Two epinephrine doses in the same nostril led to increased epinephrine absorption versus 0 doses in opposite nostrils and IM doses. 2 epinephrine doses in the same or opposite nostrils led to substantially greater epinephrine absorption, compared to 1 dose administered IM.

There were no clinically significant differences in heart rate or blood pressure after epinephrine dose IM.

Epinephrine was safe and well-tolerated.

In epinephrine via nasal rescue spray is a potential novel therapeutic option in anaphylaxis treatment, which allows patients to administer a second dose readily if the first dose does not satisfy symptoms.