Ipratropium bromide is more effective than Salmeterol — Fluticasone combination on O₂ saturation patients with COPD

Sir,
Recent studies investigated on effectiveness of Ipratropium and Salmeterol — Fluticasone (SFC) in chronic obstructive pulmonary disease (COPD) patients. Some of these investigations revealed these increased O₂ saturation (SaO₂) in duration sleep and increased quality of life.[1,2] Thus, we decided to evaluate and compare the effect of Ipratropium bromide and SFC on SaO₂ in patients suffered by COPD.

We selected 35 COPD patients who referred to Firuzgar hospital in 2009. Participants randomized by computer generated, and then participants treated with Ipratropium bromide (40 µg/QID) or SFC (50/250 mg/BD) under crossover randomization. Each participant was followed for two days, and then treatment stopped for two days. After this, each study group received another medication for two days. We measured SaO₂ by fingertip pulsoxymeter, in two groups before and after 15, 30, 60, and 180 min inhalation of SFC or Ipratropium bromide. A repeated-measures analysis of variances was performed to compare the ability of each of the medication to increase SaO₂ before and after medication. We revealed both of Ipratropium and SFC increased SaO₂, but Ipratropium bromide inhalation was more effective than SFC to increasing O₂ saturation after 30 min inhalation these drugs. Our findings indicated that both Ipratropium and SFC increased SaO₂, but inhaled Ipratropium bromide was more effective than SFC to increase SaO₂ but 30 min after inhalation of these drugs.

Nader Rezaie, Narges Sadat Shams-Hosseini, Atefeh Kashanizadeh, Mohammad Ali Karimi
Department of Pulmonary Disease, Tehran University of Medical Science, Tehran, Iran

Address for correspondence: Dr. Nader Rezaie, Department of Pulmonary Disease, Tehran University of Medical Science, Tehran, Iran.
E-mail: drnader48@gmail.com

REFERENCES