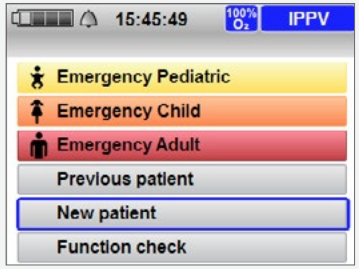
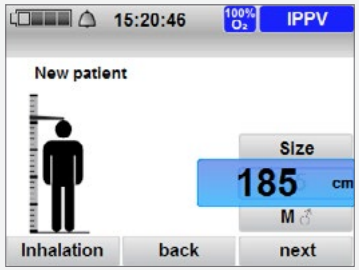
Operating Steps for MEDUMAT Standard²

1. Switch on ventilator

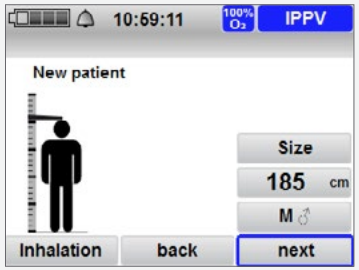
2. Select "New patient"



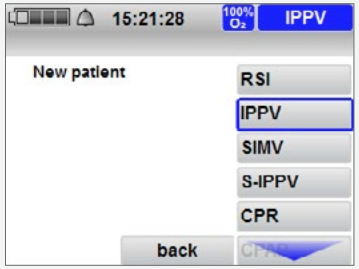
3. Select patient size and gender



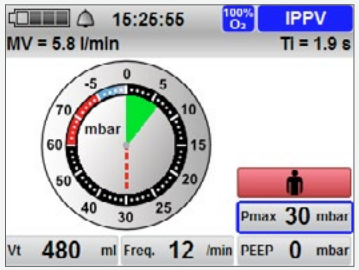
4. Select "next"



5. Select ventilation mode

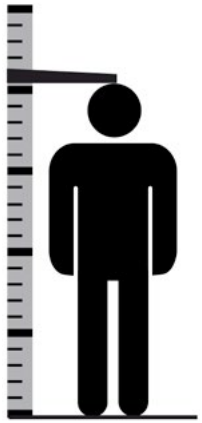


6. Start ventilation



Start Ventilation with Patient's Height

in MEDUMAT Transport and MEDUMAT Standard²



This document does not replace the Instructions for use.
You'll find complete information in the Instructions for use.

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WM 83500-EN-08/2014

Start faster and ventilate more precisely.

With MEDUMAT Transport and MEDUMAT Standard², you no longer have to figure out which tidal volume (Vt) to set for your patients. Now you can initiate precisely dosed ventilation more quickly with MEDUMAT Transport and MEDUMAT Standard². When you enter the patient's height and gender, the ventilator automatically calculates the ventilation parameters based on the Ideal Body Weight (IBW) indicator. MEDUMAT Transport and MEDUMAT Standard² give you a faster and more precise start in ventilation and leave you more time for other activities.

Use the pre-settings and work in compliance with guidelines.

With the option of setting the tidal volume per kilogram of ideal body weight from 4 to 10 ml/kg, you work in compliance with guidelines and determine the calculated tidal volume in volume-controlled ventilation. The ideal body weight and the tidal volume to be applied are calculated differently for male and female patients with use of the following formulas:

$$\textbf{IBW female} = 45 + 2.3 \times \left(\frac{\text{Height}}{2{,}54} - 60\right)^{[iii]}$$

$$\textbf{IBW male} = 50 + 2.3 \times \left(\frac{\text{Height}}{2{,}54} - 60\right)^{[iii]}$$

The following tidal volume is calculated for a **male** patient with a height of **1.85 meters** and at a setting of **6 ml/kg body weight**:

$$\textbf{IBW} = 50 + 2{,}3 \times \left(\frac{185}{2{,}54} - 60\right) = 79{,}51 \text{ kg} \sim 80\text{kg}$$

This results in: **Vt** = 80 kg x 6 ml/kg = **480 ml**

[i] Gajic, O. et al. Ventilator-associated lung injury in patients without acute lung injury at the onset of mechanical ventilation. Critical care medicine, 2004, Nr. 32, S. 1817-1824.

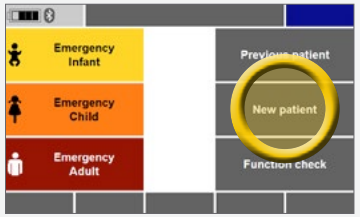
[ii] Deakin, C. D. et al. Erweiterte Reanimationsmaßnahmen für Erwachsene ("advanced life support") Sektion 4 der Leitlinien zur Reanimation 2010 des European Resuscitation Council. Notfall + Rettungsmedizin, 2010, Nr. 7, S. 578.

[iii] Devine, Ben J. Gentamicin therapy. The Annals of Pharmacotherapy. 1974, 8. Jg., Nr. 11, S. 650-655.

Operating Steps for MEDUMAT Transport

1. Switch on ventilator

2. Select "New patient"



3. Select "height"

4. Select patient height and gender

5. Select ventilation mode

6. Start ventilation