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Does Sildenafil improve ventilatory functions in asthmatic subject?

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Sildenafil is used extensively in treatment of erectile dysfunction. Erectile dysfunction is common in patients with airway flow limitation. Most of the works dealing with the effects of sildenafil on airway flow were done on animal models and only one case report described beneficial effect of sildenafil in two COPD patients. Here we report that spirometry values were modestly improved, on many trials, in one asthmatic subject after taking 50 mg sildenafil orally.

The value after taking sildenafil minus base line value/ base line value. FEV1, FEF 25-75 % and PEFR values have been improved after taking the drug (Table 1). The average increase in FEV1, FEF 25-75 % and PEFR values two hours after taking sildenafil tablet are 14%, 26% and 13% respectively. The average increment in FEV1, FEF 25-75 % and PEFR are 304 ml, 450 ml/sec and 526 ml/sec respectively.

Biography

Dr. Nayef Al-Gharabe is a Professor of Physiology & Biophysics in Department of Physiology & Biochemistry, Faculty of Medicine, Jordan University of Science and Technology.

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