



Infection prevention and control in primary care: a toolkit of resources

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a toolkit of resources



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ISBN 978-92-4-003730-4 (electronic version)

ISBN 978-92-4-003731-1 (print version)

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ACKNOWLEDGEMENTS

This document was developed by the World Health Organization (WHO) Infection Prevention and Control Technical and Clinical Hub (Department of Integrated Health Services (Universal Health Coverage and Life Course Division)). The resources and descriptions listed within the document are extracted from existing and readily available WHO products, with a focus on infection prevention and control in primary care. WHO gratefully acknowledges the contributions that many individuals and organizations have made to the development of all of the material referenced throughout this document.

Overall coordination, writing and design of the document

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The following WHO staff, global experts and international organizations contributed to the review of the document and are gratefully acknowledged. Sepideh Bagheri Nejad (Department of Integrated Health Services), Fernanda Lessa (Centers for Disease Control and Prevention, United States of America), Ana Paula Coutinho-Rehse (WHO Regional Office for Europe), The Global Infection Prevention and Control Network, Bassem Zayed (WHO Regional Office for the Eastern Mediterranean).

Introduction

The recently published World Health Organization (WHO) [Strengthening infection prevention and control in primary care](#)¹ document collates existing standards, measurement and implementation approaches, and resources for infection prevention and control (IPC) in primary care. During its development, it became apparent that a number of already existing tools and resources have the potential to support facility-level implementation of IPC in primary care.

This toolkit brings together in one place a number of these tools and resources from WHO and other organizations, with a focus on those most relevant to primary care. These tools and resources have been compiled to support facility-level implementation in line with the recommended WHO IPC Hub and Task Force multimodal approach².

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IPC in primary care toolkit: an overview

What is the IPC toolkit?

The toolkit presents a list of tools and resources in tabular form. The types of tools and resources included fall into five categories: guidance materials, implementation manuals and resources, communications and advocacy tools, measurement tools and training and education resources. A synthesis of some key information on each tool/resource is provided to support the reader in decision making on the usefulness of each one for the purpose required. This is not intended to be an exhaustive list of all the tools and resources available to support the strengthening of IPC in primary care, but rather a collection of the most relevant material. The toolkit will be updated and complemented over time as more tools and resources are identified and shared for facility-level use.

Included tools and resources were carefully examined and selected to meet the need for strengthening IPC in primary care and users are encouraged to select and use all those as appropriate for their setting. Of note, although a major emphasis was placed on tools and resources that could be readily used without modification, some may require minor or major adaptation for optimal use. While all the tools and resources referenced here have been carefully appraised for their utility, their inclusion does not imply endorsement or rigorous testing by WHO.

This toolkit does not include COVID-19 materials as the emphasis is on normative IPC implementation. To access WHO guidance and other resources related to COVID-19 please visit the [WHO website](#).

¹ Strengthening infection prevention and control in primary care: a collection of existing standards, measurement and implementation resources. Geneva: World Health Organization; 2021 (<https://www.who.int/publications/i/item/9789240035249>, accessed 5 October 2021)

² Multimodal strategies comprise multiple measures to support the implementation of IPC improvement interventions and commonly focus on: 1) system change; 2) training and education; 3) monitoring and feedback; 4) communications/reminders in the workplace; and 5) safety climate/culture change.

Development of the IPC toolkit

The WHO IPC Technical and Clinical Hub carried out a scoping exercise for relevant IPC tools and resources that addressed IPC in primary care directly or indirectly, with a focus on those developed in the last 10 years and freely available. Development of the toolkit involved a wide reaching consultation with technical experts in the field of infection prevention and control and primary care using existing WHO networks, IPC Taskforce and other relevant departments and units across WHO.

Who is the toolkit for?

The primary target audience for the toolkit is the IPC focal person or team with responsibility for driving the development and practical implementation of IPC in primary care. This can also include other stakeholders or organizations who are supporting IPC in primary care.

How to use the toolkit

The toolkit has been structured in such a way that a user can easily identify:

- the tool/resource name and year of issue
- organization
- brief description
- type of tool/resource
- thematic area
- languages available
- modifications (if any) required.

To access the tools and resources within the toolkit, hyperlinks have been provided. In most cases, these links will take the user directly to the tools and resources for download. However, where multiple tools and resources have been grouped together or multiple languages are available, users will be directed to the main landing page.

Feedback

To support future updates of the toolkit, users are invited to share their feedback on the usefulness and ease of navigation. In addition if there are tools that might be considered for inclusion, please contact savelives@who.int.



