

## UV Published Research References

### 1 Onboard Air Published Research

#### 1.1 Effect of Ultraviolet Germicidal Irradiation on Viral Aerosols

Walker, Christopher M., Ko, GwangPyo. (2007). Effect of Ultraviolet Germicidal Irradiation on Viral Aerosols. *Environ. Sci. Technol.*, 41(15): 5460–5465. <https://doi.org/10.1021/es070056u>

#### 1.2 Ultraviolet Germicidal Irradiation: Current Best Practices

Martin, Jr., Stephen B., Dunn, Chuck, Freihaut, Jim, Bahnfleth, William, Lau, Josephine, & Nedeljkovic-Davidovic, Ana. (2008). Ultraviolet germicidal irradiation: Current best practices. *ASHRAE Journal*, 50: 28-30+32. [https://www.ashrae.org/file\\_library/technical\\_resources/covid-19/martin.pdf](https://www.ashrae.org/file_library/technical_resources/covid-19/martin.pdf)

#### 1.3 Surface and air: What impact does UV-C at the room level have on airborne and surface bacteria?

Linda D. Lee, DrPH, MS, MBA. (2017). Surface and air: What impact does UV-C at the room level have on airborne and surface bacteria? *Canadian Journal of Infection Control*, 32(2): 108-111. [https://ipac-canada.org/photos/custom/CJIC/IPAC\\_Summer2017\\_Linda%20Lee.pdf](https://ipac-canada.org/photos/custom/CJIC/IPAC_Summer2017_Linda%20Lee.pdf)

#### 1.4 Effectiveness of a shielded ultraviolet C air disinfection system in an inpatient pharmacy of a tertiary care children's hospital

Guimera, D., Trzil, J., Joyner, J., & Hysmith, N. D. (2017). Effectiveness of a shielded ultraviolet C air disinfection system in an inpatient pharmacy of a tertiary care children's hospital. *American Journal of Infection Control*, 46(2): 223–225. <https://doi.org/10.1016/j.ajic.2017.07.026>

#### 1.5 Cleaning the air with ultraviolet germicidal irradiation lessened contact infections in a long-term acute care hospital\*

Tina Ethington, Sherry Newsome, Jerri Waugh, Linda D. Lee. (2018). Cleaning the air with ultraviolet germicidal irradiation lessened contact infections in a long-term acute care hospital. *American Journal of Infection Control*, 46(5): 482-486. <https://doi.org/10.1016/j.ajic.2017.11.008>

#### 1.6 Rapid and complete inactivation of SARS-CoV-2 by ultraviolet-C irradiation

Storm, N., McKay, L.G.A., Downs, S.N., *et al.* (2020). Rapid and complete inactivation of SARS-CoV-2 by ultraviolet-C irradiation. *Sci Rep*, 10: e22421 <https://doi.org/10.1038/s41598-020-79600-8>

#### 1.7 Evaluating the Utility of UV Lamps to Mitigate the Spread of Pathogens in the ICU

Gostine A., Gostine D., Short J., Rustagi A., Cadnum J., Donskey C., Angelotti T. (2020). Evaluating the Utility of UV Lamps to Mitigate the Spread of Pathogens in the ICU. *Applied Sciences*, 10(18): 6326. <https://doi.org/10.3390/app10186326>

\* Study is referenced because it includes a discussion of the effect of operating continuous shielded UV-C at the room level on airborne bacteria. Inclusion of the study is not intended to make any medical claim regarding the cure, mitigation, treatment, or prevention of disease.

**1.8 Evaluation of multiple ICU fixed in-room air cleaners with ultraviolet germicidal irradiation, in high-occupancy areas of selected commercial indoor environments**

Linda Lee, George Delclos, Matthew Lee Berkheiser, Monique Barakat & Paul Jensen. (2021). Evaluation of multiple fixed in-room air cleaners with ultraviolet germicidal irradiation, in high-occupancy areas of selected commercial indoor environments, *Journal of Occupational and Environmental Hygiene*, Epub ahead of print. <https://doi.org/10.1080/15459624.2021.1991581>.