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Inhibition of immunodeficiency type-1 virus (HIV-1) life cycle by magnetic water

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In the present study, the anti-HIV-1 activity of magnetic water at different intensities of 250, 750, 1000, 2000 gauge has been determined. A time of drug addition assay was done to identify the target of anti-HIV-1 agents. MW at different intensities showed potent anti-HIV-1 activity. EC₉₀ of MW was achieved at intensity of 2000 gauge. The time of drug addition study demonstrated that the inhibitory effect of MW is before HIV-1 infection. The frequency and intensity of CD4, C-C chemokine receptor type 5 (CCR5) and chemokine receptor type 4 (CXCR4) on CD4⁺ T cells were not changed in cells treated with MW at different intensities. The results demonstrated that MW might be a suitable candidate for in vivo testing of anti-HIV infection.

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