

# Agents for chemical disinfection

## Disinfections

### Methods Of Disinfection

there are several methods which can be used for disinfection and these include

1. Physical
2. Chemical

#### Physical Method

these can include the use of hot air, ultrasonic and also dry air

#### Chemical Method

they can be further subdivided into 3 groups namely

- Membrane Active Disinfection
- Fixation Of Cell Membrane
- Membrane Oxidizing

- **Membrane Active Disinfection**

These oxidize the cell membrane of bacteria and this leads to the loss structure and ultimately cell death. Examples include iodine, sodium hypochlorate

- **Fixation Of Cell Membrane**

These attach to the cell membrane of the bacteria and block the release of cell components. these include formaldehyde and glutaldehyde

- **Membrane Oxidizing**

These oxidize the cell membrane of bacteria and this leads to the loss structure and ultimately cell death. Examples include iodine, sodium hypochlorate

Several conditions have to be taken into consideration when determining the effectiveness of the disinfectant and these are

1. Spectrum of Activity
2. pH of the activity
3. Stability of Disinfection
4. concentration of Disinfection