

## 8.18 Long Term Non-Invasive Ventilation (NIV) Service

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**Background:** Long-term NIV in chronic obstructive pulmonary disease (COPD) is both an established and increasingly used treatment option for patients with chronic hypercapnic respiratory failure. It has been shown to have both benefits in mortality and a trend towards reduction in re-hospitalization particularly at higher inspiratory pressures (1).

**Methods:** A single centre retrospective cohort study was conducted to review all patients commenced on long-term NIV between the periods of Feb 2014 to June 2023. Data collected included patient demographics, lung function, arterial blood gas measurements, ventilator settings, outpatient (OPD) review frequency, hospitalisations, mortality and compliance.

**Results:** A total of 32 patients were commenced on long-term home NIV. 44% (n=14) male vs 56% female (n=20), with a median age of 65 years vs 66 years respectively. Utilization of home NIV significantly increased over the preceding 3 years with 72% (N=23) commencing post 2020 and 41% (N=13) of all patients initiated in the last 8 months. More than 50% of patients had no respiratory OPD follow-up.

**Conclusion:** In response to our findings we aim to establish a ventilation specific clinic for this cohort of patients. These NIV clinics will aim to optimize pressure settings and decrease treatment non-compliance leading to a reduction in both symptom burden and need for hospitalisation.

**Keywords** NIV, clinics, compliance.

**Disclosures:** The authors declare that they have no conflict of interest.

### References:

- (1) Macrea M, Oczkowski S, Rochweg B, et al. Long-Term Noninvasive Ventilation in Chronic Stable Hypercapnic Chronic Obstructive Pulmonary Disease. An Official American Thoracic Society Clinical Practice Guideline. *Am J Respir Crit Care Med* 2020; 202:e74.