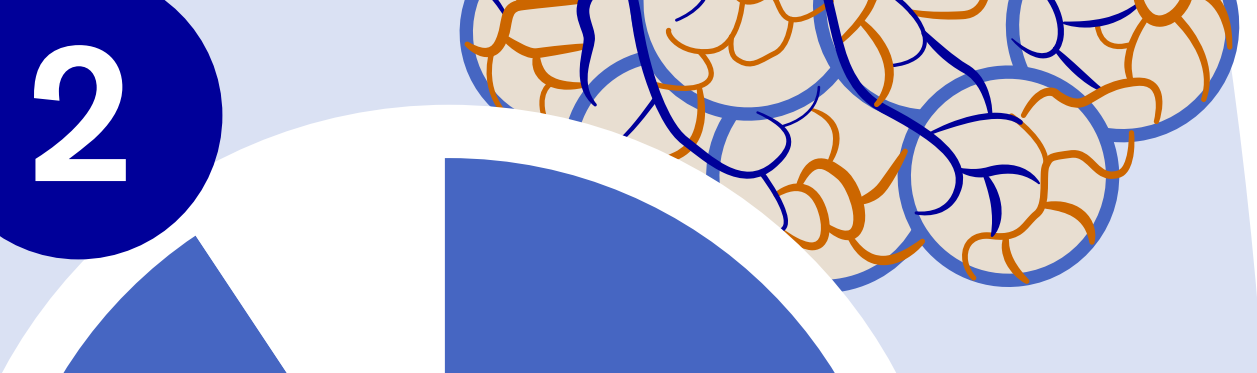
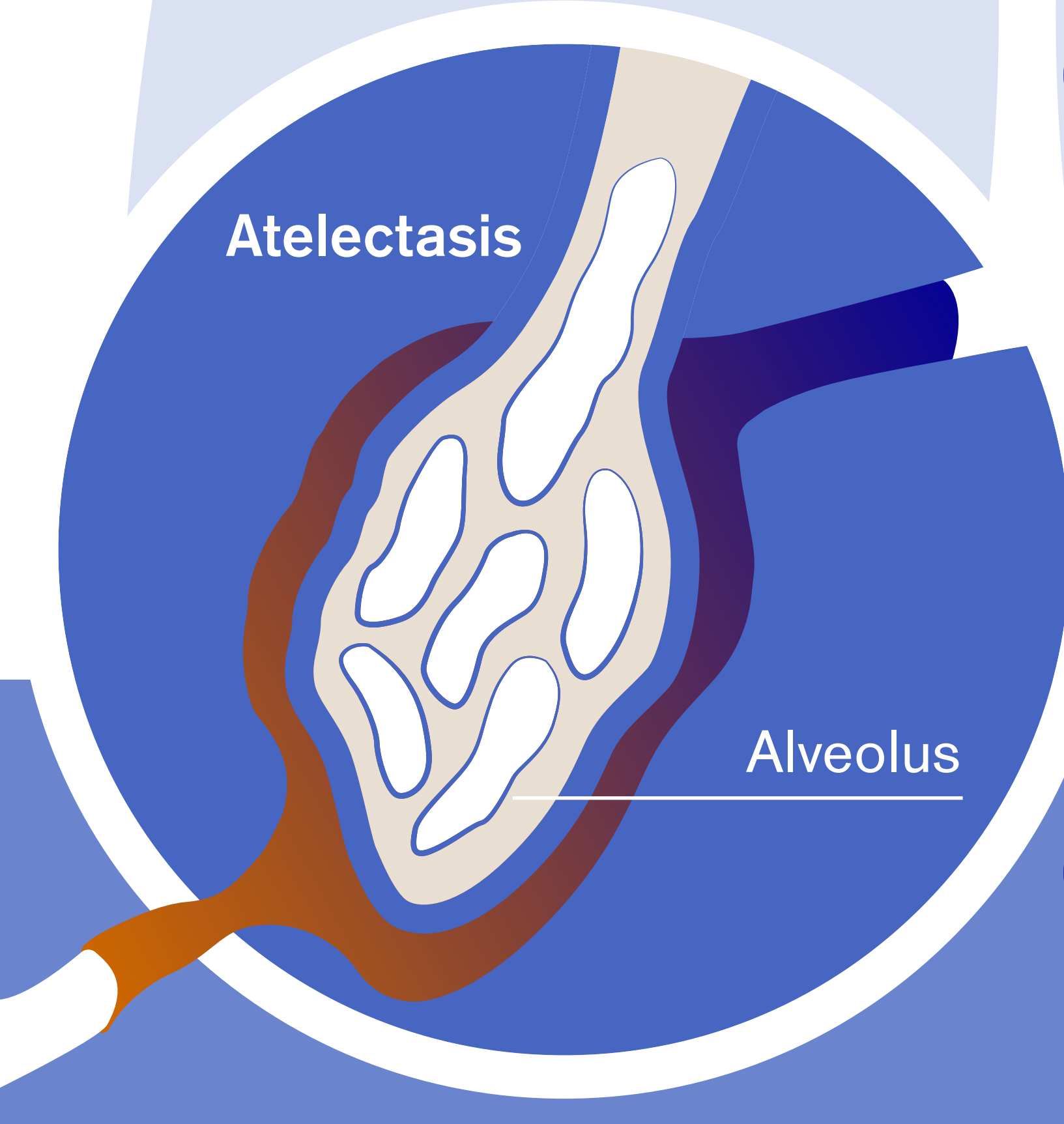


