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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

WS/T 774-2021

**Evaluation criteria for on-site disinfection during the new crown
pneumonia epidemic
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2020.

Drafting organizations of this standard. China Center for Disease Control and Prevention, Environmental and Health Related Product Safety Institute, PLA Center for Disease Control and Prevention, Beijing Municipal Center for Disease Control and Prevention, Jiangsu Provincial Center for Disease Control and Prevention, Shanghai Municipal Center for Disease Control and Prevention, Hubei Provincial Center for Disease Control and Prevention Center, Shandong Provincial Center for Disease Control and Prevention, Guangdong Provincial Center for Disease Control and Prevention, Wuhan Municipal Center for Disease Control and Prevention, Heilongjiang Province Disease Control Center Prevention and Control Center

1 Scope

This document stipulates the principles of on-site disinfection evaluation, disinfection process evaluation, disinfection effect evaluation and precautions during the new crown pneumonia epidemic.

This document is suitable for on-site disinfection evaluation related to the new crown pneumonia epidemic.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated reference documents, Only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document file.

GB/T 38502 Test Method for Laboratory Sterilization Effect of Disinfectants WS/T 683 Microbiological requirements for disinfection test

3 Terms and definitions

The following terms and definitions apply to this document.

Preventive disinfection Disinfection of places and objects that may be contaminated by pathogenic microorganisms when there is no clear source of infection.

Disinfection of epidemic focus Disinfection of the contaminated environment and articles in the foci. The foci is the range that the pathogenic microorganisms discharged from the source of infection can spread.

Terminal disinfection Thorough disinfection after the source of infection leaves the foci.

Concurrent disinfection when there is a source of infection, timely disinfection of the environment and articles that may be contaminated by the pathogens discharged from it.

Process evaluation

According to the evaluation of each link of on-site disinfection, through the verification of key factors such as the disinfection work plan, disinfection products, and disinfection operations, the evaluation Whether the on-site disinfection work is qualified.

Disinfection effect evaluation for the evaluation of on-site disinfection effect, by testing the reduction of microorganisms before and after disinfection, evaluate whether the quality of on-site disinfection work is appropriate grid.

Cryogenic disinfection Disinfection of the environment or articles whose temperature is below 0°C. Low-temperature disinfection requires the use of disinfection factors that have been proven effective at this temperature.

Responsible entity

During on-site disinfection, the unit or institution that is responsible for the on-site disinfection work carried out.

Implementing entity

The responsible unit or the unit or institution entrusted by the responsible unit to be responsible for the specific implementation of disinfection operations.

3.10

Evaluation entity

Entrusted by the unit responsible for disinfection, the unit or institution responsible for carrying out on-site disinfection process evaluation and disinfection effect evaluation.

4 Evaluation principles

4.1

The responsible unit for on-site disinfection shall be responsible for determining the implementation unit and the evaluation unit and supervise the implementation of the on-site disinfection and evaluation work. The implementation unit shall Responsible for the implementation of on-site disinfection work, the evaluation unit should have the corresponding capabilities for process evaluation and disinfection effect evaluation.

4.2

On-site disinfection evaluation includes process evaluation and disinfection effect evaluation.

4.3

All on-site disinfection should be subject to process evaluation, and records should be made and kept as required.

4.4

The disinfection effect should be evaluated in one of the following six situations.

- a) Preventive disinfection with a wide range of disinfection and a long duration;
- b) End-of-life disinfection of foci of major social impact;
- c) The disinfection implementing unit carried out on-site disinfection for the first time;
- d) Perform on-site low-temperature disinfection for the first time with low-temperature disinfection technology;
- e) Disinfectants and disinfection instruments produced with new materials, new technology and new sterilization principles will be disinfected on site for the first time;
- f) There is demand on site.

5.1 Evaluation content

The evaluation of the disinfection process mainly includes the links of disinfection products, disinfection operations, and disinfection work plans.

5.1.1 Disinfecting products

The disinfection products used should meet the relevant national health standards and regulatory requirements, and the health and safety evaluation should be qualified.

Disinfectant evaluation information includes disinfection the name of the agent, the main active ingredients and their content, expiry date, preparation method, scope of use, method of use, etc. Sterilization equipment evaluation information includes the name of the device, the main sterilization factor and its strength, the scope of use, the method of use, etc.

5.1.2 Disinfection operation

Evaluate whether the entire disinfection operation is carried out in accordance with the disinfection work plan, including but not limited to the scope of disinfection, procedures, and disinfectant preparation.

Preparation, use of disinfection equipment, personal protection, etc. At the same time, check whether the disinfection records are standardized, including disinfection date, disinfection location, disinfection object, for the concentration and dosage of disinfectant, action time, disinfection method, etc., please refer to Appendix A for the record sheet.

5.2 Evaluation method

The evaluators participate in the on-site disinfection process throughout the entire process, and check on-site disinfection operations and related disinfection records.

5.3 Judgment of results

The evaluation content of the disinfection process meets the requirements of relevant laws, standards, guidelines or programs before the disinfection process can be judged as qualified.

6.1 Evaluation object

The disinfection effect evaluation objects include the surface of the object and the air. When disinfecting the environment or/and objects, the surface disinfection effect of objects should be evaluated;

When disinfecting air, the effect of air disinfection should be evaluated.