WASH IN HEALTH CARE FACILITIES

Useful resources to support policy & practice
Updated February 2023

WASH FIT

- WHO/UNICEF 2022. *WASH FIT: A practical guide for improving quality of care through water, sanitation and hygiene in health care facilities. Second edition*
  https://www.who.int/publications/i/item/9789240043237
  Coming soon: Arabic, French, Russian, Spanish
- WASH FIT Assessment tool: Excel and Kobo
- WHO/UNICEF 2022. *WASH FIT manual for trainers*
  https://www.who.int/publications-detail-redirect/9789240047730
- WASH FIT portal: www.washinhcf.org/wash-fit

COUNTRY PROGRESS

World Health Assembly 2019 Resolution on WASH in health care facilities
https://apps.who.int/gb/ebwha/pdf_files/WHA72/A72_R7-en.pdf

- **WHO/ UNICEF country progress tracker:** www.washinhcf.org/country-progress-tracker
- WHO/UNICEF, 2020. *Global progress report on WASH in health care facilities. Fundamentals First.* https://www.who.int/publications/i/item/9789240017542
  Available in Arabic, French, Russian and Spanish.

DATA AND EVIDENCE

- WHO/UNICEF, 2022. *Progress on WASH in health care facilities 2000-2021: Special focus on WASH and infection prevention and control (IPC)*
  https://www.who.int/publications/i/item/progress-on-wash-in-health-care-facilities-2000-2021--special-focus-on-wash-and-infection-prevention-and-control-(ipc)
- WHO/UNICEF, 2019. *WASH in health care facilities: Global baseline report 2019*
  https://www.who.int/publications-detail-redirect/9789241515504
    - Also available: Arabic, French, Russian, Spanish.
- WHO/UNICEF (Joint Monitoring Programme) WASH data
  https://washdata.org/data/healthcare#!/
- WHO/UNICEF, 2018. *Core questions and indicators for monitoring WASH in health care facilities in the Sustainable Development Goals*: https://www.who.int/publications-detail-redirect/9789241514545
  Also available in French, Spanish, Russian and Arabic.
- WHO/UNICEF, 2019. Monitoring WASH and related IPC in delivery rooms – draft module
  https://washdata.org/sites/default/files/documents/reports/2019-09/JMP-2019-core-questions-delivery-rooms-draft-sept-2019.pdf
- WHO/UNICEF, 2015. *Water, sanitation and hygiene in health care facilities: status in low- and middle-income countries and way forward.* World Health Organization, Geneva. Note,

this is superseded by the Global Baseline report 2019 and subsequently Fundamentals First (2020).
https://apps.who.int/iris/bitstream/handle/10665/154588/9789241508476_eng.pdf
- WHO, 2011. Report on the Burden of Endemic Health Care-Associated Infection Worldwide. World Health Organization, Geneva.
https://apps.who.int/iris/bitstream/handle/10665/80135/9789241501507_eng.pdf;jsessionid=7671DD03BECE340084D262FFD720900B?sequence=1

GUIDANCE AND STANDARDS
Global guidance on WASH in HCF including targets and metrics for progress
- WHO/UNICEF, 2019. *WASH in health care facilities: Practical steps for universal access to quality care.* https://www.who.int/publications-detail-redirect/9789241515511
  - Also available: French, Spanish, Russian, Arabic (awaiting link)

Environmental health standards
- WHO, 2008. *Essential environmental health standards in health care.* World Health Organization, Geneva. https://www.who.int/publications/i/item/9789241547239
  - Also available: French, Russian and Spanish.

