

Darwin Day 2023 12 February

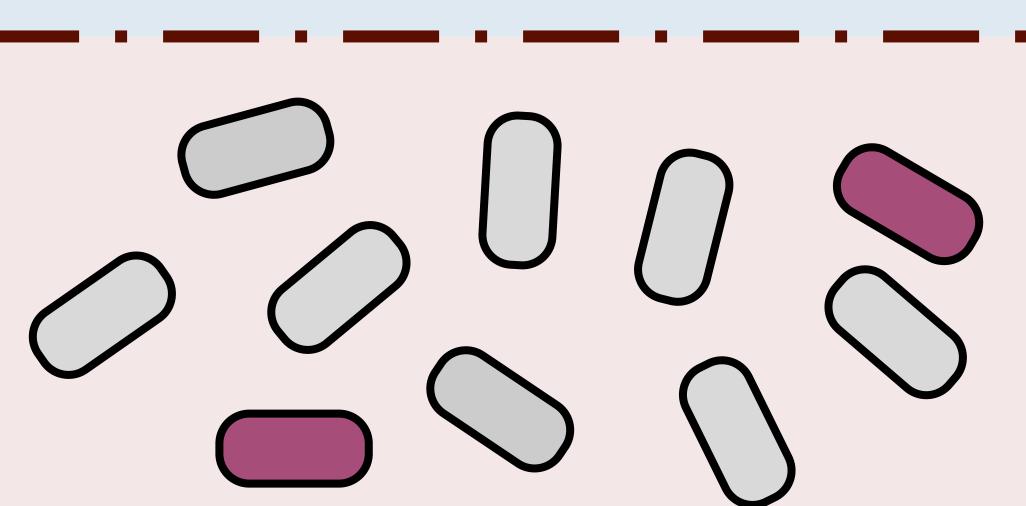


Antibiotic Resistance

How does it happen?

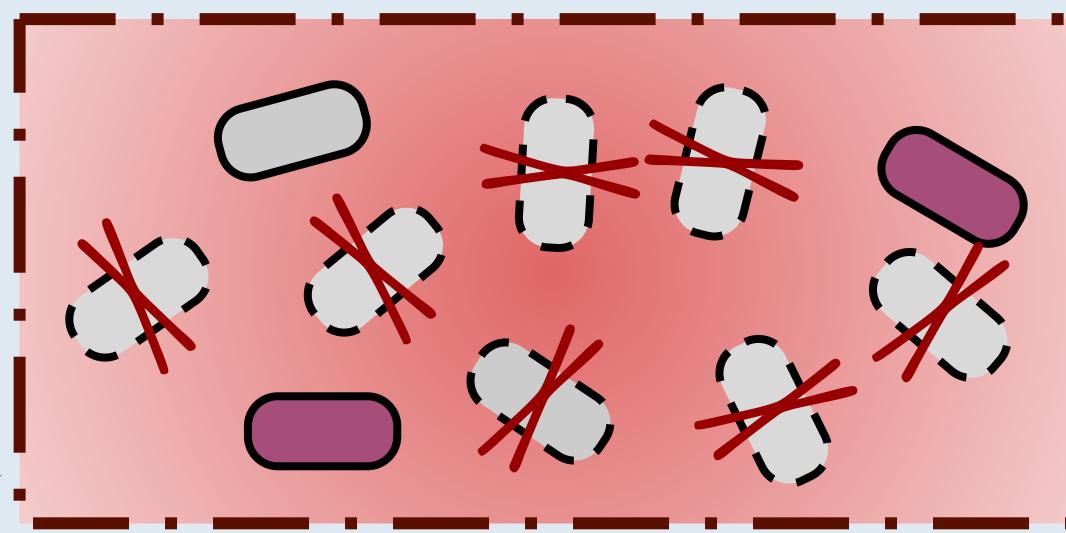
Bacteria cause many human illnesses like conjunctivitis, urinary infection and tuberculosis.

These bacteria can get into your body, multiply and make you very sick.



The doctor prescribes an antibiotic A.

