عنوان مقاله:

Curcumin as an effective suppressor of miRNA expression in patients with knee osteoarthritis

محل انتشار:

مجله ُگياهان دارُويي ابن سينا, دوره 12, شماره 4 (سال: 1401)

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خلاصه مقاله:

Objective: Osteoarthritis is the most common disease in the group of joint diseases, and its incidence is directly related to aging. Given the anti-inflammatory effects of curcumin as an active ingredient of turmeric, we aimed to investigate the effects of this compound in a new curcumin nanomicelle formula named SinaCurcumin® on the expression of microRNAs (miRNAs) involved in immune responses of patients with osteoarthritis. Materials and Methods: We divided ٣0 patients with osteoarthritis into two groups namely, nano curcumin-receiving (10 patients) and placebo-receiving (1a patients) and we studied them for months. The Iranian Registry of Clinical Trials (IRCT) approved our study with the IRCT registry No. IRCTY ৷ IRCTY ৷ No. microRNAs ۱۴۶, ۱۵۵, ۱۶, and ۱۳۸ employing SYBR Green Real-Time PCR method.Results: The expression of miRNAs ነ۵۵, ነጕሊ, and ነ۶ revealed a significant reduction in the curcumin-receiving group (p=o.oot, p=o.oot, p=o.oot respectively). Conclusion: Our research data indicated that the consumption of curcumin in patients with osteoarthritis .could affect the immune system partially via altering the expression of microRNAs and cytokines

كلمات كليدى:

Curcumin, MiR-145, MiR-10, MiR-14A, MiR-15, Osteoarthritis

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