Water
- WHO, 2017. *Guidelines for drinking-water quality, 4th edition.* World Health Organization, Geneva. https://www.who.int/publications/i/item/9789241549950
- WHO, 2007. *Legionella and the prevention of Legionellosis.* World Health Organization, Geneva. https://apps.who.int/iris/handle/10665/43233
- WHO, 2018. *Developing drinking-water quality regulations and standards.* World Health Organization, Geneva. https://www.who.int/publications/i/item/9789241513944
- WHO, 2017. *Climate-resilient water safety plans: managing health risks associated with climate variability and change.* World Health Organization, Geneva. https://apps.who.int/iris/handle/10665/258722
- WHO, 2019. *Results of Round II of WHO International Scheme to Evaluate Household Water Treatment Technologies.* https://apps.who.int/iris/handle/10665/325896

Sanitation
- WHO, 2018. Guidelines on sanitation and health. World Health Organization, Geneva.
- https://www.who.int/publications/i/item/9789241514705
  - Also available: Arabic, French, Russian and Spanish.
- WHO (2015). *Sanitation safety planning: manual for safe use and disposal of wastewater, greywater and excreta.* http://www.who.int/water_sanitation_health/publications/ssp-manual/en/
- WHO, 2020. *State of the World's Sanitation: An urgent call to transform sanitation for better health, environments, economies and societies.* World Health Organization, Geneva. https://www.who.int/publications/i/item/9789240014473

Health care waste management
- OpenWHO module. Standard precautions: waste management. https://openwho.org/courses/IPC-WM-EN
- WHO, 2022. *Global analysis of waste in the context of COVID-19: status, impacts and recommendations. https://www.who.int/publications/i/item/9789240039612*
- WHO, 2019. *Overview of treatment technologies for infectious and sharp waste from health care facilities.* World Health Organization, Geneva.
  - https://apps.who.int/iris/handle/10665/328146

- o Also available: [Arabic](#), [French](#), [Spanish](#)
- WHO, 2014. *Safe management of wastes from health care activities.* Second Edition. World Health Organization, Geneva. https://www.who.int/publications/i/item/9789241548564
- WHO, 2017. *Safe management of wastes from health care activities: a summary.* World Health Organization, Geneva. https://apps.who.int/iris/handle/10665/259491
  Also available: <mark>Arabic, Spanish (links coming soon)</mark>, [French](#), [Russian](#)

Environmental cleaning
- OpenWHO Module. Standard precautions: Environmental cleaning and disinfection. https://openwho.org/courses/IPC-EC-EN
- CDC/ICAN 2019. Best Practices for Environmental Cleaning in Healthcare Facilities in Resource-Limited Settings www.cdc.gov/hai/pdfs/resource-limited/environmental-cleaning-508.pdf

Hand hygiene
- OpenWHO Module. Standard precautions: Hand hygiene. https://openwho.org/courses/IPC-HH-en
- WHO 2009, Guidelines for hand hygiene in health care https://apps.who.int/iris/bitstream/handle/10665/44102/9789241597906_eng.pdf?sequence=1

TOOLS AND MONITORING
WASH FIT
- WHO/UNICEF 2022. *WASH FIT: A practical guide for improving quality of care through water, sanitation and hygiene in health care facilities. Second edition* *https://www.who.int/publications/i/item/9789240043237*
  Coming soon: Arabic, French, Russian, Spanish
- WHO/UNICEF 2018. *Water and Sanitation for Health Facility Improvement Tool (WASH FIT).* https://www.who.int/publications-detail-redirect/9789241511698
  Also available: [Arabic](#), [French](#), [Russian](#), [Spanish](#) (currently being updated, new version in Q1 2022).
- WASH FIT portal www.washinhcf.org/wash-fit
- WHO/UNICEF 2020. What is WASH FIT? 2 page overview. https://www.washinhcf.org/resource/what-is-wash-fit-a-quick-overview/
- Weber et al. (2018) *Strengthening Healthcare Facilities Through Water, Sanitation, and Hygiene (WASH) Improvements: A Pilot Evaluation of "WASH FIT" in Togo.* Health Security https://doi.org/10.2166/washdev.2019.090
- Weber et al. (2019) *A conceptual evaluation framework for the water and sanitation for health facility improvement tool (WASH FIT)* Journal of Water, Sanitation and Hygiene for Development. https://doi.org/10.2166/washdev.2019.090
- Maina et al. (2019) *Evaluating the foundations that help avert antimicrobial resistance: Performance of essential water sanitation and hygiene functions in hospitals and requirements for action in Kenya.* Plos One https://doi.org/10.1371/journal.pone.0222922
- Maina et al. (2019) *Extending the use of the World Health Organizations' water sanitation and hygiene assessment tool for surveys in hospitals – from WASH-FIT to WASH-FAST.* Plos One: https://doi.org/10.1371/journal.pone.0226548
- Hirai et al. (2021) *Using the Water and Sanitation for Health Facility Improvement Tool (WASH FIT) in Zimbabwe: A Cross-Sectional Study of Water, Sanitation and Hygiene Services in 50*