IPC IN PRIMARY CARE TOOLKIT



COMMUNICATIONS AND ADVOCACY



GUIDANCE MATERIALS



IMPLEMENTATION



MEASUREMENT



TRAINING AND EDUCATION



COMMUNICATION AND ADVOCACY TOOLS AND RESOURCES

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Advocacy document on infection prevention and control (IPC) to reduce the burden of AMR (2018)	WHO	Advocacy document outlining the threat of antimicrobial resistance and ways in which it can be curbed.	Communication and advocacy	Antimicrobial resistance	ENG	No - resource can be used with zero modification
Evidence of hand hygiene as the building block for infection prevention and control (2017)	WHO	This document aims to outline the evidence on hand hygiene included in the systematic literature reviews undertaken as the background for the WHO guidelines. It serves to provide a synopsis of the available evidence evaluating hand hygiene as a main intervention (or part of a broader IPC strategy) and where significant improvement in hand hygiene compliance or alcohol-based handrub consumption, and/or a substantial decrease of health care-associated infections or multi-drug resistant organism (MDRO) infection and/or colonization rates were achieved.	Communication and advocacy	Hand hygiene	ENG	No - resource can be used with zero modification
Health care-associated infections infographic (2017)	WHO	An infographic on the problem and solution for health care-associated infections.	Communication and advocacy	IPC programmes	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Hand hygiene FAQ (2010)	WHO	Frequently asked questions on hand hygiene in health care.	Communication and advocacy	Hand hygiene	ENG	Yes - resource can be used with minor modification can be used with zero modification
Hand hygiene for all initiative: improving access and behaviour in health care facilities (2020)	WHO/United Nations Children's Fund (UNICEF)	This brief draws on learning from legacy work and the current evidence and summarizes how joint action and collaboration are essential for successful strategies, in the context of the COVID-19 response and beyond.	Communication and advocacy	Hand hygiene	ENG	No - resource can be used with zero modification
Handle antibiotics with care in surgery (2018)	WHO	A poster outlining key aspects in preventing antimicrobial resistance in surgery.	Communication and advocacy	Antimicrobial resistance	AR, ENG, FR, RUS, SPA	No - resource can be used with zero modification
How to prevent sepsis - the role you can play in health care and communities (2018)	WHO	Every year sepsis affects 30 million people worldwide, anyone with an infection can develop sepsis but some are more at risk than others. This short, animated WHO video provides key information on the risks associated with sepsis and how infections and their evolution to sepsis can be prevented in health care and the community, so that together we can help save millions of lives.	Communication and advocacy	Other	ENG	No - resource can be used with zero modification
Injection safety - Q&A (2016)	WHO	Frequently asked questions on injection safety.	Communication and advocacy	Injection safety	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Injection safety leaflets for health care providers, clinicians, and patient associations (2017)	WHO	Advocacy leaflets targeted to specific health worker groups.	Communication and advocacy	Injection safety	ENG	No - resource can be used with zero modification
Injection safety infographics: dangers, alternatives and avoidance (2017)	WHO	Infographics advocating for alternatives, highlighting dangers and avoidance of unnecessary injections.	Communication and advocacy	Injection safety	ENG	No - resource can be used with zero modification
Injection safety video: making injections safe, we all have a part to play (2017)	WHO	Advocacy video on making safe injections, explaining the role of everyone.	Communication and advocacy	Injection safety	ENG	No - resource can be used with zero modification
Resource considerations for investing in hand hygiene improvement in health care (2021)	WHO	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 multimodal improvement strategy approach.	Communication and advocacy	Hand hygiene	ENG	Yes - resource can be used with minor modification
The role of infection prevention and control in preventing antibiotic resistance in health care (2017)	WHO	An infographic/poster on the role of IPC in preventing antibiotic resistance in health care.	Communication and advocacy	Antimicrobial resistance	ENG, FR, SPA	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Tools for creating an institutional safety climate - tips, information and guidance for patient engagement and template letters to advocate for hand hygiene (2009)	WHO	The institutional safety climate will be a key priority for health-care facilities in advanced stages of hand hygiene improvement in order to maintain motivation and momentum for the excellent standards achieved. It is, however, important to consider the Institutional Safety Climate at all stages. A number of resources are available to help assist you in creating an institutional safety climate. The link provided will direct you to the general page where all these resources can be found.	Communication and advocacy	Hand hygiene	ENG	Yes - resource can be used with minor modification
WHO: Health care without avoidable infections - peoples' lives depend on it (2017)	WHO	Advocacy video on health care without avoidable infections. No health system can claim to be free of avoidable infections. These avoidable infections, acquired through health care practices, affect patients, their families and health workers, in many different ways.	Communication and advocacy	IPC programmes	ENG	No - resource can be used with zero modification

Languages: AR – Arabic; CHN – Chinese; ENG – English; FR – French; RUS – Russian; SPA - Spanish.



