

## Protist and Bacterial diseases

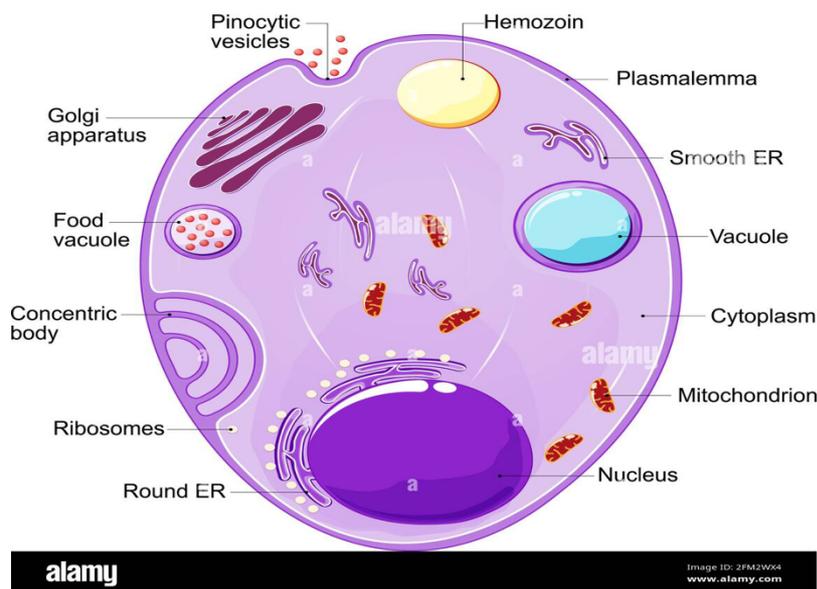
### Protist diseases

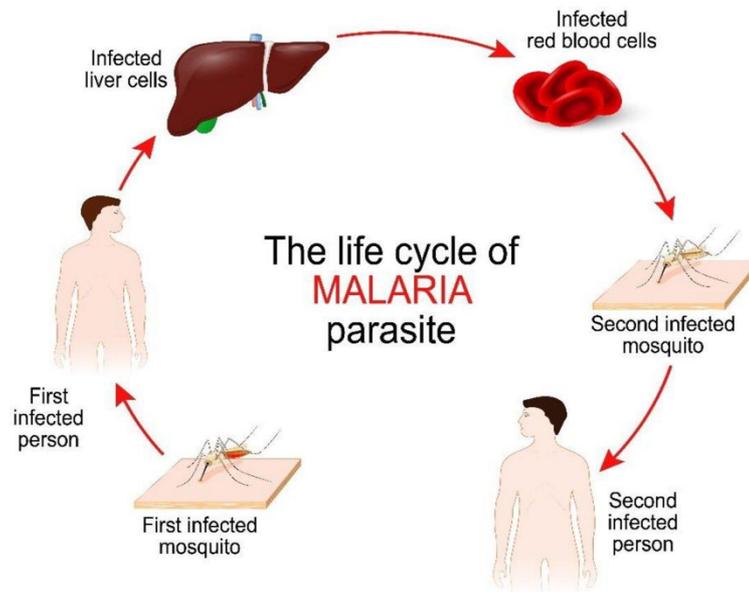
- ▶ *Protists* are a group of microorganisms that have features that belong to animals, plants and *fungi*.
- ▶ Some are like animals, others more like plants and some, called moulds are closest to fungi. They are all *eukaryotic*, which means they have a *nucleus*.

### Malaria

- ▶ *Malaria* is spread by mosquitos which carry the **Plasmodium protist**.
- ▶ These are often found in areas with higher temperatures like Africa, Asia, and South and Central America.
- ▶ **How Mosquito's effect humans:** Mosquitos suck blood containing the protists from an infected person. They pass the protist, to other people they suck blood from. The mosquitos do not become ill and are called '**vectors**' because they transmit the disease.
- ▶ **Symptoms:** The symptoms of malaria include a fever, sweats and chills, headaches, vomiting and *diarrhoea*. Damage is also caused to the blood and liver.
- ▶ **Preventions:** People sleep under mosquito nets and wear insect repellent to avoid bites.
- ▶ **Drugs:** *Antimalarial drugs* are also taken, which treat the symptoms and can prevent infection.

