability of alcohol based handrub at all points of care, a continuous supply of clean, running water and a sink:bed ratio of at least 1:10, with soap and single-use towels at each sink).

#### 2. Training and Education Question Answer Score WHO improvement tools 2.1 Regarding training of health-care workers in your facility: Slides for Education Session for 2.1a How frequently do health-care 0 Never Trainers, Observers and Healthworkers receive training regarding hand At least once care Workers hygiene7 in your facility? Hand Hygiene Training Films Regular training for medical and nursing staff, or all Choose one answer Slides Accompanying the 10 professional categories (at least annually) Training Films Slides for the Hand Hygiene Mandatory training for all professional categories at commencement of employment, then ongoing regular 20 Hand Hygiene Technical training (at least annually) Reference Manual Hand Hygiene Why, How and 2.1b Is a process in place to confirm Λ Nο When Brochure that all health-care workers complete Yes 20 Guide to Implementation II.2 this training? Guide to Implementation II.2 2.2 Are the following WHO documents (available at www.who.int/gpsc/5may/tools), or similar local adaptations, easily available to all health-care workers? 2.2a The 'WHO Guidelines on Hand Nο 0 WHO Guidelines on Hand Hygiene in Health Care: A Summary Hygiene in Health-care: A Summary' Yes 5 2.2b The WHO 'Hand Hygiene Nο Hand Hygiene Technical Reference Manual Technical Reference Manual' Yes 5 Hand Hygiene Why, How and 2.2c The WHO 'Hand Hygiene: Why, No 0 When Brochure How and When' Brochure Yes 5 2.2d The WHO 'Glove Use Information' No 0 Glove Use Information Leaflet Leaflet 5 Yes WHO Guidelines on Hand 2.3 No 0 Hygiene in Health Care Is a professional with adequate skills8 Hand Hygiene Technical to serve as trainer for hand hygiene Reference Manual educational programmes active within the Yes 15 Hand Hygiene Training Films health-care facility? Slides Accompanying the 2.4 Training Films Nο 0 Is a system in place for training and Guide to Implementation II.2 validation of hand hygiene compliance Yes 15 observers? Template Letter to Advocate 2.5 Hand Hygiene to Managers Is there is a dedicated budget that allows 0 No Template Letter to for hand hygiene training? communicate Hand Hygiene Initiatives to Managers Template Action Plan Yes 10 Guide to Implementation II 2 and III.1 (page 33) /100 **Training and Education subtotal**

8. A professional with adequate skills: Medical staff or nursing staff trained in Infection Control or Infectious Diseases, whose tasks formally include dedicated time for staff training. In some settings, this could also be medical or nursing staff involved in clinical work, with dedicated time to acquire thorough knowledge of the evidence for and correct practice of hand hygiene (the minimum required knowledge can be found in the WHO Guidelines on Hand Hygiene in Health Care and the Hand Hygiene Technical Reference Manual).

<sup>7.</sup> Training in hand hygiene: This training can be done using different methods but the information conveyed should be based on the WHO multimodal hand hygiene improvement strategy or similar material. Training should include the following:

<sup>•</sup> The definition, impact and burden of health care-associated infection (HCAI)

Major patterns of transmission of health care-associated pathogens

<sup>•</sup> Prevention of HCAI and the critical role of hand hygiene

Indications for hand hygiene (based on the WHO 'My 5 Moments for Hand Hygiene' approach)

Correct technique for hand hygiene (refer to 'How to Handrub' and 'How to Hand Wash')

uestion		Answer	Score	WHO improvement to	
<b>3.1</b> Are regular (at least annual) ward-based audits undertaken to assess the availability of handrub, soap, single use towels and other hand hygiene resources?		No	0	Ward Infrastructure Survey Guide to Implementation II.3	
		Yes	10		
6.2 health care worker knowledge of the followi	ng topics assessed at lea	ast annually (e.g. after education s	essions)?		
3.2a. The indications for hand hygiene		No	0	Hand Hygiene Knowledge	
		Yes	5	Questionnaire for Health-Care Workers	
3.2b. The correct technique for hand hygi-	ene	No	0	Guide to Implementation II.3	
		Yes	5		
.3 Indirect Monitoring of Hand Hygiene (	Compliance				
3.3a Is consumption of alcohol-based har	ndrub monitored	No	0	Soap/Handrub Consumption	
regularly (at least every 3 months)?		Yes	5	Survey  Guide to Implementation II.3	
3.3b Is consumption of soap monitored re	egularly (at least every	No	0		
3 months)?		Yes	5		
3.3c Is alcohol based handrub consumpti 1000 patient-days?	on at least 20L per	No (or not measured) Yes	5		
nly complete section 3.4 if hand hygiene cor ly 5 Moments for Hand Hygiene' (or similar) 3.4a How frequently is direct observation	mpliance observers in you methodology of hand hygiene	ur facility have been trained and v	alidated and	WHO Hand Hygiene	
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# 4. Reminders in the Workplace