GUIDANCE TOOLS AND RESOURCES

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Best injection practices guidelines (2016)	WHO	Two-page overview of injection safety guideline recommendations.	Guidance	Injection safety	ENG	No - resource can be used with zero modification
Core elements of outpatient antibiotic stewardship (2016)	CDC	Core elements of outpatient antibiotic stewardship.	Guidance	Antibiotic stewardship	ENG	No - resource can be used with zero modification
Decontamination and reprocessing of medical devices for health-care facilities (2016)	WHO	This manual is a very important instrument to provide guidance to health managers and health workers on required infrastructures and standard procedures for effective sterilization, and decontamination reprocessing of medical devices. This edition of the manual represents a thorough revision and update of the Sterilization Manual for Health Centers issued by the Pan American Health Organization in 2009 and it is the result of a close collaboration between the IPC Global Unit at the Headquarters of the World Health Organization, the Pan American Health Organization, and a group of international experts.	Guidance	Medical device reprocessing	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Essential safety requirements for primary health care facilities (2018)	Saudi Ministry of Health	Essential safety requirements for primary health care facilities that includes all safety requirements for a facility.	Guidance	Other	AR	No - resource can be used with zero modification
Excellence program in primary health care (2020)	Saudi Ministry of Health	Excellence program in primary health care that includes patient experience, IPC, pathways, triage and other relevant elements.	Guidance	Other	AR	No - resource can be used with zero modification
Guide to infection prevention and control in outpatient settings: Minimum expectations for safe care (2016)	CDC	This document is a summary guide of infection prevention recommendations for outpatient (ambulatory care) settings. The recommendations included in this document are not new but rather reflect existing evidence-based guidelines produced by the Centers for Disease Control and Prevention (CDC) and the Healthcare Infection Control Practices Advisory Committee. This summary guide is based primarily upon elements of Standard Precautions and represents the minimum infection prevention expectations for safe care in outpatient settings. Readers are urged to use the Infection Prevention Checklist for Outpatient Settings (Appendix A), a companion to the summary guide, and to consult the full guidelines for additional background, rationale, and evidence behind each recommendation.	Guidance	Standard precautions	ENG, SPA	No - resource can be used with zero modification
Guideline for disinfection and sterilization in healthcare facilities (2019)	CDC	Guideline for disinfection and sterilization in healthcare facilities.	Guidance	Medical device reprocessing	ENG	Yes - resource can be used with minor modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Guidelines for environmental infection control in health-care facilities (2019)	CDC	Guidelines for environmental infection control in health-care facilities.	Guidance	Environmental cleaning	ENG	No - resource can be used with zero modification
Guidelines on infection control practice in the clinic settings (2019)	Department of Health of Hong Kong	Guidelines on infection control practice in the clinic and outpatient settings.	Guidance	IPC programmes	ENG	No - resource can be used with zero modification
Infection prevention and control for primary care in Ireland: A guide for general practice (2013)	Ireland	A guide for general practice on IPC in primary care.	Guidance	IPC programmes	ENG	No - resource can be used with zero modification
Injection safety fact sheet (2016)	WHO	Injection safety fact sheet.	Guidance	Injection safety	ENG	Yes - resource can be used with minor modification
IPC manual in primary health care facilities (2020)	Saudi Ministry of Health	IPC manual in primary health care facilities for all IPC practices.	Guidance	IPC programmes	AR, ENG	No - resource can be used with zero modification
Patient pathway in primary health care facilities (2021)	Saudi Ministry of Health	Patient pathway in primary care centers including visual triage requirements and IPC protocols.	Guidance	Other	AR	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Policies and procedures in primary health care facilities (2020)	Saudi Ministry of Health	Policies and procedures in primary health care including job descriptions and IPC requirements.	Guidance	Other	AR, ENG	Yes - resource suitable with major adaptation
Primary healthcare standards (2020)	The Saudi Central Board for Accreditation of Healthcare Institutes (CBAHI)	Primary health care accreditation standards.	Guidance	Other	ENG	No - resource can be used with zero modification
Quality in primary health care (2018)	WHO	This paper provides governments and policy-makers with an overview of the key issues of quality in primary health care and its importance to achieving the broad public health goals within universal health coverage. It makes the case for quality improvement as a core function of primary health care and provides the perspectives of different levels of the health system on improving quality in primary health care. Achieving change in quality of care is a complex endeavour which requires a multimodal approach that recognizes the specific challenges of individual settings, and values evidence, innovation and country experience.	Guidance	Other	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Strengthening infection prevention and control in primary care (2021)	WHO	This document aims to support those working in primary care to strengthen IPC, informed by existing WHO IPC guidance and implementation resources. Many of the existing WHO IPC guidance and implementation resources initially developed for acute health care facilities have a potential utility for IPC in primary care. However, navigating these resources to locate relevant content for IPC in primary care can be challenging as some documents can span over 100 pages. This document extracts relevant content, bringing together existing WHO IPC standards, indicators and implementation approaches that are focused on, or directly relevant to IPC in primary care. It should also be used to identify resources suitable for use in primary care that can be embedded within relevant IPC or other health programmes.	Guidance	IPC programmes	ENG	No - resource can be used with zero modification
Summary of infection prevention practices in dental settings: Basic expectations for safe care (2016)	CDC	Summary of infection prevention practices in dental settings and basic expectations for safe care.	Guidance	IPC programmes	ENG	No - resource can be used with zero modification
Terms of reference technical committee in primary health care (2017)	Saudi Ministry of Health	Terms of reference technical committee in primary health care that includes functions related to infection control.	Guidance	Other	AR	Yes - resource suitable with major adaptation

