

Comparison of bioequivalency of Iranian Sildenafil citrate 50 mg made by Razak with its foreign one (viagra).

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Sildenafil citrate is one of the newest drugs that is used for erectile dysfunction. When sexual stimulation causes local release of NO (Nitric oxide), inhibition of PDE5 by sildenafil causes increased level of cGMP in the corpus cavernosum, resulting in smooth muscle relaxation and inflow of blood to the corpus cavernosum. Rate. For in vivo tests 11 volunteers were selected. They were given sildenafil citrate tablets in fasting state. Bloodletting was done in Zero (before eating), 0.33, 0.66, 1, 1.5, 2, 2.5, 4, 6, 8 and 24 hours after eating the tablet and the serum was separated by centrifuge and HPLC was used for concentration measurement. No significant difference was shown in in vitro and tests. So Razak Sildenafil citrate and Viagra are bioequivalent.