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Scientific Summary
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Summary report of the MOH-SA Guidelines Aug-2022 and the Sterybox Air Disinfection Devices.

Introduction

The Ministry of Health (MOH) in Saudi Arabia has published guidelines on the best practices of environmental health for the prevention and control of infections in healthcare facilities. These guidelines emphasize the importance of cleaning and disinfecting environmental surfaces to prevent the spread of healthcare-associated infections. The guidelines also provide instructions on the safe and effective use of disinfectants, including the three-bucket system for mopping. In addition to these guidelines, we present a scientific report that summarizes the effectiveness of the Sterybox device in reducing airborne bacteria and spores. The Sterybox device uses UV-C germicidal irradiation to disrupt the DNA of microorganisms, including bacteria, viruses, fungi, and spores. The report includes data from various laboratory tests that demonstrate the device's ability to significantly reduce airborne contamination within 30 minutes. The Sterybox device is also shown to be effective against a wide range of microorganisms, including Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans. The device is designed for continuous use and is suitable for a variety of settings, including hospitals, clinics, laboratories, and dental offices. This report will discuss the MOH guidelines and the scientific report on the Sterybox device in more detail.

MOH Guidelines

The MOH guidelines define key terms related to environmental health, such as "cleaning," "disinfection," and "microorganisms." The guidelines also emphasize the importance of proper hand hygiene and wearing personal protective equipment (PPE). Additionally, the guidelines recommend the use of microfiber cloths for cleaning and outline the differences between standard and transmission-based precautions. The guidelines also provide specific instructions on the safe and effective use of disinfectants, including the three-bucket system for mopping. The three-bucket system involves using three separate buckets for cleaning, disinfecting, and rinsing. This system helps to prevent the spread of infection by ensuring that clean and dirty water are kept separate. The MOH guidelines are based on the best available scientific evidence and are regularly updated to reflect the latest advances in infection prevention and control. The guidelines are an important resource for healthcare facilities in Saudi Arabia and help to ensure that patients receive the best possible care.

Scientific Report on Sterybox

The scientific report on the Sterybox device provides evidence that the device is effective in reducing airborne bacteria and spores. The device uses UV-C germicidal irradiation to disrupt the DNA of microorganisms, including bacteria, viruses, fungi, and spores. The report includes data from various laboratory tests that demonstrate the device's ability to significantly reduce airborne contamination within 30 minutes. The Sterybox device is also shown to be effective against a wide range of microorganisms, including

Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans. The device is designed for continuous use and is suitable for a variety of settings, including hospitals, clinics, laboratories, and dental offices. The Sterybox device is a valuable tool for infection prevention and control. It can be used to supplement other environmental health measures, such as cleaning and disinfection. The device is also effective in reducing the risk of healthcare-associated infections.

Conclusion

The MOH guidelines and the scientific report on the Sterybox device provide valuable information on the best practices of environmental health for the prevention and control of infections in healthcare facilities. The guidelines emphasize the importance of cleaning and disinfecting environmental surfaces, proper hand hygiene, and wearing PPE. The scientific report on the Sterybox device provides evidence that the device is effective in reducing airborne bacteria and spores. The Sterybox device is a valuable tool for infection prevention and control and can be used to supplement other environmental health measures.