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
WHO Core competencies for infection prevention and control professionals (2020)	WHO	The purpose of this document is to define who is the IPC professional and identify what core competencies are needed to be qualified in this discipline and at what level, that is, junior versus senior. The ultimate goal of this document is to support the achievement of the specific expertise and competencies of IPC professionals needed at country and facility level.	Guidance	IPC programmes	ENG	No - resource can be used with zero modification
WHO guideline on the use of safety-engineered syringes for intramuscular, intradermal and subcutaneous injections in health care settings (2016)	WHO	The evidence-based policy guidance contained in this document will be the first WHO policy document that specifically addresses the use of safety-engineered injection devices for therapeutic injections.	Guidance	Injection safety	ENG, FR	No - resource can be used with zero modification
WHO guidelines on drawing blood: best practices in phlebotomy (2010)	WHO	These WHO guidelines provide recommended steps for safe phlebotomy and reiterate accepted principles for drawing, collecting blood and transporting blood to laboratories/blood banks.	Guidance	Injection safety	ENG	No - resource can be used with zero modification
WHO guidelines on hand hygiene in health care (2009)	WHO	Hand hygiene guidelines in health care - recommendations, evidence, considerations and suggested future research.	Guidance	Hand hygiene	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
WHO Minimum Requirements for infection prevention and control (IPC) programmes (2019)	WHO	Minimum requirements for IPC programmes defined by national and facility level. Facility level requirements are further stratified by level of care, highlighting primary care.	Guidance	IPC programmes	ENG, FR	Yes - resource can be used with minor modification
WHO policy on TB infection control in health-care facilities, congregate settings and households (2009)	WHO	Chapter 3 of this publication describes the various elements that can be combined to achieve TB infection control at facility level. It provides guidance on which TB infection control elements to emphasize, based on infection control assessment and informed by climatic, cultural, cost and programmatic factors. It first discusses managerial activities at this level, and then describes the different types of control available to facilities. Chapter 5 discusses the various actions needed to reduce transmission of tuberculosis in households.	Guidance	Transmission based precautions	ENG, FR	No - resource can be used with zero modification
Overview of technologies for the treatment of infectious and sharp waste from health care facilities (2019)	WHO	This document provides an overview of specific health care waste technologies for the treatment of solid infectious and sharp waste. For each technology, details of its operation, effects on the environment and health, requirements for installation, capacities for treating waste, examples of consumables and advantages and disadvantages are described.	Guideline	Water, sanitation and hygiene	ENG, FR, SPA	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
WASH in health care facilities: Practical steps to achieve universal access to quality care (2019)	WHO/UNICEF	Practical actions that Member States can take at the national and sub-national level to improve WASH in health care facilities.	Guideline	Water, sanitation and hygiene	ENG	No - resource can be used with zero modification
WHO guidelines on tuberculosis infection prevention and control: 2019 update	WHO	The revised guidelines contain recommendations for specific administrative, environmental controls and respiratory protection, following the assessment made by an external group of experts convened as members of the Guideline Development Group.	Guideline	Transmission based precautions	ENG	Yes - resource can be used with minor modification

Languages: AR – Arabic; ENG – English; FR – French; PT – Portuguese; SPA – Spanish