Question	Answer	Score	WHO improvement tools
<b>4.1</b>	Guide to Implementation II.4		
Are the following posters (or locally produced	d equivalent with similar content) displayed?		
4.1a Poster explaining the indications for hand hygiene	Not displayed	0	Your 5 Moments for Hand Hygiene (Poster)
	Displayed in some wards/treatment areas	15	Tryglone (Costor)
Choose one answer	Displayed in most wards/treatment areas	20	
	Displayed in all wards/treatment areas	25	
4.1b Poster explaining the correct use	Not displayed	0	How to Handrub (Poster)
of handrub	Displayed in some wards/treatment areas	5	
Choose one answer	Displayed in most wards/treatment areas	10	
	Displayed in all wards/treatment areas	15	
4.1c Poster explaining correct hand-	Not displayed	0	How to Handwash (Poster)
washing technique	Displayed in some wards/treatment areas	5	
Choose one answer	Displayed in most wards/treatment areas	7.5	
	Displayed at every sink in all wards/treatment areas	10	]
4.2  How frequently does a systematic audit of all posters for evidence of damage occur, with replacement as required?	Never	0	Guide to Implementation II.4
	At least annually	10	
Choose one answer	Every 2-3 months	15	
<b>4.3</b> Is hand hygiene promotion undertaken by	No	0	Guide to Implementation II.4
displaying and regularly updating posters other than those mentioned above?	Yes	10	
4.4	No	0	Hand Hygiene: When and How Leaflet
Are hand hygiene information leaflets available on wards?	Yes	10	Guide Implementation II.4
4.5 Are other workplace reminders located throughout the facility? (e.g. hand hygiene campaign screensavers, badges, stickers, etc)	No	0	SAVE LIVES: Clean Your Hands Screensaver Guide to Implementation II.4
	Yes	15	Saide to importentation it.4
	Reminders in the Workplace subtotal	/100	

Question	Answer	Score	WHO improvement tools
5.1			Guide to Implementation II.5
With regard to a hand hygiene team <sup>10</sup> that is dedicated to the promotion and implementation of optimal hand hygiene practice in your facility:			
5.1a Is such a team established?	No	0	
	Yes	5	
5.1b Does this team meet on a regular basis (at least monthly)?	No	0	
	Yes	5	
5.1c Does this team have dedicated time to conduct active hand hygiene promotion?	No	0	
(e.g. teaching monitoring hand hygiene performance, organizing new activities)	Yes	5	
<b>5.2</b> Have the following members of the facility leadership made a clear commitment to support hand le.g. a written or verbal commitment to hand hygiene promotion received by the majority of health	, ,		Template Letter to Advocate Hand Hygiene to Managers Template Letter to communicate Hand Hygiene
5.2a Chief executive officer	No	0	Initiatives to Managers
	Yes	10	Guide to Implementation II.5
5.2b Medical director	No	0	
	Yes	5	
5.2c Director of nursing	No	0	
	Yes	5	
<b>5.3</b> Has a clear plan for the promotion of hand hygiene throughout the entire facility for the 5	No	0	Sustaining Improvement  - Additional Activities for  Consideration by Health-Care
May (Save Lives Clean Your Hands Annual Initiative) been established?	Yes	10	Facilities Guide to Implementation II.5
<b>5.4</b> Are systems for identification of Hand Hygiene Leaders from all disciplines in place?			
5.4a A system for designation of Hand Hygiene champions <sup>11</sup>	No	0	
	Yes	5	
5.4b A system for recognition and utilisation of Hand Hygiene role models <sup>12</sup>	No	0	
	Yes	5	
<b>5.5</b> Regarding patient involvement in hand hygiene promotion:		Guidance on Engaging Patients and Patient Organizations in Hand Hygiene Initiatives	
5.5a Are patients informed about the importance of hand hygiene? (e.g. with a leaflet)	No	0	Guide to Implementation II.5
	Yes	5	
5.5b Has a formalised programme of patient engagement been undertaken?	No	0	
	Yes	10	
<b>5.6</b> Are initiatives to support local continuous improvement being applied in your facility, for example:			Sustaining Improvement  - Additional Activities for Consideration by Health-Care
5.6a Hand hygiene E-learning tools	No	0	Facilities
	Yes	5	Guide to Implementation II.5
5.6b A hand hygiene institutional target to be achieved is established each year	No	0	
	Yes	5	
5.6c A system for intra-institutional sharing of reliable and tested local innovations	No	0	
	Yes	5	
5.6d Communications that regularly mention hand hygiene e.g. facility newsletter,	No	0	
clinical meetings	Yes	5	
5.6e System for personal accountability <sup>13</sup>	No	0	
	Yes	5	
5.6f A Buddy system <sup>14</sup> for new employees	No	0	
	Yes	5	

