

Competitive Exams: Major Diseases and Medicines in Biology

Diseases

- Cement Disease – Cytosillicosis.
- Hg – Minamata
- Phosphorous – Phossy Jaws
- Textile work us – Byssinosis
- PCB's workers – Yusho disease (Japan – 1968) – Swollen eyelids
- Espundia – Leishmania braziliensis – Mucus membrane
- Absence of single Lysosomal hydrolase – Hurler's disease
- Mononucleosis – Epstein Barr virus
- Blans – Farism – Premature RBS die (so no malaria)
- Ouch- Ouch/ Itai - Itai – Cadmium (Japan) – of bone, liver & Lungs
- Excess F -> Knock Knee disease or Skeletal fluorosis – Hardened joint
- Al – Alzheimer's disease (Al Deposition in brain)
- Gas bubble disease of fish – thermal pollution
- Cotton Dust – Pneumoconiosis – lung fibrosis – Byssinosis
- Aropecia – Efficiency of Vitamin B7 – Diencephalon
- Pompe disease – by the buildup of a complex sugar known glycogen in the body's cells. The accumulation of glycogen in certain organs and tissues, especially muscles, impairs their ability to function normally.
- Asbestos - asbestosis, lung cancer, mesothelioma
- Deficiency of vitamin E in poultry – Encephalomalacia
- Inositol – 'Spectacle eye' Condition in rat – Alopecia

Name of Organ & Infection

- Trachoma – eye
- Cholera – Stomach

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- Rabies – Brain
- Diabetes – Pancreas
- Typhoid – Intestine
- Diphtheria – Throat

Genetic Disorder Disease

- Down's syndrome – 21 trisomy - mental retardation, short body, swelling of tongue, folds of eye
- Patan syndrome – 13 trisomy – infants are deaf, survive less than 6 months.
- Edward syndrome – 18 trisomy – infant's smaller, elongated skull, malformed ear, receding chin, dislocated hips.

Medicines

- 6MP – mercaptopurine – leukemia
- Angina pectoris – nitroglycerin
- PAS – p-amino salicylic acid - TB
- Atoxyl – soda salt of arsanilic acid – sleeping sickness
- Levopoda – Parkinsonism 3(3, 4 -dihydroxyphenyl) L-alanine
- PGF₂₂ – Uterine Contractions
- Aderaline – act on α_1 α_2 β_1 β_2 (not β_3)
- Non aderaline– act on α_1 α_2 β_1 β_2 (not β_3)
- Anti choline esterase – myasthenia gravis.
- Choline esterase reactivator – paralidomine – organophosphate
- Mycoplasma – resistant to penicillin
- Virus – resistant to tetracycline
- Zydowoden + AZT given for AIDS.
- Protein synthesis of bacteria & mitochondria – sensitive to chloramphenicol, streptomycin.
- Cytoplasmic protein synthesis is sensitive Cycloheximide
- 2-phenyl ethane-hypnotic
- Cytosine arabinoside – anticancer

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- Ademine arabinoside – antiviral
- Bayer – 7602 for chagas disease
- Benzene & penicillin – Syphilis
- Benzyl benzoate – scabies
- Ovarian cancers – Vincristine
- E. gingivalis – Geramycin
- Tenia solium – aeranil, antigen, yomesen, ccl4, Nexylroescinal
- Amoebic dysentery – Hagyl, metrogyl, emetin, arsenic.
- Sleeping sickness – Bayer 205, pentamidine, lomidine, melarwopol
- Kala azar – antimony, gluconate.