

WILAméd

Equipment for Professionals



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Oxi.Plus
Nasal High
Flow Kit

CE 1275

WILAméd

Wilamed Oxi.Plus

Nasal Oxygen Insufflation is a young, non-invasive form of therapy for clinical use on children and adult patients.

With nasal oxygen insufflations heated breathing gas is administered at a high flow rate through a specially designed nasal cannula. This form of oxygen supply is called **Nasal High-Flow Therapy (NHFT)**.

WILamed Oxi.Plus guarantees sufficient respiratory gas conditioning, even at a high flow rate. The system administers respiratory gas to the patient via a nasal cannula. The nasal cannula reduces the amount of respiratory dead space, increases alveolar oxygen concentration, improves oxygenation and makes breathing easier while reducing FiO_2 at the same time.

Conditioned respiratory gas warms and humidifies respiratory passages, increases lung compliance, maintains secretion mobility and reduces the risk of bronchial hyper response symptom. WILamed's NHFT-System conditions flow rates up to 50 liter per minute.

The nasal cannula is made of soft silicon, enhances patient comfort and does not hinder the patient. While in use, patients can drink, eat and talk.



Acute heart failure (AHF) is one of the main causes of acute respiratory failure (ARF) and is generally treated with conventional oxygenation systems (nasal cannula, Venturi mask). NHFT therapy is modern, effective, user-friendly and provides an alternative method. Medical Oxygen is a cold and anhydrous "burning" gas, it can irritate the nasal mucosa and cause bleeding due to dehydration.

NHFT has also shown to be useful in the NICU for patients with RDS (Respiratory Distress Syndrome), as it may prevent patients from intubation.

WILamed's Oxi.Plus provides maximum benefit to patients who require high concentration of oxygen and a flow rate greater than a conventional nasal cannula can supply. While Low-Flow-Therapy is only for oxygenation, NHFT can additionally reduce CO_2 levels.

Benefits:

- High nasal flow rates >50 L/min
- Optimally conditioned respiratory gas
- High gas flow
- Low level PAP
- Reduces dead space in the nasal pharynx
- Improved patient comfort, compliance and oxygenation
- Reduction of CO_2
- Allows talking, eating, drinking and sleeping

Indications:

- Acute hypoxic respiratory failure
- Acute Asthma
- Viral Pneumonia
- Cardiogenic pulmonary edema
- Pulmonary Pneumonia
- Carbon monoxide poisoning
- Post-extubation respiratory distress
- Do-not-intubate (DNI)
- Post cardiac surgery

What makes NHF so effective?

Fact 1: NHF is able to deliver precise levels of oxygen, even at high flows.

Fact 2: Anatomical dead space of the upper airways is flushed by high incoming gas flows, providing a kind of reservoir of fresh gas constantly available for every of the patients breaths, while reducing the level of carbon dioxide (CO₂).

Fact 3: Combined with optimal conditioned respiratory gas, mucociliary clearance is promoted. This is especially important for patients suffering from secretion problems (e.g. high level COPD patients), as the risk of respiratory infection is reduced.





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