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Vitamin B12 protects against DNA damage induced by hydrochlorothiazide

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Abstract: DNA damage induced by hydrochlorothiazide was previously reported in cultured human lymphocytes. In this study, we aimed to investigate the harmful effects of hydrochlorothiazide on DNA by measuring the spontaneous frequency of sister chromatid exchanges (SCEs) in cultured human lymphocytes. We also aimed to investigate the possible protection of that damage by vitamin B12. The results showed that hydrochlorothiazide (5??g/mL) significantly increased the frequency of sister chromatid exchanges (P?