



241 Research paper

Antibiotic resistance: A global crisis [Resistencia bacteriana a los antibióticos: una crisis global]

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In Significant Impact Groups:

AMU reduction strategies \ Monitoring and surveillance

Species targeted: Other;

Age: Not stated;

Summary:

The use of antibiotics represents one of the most important interventions for the control of infectious diseases. Antibiotics have saved millions of lives and have also brought a revolution in medicine. However, an increasing threat has lowered the effect of these drugs, because of bacterial resistance to antibiotics, which is defined here as the ability of bacteria to survive in antibiotic concentrations that inhibit/kill others of the same species. In this review some recent and important examples of resistance in germs of concern for mankind are mentioned. The process that led to the current situation in a short time is also explained in this review. It begins with the resistance genes, continues with clones and genetic elements involved in the maintenance and dissemination, and ends with other factors that contribute to its spread. Possible responses to the problem are reviewed, with special reference to the development of new antibiotics.

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<https://www.sciencedirect.com/science/article/abs/pii/S0213005X14003413>;

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