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Musculoskeletal Complications of Fluoroquinolones: Guidelines and F

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Musculoskeletal complications of fluoroquinolones: guidelines and precautions for usage in the athletic population.

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Abstract

Fluoroquinolone antibiotics are associated with a wide spectrum of **musculoskeletal complications** that involve not only tendon but also cartilage, bone, and muscle. Insights into the pathoetiology of fluoroquinolone toxicity on **musculoskeletal** tissues have been evolving over recent years. Although the pathoetiology is certainly multifactorial, alterations in cell signaling proteins and direct toxic effects on **musculoskeletal** tissues have been strongly implicated. Increasing age and concomitant systemic corticosteroid use appear to significantly increase the risk of adverse events. The purpose of this article is to review the **musculoskeletal complications** associated with use of fluoroquinolone antibiotics by adults; identify risk factors associated with fluoroquinolone toxicity; explore the possible pathoetiology of fluoroquinolone toxicity on tendon, cartilage, bone, and muscle; and offer recommendations regarding evaluation and treatment of fluoroquinolone-associated **musculoskeletal complications**. In addition, this review will provide recommendations regarding fluoroquinolone use in athletes and return to play after fluoroquinolone exposure.

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