Institutional Safety Climate subtotal

/100

- 10. Hand hygiene team: The make-up of this team will vary. It is likely to most frequently consist of an infection control unit, but may range (depending on resources available) from a single person with the role of managing the hand hygiene programme, to a group of staff members from various departments within the facility with meetings dedicated to the hand hygiene programme.
- 11. Hand hygiene champion: A person who is an advocate for the causes of patient safety and hand hygiene standards and takes on responsibility for publicizing a project in his/her ward and/or facility-wide.
- 12. Hand hygiene role model: A person who serves as an example, whose behaviour is emulated by others. In particular, a hand hygiene role model should have a hand hygiene compliance rate of at least 80%, be able to remind others to comply, and be able to teach practically about the WHO 5 Moments for Hand Hygiene concept.
- 13. System for personal accountability: explicit actions are in place to stimulate health-care workers to be accountable for their behaviour with regard to hand hygiene practices. Examples are notification by observers or infection control professionals, reproaches by peers, and reports to higher level facility authorities, with possible consequences on the individual evaluation.
- 14. Buddy system: A programme in which each new health-care worker is coupled with an established, trained health-care worker who takes responsibility for introducing them to the hand hygiene culture of the health-care setting (including practical training on indications and technique for performing hand hygiene, and explanation of hand hygiene promotion initiatives within the facility).

## **Interpretation:** A Four Step Process

## 1. Add up your points.

Score			
Component		Subtotal	
1. System Change	Э		
2. Education and	Training		
3. Evaluation and	Feedback		
4. Reminders in the Workplace			
5. Institutional Sat	fety Climate		
	Total		

2.

Determine the assigned 'Hand Hygiene Level' for your facility.

Total Score (range)	Hand Hygiene Level
0 - 125	Inadequate
126 - 250	Basic
251 - 375	Intermediate (or Consolidation)
376 - 500	Advanced (or Embedding)

3.

If your facility has reached the Advanced level, then complete the Leadership section overleaf.

(otherwise go to Step 4).

## 4.

Review the areas identified by this evaluation as requiring improvement in your facility and develop an action plan to address them (starting with the relevant WHO improvement tools listed). Keep a copy of this assessment to compare with repeated uses in the future.

Leadership Criteria		wer e one)
System Change		
Has a cost-benefit analysis of infrastructure changes required for the performance of optimal hand hygiene at the point of care been performed?	Yes	No
Does alcohol-based handrubbing account for at least 80% of hand hygiene actions performed in your facility?	Yes	No
Training and Education		
Has the hand hygiene team undertaken training of representatives from other facilities in the area of hand hygiene promotion?	Yes	No
Have hand hygiene principles been incorporated into local medical and nursing educational curricula?	Yes	No
Evaluation and Feedback		
Are specific healthcare associated infections (HCAIs) monitored? (eg. Staphylococcus aureus bacteremia, Gram negative bacteremia, device-related infections)	Yes	No
s a system in place for monitoring of HCAI in high risk-settings? (e.g. intensive care and neonatal units)	Yes	No
s a facility-wide prevalence survey of HCAI performed (at least) annually?	Yes	No
Are HCAI rates presented to facility leadership and to health-care workers in conjunction with hand hygiene compliance ates?	Yes	No
s structured evaluation undertaken to understand the obstacles to optimal hand hygiene compliance and the causes of HCAI at the local level, and results reported to the facility leadership?	Yes	No
Reminders in the Workplace		
s a system in place for creation of new posters designed by local health-care workers?	Yes	No
Are posters created in your facility used in other facilities?	Yes	No
Have innovative types of hand hygiene reminders been developed and tested at the facility?	Yes	No
nstitutional Safety Climate		
Has a local hand hygiene research agenda addressing issues identified by the WHO Guidelines as requiring further nvestigation been developed?	Yes	No
Has your facility participated actively in publications or conference presentations (oral or poster) in the area of hand hygiene?	Yes	No
Are patients invited to remind health-care workers to perform hand hygiene?	Yes	No
Are patients and visitors educated to correctly perform hand hygiene?		No
Does your facility contribute to and support the national hand hygiene campaign (if existing)?		No
s impact evaluation of the hand hygiene campaign incorporated into forward planning of the infection control programme?	Yes	No
Does your facility set an annual target for improvement of hand hygiene compliance facility-wide?	Yes	No
f the facility has such a target, was it achieved last year?	Yes	No
Total		

Your facility has reached the Hand Hygiene Leadership level if you answered "yes" to at least one leadership criteria per category and its total leadership score is 12 or more. Congratulations and thank you!