

# Prevention and reduction of water-related diseases

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Working Group on Water and Health

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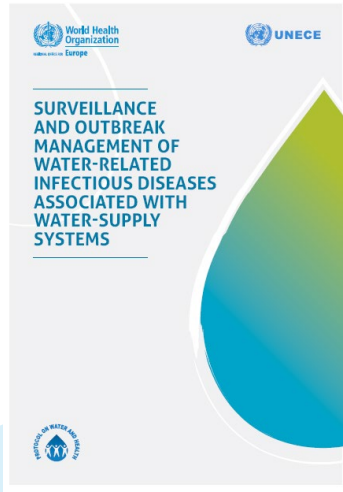
Protocol on Water and Health



#ProtocolWaterHealth

# 1. Progress and achievements

## Training materials on water-related disease developed



### Surveillance of Water Related Infectious Diseases

Module 1.2

### Principles and steps of an outbreak investigation

Module 2.1

### Case study on waterborne outbreak of Cryptosporidiosis Participant Guide

### Case study on waterborne outbreak of Cryptosporidiosis Facilitator Guide

- Based on technical guidance developed under the Protocol
- Two modules: water-related disease surveillance and outbreak management
- Case-studies for interactive exercises
- Participant and moderator guidances

# 1. Progress and achievements

## Training material on risk-based surveillance of drinking water developed



- Based on technical guidance developed under the Protocol
  - Background on the key drivers of drinking-water surveillance
  - Main concept of risk based approaches in drinking water surveillance
  - Case studies and expert interviews
  - Knowledge tests
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- Supported by WHO Collaborating Center at the University of Surrey, Guildford

# 1. Progress and achievements

Supporting the revision of the drinking-water quality standard in Azerbaijan

Hands-on technical advice to the national Working Group:

- Undertaking a baseline analysis
- Defining scope and thematic coverage of the national standard
- Defining set of core, operational and possible supplementary drinking-water quality parameters
- Establishing requirements for risk-based surveillance: monitoring priorities and frequencies
- Integrating key principles of the WHO-recommended risk-based approach (WSP);
- Setting requirements for remedial actions/procedures in case of exceedances
- In-country mission by WHO/Europe (25-27 May 2022)

# 1. Progress and achievements

## Collation of evidence on Legionella

- Burden of legionellosis in the pan-European region, including data mining from countries in EECCA
- Survey of regulatory and surveillance frameworks on Legionella
- Supported by Hungary, Belarus and WHO Collaborating Center at the Bonn University

## Expert meeting on Legionella prevention and control, virtual, 30 Nov-2 Dec 2022

- Appraise the situation in the region
- Discuss Legionella prevention and control in building systems, surveillance of legionellosis and promote exchange of good practices
- Support setting targets and discuss priorities for action in countries and under the Protocol
- Over 70 experts from 28 countries
  
- Hosted by Hungary and organised jointly with Belarus, Norway, the secretariat

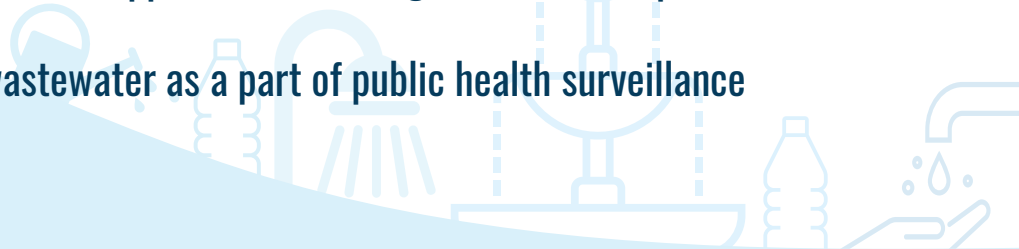
Note: Organization of in-person capacity building trainings on water-related disease and drinking-water quality surveillance were affected by COVID-19 and shifted to the next programme of work.



