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Quinolones: a class of antimicrobial agents

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Citation: Sárközy G. (2001): Quinolones: a class of antimicrobial agents. Veterinární Medicína, 46: 257-274.

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The fluoroquinolones are a series of synthetic antibacterial agents that are used in the treatment of a variety of bacterial infections. These agents inhibit the DNA gyrase, abolishing its activity by interfering with the DNA-rejoining reaction. The inhibition of the resealing leads to the liberation of fragments that are subsequently destroyed by the bacterial exonucleases. All fluoroquinolones accumulate within bacteria very rapidly, so that a steady-state intrabacterial concentration is obtained within a few minutes. Resistance develops slowly and is usually chromosomal and not plasmid mediated. However, development of resistance and transfer between animal and human pathogens has become a fervently argued issue among the microbiologists. Another concern regarding the use of new quinolones in the veterinary field is a possible detrimental effect on the environment. It still seems unlikely that the controlled use of veterinary quinolones will give rise to unfavorable effects on the environment.

Keywords:

fluoroquinolones; chemistry; pharmacokinetics; resistance; therapeutical use

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Impact factor (WoS)

2016: **0.434**
 5-Year Impact Factor: **0.71**
SJR (SCOPUS)
 2017: **0.280 – Q2** (Veterinária (miscellaneous))

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