yeohs truly studio

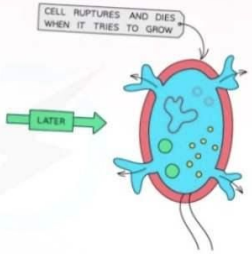
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Antibiotics

What are antibiotics?

- Antibiotics are chemical substances made by certain fungi or bacteria that affect the working of bacterial cells, either by disrupting their structure or function or by preventing them from reproducing.
- Antibiotics are effective against bacteria but not against viruses.
- Antibiotics target processes and structures that are specific to bacterial (prokaryotic) cells; as such they do not generally harm animal cells.



Antibiotic resistance

Commonly prescribed antibiotics are becoming less effective due to a number of reasons: Overuse and being prescribed when not really necessary, Patients failing to complete the fully prescribed course vy doctor, Large scale use of antibiotics in farming, even when animals are not actually sick. This has led to the effectiveness of antibiotics being reduced, and the incidence of antibiotic resistance increasing.

These bacteria are commonly known as superbugs and the most common is MRSA.

♡ QUESTION ♡ -

How to prevent antibiotic resistance?

- *Only taking antibiotics when absolutely essential*
- *Ensure that the entire course is completed*

Antibiotic Resistance Mechanisms

Bacteria develop ability to hydrolyze these drugs using ß lactamase confers resistance to penicillin, e.g. E. coli, Staph epidermidis, Pseudomonas aeruginosa, Klebsiella pneumoniae. Add ß lactamase inhibitor e.g. clavulanic acid in amoxicillin-clavulanate (Augmentin).

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