

## **PP80 THE EFFECTIVENESS AND SAFETY OF THE DISINFECTION TUNNEL FOR COVID-19: A NARRATIVE REVIEW**

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### **INTRODUCTION**

The use of a disinfection tunnel has become increasingly popular to eliminate the Covid-19 on the body particularly during the pandemic, however insufficient attention paid to its effectiveness and safety. We undertake a narrative review on the disinfection tunnel and evaluate their effectiveness and safety.

### **METHODOLOGY**

The literature search was conducted for the period of 2015–2020 because it was during this period that coronavirus infection became a topic of concern in medical and public health practice. The objective of the review is to identify the type of disinfection tunnel and evaluate its effectiveness and safety. Studies included in the review were by search of database Medline, EBM reviews, EMBASE via OVID, PubMed, and from the general search engines [google scholar and US Food and Drug Administration (USFDA)]. Keywords search included disinfection tunnel box or

chamber or gate or walkaway or booth or partition and effective or effectiveness and safe or safety.

### **RESULTS**

Analysis of the papers reviewed were categorized into three main themes: technical design of disinfection tunnel; effectiveness of disinfectant used; and safety or harmful effect. To date, no relevant specific scientific studies or evidence retrieved about disinfection tunnel for public usage including effectiveness and safety.

### **CONCLUSION**

Various designs of disinfection are present in the market today. It originated from an innovative idea to assist in limiting the spread of Covid-19. However, currently available evidence does not support its effectiveness and safety. Although it may lead to a false sense of security, this potential approach appears attractive thus creates an opportunity for further research.

**KEYWORDS:** Disinfection tunnel, sanitization, safety, effectiveness