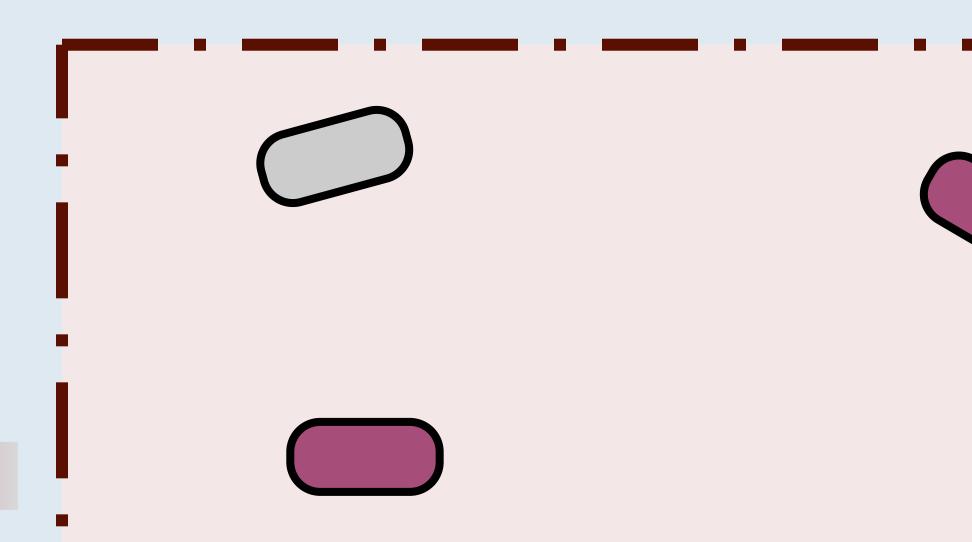
not resistant bacteria antibiotic A



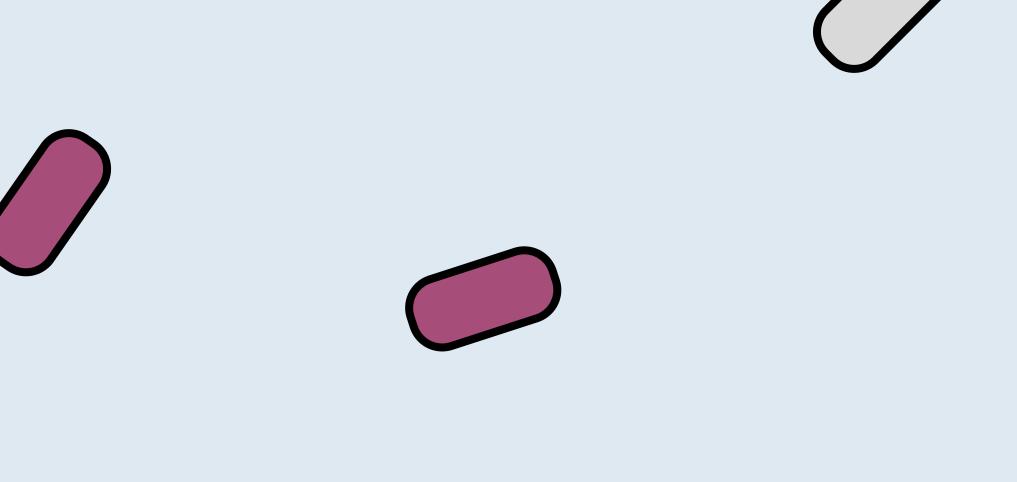
The antibiotic A kills most of the bacteria.



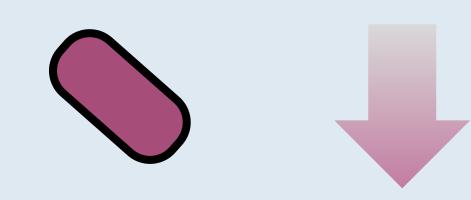
But antibiotic A resistant bacteria survive.



