

PARA3002 TUTORIAL

Parasite Control



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PARASITE CONTROL

Three main strategies utilized:

- drugs (to cure/curb/prevent infection);
- vaccines (to protect against infection/disease);
- environmental management (to prevent transmission).

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Infectious diseases (n=240)

Chromoblastomycosis	Haemophilus influenzae	Meningococcal disease	Schistosomiasis
Acanthamoeba	Hand, foot & mouth disease	Malagassiasis	Sepsis
African trypanosomiasis	Hantavirus pulmonary syndrome	Melanesiasis	Shigellosis
Acquired immunodeficiency syndrome	Heartland virus disease	Mulkausan contagiosum	Shingles
Amoebiasis	Heimlich tick fever	Mumps	Sporadic cholera
Anisakiasis	Human encephalomyelitis	Murine typhus (endemic)	Staphylococcal food poisoning
Angiostrongyliasis	Cruzeir-Jacob disease (CJD)	Mycoplasma pneumoniae	Staphylococcus
Ascariasis	Cryptosporidiosis	Myxomatosis	Streptococcus
Arboviral	Cytosolic larval migrans	Nyctasia	Subacute sclerosing panencephalitis
Argentine hemorrhagic fever	Hepatitis A	Neonatal conjunctivitis	Tetanus
Asteriasis	Hepatitis B	New variant CJD	Typhoid
Aspergillosis	Hepatitis C	Noctuidosis	Typhus
Ascariosis	Hepatitis D	Onchocerciasis	Typhus (endemic)
Babesiosis	Hepatitis E	Ocular onchocerciasis	Typhus (epidemic)
Bacterial meningitis	Hemlock	Parascoccidiodiomyces	Typhus (spontaneous)
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Diseases for which drugs are available (n=160)

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Diseases with drug-resistance problems (n=55)

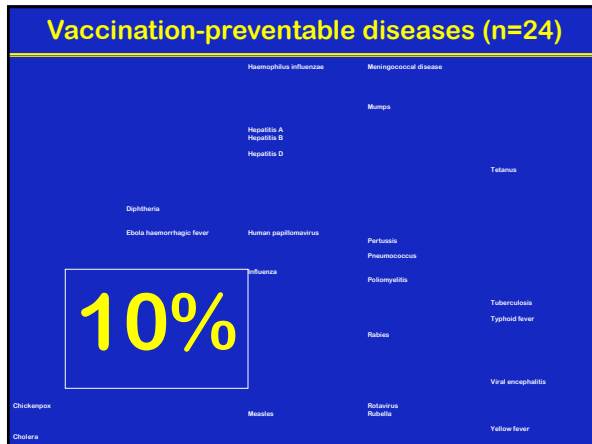
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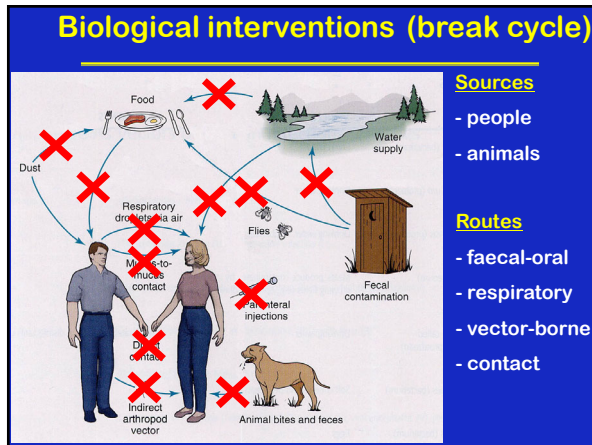
The great debate

Chemotherapy versus Vaccination

- broad spectrum (targets whole groups)
- short-acting
- re-infection possible
- drug resistance
- drug residues
- environmental toxins

- narrow activity (species specific)
- long-lasting
- re-infection prevented
- reversion of virulence
- hypersensitivity
- contamination

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Biological interventions

Target:

- hygiene
- sanitation
- vectors
- reservoir hosts
- environments
- behaviours

It is all about **education!**

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