COVID-19 Isolation Facilities. Int. J. Environ. Res. Public Health
https://doi.org/10.3390/ijerph18115641
- Ashinyo et al. (2021) Evaluation of water, sanitation and hygiene status of COVID-19 healthcare facilities in Ghana using the WASH FIT approach. Journal of Water, Sanitation and Hygiene for Development. https://doi.org/10.2166/washdev.2021.254

Situational analyses guidance and examples
- 2021. Understanding barriers to quality of care: An approach for conducting a situational analysis of water, sanitation and hygiene (WASH) and quality in health care facilities. https://www.who.int/publications/i/item/9789240022577
- 2020. Achieving quality health services for all, through better water, sanitation and hygiene. Lessons from three African countries. https://www.who.int/publications-detail-redirect/9789240009493
- 2019. Situational analysis of WASH in health care facilities in Ethiopia. https://www.washinhcf.org/resource/situational-analysis-washinhcf-ethiopia/
- 2017. Achieving quality universal health coverage through better water, sanitation and hygiene services in health care facilities: A focus on Ethiopia https://apps.who.int/iris/handle/10665/255264
- 2017. Achieving quality universal health coverage through better water, sanitation and hygiene services in health care facilities. A focus on Cambodia and Ethiopia https://apps.who.int/iris/handle/10665/259698?locale-attribute=es&

<u>OTHER HEALTH TOPICS – GENERAL GUIDANCE</u>

Maternal and child health
WHO 2016. Standards for improving quality of maternal and newborn care in health facilities.
https://www.who.int/publications/i/item/9789241511216

Infection prevention and control, hand hygiene and AMR
WHO, 2015. Global action plan on antimicrobial resistance
https://www.who.int/publications-detail-redirect/9789241509763
Available in French, Russian, Spanish

WHO 2016. Guidelines on core components of infection prevention and control programmes at the national and acute health care facility level. https://apps.who.int/iris/handle/10665/251730

WHO 2017. Guidelines for the prevention and control of carbapenem-resistant Enterobacteriaceae, *Acinetobacter baumannii* and *Pseudomonas aeruginosa* in health care facilities https://apps.who.int/iris/bitstream/handle/10665/259462/9789241550178-eng.pdf?sequence=1

WHO, 2019. Turning plans into action for antimicrobial resistance (AMR) Working Paper 2.0: Implementation and coordination
https://www.who.int/publications/i/item/turning-plans-into-action-for-antimicrobial-resistance-(-amr)-working-paper-2.0-implementation-and-coordination

WHO 2021. State of the World's Hand Hygiene. https://www.who.int/publications-detail-redirect/9789240036444

WHO, 2020. Technical brief on water, sanitation, hygiene (WASH) and wastewater management to prevent infections and reduce the spread of antimicrobial resistance (AMR)

WHO Hand hygiene for all initiative
https://www.who.int/initiatives/hand-hygiene-for-all-global-initiative

OTHER HEALTH TOPICS – MONITORING
Hand hygiene
- WHO, 2010. Hand Hygiene Self-Assessment Framework.
  www.who.int/gpsc/country_work/hhsa_framework_October_2010.pdf?ua=1
- WHO, 2009. Hand hygiene observation form
  https://www.who.int/gpsc/5may/Observation_Form.doc
- WHO 2009. Guide to local production: WHO-recommended handrub formulation
  https://www.who.int/publications-detail-redirect/WHO-IER-PSP-2010.5
- WHO 2022. The Hand Hygiene Acceleration Framework Tool (HHAFT)
  https://www.who.int/publications/m/item/the-hand-hygiene-acceleration-framework-tool-(hhaft)

IPC
- WHO 2018. IPC assessment framework – facility level
  https://www.who.int/publications-detail-redirect/WHO-HIS-SDS-2018.9
- WHO 2021. Infection prevention and control in primary care: a toolkit of resources
  https://www.who.int/publications/i/item/9789240037304