# 2. Lessons learnt for future work

## Building forward better from the pandemic and emerging topics

- Maintain effective monitoring and surveillance of water supply systems in normal times and during emergencies
- Surveillance of legionella in building water systems, including in emergencies
- Recent developments in EU Directive 2020/2184 on the quality of water intended for human consumption will support scaling up implementation of a risk-based approach in drinking-water service provision
- Environmental surveillance of SARS-COV-2 in wastewater as a part of public health surveillance



# 3. Plans for future work in this area

## Objectives

Support Parties and other States in implementing article 8 of the Protocol, specifically in:

- a) improving, maintaining and sustaining surveillance and early warning systems of water-related disease, preparedness and contingency planning, and response to outbreaks and water quality incidents;
- b) building national capacities for risk-based surveillance of drinking water supply and quality; and
- c) improving environmental surveillance of SARS-CoV-2 and other disease agents of concern in wastewater as an integral part of public health surveillance.

\*Based on the draft programme of work for 2023-2025



# 3. Plans for future work in this area

## Surveillance and outbreak management of water-related diseases

- a) Up to three subregional and/or in-country capacity-building activities
- b) Evidence review on Legionella control and prevention for the pan-European region
- c) Up to three national and/or subregional capacity-building events on prevention and control of Legionella

## Risk-based surveillance of drinking water supply and quality

- a) Up to three subregional and/or national capacity-building and networking activities (jointly with programme areas 4 and 5)
- b) Support countries in setting national regulations and standards for drinking-water quality and application of risk-based approaches in surveillance (upon request)

## Environmental surveillance of wastewater

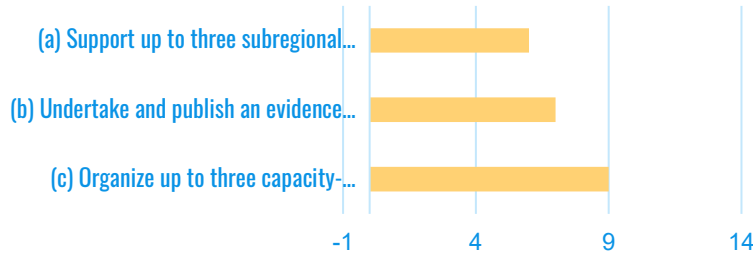
- a) Expert meeting on environmental surveillance of SARS-CoV-2 in wastewater
- b) Support countries in developing procedures or regulations for setting up environmental surveillance programmes for SARS-CoV-2 and other disease agents (upon request)

\*Based on the draft programme of work for 2023-2025

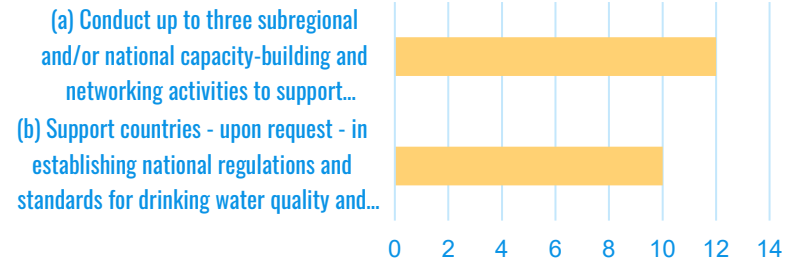


# Survey result for programme Area 2

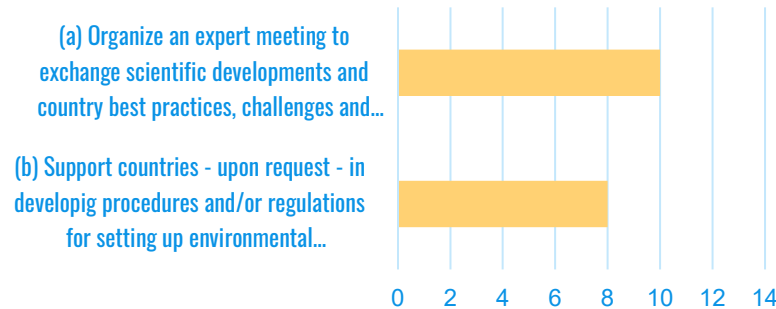
## 2.1 Strengthen national capacities for surveillance and outbreak management of water-related diseases



## 2.2 Strengthen national capacities for risk-based surveillance of drinking water supply and quality



## 2.3 Improve capacity of environmental surveillance of wastewater



**Thank you for your attention!**