### Plasmodium



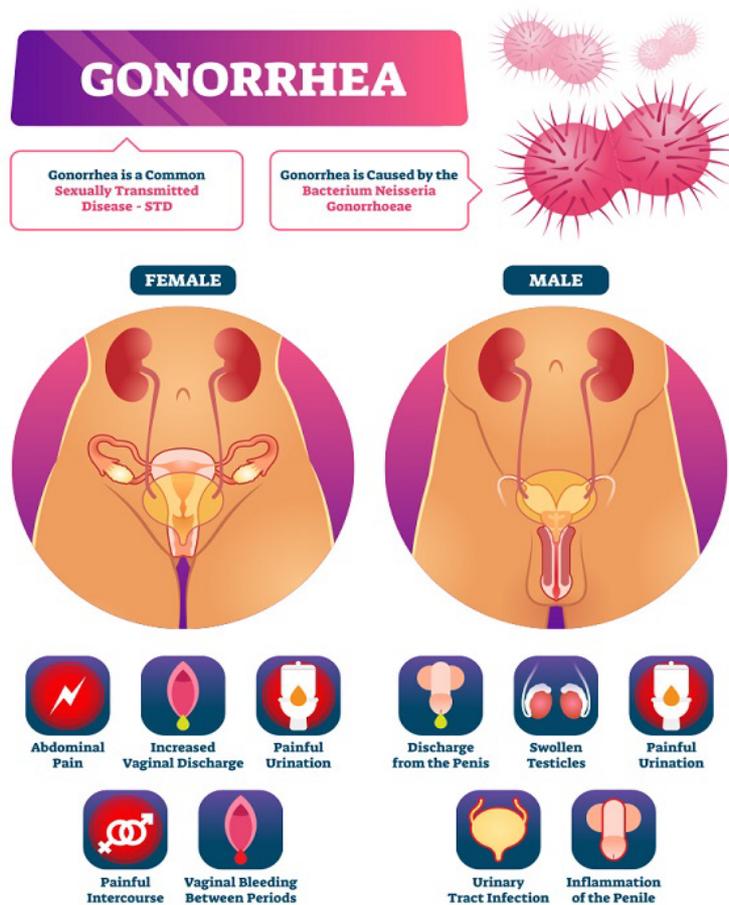
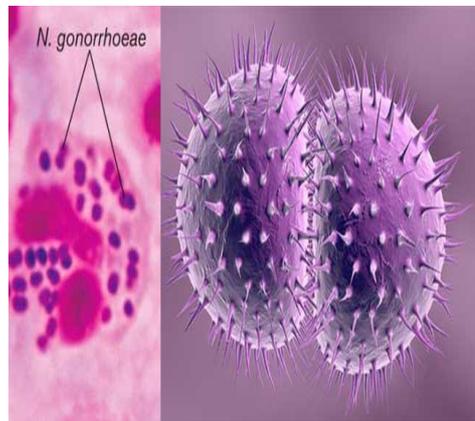


## Bacterial diseases

- Not all bacteria are pathogens which cause disease. Many bacteria, like those found in the intestines, are useful.
- All bacteria are **prokaryotes**, and do not have a nucleus.
- Unlike viruses, they are cells and so are larger but **cannot be seen** without a microscope.

### 1- Gonorrhoea

- Gonorrhoea is a **sexually transmitted disease (STD)** caused by a bacterium. It is a common infection, especially amongst people aged 15-24.
- **Symptoms:** Gonorrhoea causes a burning pain when urinating and often forms a thick **yellow or green discharge** from an infected person's penis or vagina. If untreated it can result in infertility.
- **Prevention:** To prevent infection, people can abstain from having anal, oral or vaginal sex or use a barrier-type of **contraception-like a condom**.
- **Treatment:** Gonorrhoea is treated by antibiotics. Many of the antibiotics which were effective against bacterial diseases like gonorrhoea are not as effective as they used to be.



## 2- Salmonella

- Salmonella is a **genus** of bacteria that causes food poisoning.
- **Symptoms:** This often means abdominal cramps, vomiting and diarrhoea.
- **Found in:** It is often found in **unhygienic kitchens**, undercooked foods such as meat, eggs and poultry, or the same foods that have not been reheated properly.

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- ▶ **Prevention:** To prevent the spread of salmonella in the UK, all poultry are vaccinated against it. Cooking food thoroughly, after preparing it in hygienic conditions, is the best way to avoid illness.

