

## TS3 – Harmful Microbes Fill in the Blanks Teacher Sheet

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| **Disease** | **Pathogen** | **Transmission** | **Symptom** | **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 & 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. |
| 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 |