



UVC light Disinfection

“The New Standard of Clean”

Great Lakes UV Disinfection Services LLC
Tim Bedell Owner

Great Lakes UV Disinfection Services

Great Lakes Disinfection was founded with the goal of providing hospital grade cleaning technology to everyday consumers. As a nurse in an ICU Tim has seen the devastating effects infection can have and the detriment it can play in one's life. However, working in a hospital has also allowed Tim to learn of an age old technology that has been developed into formats to help prevent infection: UVC light. This technology has given hospitals the ability to clean their patient rooms and surgical suites to levels not otherwise possible. This same technology has now been made portable and available to be utilized in homes, offices, gyms, restaurants.....the list goes on.

Please allow us to educate you on this "New Standard of Clean" and how it can benefit you.

A little background on the technology:

- UVC light has been used for over 100 years in various applications to prevent the spread of infection.
- Used in cleaning municipal water sources in France starting in the early 1900's
- First used in hospitals in the 1930's
- Great increase in commercial applications post WWII

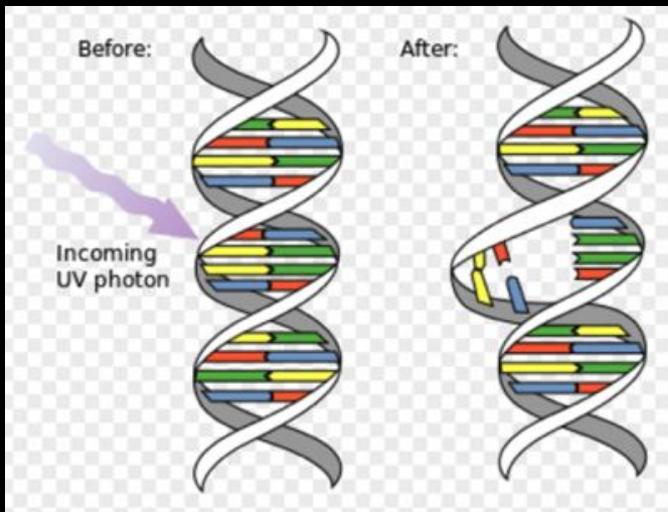
UVC Cleaning Systems M15



Great Lakes Disinfection has partnered with UVC Cleaning Systems, based right here in Michigan, to offer UVC cleaning technology to you. The M15 is a very easy to use and self contained unit. Do not let the mobility fool you! It offers the same high level cleaning capability as the machines that hospitals utilize.

So how does this work?

UVC light kills microbes by damaging their DNA. This damage makes it impossible for the organism to replicate; thus leaving it inactive.



Traditional cleaning habits appear to be doing a great job.....or are they?

Traditional cleaning achieves up to a 99.9% reduction in microbes if done properly. This level of cleaning involves using chemicals to sanitize surfaces; and is only done effectively if performed to the manufacturer's specifications. Which may involve pre-cleaning surfaces, applying the cleaning solution, and maintaining a wet surface for up to 10 minutes.

Traditional Cleaning is Falling Short

Cleaning with chemicals, if done properly, only achieves 99.9% effectiveness. This sounds great until it is brought down to the microbe world:



www.shutterstock.com 318007297
99.9% reduction in microbes



99.999% reduction in microbes

If 1,000,000 microbes are on a surface to start and effective cleaning takes place with traditional chemicals, as many as 100,000 microbes would still be active on the surface.

This same surface is treated with UVC light with an effectiveness of 99.999%. The microbe load would be reduced to only 1,000 microbes: 100x more effective than traditional cleaning.

More benefits of UVC technology

No human error to reduce
disinfection efficacy

So what can we inactivate?

Bacteria:

Bacillus anthracis - Anthrax
Bacillus anthracis spores - Anthrax spores
Bacillus magaterium sp. (spores)
Bacillus magaterium sp. (veg.)
Bacillus paratyphus
Bacillus subtilis spores
Bacillus subtilis
Clostridium Difficile
Clostridium tetani
Corynebacterium diphtheriae
Ebertelia typhosa
Escherichia coli
Listeria
Leptospira canicola - infectious Jaundice
Micrococcus candidus
Micrococcus sphaeroides
Mycobacterium tuberculosis
Neisseria catarrhalis
Phytomonas tumefaciens
Proteus vulgaris

Bacteria:

