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**Name of Journal:** *World Journal of Clinical Cases***Manuscript NO:** 65795**Manuscript Type:** ORIGINAL ARTICLE*Clinical Trials Study*

Comparison of <sup>2</sup>Wei nasal jet tube and nasal cannula for supplemental oxygen during gastroscopy with propofol mono-sedation in obese patients: A prospective, randomized controlled trial

Shao LJZ *et al.* Supplemental oxygen during painless gastroscopy in obese patients

Liu-Jia-Zi Shao, Fang-Xiao Hong, Fu-Kun Liu, Lei Wan, Fu-Shan Xue

**Abstract****BACKGROUND**

Hypoxemia is a common complication in obese patients during gastroscopy with sedation. The Wei nasal jet tube (WNJT) is a new special nasopharyngeal airway with the ability to provide supraglottic jet ventilation and oxygen insufflation *via* its built-in

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Patients were **randomized** into one of **two** groups to receive either the WNJT (WNJT group, n = 147) or the nasal cannula (nasal cannula group, n = 144) for **supplemental oxygen** at a 5-L/min flow **during gastroscopy**. The lowest SpO<sub>2</sub> **during gastroscopy** was recorded. The primary endpoint was the incidence of hypoxemia or severe hypoxemia **during** ...

**Author:** Liu-Jia-Zi Shao, Yi Zou, Fu-Kun Liu, Lei ...      **Publish Year:** 2020

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Nov 01, 2018 · Hypoxemia is a major complication in **obese patients** undergoing gastrointestinal **endoscopy under intravenous anesthesia** or sedation due to altered airway anatomy. We design this **randomized** controlled trial (RCT) to **compare** efficacy and safety of the Wei nasal jet tube (WNJT) and nasal prongs for **supplement oxygen during gastroscopy with intravenous propofol anesthesia in obese patients**.

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to **compare** efficacy and safety of the Wei nasal jet tube (WNJT) and **nasal prongs for supplement oxygen during gastroscopy** with intravenous **propofol** anesthesia in **obese patients**. **Methods:** The study will be a single-center, **prospective** RCT. A total of 308 **obese patients** will be recruited and **randomly** assigned to receive either the WNJT (group A) or nasal prongs (group B). **During gastroscopy** with


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## Nasopharyngeal airway



In medicine, a nasopharyngeal airway, also known as an NPA, nasal trumpet, or nose hose, is a type of airway adjunct, a tube that is designed to be inserted into the nasal passageway to secure an open airway. It was introduced by Hans Karl Wendl in 1958. When a patient becomes unconscious, the muscles in the jaw commonly relax and can allow the tongue to slide back and obstruct the airway. This makes airway management necessary, and an NPA is one of the available tools. The purpose of the flared end is to prevent the device from becoming lost inside the patient's nose.

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