#### aidsmap

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## For more information on this topic

- Read our 'CD4 and viral load' leaflet.
- Read our 'HIV lifecycle' page.

#### Other titles in The basics series

- Eight ways to look after your health
- A healthy weight
- Undetectable viral load

### For information in other languages www.aidsmap.com/languages

Has this leaflet been useful to you? Please let us know what you think. Your feedback helps us to improve the services we offer.

You can contact us to find out more about the scientific research and information we have used to produce this leaflet.

If you need extra copies of this leaflet, or would like to translate, adapt or reproduce it, please get in touch.

#### For more information about HIV

- Visit our website
  www.aidsmap.com
- Speak to an adviser at THT Direct 0808 802 1221

#### Please support us

If you would like to support our work and help us to continue to provide resources like this one, please donate today at www.aidsmap.com/donate

Thanks to all of the professionals and people with HIV who have helped us to develop this leaflet.

fold along

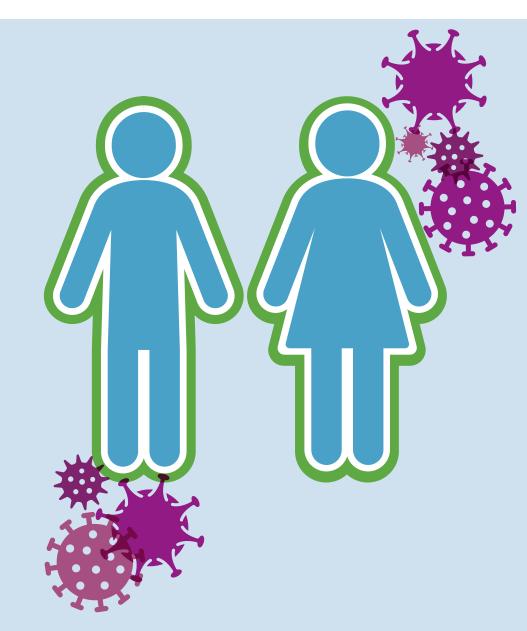
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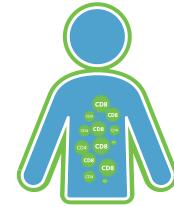
We recommend that you discuss the information in this leaflet with a doctor or other health worker.



# The basics HIV and the immune system

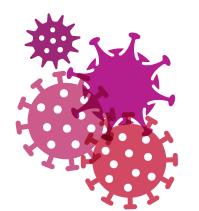


The immune system is the body's natural defence system.

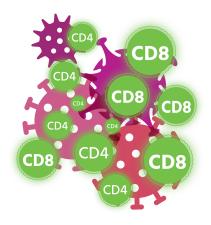


It's a network of cells, tissues and organs inside the body.

'Pathogens' (or germs) are living things that can cause disease. Bacteria and viruses are both pathogens. We come into contact with them all the time – there are pathogens in the air we breathe, in the food we eat and elsewhere in our surroundings.

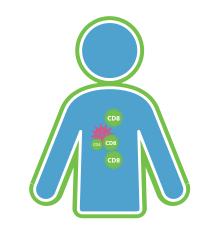


Pathogens don't usually cause problems, because the immune system attacks them if they get inside the body.



## When the immune system is strong, you don't get ill.

Once a pathogen has got inside the body, cells in the immune system (called CD4 cells) recognise it as something that doesn't belong there.



Other immune system cells If the immune system has When another pathogen The pathogen can multiply **Important points** (including CD8 cells) are been made weak by HIV, you gets inside the body, the in the body and make you sent to attack and destroy may get ill. immune system doesn't sick. • The immune system is the the pathogen. HIV has infected and taken know how to fight it. body's defence system, over lots of your immune which recognises and fights system's CD4 cells. off pathogens (germs). • HIV weakens the immune system, which means that common pathogens can cause infections and illnesses. HIV treatment strengthens the immune system. CD8 CD8