IMPLEMENTATION TOOLS AND RESOURCES

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
5 Moments for hand hygiene in preventing the spread of multidrug resistant organisms (MDROs) (2009)	WHO	Five moments for hand hygiene in preventing the spread of MDROs. Posters available by individual or all moments.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification
5 Moments for hand hygiene posters: Older style with individual moment breakdown and all moments combined (2009)	WHO	Five moments for hand hygiene posters: Older style with individual moment breakdowns and all moments posters. Although posters display a patient in a bed, these are seminal resources and have utility for training in particular.	Implementation	Hand hygiene	ENG, FR, SPA	No - resource can be used with zero modification
5 Moments for hand hygiene: focus on caring for a patient with - a central venous catheter, a peripheral venous catheter, an indwelling urinary catheter and a post-operative wound (2010-2015)	WHO	Five moments for hand hygiene posters, focused on caring for patients with an indwelling device and/or post-operative wound. The link provided will direct you to the general page where all these resources can be found.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
A guide to the implementation of the WHO multimodal hand hygiene improvement strategy (2009)	WHO	This guide to implementation has been developed to assist health care facilities to implement improvements in hand hygiene in accordance with the WHO guidelines on hand hygiene in health care.	Implementation	Hand hygiene	AR, CHN, ENG	No - resource can be used with zero modification
Aide-memoire for a national strategy for the safe and appropriate use of injections (2015)	WHO	Two-page summary for developing a national strategy for the safe and appropriate use of injections.	Implementation	Injection safety	ENG	Yes - resource suitable with major adaptation
Glove use information leaflet (2009)	WHO	Overview of appropriate glove use and hand hygiene.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification
Guide to local production: WHO-recommended handrub formulations (2010)	WHO	Part A provides a practical guide for use at the pharmacy bench during the actual preparation of the formulation. Users may want to display the material on the wall of the production unit. Part B summarizes some essential background technical information and is taken from WHO Guidelines on Hand Hygiene in Health Care (2009). Within Part B the user has access to important safety and cost information and supplementary material relating to dispensers and distribution.	Implementation	Hand hygiene	FR, ENG, RUS, SPA	No - resource can be used with zero modification
Guiding principles to ensure injection device security (2015)	WHO	Two-page overview of key recommendations for safe injections.	Implementation	Injection safety	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Hand hygiene handwashing and handrubbing posters (2009)	WHO	Overview of hand hygiene techniques for handwashing and handrubbing. The link provided will direct you to the general page where all these resources can be found.	Implementation	Hand hygiene	ENG, FR	No - resource can be used with zero modification
Hand hygiene in outpatient and home-based care and long-term care facilities: a guide to the application of the WHO multimodal hand hygiene improvement strategy and the "My Five Moments For Hand Hygiene" approach (2012)	WHO	The document is divided into two main sections: 1) a conceptual part aimed at providing the background evidence and the theoretical principles related to the "My five moments for hand hygiene" approach and the WHO Multimodal Hand Hygiene Improvement Strategy, with adaptation to the reality of outpatient care settings; 2) a practical part with examples of the application of hand hygiene principles in situations occurring frequently in outpatient care settings.	Implementation	Hand hygiene	ENG, JPN	No - resource can be used with zero modification
Hand hygiene technical reference manual: to be used by health-care workers, trainers and observers of hand hygiene practices (2009)	WHO	This technical reference manual is designed for use in any healthcare facility. It describes detailed hand hygiene information and is aimed at health-care workers, trainers and observers. It focuses on understanding, practising and teaching hand hygiene concepts, with the aim of helping others to understand its importance and application in the prevention of micro-organism cross-transmission. The link provided will direct you to the general page where all these resources can be found.	Implementation	Hand hygiene	ENG, VN	No - resource can be used with zero modification
Hand hygiene why, when and how leaflet (2009)	WHO	Hand hygiene summary leaflet on why, when and how to perform hand hygiene.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
How to make 0.1% chlorine solution to disinfect surfaces in healthcare settings (2021)	CDC	How to make 0.1% chlorine solution to disinfect surfaces in healthcare settings.	Implementation	Environmental cleaning	ENG, FR, PT	No - resource can be used with zero modification
How to prevent sepsis poster (2018)	WHO	A poster overviewing your role in preventing sepsis in health care and communities.	Implementation	Other	ENG	No - resource can be used with zero modification
Implementation manual to support the prevention of surgical site infections at the facility level: turning recommendations into practice (2018)	WHO	Part 1 of the manual proposes use of a stepwise approach to implementation and improvement based on the evidence and experience of what has worked in a number of health care settings. The information is designed to be adoptable and adaptable. This is at the core of the information presented in this manual and it is then followed by practical information in Part 2. In Part 2 potential solutions are suggested based upon the multimodal improvement strategy, which should direct local actions to prevent SSI. Although there is some special focus on LMICs, the strategy is meant to be useful and stimulating to achieve the improvements required in any setting.	Implementation	Surgical site infections	ENG	Yes - resource can be used with minor modification