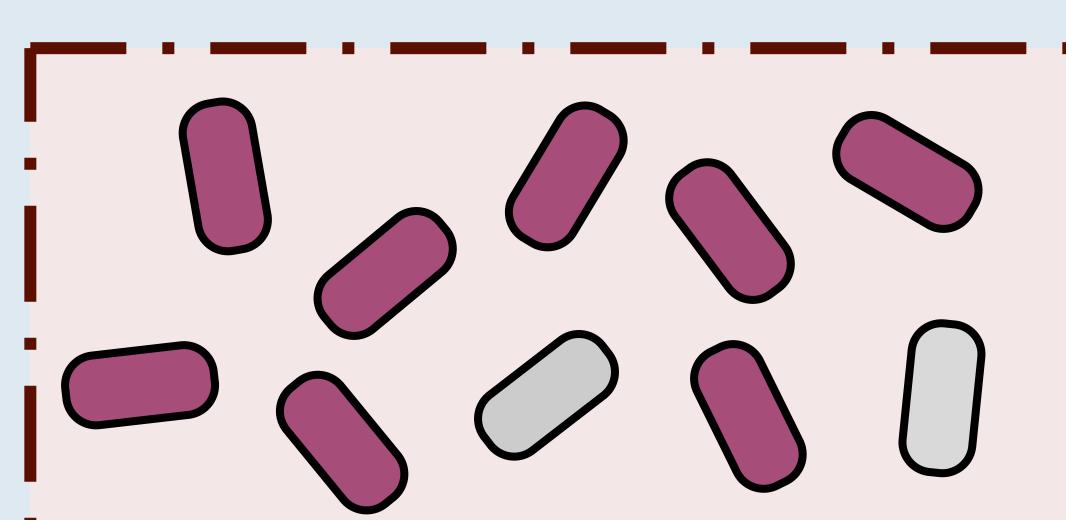
You recover!



You pass on these bacteria to someone else. They might pass it on to someone else. And so on



When these bacteria get into someone's body, the bacteria multiply and make them very sick.



The doctor prescribes the *same* antibiotic A.

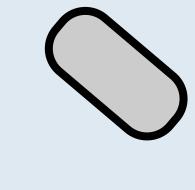
The antibiotic A kills

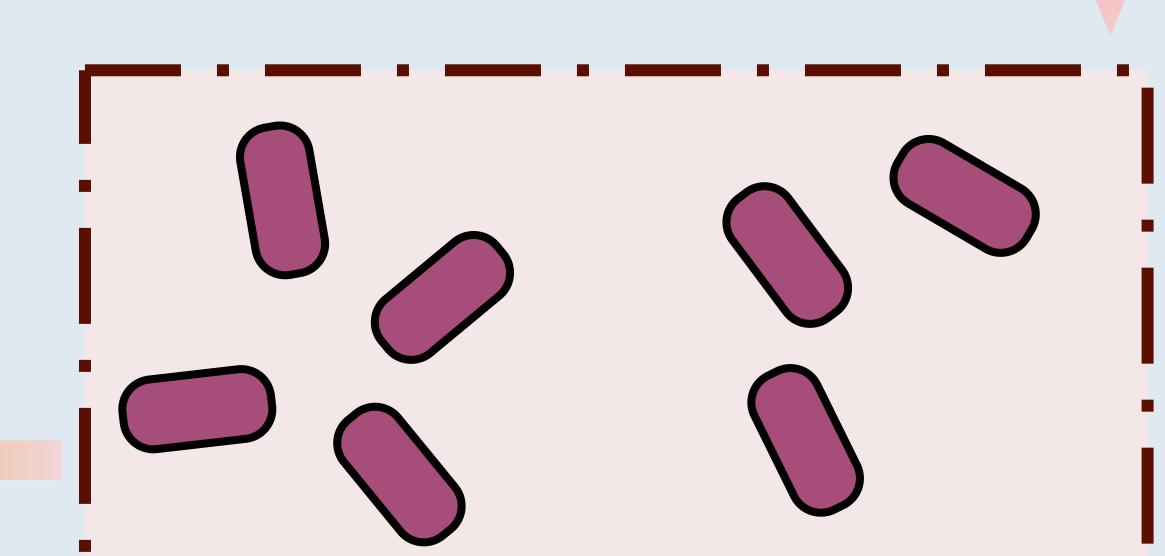
Many antibiotic A

very few bacteria.

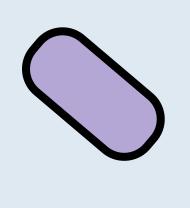
resistant bacteria survive.

Natural selection results in the evolution of antibiotic A resistant bacteria. These bacteria are adapted to survive in antibiotic A rich environment.





The person continues to feel sick...



Maybe the doctor prescribes a different antibiotic B and the person recovers. What happens if someone else has an infection caused by bacteria that are both antibiotic A and B resistant?



resources

Use antibiotics only as prescribed!