## Atelectasis in General Anaesthesia

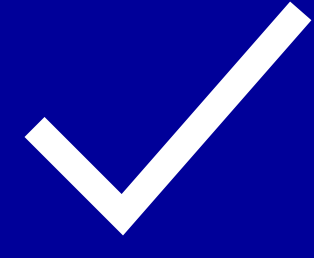
**1** common condition occurring during general anaesthesia



**2** up to **90%** incidence

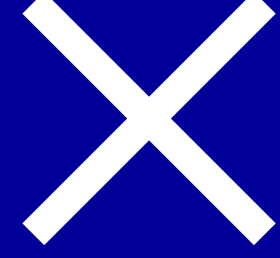
**3** can lead to intraoperative and postoperative pulmonary complications with impact on morbidity and mortality

## Lung recruitment



### Indications:

- Atelectasis resulting in
  - hypoxaemia
  - impairment of ventilation
- Obesity
- Ventilation with high FiO<sub>2</sub>
- Endotracheal suction & tube disconnection

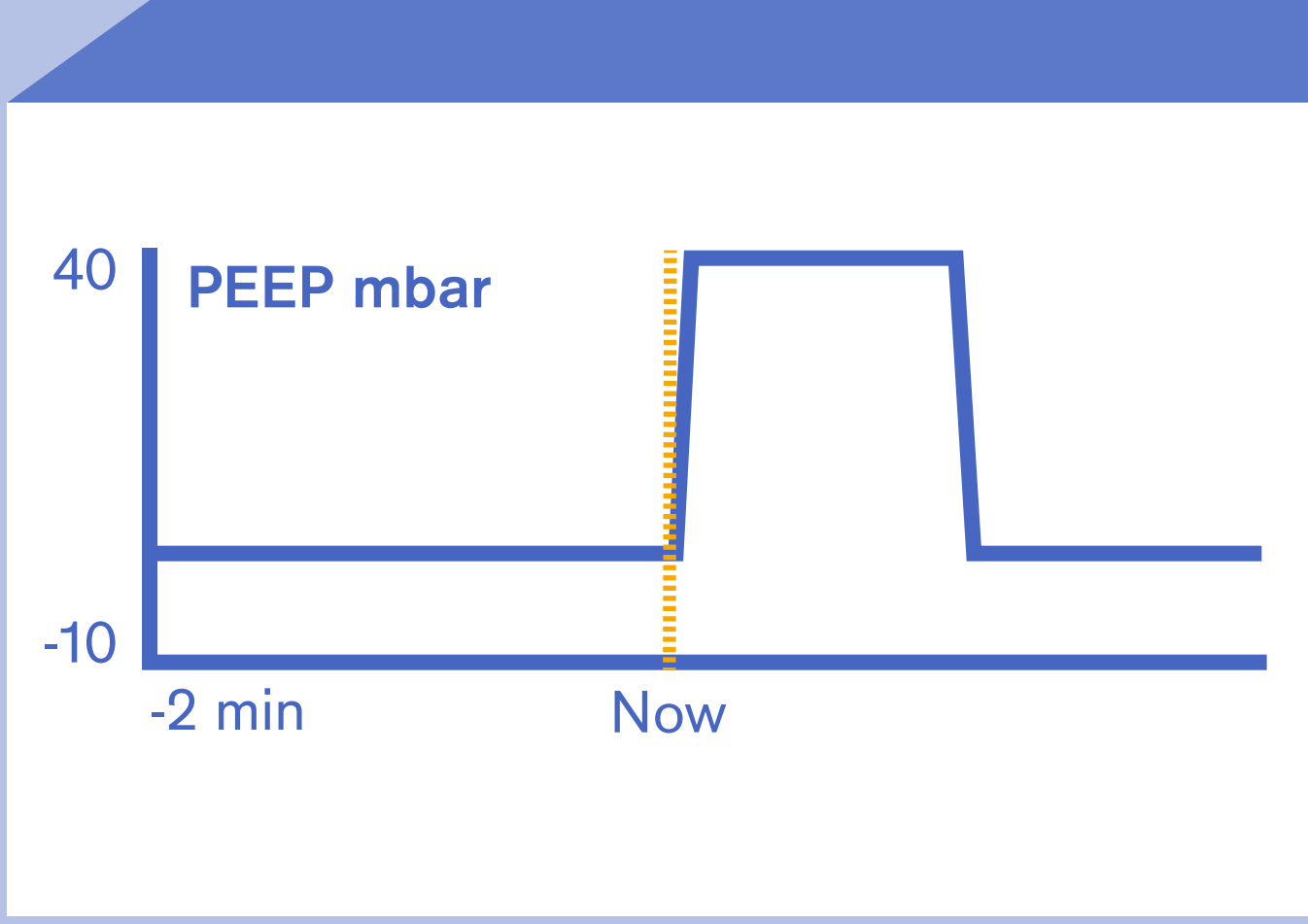


### Contraindications:

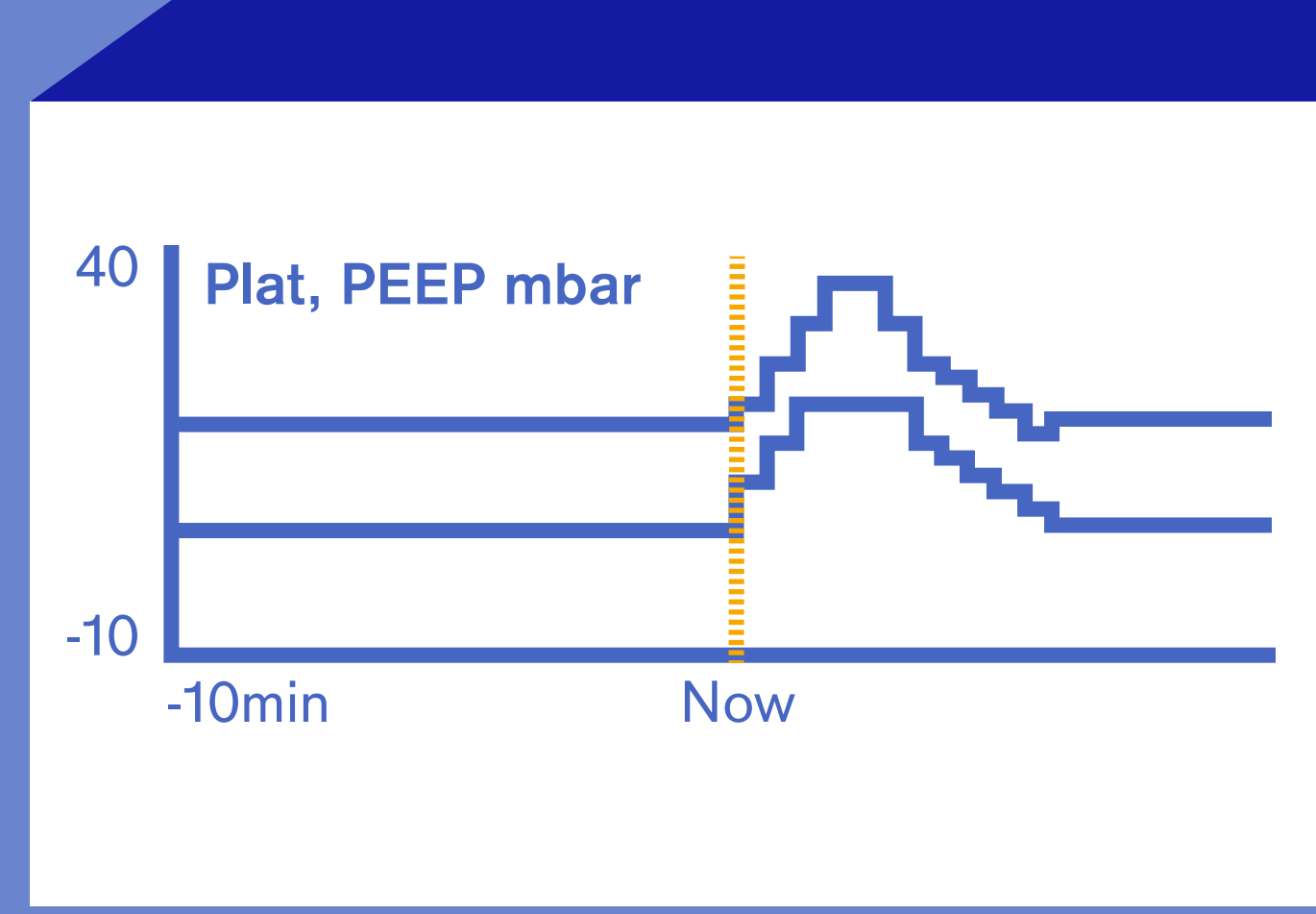
- lung emphysema
- haemodynamic instability
- right heart failure
- increased brain pressure

