

Effectiveness of Ultraviolet Light and Infection Control

Article: “Effectiveness of ultraviolet-C light treatment of shoes in reducing the transfer of pathogens into patient rooms by shoes of healthcare personnel”

1. **POSTER TITLE:** “These Shoes Were Made for Disinfectin”
2. **REFERENCE:**

Torres-Teran, M. M., Bennett, C. T. P., Osborne, A. O., Cadnum, J. L., Wilson, B. M., & Donskey, C. J. (2022a, September 30). *Effectiveness of ultraviolet-C light treatment of shoes in reducing the transfer of pathogens into patient rooms by shoes of healthcare personnel: Infection Control & Hospital Epidemiology*. Cambridge Core. <https://doi.org/10.1017/ice.2022.242>

3. **MULTIPLE CHOICE QUESTION + ANSWER:**

Multiple choice question: A nursing research team is evaluating interventions to reduce the spread of healthcare-associated pathogens into patient rooms. Based on the study, which outcome best demonstrates the effectiveness of UV-C shoe decontamination?

- A. UV-C treatment completely eliminated transfer of *Clostridioides difficile* spores from shoes to patient room floors.
- B. UV-C treatment significantly reduced the transfer of vegetative bacterial pathogens from shoes to floor.
- C. UV-C treatment was ineffective unless applied for longer than 30 seconds.
- D. UV-C treatment reduced pathogen transfer only when combined with liquid disinfectants.

Answer: B. UV-C treatment significantly reduced the transfer of vegetative bacterial pathogens from shoes to floor.

4. **PAGE AND PARAGRAPH NUMBER FOR ANSWER:**

Page: Pg. 1363

Paragraph: First paragraph under the “results” section