



Partnership that Pays

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Agenda

DISINFECTION by *Chemical Approach*



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Cleaning Professionals

A Hygienic and Scientific Hand Washing continues to be best prayer in the Hospital



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Terminology

- **Biocide or germicide:** kills microorganisms
- **Fungicide:** kills fungi
- **Virocide:** inactivates viruses
- **Bacteriostatic agent:** stops growth of bacteria
- **Antiseptic:** chemical destruction of vegetative pathogens on living tissue
- **Degerming:** mechanical removal of microbes from limited area
- **Sanitization:** lowering microbial counts on eating and drinking utensils to safe levels
- **Disinfectant** – chemical germicide used on inanimate objects only, with or without tuberculocidal activity

Microbes/Micro Organism

- **Organisms or living particle too small to be seen clearly by the naked or normal eye .**
- **Present every where like water, soil, air, food, surface, soil, animals, plants, etc.**
- **Microbes are even present in Human Digestive System.**
- **Microbes as both good & bad characters.**

Microbes/Micro Organism

- Micro Organisms are
 - Bacteria - Typhoid, diarrhoea, soar throat, wounds, etc
 - Virus - HIV, Jaundice, cold & Cough etc.
 - Fungi - Bread spoilage, coconut, etc.
 - Algae - Pond, Water Tank
- Bacteria can double their count in 20 minutes.
- Virus & Spores are always in inactive condition, become active in favorable conditions.
- Algae grows only in the presence of water & sun light.
- Spores of reproductive part of microbes.
- Bacteria causes most of the diseases and virus causes dangerous diseases.



What is Cleaning?

For so long now, we have believed that clean is defined by
-what our eyes can see.

Our aim is to create awareness towards invisible contamination
that is a threat to the society on a daily basis.



Why Cleanliness is important ?

- It is by now widely acknowledged that infectious diseases are transmitted far more easily and rapidly in closed environments through which many people pass. e.g. Hospitals, Schools, Office, Public Transport etc.
- Humans, being the rather revolting creatures they are, constantly shed, secrete, and transfer various distasteful substances onto the surfaces they touch and approach. Contact with such surfaces are often unavoidable, but to reduce personal contamination to some degree we should go for cleaning and disinfection process.



Disinfection

- Destruction of many but not all micro-organisms on inanimate objects

- ▲ High level disinfection
- ▲ Intermediate level disinfection
- ▲ Low level disinfection

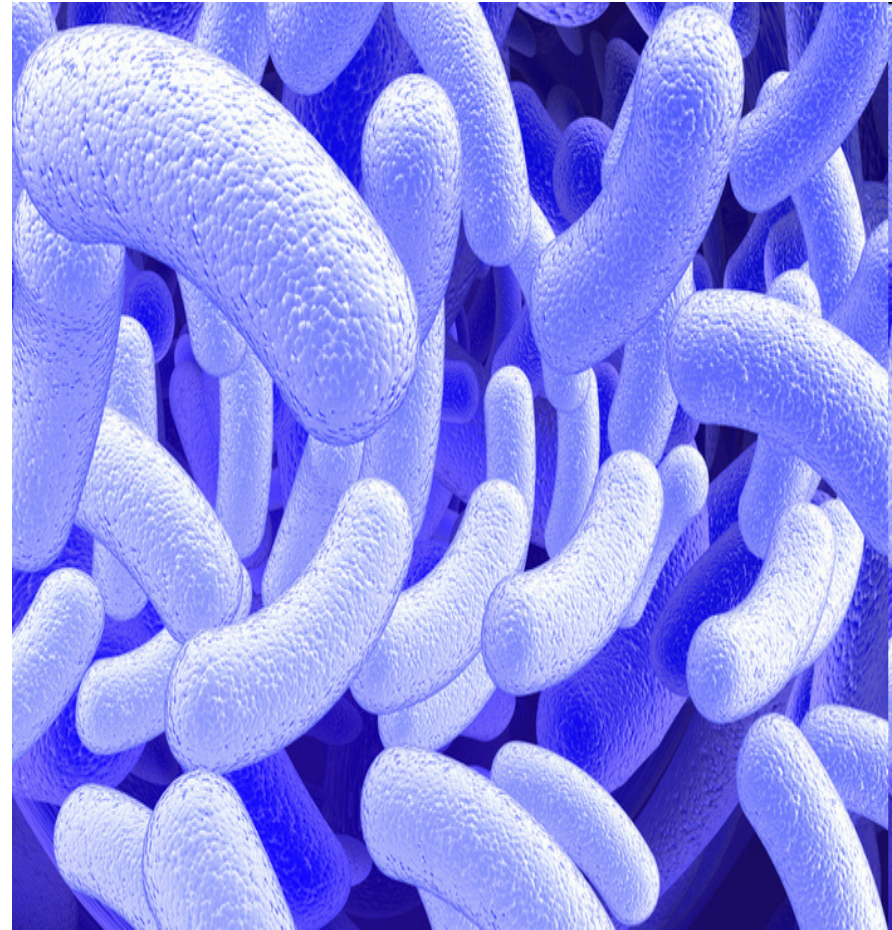


High level disinfection

■ High level disinfection processes destroy vegetative bacteria, mycobacteria, fungi and enveloped (lipid) and nonenveloped (non lipid) viruses, but not necessarily bacterial spores. High level disinfectant chemicals (also called chemical sterilants) must be capable of sterilization when contact time is extended. Items must be thoroughly cleaned prior to high level disinfection.

