



### Harmful Microbes Fill in the Blanks

Disease	Pathogen	Transmission	Symptoms	Prevention	Treatment	Problems
HIV/AIDS	Virus	Exchange of bodily fluids (e.g. sharing needles) and breast milk from infected mother	Early - flu like symptoms. Later - immune system so damaged that get infections easily	Barrier during intercourse, screening of blood, not sharing needles and bottle feeding. No vaccine	Anti-retroviral drugs allow sufferers to live very long life. Stem cell transplants (novel treatment in early stages of research and development)	Fatal if not treated. In some people, the virus has become resistant to the antiretroviral medication leading to concerns for the future of HIV treatment.
Measles	Virus	Inhalation of droplets from sneezes and coughs	Red rash and fever	MMR Vaccine	No treatment	Can be fatal if there are complications.
Salmonella	Bacteria	Contaminated food or food prepared in unhygienic conditions	Fever, abdominal cramps, vomiting and diarrhoea.	Good food hygiene	Antibiotics given to the young and very old to prevent severe dehydrations.	Can cause long term health problems, though this is rare. The bacteria are becoming resistant to some antibiotics.
Gonorrhoea	Bacteria	Sexually transmitted	Early symptoms include yellow/green discharge from infected areas and pain when urinating.	Condoms	Antibiotics	If untreated can lead to infertility, ectopic pregnancy and pelvic pain. The bacteria are becoming resistant to antibiotics meaning they are more difficult to treat.





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Malaria	Protist	Vector - mosquito	Flu like symptoms	Preventing mosquitos from breeding and mosquito needs treated with insecticide.	Anti-malarial drugs	Fatal if not treated, with children under 5 the most vulnerable group. In some regions, antimalarial drug resistance has become a problem.
COVID-19	Virus	Droplet transmission	Flu like symptoms	Wearing a face cover Practicing social distancing COVID-19 vaccine	Symptomatic treatments	Long term effects of disease unknown – ongoing research in this area

