JANS Medtech

Find New Solutions

with Cuffsure®

set a correct cuff pressure in seconds

Video

Cuffsure® Solution

The new launched Cuffsure device is a perfect solution for setting pressure of airway cuffs in clinics.Its syringe-like design and color-belt indicator scale allows a super simple and easy operation by all anesthesiologists, ICU nurses and even users in home care environment. It has a verstalile use for all cuffed airway devices like ET Tubes, LMAs, Endobronchial tubes etc.

Cuffsure® Benefits

Easy To Use:

- Syringe- like design, pocket-size
- With Colour Belt Indicator scale, easy to judge
- Can correctly set a cuff pressure in seconds

Diverse:

- **JS-LC1550** (15-50cmH_2O), suitable for intubation cases in operation room or first aid
- **JS-LC1040** (10-40cmH_2O), suitable for cuff pressure maintenance in ICU or home care

Economy:

- Reusable
- Reduces use of anti-inflammatory drugs
- Reduces risk of VAP

Other Features:

- Acuuracy ±2cmH_2O
- Volume, 20ml, efficiently inflates big size LMA

FIG.1

FIG.2

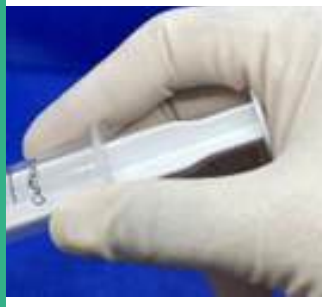

FIG.3

Instructions for Use

1.Check and Activate the Cuffsure:

To activate the Cuffsure for initial use or after a period of disuse, retract the plunger slightly, then place one index finger on the injection port to block it, and proceed to push the plunger. Ensure that the indicator pole pops out smoothly to confirm proper function.

2.Cuff first time inflation:

2.1 Position the plunger accurately, set it at a scale that exceeds the evaluated volume required for the cuff. In the case where the evaluated volume is greater than 20ml (such as for larger sized LMA cuffs), it is recommended to directly inject one or two full syringes initially.

2.2 Securely attach the Cuffsure to the inflation valve by firmly connecting them together. When holding the valve, use your thumb and index finger to grasp the hard part of the pilot, and avoid touching the soft part of the pilot.

2.3 Push the plunger in a stable manner, using the posture illustrated in FIG. 3, and avoid unstable postures particularly when the indicator pole begins to move upwards. Keep a close eye on the indicator pole and slow down the pushing speed once you notice it beginning to move up.

2.4 Once the indicator pole reaches the suggested position (green belt 30-35 cmH_2O for adult cuffed ET tube, FIG.1) or the user's target pressure, cease pushing the plunger and hold it in place, maintaining the indicator pole at the target scale position for approximately one second, without allowing it to retract.

2.5 Use one hand thumb and index finger to hold the hard valve part of the pilot, disconnect the Cuffsure quickly.

3.Cuff pressure maintenance:

3.1 Position the plunger around the scale 5-10ml(suggested position) or at a position where you feel most comfortable.

3.2 Repeat cuff inflation steps (2.1-2.5); the suggested position is between 25-30cmH_2O (for adult cuffed ET tube) (FIG.2) or user's target scale.

"why Cuffsure®

Method & Benefits	Accuracy	Quickness	Simplicity	Economy	Maintenance
Syringe + finger	×	√	√	√	√
Pressure gauge	√	×	×	√	×
Electronic device	√	×	×	×	×
Cuffsure®	√	√	√	√	√

FAQ

Q1: How to clean the Cuffsure device?

A: The outer surface should be wiped thoroughly with an alcohol-based or 1.4% hydrogen peroxide disinfectant. Avoid immersion sterilization and steam sterilization.

Q2: The Cuffsure device can be used to measure cuff pressure?

A: No, it is only used to measure and read the cuff pressure during the cuff inflation period. It cannot be separately used to measure the pressure of an inflated cuff. Many studies show that it is a useless operation (to measure the inflated cuff pressure). Usually when you use manometer to connect and measure the inflated cuff pressure, because of the leakage during connection and the pressure re-balance (some air will move to the manometer), as a result the reading is lower than the original true number, especially for ET tube cuffs(little volume cuffs), then you need to re-inflate the cuff again to reach the target pressure. The Cuffsure device can directly reset the cuff at right pressure in seconds, avoiding useless checking process.

Q3: How much pressure is lost during disconnection with injection port?

A: When disconnecting, cuffs pressure will reduce by 1-2mmHg/cmH_2O; if the cuff is first time inflated, after disconnection, inner pressure will reduce around 3cmH_2O in 1-2 minutes, because the cuff-wall becomes loose under pressure. So, we have designed Cuffsure indicator green belt at 30-35 cmH_2O for Cuffsure Model JS-LC1550.

Q4: Can the Cuffsure device be used for low pressure cuffs filled with liquid?

A: No. Because the liquid mobility is not good as compared to air, and also due to the gravity pressure, it will cause a lot of resistance especially in the long and thin tube like ET tube air line between pilot balloon and cuff.

Q5: Why the green indicator belt is at 30-35 cmH_2O (for model JS-LC1550), not at 25-30 cmH_2O(for model JS-LC1040) based on international guidelines?

A: Model JS-LC1550 is mainly used in operation room and for first aid intubation cuff inflation, so mainly it is used for cuff first time inflation; Model JS-LC1040 is mainly used for ET tube cuff maintenance in ICU. For more explanation see the answer of Q3.

Email: sales@jans.ltd

Web: www.cuffsure.com

JANS Medtech

Find New Solutions