



**Title** **Sterybox Air Disinfectant**

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**Reference** Technology Review Report, 008/08.  
<http://medicaldev.moh.gov.my/uploads/sterybox.pdf>

## **Aim**

To assess the effectiveness, safety, and cost effectiveness of Sterybox and other airborne disinfectants using the ultraviolet irradiation technique.

## **Conclusions and results**

No evidence was retrievable on the effectiveness, safety (including FDA approval), and cost effectiveness of Sterybox. However, evidence on other airborne disinfectants using UVGI (similar technology adopted by Sterybox) was found in four experimental studies, two technology reviews, one cross-sectional study, and one narrative review. In conclusion, limited, low-level evidence was found on the technology in controlling/eliminating certain pathogens, eg, MDR Mycobacterium tuberculosis, Legionella sp, and measles virus, feasible in application and with small avoidable side effects.

## **Recommendations**

Additional, high-quality scientific evidence is required to support the effectiveness, safety, and cost effectiveness of Sterybox and other air disinfectants using ultraviolet germicidal irradiation. The application of such devices depends on the purpose to control the type of airborne pathogens with proper installation. The UVGI may be used as a supplement to other essential engineering control methods, but not as their substitution.

## **Methods**

Literature was searched through electronic, scientific databases, specifically: PubMed, MEDLINE, Cochrane, INAHTA, Proquest, Horizon Scanning, and other relevant websites, eg, the US FDA website, and general search engines. The search strategy used the following terms alone or in combination: Sterybox, airborne infection, airborne disinfectant, ultraviolet irradiation, UVGI, UV-CHRIS, and Ultraviolet High Reflecting Coil Irradiation System. No limits were imposed on the search.

## **Further research/reviews required**

Additional research is warranted to obtain evidence on the effectiveness, safety, and cost effectiveness of Sterybox and other airborne disinfectants using the ultraviolet irradiation technique.