Improving infection prevention and control at the health facility: an interim practical manual (2018)	WHO	This practical manual is designed to support health-care facilities to achieve effective implementation of their IPC programmes according to the WHO Guidelines on core components of IPC programmes in the context of their efforts to improve the quality and safety of health service delivery and the health outcomes of the people who access those services.	Implementation	IPC programmes	ENG	Yes - resource can be used with minor modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Infection prevention and control - Guidance to action tools: (1) respiratory hygiene, (2) personal protective equipment, and (3) environmental cleaning, waste and linen management, which are all elements of standard, droplet/contact and airborne precautions (2021)	WHO EURO	<p>Each aide-memoire is approximately five pages in length and additional information, including instructions for use and what success might look like, is also provided within the document.</p> <p>These aide-memoires will support putting IPC guidance into action. They aim to ensure that local improvements associated with evidence-based IPC recommendations, including for COVID-19, influenza, etc., can be reliably put into place. The three aide-memoires provide action checks to empower IPC focal points and other leaders to take a range of actions that will sustain improvements in practices. The link provided directs you to the general page where all these resources can be found.</p>	Implementation	IPC programmes	ENG	No - resource can be used with zero modification
Injection providers' guide for safe injections (2016)	WHO	A brief guide/aide-memoire for providers on when and how to safe injections.	Implementation	Injection safety	ENG	No - resource can be used with zero modification
Injection safety tools and resources website (2012)	CDC	Various tools and resources available to support the implementation of an injection safety programme.	Implementation	Injection safety	ENG	No - resource can be used with zero modification
IPC Core components visual (2016)	WHO	An infographic visual overviewing the eight core components for an effective IPC programme.	Implementation	IPC programmes	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Job aids - arterial blood, capillary, pediatric and neonatal blood sampling (2010)	WHO	Two-page step by step guide for performing blood sampling.	Implementation	Injection safety	CHN, ENG, RUS	No - resource can be used with zero modification
Job aids - glove use and hand hygiene for injection safety (2010)	WHO	Practical advice for appropriate use of gloves and hand hygiene for injection safety.	Implementation	Injection safety	CHN, ENG, RUS	No - resource can be used with zero modification
Job aids - venepuncture (lab testing and blood sampling) (2010)	WHO	Two-page step by step guide for performing venepuncture activities.	Implementation	Injection safety	CHN, ENG, RUS	No - resource can be used with zero modification
Modified WHO formulations for surgical hand preparation (2018)	WHO	One-pager standard operating procedure for preparing the WHO modified formulation for surgical hand preparation.	Implementation	Surgical site infections	ENG	No - resource can be used with zero modification
My 5 moments for hand hygiene in outpatient care: chair, dentistry, haemodialysis, vaccination, pediatric, residential home and maternity (2012)	WHO	My 5 moments for hand hygiene posters in the context of outpatient care. The link provided will direct you to the general page where all these resources can be found.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification
My 5 moments for hand hygiene poster (2009)	WHO	My 5 moments for hand hygiene poster.	Implementation	Hand hygiene	ENG, FR	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Site improvement through monitoring system (SIMS) implementation guide (2020)	CDC	SIMS is a quality assurance tool used to monitor and improve program quality at PEPFAR-supported sites that guide and support service and non-service delivery functions.	Implementation	Other	ENG	No - resource can be used with zero modification
Surgical handrubbing technique poster (2010)	WHO	A poster outlining the appropriate surgical handrubbing technique.	Implementation	Surgical site infections	ENG	No - resource can be used with zero modification
Surgical site infections prevention key facts: bathing, hair removal, surgical site skin preparation and decolonization (2018)	WHO	Factsheets outlining the key recommendations for patient bathing, hair removal, surgical site skin preparation and decolonization and suggested methods for implementation.	Implementation	Surgical site infections	ENG	No - resource can be used with zero modification
Sustaining improvement – Additional activities for consideration by health-care facilities (2009)	WHO	This document provides some suggestions of additional activities and tools that you might consider implementing to build on your achievements, maintain momentum and aid in sustainability. It is also intended to help other facilities learn from your experiences. WHO's First Global Patient Safety Challenge team would be extremely interested to learn of any plans to implement these initiatives or any other supplementary initiatives not listed here.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification
The operation manual for primary healthcare centers (2018)	Saudi Ministry of Health	The operation manual for primary healthcare centers that includes operating policies and procedures including IPC requirements	Implementation	Other	AR	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
WHO best practices for injections and related procedures toolkit (2010)	WHO	The toolkit covers elements of standard precautions relevant to the transmission of bloodborne pathogens through unsafe injection practices in health-care settings. The document will help to increase health workers' awareness of the importance of standard precautions relevant to injection safety. Its main target is health workers actively engaged in the administration of the various types of injections in all health and related care services, particularly at the peripheral level. However, other people administering injections may find the toolkit useful.	Implementation	Injection safety	ENG	No - resource can be used with zero modification
WHO multimodal improvement strategy summary (2019)	WHO	Two-page summary on the WHO multimodal improvement strategy.	Implementation	Hand hygiene	ENG	No - resource can be used with zero modification