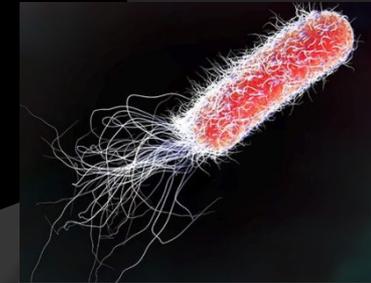
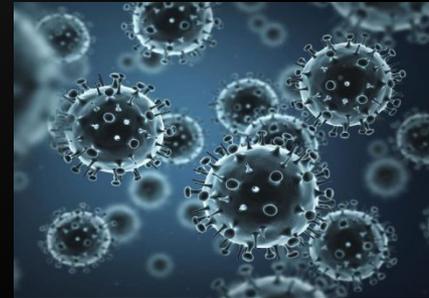
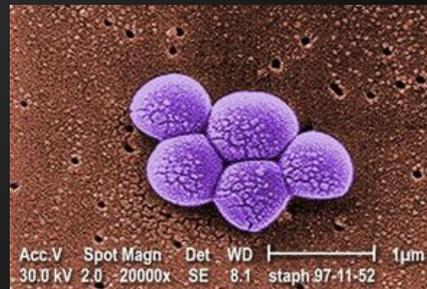
Pseudomonas aeruginosa
Pseudomonas fluorescens
Salmonella enteritidis
Salmonella paratyphi - Enteric fever
Salmonella typhosa - Typhoid fever
Salmonella typhimurium
Sarcina lutea
Serratia marcescens
Shigella dysenteriae - Dysentery
Shigella flexneri - Dysentery
Shigella paradysenteriae
Spirillum rubrum
Staphylococcus albus
Staphylococcus aureus
Staphylococcus hemolyticus
Staphylococcus lactis
Streptococcus viridans
Vibrio comma - Cholera

Viruses:

Bacteriophage - E. Coli
Infectious Hepatitis
Influenza
Poliovirus -
Poliomyelitis
Tobacco mosaic
Norovirus
Yeast
Brewers yeast
Common yeast cake
Saccharomyces
carevisiae
Saccharomyces
ellipsoideus
Saccharomyces spores

Molds:

Aspergillus flavus
Aspergillus glaucus
Aspergillus niger
Mucor racemosus A
Mucor racemosus B
Oospora lactis
Penicillium
expansum
Penicillium
roqueforti
Penicillium
digitatum
Rhisopus nigricans



The Next Steps

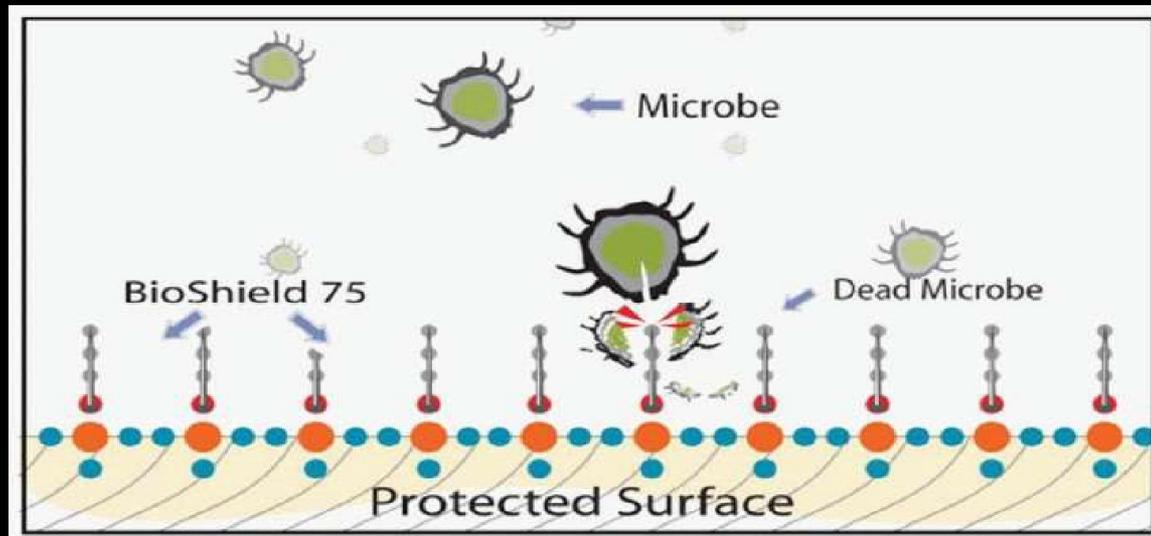
So we've properly
disinfected your rooms;
now what?

Microbeshield



Microbeshield is proudly offered as a continuous protective coating. It has been proven to kill microbes for 30 – 90 days. This amazing ongoing protection is done without the use of harsh chemicals and is environmentally friendly.

Microbeshield



Thank you for allowing us to share this exciting information with you. Please feel free to visit

www.GreatLakesDisinfection.com and our Facebook page for more information, monthly specials and exciting updates.