

عنوان مقاله:

Systematic Review And Meta-Analysis Effect Of Vitamin D Supplementation With Anti-Viral Therapy On CD4 Levels In HIV-Infected Patients: Systematic Review And Meta-Analysis

محل انتشار:

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خلاصه مقاله:

Introduction: Due to the effect of vitamin D on the immune response, There are controversial results about the effect of vitamin D supplementation on the immune system of AIDS patients. This systematic review and meta-analytical was conducted to determine the effect of vitamin D supplementation, along with antiretroviral treatment on CD4 count of HIV-infected patients. **Methods:** This systematic review and meta-analysis study was done with using specific keywords HIV and vitamin D and CD4 and related keywords on published articles by the end of 2017 in the some databases such as Pubmed (116 articles), Scopus (121 articles) and Web of Science (127 articles). All articles have been export to ENDNOTE and after deleting duplicate, there was 174 articles. Review selected articles by two individuals, first on the title and abstract. Clinical trial studies about vitamin D supplementation on HIV-infected patients which receiving ART were selected. Quality assessment of studies was conducted by Jadad criteria. CD4 count and viral load before and after intervention in treatment and placebo groups, age of patients and duration of intervention were extracted. **Findings:** Finally, 7 clinical trial studies with a sample size of 639 people were entered the meta-analysis. The mean age of patients in the treatment group and placebo was 27.2 and 26.5 years respectively, and mean duration of intervention was 8.3 months. The increase in CD4 after treatment was 0.73 (CI95%:-0.43 - 1.89) compared with the placebo group which was not statistically significant, but Vitamin D use in 3 studies was near one year and this change (SMD=3.56, CI95%: 1.17-5.96) was significantly in these studies. Egger's test results showed that there was no publication bias. **Conclusion:** The results showed that at least 10 months use of vitamin D supplementation with antiviral therapy can effectively help in increasing the CD4 level in comparison with placebo.

کلمات کلیدی:

Vitamin D, Antiviral treatment, CD4, AIDS, HIV

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