## Lung recruitment maneuvers

### One-Step recruitment (sustained inflation)



### Multi-Step recruitment (Incremental recruitment)



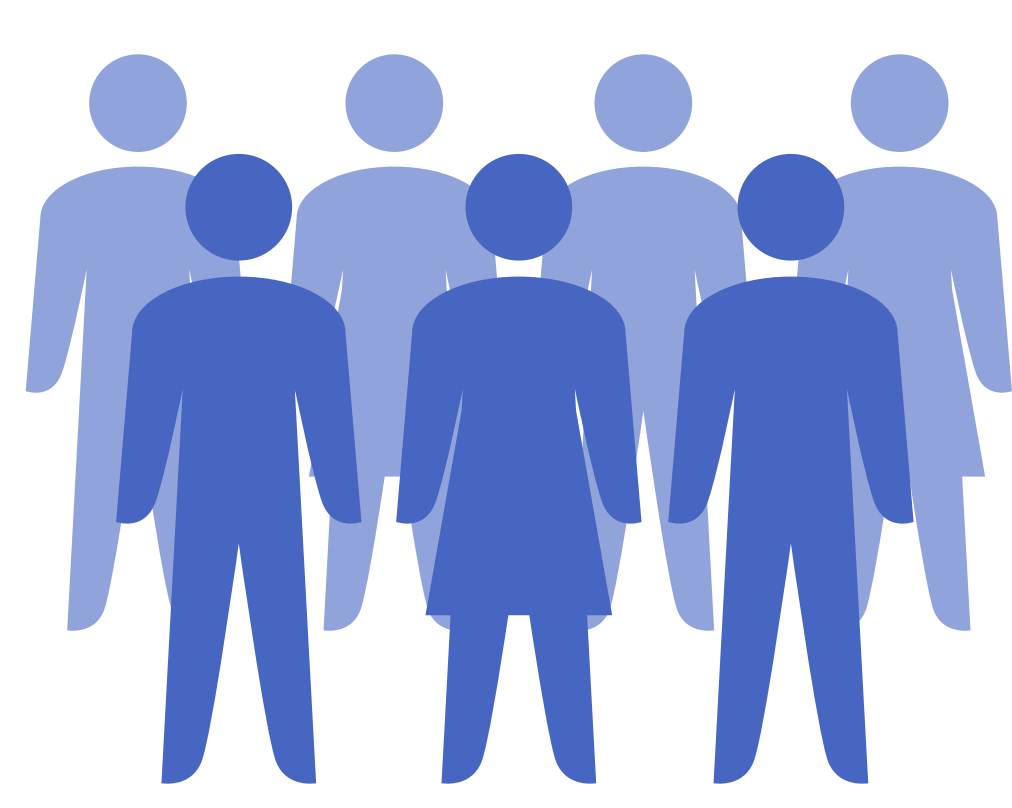
## Effects of recruitment maneuvers

- Improvement of ventilation & oxygenation
- Increase of function residual capacity (FRC)
- Increase in lung compliance
- Reduction in work of breathing
- Reduction of right-left-shunt



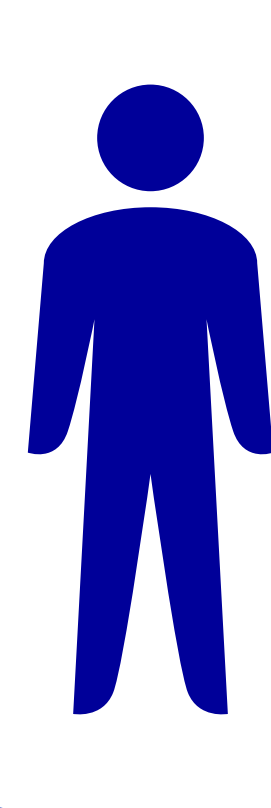
## The future of PEEP\*

### One PEEP fits all ?



Moderate to low PEEPs of 2-5 cmH<sub>2</sub>O ?

### Patient-specific PEEP ?



\*For more details, read our whitepaper.