Randomisation

AVAPS
- IPAP = EPAP + 4 - 30 cmH₂O
- EPAP = 8 - 10
- Vte = 8 - 10 ml/kg (ideal weight)
- Ti 30-50% cycle
- Back up rate = Resting rate - 4

PS
- IPAP = 18 - 22 cmH₂O
- EPAP = 8 - 10
- Ti 30-50% cycle
- Back up rate = Resting rate - 4

Limited respiratory polygraphy including oximetry-capnometry
Satisfactory control of nocturnal hypoventilation (mean nocturnal SpO₂ > 88% and a fall or rise < 0.5 kPa in tcCO₂) and abolition of obstructive events?

No
- Increase Vte by 10% to improve hypoventilation
- Titrate EPAP to abolish obstructive events (max 16)

Yes
- Titration
  - IPAP - 10% to nearest 1 cmH₂O
  - Vte - 10% to nearest 10 ml
  - EPAP - 1 cmH₂O steps with tandem increase in IPAP (1 cmH₂O) or Vte (5-10%)

No
- Increase IPAP by 10% to improve hypoventilation
- Titrate EPAP to abolish obstructive events (max 16)

Discharge

Aims
- Mean nocturnal SpO₂ > 88%
- Fall or rise < 0.5 kPa in tcCO₂
- No snoring / upper airways obstruction