Intermediate level disinfection:

Intermediate level disinfectants kill vegetative bacteria, most viruses and most fungi but not resistant bacterial spores



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Low level disinfection

Low level disinfectants kill most vegetative bacteria and some fungi as well as enveloped (lipid) viruses (e.g., hepatitis B, C, hantavirus, and HIV). Low level disinfectants do not kill mycobacteria or bacterial spores. Low level disinfectants are typically used to clean environmental surfaces.

Microbicidal Process

▲ Sanitization

Process of reducing contaminants to a safe level

▲ Disinfection

▲ Sterilization

Destruction of all viable form of micro-organisms

Holistic Sanitization

Air & Large Area
Fogging

Floors & Hard
Surfaces

Fabrics,
Upholstery, Beds
& Other Surfaces

Equipment &
Furniture

Washrooms &
Toilets

Personal Hygiene

Chemical Methods

- ▲ Disinfectants and antiseptics
- ▲ Surface-active agents (surfactants)
- ▲ Chemical food preservatives
- ▲ Aldehydes
- ▲ Gas sterilization
- ▲ Oxidizing agents
- ▲ [Antibiotics]

Antiseptics versus Disinfectants

Antiseptics:

- ▲ Use on skin and mucous membranes to kill microorganisms
- ▲ **Not** for use on inanimate objects

Disinfectants:

- ▲ Use to kill microorganisms on inanimate objects
- ▲ **Not** for use on skin or mucous membranes
- ▲ High-level versus low-level disinfectants



Decreasing order of resistance to Disinfectants

- ▲ Prions
- ▲ Spores
- ▲ Mycobacteria
- ▲ Non-Enveloped Viruses
- ▲ Fungi
- ▲ Bacteria
- ▲ Enveloped Viruses

Chemical Sterilizers

- ▲ Glutaraldehyde (> 2.0%)
- ▲ Hydrogen peroxide-HP (7.5%)
- ▲ Peracetic acid-PA (0.2%)
- ▲ HP (1.0%) and PA (0.08%)
- ▲ HP (7.5%) and PA (0.23%)
- ▲ Glut (1.12%) and Phenol/phenate (1.93%)

Recommendations

- ▲ Germicide should be labeled providing effective use, contact time, use temperature, reuse pattern, shelf life.
- ▲ Tuberculocidal or pseudomonocidal

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The Cleaner's Specialization

- **We specialize in proactive germicidal disinfection caused by Airborne, Waterborne & surface pathogens.**
- **Our products and services combat airborne and surface pathogens.**
- **We are committed to prevent infectious diseases & pathogens in an environment friendly manner.**
- **Our unique solutions work to limit the spread of infectious disease ,including major public health threats of Tuberculosis , E.Coli ,Influenza (Corona) , Logionella, etc. Our disinfectants are extremely safe, user friendly and biodegradable .**



Cleaning & Disinfection Process

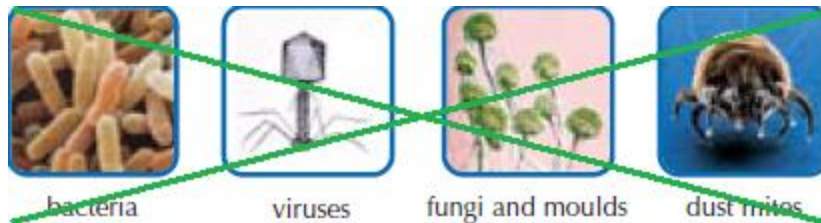
We follow specific disinfection process for specific purpose-

- ***Hospital Disinfection & Sanitization:***

1. **OT Sanitization**
 1. Fumigation - OT
 2. Spray and Wipe – Surfaces and Equipment
 3. Vacuum – Floor
2. **ICU Sanitization**
 1. Spray & Wipe
 2. Steaming
 3. Vacuum
 4. Periodic fumigation
3. **Reception, Public and General areas**
 1. Spray & Wipe
 2. Vacuum
 3. Fumigation
4. **Path Labs**
 1. Spray & Wipe
 2. Vacuum
5. **Linen, Bedding & Pillows**
 1. Steam
 2. Chemical Treatment
 3. Extraction



Thank you



Let **The Cleaner** assist you
control infections the **GREEN** way

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