Pros and Cons of Common Disinfection Methods

The Canadian National Collaborating Centre for Environmental Health published an article weighing the pros and cons of chemical fogging, UVC germicidal light, and electrostatic disinfection of interior spaces.

To summarize their article, if you are using chemicals to fog a room, an important take away is to make sure you are matching your sprayer type with the correct chemical for effectiveness and safety. In all cases, when fogging, it is important to ventilate the room well afterward before use.

They address the applicability of UV in depth and conclude that it is effective when used in the correct setting.

> *"UVGI technologies have a long track record of providing disinfection of infectious viruses, including those similar in structure to SARS-CoV-2, but careful consideration of the type of application, appropriateness for the spaces, and relevant safety precautions to prevent eye and skin exposure is needed."*

There's a long list of chemicals recommended by the EPA to fight COVID-19, but the most common ones are:

- hydrogen peroxide
- alcohol (ethanol or isopropyl alcohol)
- sodium hypochlorite (bleach)\
- benzalkonium chloride (found in most Lysol® products)
- peroxyacetic acid (found in surface cleaners and sanitizers)

Here's a link to the full article: COVID-19 in indoor environments — Air and surface disinfection measures

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