

RESOURCE CONSIDERATIONS FOR INVESTING IN HAND HYGIENE IMPROVEMENT IN HEALTH CARE FACILITIES



# RESOURCE CONSIDERATIONS FOR INVESTING IN HAND HYGIENE IMPROVEMENT IN HEALTH CARE FACILITIES



Resource considerations for investing in hand hygiene improvement in health care facilities

ISBN 978-92-4-002588-2 (electronic version) ISBN 978-92-4-002589-9 (print version)

#### © World Health Organization 2021

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; <u>https://creativecommons.org/licenses/by-nc-sa/3.0/igo</u>).

Under the terms of this licence, you may copy, redistribute and adapt the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: "This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition".

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization (<u>http://www.wipo.int/amc/en/mediation/rules/</u>).

**Suggested citation.** Resource considerations for investing in hand hygiene improvement in health care facilities. Geneva: World Health Organization; 2021. Licence: <u>CC BY-NC-SA 3.0 IGO</u>.

Cataloguing-in-Publication (CIP) data. CIP data are available at http://apps.who.int/iris.

**Sales, rights and licensing.** To purchase WHO publications, see http://apps.who.int/bookorders. To submit requests for commercial use and queries on rights and licensing, see <u>http://www.who.int/about/licensing</u>.

**Third-party materials.** If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

**General disclaimers.** The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO be liable for damages arising from its use.

Graphic design by Maraltro.

### Contents

VI	Acknowledgements
1	Part 1. Introduction
1	1.1 Focus and purpose
1	1.2 Intended audience
1	1.3 Background
2	1.4 Brief overview of the MMIS
2	1.5 How health facilities can understand their situation and address all five
	elements of the MMIS
3	1.6 Using this document
5	Part 2. Needs and resource considerations for implementation of MMIS
5	Table 1. System change (Build it)
6	Tools to support estimation of required resources
6	Other supporting actions
7	Table 2. Training and Education (teach it)
8	Tools to support estimation of required resources
8	Other supporting actions
9	Table 3. Monitoring and feedback (check it)
10	Tools to support estimation of required resources
10	Other supporting actions
11	Table 4. Reminders and communications (sell it)
11	Tools to support estimation of required resources
12	Other supporting actions
13	Table 5. Safety climate/culture change (live it)
13	Tools to support estimation of required resources
14	Other supporting actions
15	References
16	Annex

#### Acknowledgements

This document was developed by the World Health Organization (WHO) Department of Integrated Health Services (Universal Health Coverage and Life Course division). WHO gratefully acknowledges the contributions that many individuals and organizations have made to the development of this document.

#### Overall coordination, writing and design of the document

Benedetta Allegranzi (Department of Integrated Health Services, WHO) and Julie Storr (IPC consultant, United Kingdom) coordinated and led the development of this document; Julie Storr led the writing.

The following staff and experts contributed to the content development and review of the document and are gratefully acknowledged.

Alessandro Cassini (Department of Integrated Health Services, WHO), Michele Cecchini (Public Health, Organisation for Economic Co-operation and Development), Ana Paula Coutinho- Rehse (WHO Regional Office for Europe), Claire Kilpatrick (IPC consultant, United Kingdom), Andrew Mirelman (Department of Health Governance and Financing, WHO), Margaret Montgomery (Water, Sanitation, Hygiene and Health Unit, WHO), Ece Özçelik (Public Health, Organisation for Economic Co-operation and Development), Pierre Parneix (Nouvelle Aquitaine, Healthcare-Associated Infection Control Centre, France), Anthony Twyman (Department of Integrated Health Services, WHO), Anne-Gaëlle Venier (National Support Mission for Healthcare-associated Infection Prevention, France), Dr. Lee Yew Fong ( Sarawak General Hospital, Ministry of Health, Malaysia).

#### **1.1 Focus and purpose**

Investment in all the drivers and facilitators of hand hygiene action in health care to ensure that it occurs at the point of care and other critical moments requires a multidisciplinary, multifaceted approach. WHO describes such an approach as a **"multimodal improvement strategy"** (MMIS) which is at the core of its implementation models for hand hygiene and infection prevention and control (IPC) programmes.

The focus of this document is on the **resource considerations** for investing in hand hygiene improvement in health care (primary, secondary and tertiary) using the MMIS approach. It presents the inputs (such as equipment, supplies and activities) required to:

- estimate the investments needed to implement and sustain a comprehensive hand hygiene programme based on the MMIS; and
- support health workers to perform hand hygiene at the point of care and at other important times for safe, high-quality care.

Where available, costing and other relevant tools that can aid in the estimation of required resources are listed.

The document **strengthens the narrative** around the overall resources required to develop and implement hand hygiene improvements in health care using an MMIS. Strengthening this narrative will also support related work of the WHO and United Nations Children's Fund (UNICEF) Hand Hygiene for All Global Initiative, launched in 2020 (1).

#### **1.2 Intended audience**

The intended audience of this publication includes policy-makers, senior facility managers, infection prevention and control (IPC) leads, planners and others involved in developing and implementing hand hygiene improvement programmes at the primary and secondary/tertiary care level.

#### **1.3 Background**

Improving hand hygiene in health care is one of the key areas of focus of the global **WHO/UNICEF Hand Hygiene for All Initiative**; in 2020 this was reinforced with new recommendations calling to action Member States to achieve **universal access to hand hygiene** in the context of COVID-19 (1, 2). This builds on over a decade of work by WHO on providing guidance and tools for improvement of hand hygiene in health care<sup>a</sup>.

Hand hygiene in health care is a modifiable behavioural intervention, and the MMIS is a well established WHO approach (1). It is presented as part of the WHO's minimum requirements for IPC (3)

<sup>a</sup> <u>https://www.who.int/teams/integrated-health-services/infection-prevention-control/hand-hygiene</u>

and within the guidelines on core components of IPC programmes (4) as an evidence-based strategy to improve hand hygiene (5), among other IPC interventions, at all levels. It was initially conceived in the context of WHO's hand hygiene guidelines (6) and related implementation tools (7).

#### **1.4 Brief overview of the MMIS**

The MMIS comprises **five synergistic elements**<sup>\*</sup>, each of which is essential and complementary. They must all be in place, to some degree, as part of interventions to achieve outcome improvements and optimal hand hygiene behavioural change.

The MMIS is grounded in **behavioural science** and incorporates different constructs of multiple behavioural models, including the Health Belief Model and the Theory of Planned Behaviour (6). These models reinforce the need for the five elements that comprise the strategy:

- system change
- training and education
- monitoring and feedback
- reminders in the workplace/communications
- safety climate/culture change.

To aid understanding, these MMIS elements can be simplified to just five words: **build, teach, check, sell and live.** 

The MMIS has proved to be highly effective, leading to a significant improvement in hand hygiene compliance and other key hand hygiene indicators and a reduction in health careassociated infections and antimicrobial resistance (4-6,8), as well as having played an important role in contributing to stop outbreaks. Multimodal hand hygiene improvement programmes are also highly cost saving (9).

**Implementation of the MMIS requires resources** at the initial planning and implementation phase (including capital/infrastructure and ongoing costs), as well as for assessing its impact and ongoing costs over a multiyear period. This is needed to sustain hand hygiene interventions and behaviours that will help prevent health care-associated infections and antimicrobial resistance, as part of an IPC programme.

## 预览已结束, 完整报告链接和二维码如下:



https://www.yunbaogao.cn/report/index/report?reportId=5 23925