

Infection and response

Communicable diseases

Pathogens

Viruses Bacteria Protists Fungi

Spread

Direct contact Water Air

Diseases

Measles, HIV, TMV Salmonella, gonorrhoea

Rose black spot Malaria

Non-specific defences

Skin Nose Trachea and bronchi Stomach

White blood cells

Phagocytosis Antibodies Antitoxins

Vaccination

Dead or inactive pathogen Quick antibody response

Population protected

Antibiotics and painkillers

Kill bacteria only Painkillers treat symptoms

Resistant strains

Drug development

Plant sources Preclinical testing Clinical trials

Placebo, peer review