

Antispetics & disinfectants Cheat Sheet by sam219 via cheatography.com/201893/cs/45434/

Alcohols		
Ethanol	Isopropanol	Ethylene oxide (Oxirane)
70% solution for lipo-hydrophilic balance and max antiseptic effects.		Not safe: Carboxide (1:9 ratio of oxirane & CO2) is safe.
		MOA: Alkylator of nucleic acid & proteins.

Aldehyde "Formalin": Alkylator of MO proteins through carbinol formation.

Halogen-containing compounds.

Iodophors

lodine tincture

I- salts are added to solubilize iodine and decrease volatility (ex, potassium iodide).

Povidone iodine (Betadine)

Complex of polyvinyl pyrrolidine + iodine; 9-12% of polymer is iodine.

Advantages: Non-irritant, non-staining, non-toxic, non-volatile, water soluble.

MOA: Inactivation of proteins by **lodination** (of double bonds/aromatic rings) or Thiol (SH) oxidation.

Mercury compounds

Nitromersal; Thiomersal (Merthiolate sodium)

MOA: Inactivate proteins and enzymes contiaing thiol (SH) group by a **covalent compound of R-S-Hg-R formed**.

Phenols & de	eriv.			Oxidizing agents	
	2) 4) Resorcinol & Hexac	,	5) Anthrali	Carbamide peroxide	Benzoyl peroxide
	resorcinol monoacetate			Urea + Hydrogen peroxide	30% water; safer.
phenolated weaker than active ttt of calamine phenol than psoria as anaest- (lower PC) & phenol alope	ttt of psoriasi		Keratolytic agent in 5- 10%		
	,	resorcinol (SAR) monoac-	ohenol alopecia (SAR) eczema	Anti-septic & disinfectant.	For ttt of acne.
	monoac-			MOA: Protein denaturation through oxygen released (like H2O2) causing direct oxidant action.	
	3) P-chol-	Not	MOA:	action.	
	oro-m used xylenol & now	decreases Dyes epidermal			
	dichloro-m- xylenol		DNA synthes and	Triphenylmethane dye is	Phenot- hiazine dyes
	babies r nerves.	mitosis.	Gentian/crystal violet	Methylene blue	

Cationic surfactants

Benzalkonium Cetyl pyridinium chloride chloride.

MOA: Cell lysis by interfering with enzymes of cell wall & membrane.

Advantages: Broad-spectrum, non-toxic, stable.

Disadvantages: Inactivated by anionic surfactants (like soap) and organic matter (pus), not sporicidal.

Nitrofurane deriv.

Nitrofurazone	Furazolidone	Nitrof-			
		urantoin			
Topical	GIT & diarrheal	ttt of			
antiseptic.	infections	UTI.			
Identify structures.					

in acid, inactive in base.

thionium
ion (+ve
sulfur)

Uses: ttt of tinea, Vaginal
supp. for yeast infect., Oral
anthelmintic.

pH dependent activity; active

Silver sulfadiazine

Antiseptic & antibacterial used for wounds and burns.

Silver (Ag) has same MOA as mercury.



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Page 1 of 1.

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