Languages: AR – Arabic; CHN – Chinese; ENG – English; FR – French; JPN – Japanese; PT – Portuguese; RUS – Russian; SPA – Spanish; VN – Vietnamese.



MEASUREMENT TOOLS AND RESOURCES

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Flowchart for Infection control audit tool for primary health care facilities (2019)	Saudi Ministry of Health	Flowchart for infection control audit tool for primary health care with a summary of steps for planning, visiting, action plan development and training.	Measurement	IPC programmes	AR	No - resource can be used with zero modification
Hand hygiene knowledge questionnaire for health-care workers (2009)	WHO	To assess knowledge on the essential aspects of hand hygiene. This resource was designed and tested for use in secondary/ tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification
Hand hygiene observation form (2009)	WHO	A form to complete when monitoring hand hygiene. This resource was designed and tested for use in secondary/tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification
Infection control audit tool for primary health care facilities (2019)	Saudi Ministry of Health	Infection control audit tool for primary health care that includes the standards for auditing and scoring.	Measurement	IPC programmes	AR, ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Infection prevention checklist for dental settings: Basic expectations for safe care (2016)	CDC	Infection prevention checklist for dental settings measuring basic expectations for safe care.	Measurement	IPC programmes	ENG	No - resource can be used with zero modification
Injection safety checklist (2019)	CDC	The injection safety checklist items are a subset of items that can be found in the CDC Infection Prevention Checklist for Outpatient Settings: Minimum Expectations for Safe Care. The checklist, which is appropriate for both inpatient and outpatient settings, should be used to systematically assess adherence of healthcare providers to safe injection practices. Assessment of adherence should be conducted by direct observation of healthcare personnel during the performance of their duties.	Measurement	Injection safety	ENG	No - resource can be used with zero modification
Injection safety monitoring tools: assessment tool C, instructions and data collection procedures (2008)	WHO	An assessment using Tool C – Revised can estimate the risk of infections associated with unsafe practices for each procedure type, determining whether a facility meets requirements for equipment, supplies and waste disposal, identifying unsafe practices and estimating the proportion of health care facilities in which practices are safely or unsafely performed.	Measurement	Injection safety	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Perception survey for health workers (2009)	WHO	To assess perceptions of health care-associated infection and hand hygiene. This resource was designed and tested for use in secondary/tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 Moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification
Perception survey for senior managers (2009)	WHO	To assess perceptions of health care-associated infection and hand hygiene. This resource was designed and tested for use in secondary/tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 Moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification
Protocol for evaluation of tolerability and acceptability of alcohol-based handrub in use or planned to be introduced: Methods 1 & 2 (2009)	WHO	To evaluate alcohol-based handrub usage and the skin condition following use (method 1) and compare the acceptability of different alcohol-based handrubs. This resource was designed and tested for use in secondary/tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 Moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Soap/handrub consumption survey (2009)	WHO	To capture data on usage of hand hygiene resources. This resource was designed and tested for use in secondary/tertiary care settings, however it may be useful in some primary care contexts and can be useful for training purposes to help foster understanding of how to effectively measure hand hygiene according to the 5 Moments approach.	Measurement	Hand hygiene	ENG	No - resource can be used with zero modification
WHO/UNICEF. Water and Sanitation Facility Improvement Tool (WASH FIT) (2020)	WHO/UNICEF	WASH FIT covers four broad areas: water, sanitation (including health care waste management), hygiene (hand hygiene and environmental disinfection) and management. Each area includes a list of indicators and targets for achieving minimum standards for maintaining a safe and clean environment. You can adapt your assessment form to include all, or only some, of the indicators according to your need.	Measurement	Water, sanitation and hygiene	ENG, FR, RUS	No - resource can be used with zero modification

Languages: AR – Arabic; ENG – English; FR – French; RUS – Russian.



