

キノロン系抗菌薬と金属含有製剤の相互作用情報に関する検討

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Consideration of information on drug interaction with quinolones and metal cation included in medicines

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Abstract

Objective

The interaction between quinolones and metal cations in foods or medicines is well known, and it is usually indicated on the package inserts for quinolones. On the other hand, it is reported that the interaction is influenced by their combinations. However, their degree has not been summarized systematically yet. Thus, we revised to reorganize descriptions of interaction on package inserts, textbooks and literatures, and compared.

Methods

The descriptions concerning to interaction were extracted from package inserts (12 quinolones, 5 antacids and a stomachic) and textbooks. Literature searches about clinical research were conducted using MEDLINE (from 1966 to 2007) and Igaku-Chuo-Zasshi (from 1983 to 2007). And pharmacodynamic data in human, who were taken together quinolone and metal cations in medicines, were extracted and compared to the descriptions of package inserts.

Results

Most descriptions included general cautions against interaction, however, information concerning the degree of interaction was not included. On the other hand, the degree of interaction was provided by many clinical researches. However, these data were not always reflected to the descriptions.

Conclusion

The interaction of quinolones and metal cations should be considered individually because the interaction is influenced by the specific combinations.

Key words: quinolones, metal cation, drug interaction