### CHEMISTRY IN EVERYDAY LIFE

#### **ANTACIDS**

- Neutralizes excess acid.
- Cimetidine, Ranitidine, Mg(OH)<sub>2</sub>

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#### **ANTI-HISTAMINE**

- Prevents Effects of Histamine.
- Bromopheniramine, Terfenadine.

#### **TRANQUILIZERS**

- Relieves anxiety and stress.
- Iproniazid, Phenelzine, Chlordiazepoxide, Meprobamate, Equanil (Hypertension & Depression).

#### **BARBITURATES**

- Sleep Inducing agents
- Veronal, Amytal, Nembutal, Luminal, Valium, Serotonin.

#### **ANALGESICS**

Pain Relievers without affect to nervous system.

# Morphine (Opiates from Opium poppy) Codeine Heroine NON-NARCOTICS Paracetamol (Antipyretic - Reducing fever) Aspirin (Inhibits- prostaglandins - Prevents Arthritis ,Blood clotting Heart attacks)

- Zwitter ion is neutral despite having charges.
- Shows amphoteric behaviour (acidic /h-
- Only Glyning :

#### ANTIFERTILITY

- Conception of Fertility
- Norethindrone, Ethynylestradiol (Novestrol)



#### ANTISEPTICS

Prevent growth of microorganisms - Furacine, Soframycin,



Dettol (Chloroxylenol + Terpineol), Tincture of iodine (2-3 % solution of lodine in water- alcohol mixture), lodoform, Boric acid for eyes.

#### DISINFECTANT

Kill micro-organisms, cannot be applied to living tissues - Cl (0.2-0.4ppm) & SO<sub>2</sub>; 0.2% solution of phenol is an antiseptic while 1% is disinfectant.

#### **ANTIBIOTICS**

Classification - Based on Control of microbial diseases

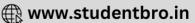
Classification- based on Control of the Control of	
BACTERICIDAL	BACTERIOSTATIC
<ul> <li>Drugs that kill organisms</li> <li>Penicillin, Ofloxacin, Aminoglycosides</li> </ul>	<ul> <li>Drugs that inhibit growth of organisms</li> <li>Erythromycin, Tetracycline, Chloramphenicol</li> </ul>
Classification - Based on Spectrum of action	
BROAD SPECTRUM	NARROW SPECTRUM
act on wide range of	Mainly acts on one type of

Get More Learning Materials Here:

Amoxycillin.

bacteria - Ampicillin,





bacteria - Penicillin-G RR

#### **Artificial Sweetening Agents (ASA)**

- Ortho-sulphobenzimide (Saccharin, First ASA)
- Alitame > Sucralose > Saccharin > Asprartame

#### Sweetness

 Aspartame is methyl ester of dipeptide formed from aspartic acid and phenylalanine.



#### **FOOD PRESERVATIVES**

- Most common: table salt, sugar, vegetable oils and sodium benzoate.
- Others: sorbic acid and propanoic acid

#### SOAPS

- Saponification: Soaps containing Na Salts are formed by heating fat (glyceryl ester of fatty acid) + aq. NaOH
- Glycerol formed is removed by fractional distillation.
- Soap forms insoluble scum with hard water containing Ca<sup>2+</sup> and Mg<sup>2+</sup> ions.

#### SYNTHETIC DETERGENTS

Can be used in both soft and hard water.

#### ANIONIC DETERGENTS

- Sodium salts of sulphonated long chain alcohols or hydrocarbons.
- Used for household work & in Toothpaste
- Sodium dodecylbenzenesulphonate
- Sodium Lauryl sulphate

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#### CATIONIC DETERGENTS

- Quarternary ammonium salts of amines with acetates, chlorides or bromides as anions.
- · used in hair conditioners.
- Cetyltrimethylammonium bromide

#### NON IONIC DETERGENTS

- Non-ionic detergents do not contain any ion in their constitution.
- Esters formed by polyethylene glycol and stearic acid.
- Liquid dishwashing detergents are non-ionic type