TRAINING AND EDUCATION TOOLS AND RESOURCES

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Basic microbiology for IPC module (2019)	WHO	In this course, you will learn about how disease-causing microbes, called pathogens, are classified, identified and transmitted. You will be introduced to basic microbiological principles, fundamental laboratory diagnostics and mechanisms by which microbes transmit and cause diseases.	Training and education	Other	ENG	No - resource can be used with zero modification
Decontamination and sterilization of medical devices module (2019)	WHO	The processes of sterilization and decontamination are complex, requiring specific infrastructure, equipment and process. In this course, which is divided into two parts, you will learn about the overall procedure for managing decontamination and sterilization of medical devices.	Training and education	Medical device reprocessing	ENG	No - resource can be used with zero modification
Education session for trainers, observers and health workers on hand hygiene (2009)	WHO	To help your hand hygiene representative to advocate hand hygiene to health-care workers and managers. The link provided will direct you to the general page where all these resources can be found.	Training and education	Hand hygiene	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Hand hygiene module (2019)	WHO	Most health care-associated infections are preventable through good hand hygiene – cleaning hands at the right times and in the right way. The WHO Guidelines on hand hygiene in health care support hand hygiene promotion and improvement in health care facilities worldwide and are complemented by the WHO multimodal hand hygiene improvement strategy, the guide to implementation, and implementation toolkit, which contain many ready-to-use practical tools. This module has been prepared to help summarize the WHO guidelines on hand hygiene, associated tools and ideas for effective implementation.	Training and education	Hand hygiene	AL, AR, CHN, ENG, FR, MAK, PT, RUS, SOM, SPA, TUR	No - resource can be used with zero modification
Hand hygiene training slides and video (2009)	WHO	To train health-care workers on health care-associated infection and hand hygiene. The hand hygiene training video is available streaming. The link provided will direct you to the general page where all these resources can be found.	Training and education	Hand hygiene	ENG	No - resource can be used with zero modification
Infection prevention and control (IPC) core components and multimodal strategies module (2019)	WHO	In this introductory course you will learn the essential components of effective IPC programmes, including multimodal strategies for implementation, at the national and facility level, according to scientific evidence and the advice of WHO and international experts.	Training and education	IPC programmes	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Introduction to IPC training module (2019)	WHO	In this module you will learn how and why healthcare-associated infections (HAIs) occur and how IPC reduces their risk and spread. Effective IPC includes building a program with all healthcare personnel (HCP) playing their part to prevent the spread of pathogens and AMR.	Training and education	Standard precautions	ENG	No - resource can be used with zero modification
IPC Leadership video with keywords (2018)	WHO	Training video on IPC leadership for setting up Infection prevention and control programmes.	Training and education	IPC programmes	ENG	No - resource can be used with zero modification
IPC Training: Injection safety and needle-stick injury management module (2019)	WHO	Injection safety training module based on WHO guidance including a presentation, trainer guide and student handbook. Also available on OpenWHO.	Training and education	Injection safety	ENG, FR	No - resource can be used with zero modification
Injection safety video: how to give a safe injection? (2017)	WHO	A video on performing a safe injection.	Training and education	Injection safety	ENG	No - resource can be used with zero modification
Leadership and programme management in Infection Prevention and Control (IPC) module (2019)	WHO	In this course, we will explore characteristics of a leader and different types of leadership, and how leadership skills are essential for effective communication and conflict management. Additionally, we will explore the project management process and adult-based education for IPC, as well as the basics of implementation science and how multimodal strategies can support behaviour change and influence stakeholders.	Training and education	IPC programmes	AL, AZR, ENG, FR	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Standard precautions: Environmental cleaning and disinfection module (2019)	WHO	In this course, you will learn the role of an IPC professional in environmental cleaning and understand how cleaning and disinfection prevents contamination of the health care environment.	Training and education	Environmental cleaning	BAH, ENG, TET	No - resource can be used with zero modification
Standard precautions: Injection safety and needle-stick injury management module (2019)	WHO	In this course, you will learn about the causes of unsafe injection practices, how to safely give injections, and how to safely dispose of needles and other sharps. You will also learn what to do when needle-stick injuries occur, how to manage potential exposures, and ways to protect yourself, the staff and patients in your facility, and your community.	Training and education	Injection safety	ENG, TET	No - resource can be used with zero modification
Standard precautions: the role of personal protective equipment module (2019)	WHO	In this module, you will learn about what, when and how to use personal protective equipment (PPE) safely and correctly. You will also learn the importance of risk recognition and its application in healthcare.	Training and education	Personal protective equipment	ENG	No - resource can be used with zero modification
Standard precautions: Waste management module (2020)	WHO	In this course, you will learn about the different categories of waste and the process for waste management. Health care waste includes all waste generated by health, research and laboratory facilities in the course of providing health care services. Health care waste in a facility should be managed from point of generation to final disposal and removal.	Training and education	Standard precautions	ENG, TET	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Training video - How to insert an indwelling urinary catheter (2018)	WHO	This video explains the process for inserting an indwelling urinary catheter based on best practices and principles for the prevention of catheter associated urinary tract infections.	Training and education	Catheter associated urinary tract infection prevention	ENG	No - resource can be used with zero modification
Training video - Preoperative surgical site skin preparation (2018)	WHO	This educational video explains the process for patient skin preparation, which happens before any incision for a surgical procedure. This is critical for safe, quality health care and supports prevention of surgical site infections. This video contains real life footage to show step by step what is required and is aimed at health workers as an addition to other health care training sessions. Overall, the information is a key part of the infection prevention and control processes.	Training and education	Surgical site infections	ENG	No - resource can be used with zero modification
Training video - Surgical wound evaluation and dressing (2018)	WHO	This educational video explains the process for wound evaluation and dressings management, which will happen after a surgical procedure. This is critical for safe, quality health care and supports prevention of surgical site infections. This video contains real life footage to show step by step what is required and is aimed at health workers as an addition to other health care training sessions. Overall, the information is a key part of the infection prevention and control processes.	Training and education	Surgical site infections	ENG	No - resource can be used with zero modification

NAME	ORGANIZATION	DESCRIPTION	TYPE	THEMATIC AREA	AVAILABLE LANGUAGES	ARE MODIFICATIONS REQUIRED?
Transmission based precautions training module (2021)	WHO	Transmission-based Precautions are used in addition to Standard Precautions for patients with known or suspected infections. The type of Transmission-based Precautions assigned to a patient depends on the transmission route of the microorganism: contact, droplet, or airborne.	Training and education	Transmission based precautions	ENG	No - resource can be used with zero modification
WHO Surgical hand hygiene technique video (2016)	WHO	WHO Surgical hand hygiene technique video.	Training and education	Hand hygiene	ENG	No - resource can be used with zero modification
WHO: What are the core components for effective infection prevention and control? (2017)	WHO	This instructional video explains the evidence-based core components of infection prevention and control programmes, critical at both the national and acute health care facility level for patient safety and for health systems to provide quality care.	Training and education	IPC programmes	ENG	No - resource can be used with zero modification

Languages: AL – Albanian; AR – Arabic; AZR – Azerbaijani; BAH – Bahasa; CHN – Chinese; ENG – English; FR – French; JPN – Japanese; MAK – Macedonian; PT – Portuguese; RUS – Russian; SOM – Somali; SPA – Spanish; TET – Tetum; TUR – Turkish.



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