AMR
- WHO, FAO & OiE. Global Database for Antimicrobial Resistance Country Self-Assessment
  https://amrcountryprogress.org/
- WHO, FAO & OiE, 2019. Monitoring and evaluation of the global action plan on antimicrobial resistance: framework and recommended indicators. World Health Organization, Geneva.
  https://apps.who.int/iris/handle/10665/325006

ADVOCACY TOOLS and INFOGRAPHICS
- 2020. Combatting AMR through WASH and IPC in healthcare.
  https://www.washinhcf.org/resource/combatting-amr-through-wash-and-ipc-in-healthcare/
- 2020. IPC to reduce the burden of AMR.
  https://www.who.int/water_sanitation_health/joint-wash-ipc-amr-actions-2020.pdf
- 2018. How to prevent sepsis https://www.who.int/infection-prevention/campaigns/clean-hands/Sepsis_A3_print.pdf?ua=1

  2017. The role of infection prevention and control in prevention antibiotic resistance in health care. https://www.washinhcf.org/documents/IPC-for-WAAW.pdf
- 2016. Tackling antimicrobial resistance: Supporting national measures to address infection prevention and control and water, sanitation and hygiene in health care settings.
  https://www.washinhcf.org/documents/AMR_IPC_WASH_FlyerNov2016-1.pdf

- 2016. WASH and quality universal health coverage. https://www.washinhcf.org/documents/WASH-and-qualityUHC.pdf

SELECTED WEB LINKS
- WHO/UNICEF. Global knowledge portal on WASH in HCF: www.washinhcf.org, in particular www.washinhcf.org/resources for further reading on all aspects listed in this document.
- WHO UNICEF. Joint Monitoring Programme for Water Supply, Sanitation and Hygiene https://washdata.org/
- WHO. Water sanitation hygiene: https://www.who.int/teams/environment-climate-change-and-health/water-sanitation-and-health
- UNICEF. Water, Sanitation and Hygiene: http://www.unicef.org/wash/
- WHO IPC https://www.who.int/teams/integrated-health-services/infection-prevention-control
- WHO AMR www.who.int/health-topics/antimicrobial-resistance
- WHO Patient safety https://www.who.int/teams/integrated-health-services/patient-safety
- WHO Emergencies https://www.who.int/emergencies/overview
- WHO Maternal, newborn, child and adolescent health https://www.who.int/teams/maternal-newborn-child-adolescent-health-and-ageing
- WHO Immunization https://www.who.int/teams/immunization-vaccines-and-biologicals/diseases
- UNDP/WHO/HCWH/GEF Green Healthcare Waste https://greenhealthcarewaste.org/

COVID-19 RELATED
WHO technical guidance
- Water, sanitation, hygiene, and waste management for SARS-CoV2, the virus that causes COVID-19, updated July 2020
- Other WHO technical guidance on a range of infection prevention control topics, including use of PPE, quarantine dead body management: https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance-publications

Emergencies
- WHO/WEDC, 2013. *Updated technical notes on WASH in emergencies (set of 15 notes).* World Health Organization, Geneva. https://www.who.int/teams/environment-climate-change-and-health/water-sanitation-and-health/environmental-health-in-emergencies/technical-notes-on-wash-in-emergencies
- WHO, 2002. *Environmental health in emergencies and disasters.* World Health Organization, Geneva. https://apps.who.int/iris/handle/10665/42561

Refugees, IPDs, Camps
- https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/humanitarian-operations-camps-and-other-fragile-settings
- Interim Guidance on Scaling-up COVID-19 Outbreak in Readiness and Response Operations in Camps and Camp-like Settings (jointly developed by IFRC, IOM, UNHCR and WHO) (17 March) https://interagencystandingcommittee.org/other/interim-guidance-scaling-covid-19-outbreak-readiness-and-response-operations-camps-and-camp
- Interim Guidance on Public Health and Social Measures for COVID-19 Preparedness and Response Operations in Low Capacity and Humanitarian Settings (6 May):

https://interagencystandingcommittee.org/health/interim-guidance-public-health-and-social-measures-covid-19-preparedness-and-response