Only an **exact**, regulated **flowrate** (in l/min) consisting of **air or air-O₂ mixture** ensures a high quality **therapy** without side-effects for **clinical** and **home care** settings, guarantees a stable **FiO₂** and **confirms** our **study results**.
**Progression of Respiratory Insufficiency**

- Nearly not noticeable
- LTOT
- TNI instead of NIV
- TNI+O2

**TNI® Effectiveness: „Increase of the PEEP“**

1. Increase PEEP
2. Improve inspiration
3. Increase of tidal volume
4. Decrease of the work of breathing
5. Shift of the Pcrit

- TNI® Therapy creates a PEEP of 2 – 4 mBar
- Replacement for Pursed Lip Breathing for active expiration
- Relaxes respiratory muscles

**Case Reports Respiratory Insufficiency**

- Group 1: \( \text{paO}_2 \uparrow \) and \( \text{paCO}_2 \downarrow \) desirable
- Group 2: \( \text{paO}_2 \uparrow \) and \( \text{paCO}_2 = \) acceptable
- Group 3: \( \text{paO}_2 \uparrow \) and \( \text{paCO}_2 \uparrow \) problem
- Group 4: \( \text{paO}_2 = \) and \( \text{paCO}_2 = \uparrow \) big problem

**CO\textsubscript{2} - wash out with TNI\textsuperscript{®}**

- \( \text{CO}_2 \) wash out with TNI®