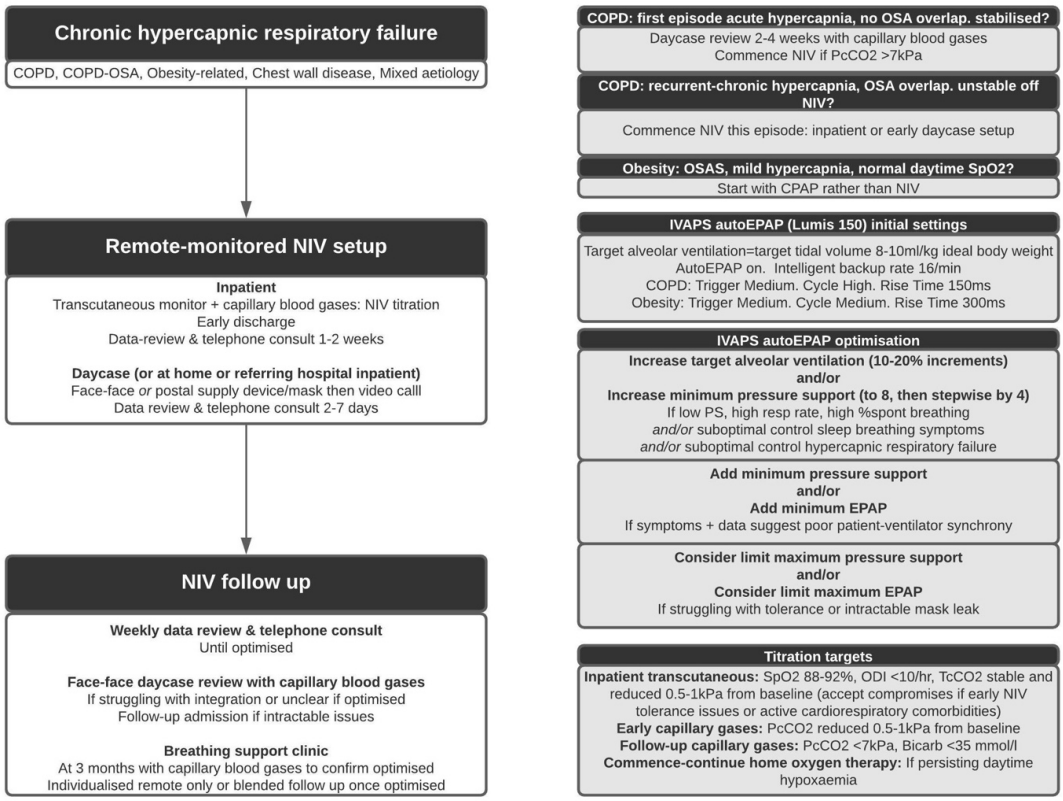
ASSISTIVE TECHNOLOGIES FOR HOME NIV IN PATIENTS WITH COPD: FEASIBILITY AND POSITIVE EXPERIENCE WITH REMOTE-MONITORING AND VOLUME-ASSURED AUTO-EPAP NIV MODE

Supplementary Material



Supplementary Figure 1

NHS GG&C breathing support service protocol for initiation of home NIV

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Supplementary Figure 2

Single night detailed NIV data from AirView platform showing iVAPS-autoEPAP mode therapy which is optimised.

Notable reassuring findings are minimal unintentional leak and appropriate pressure support with variable IPAP and EPAP. Respiratory rate is reduced and tidal volume is augmented by therapy. High proportion of breaths are device rather than spontaneously triggered.

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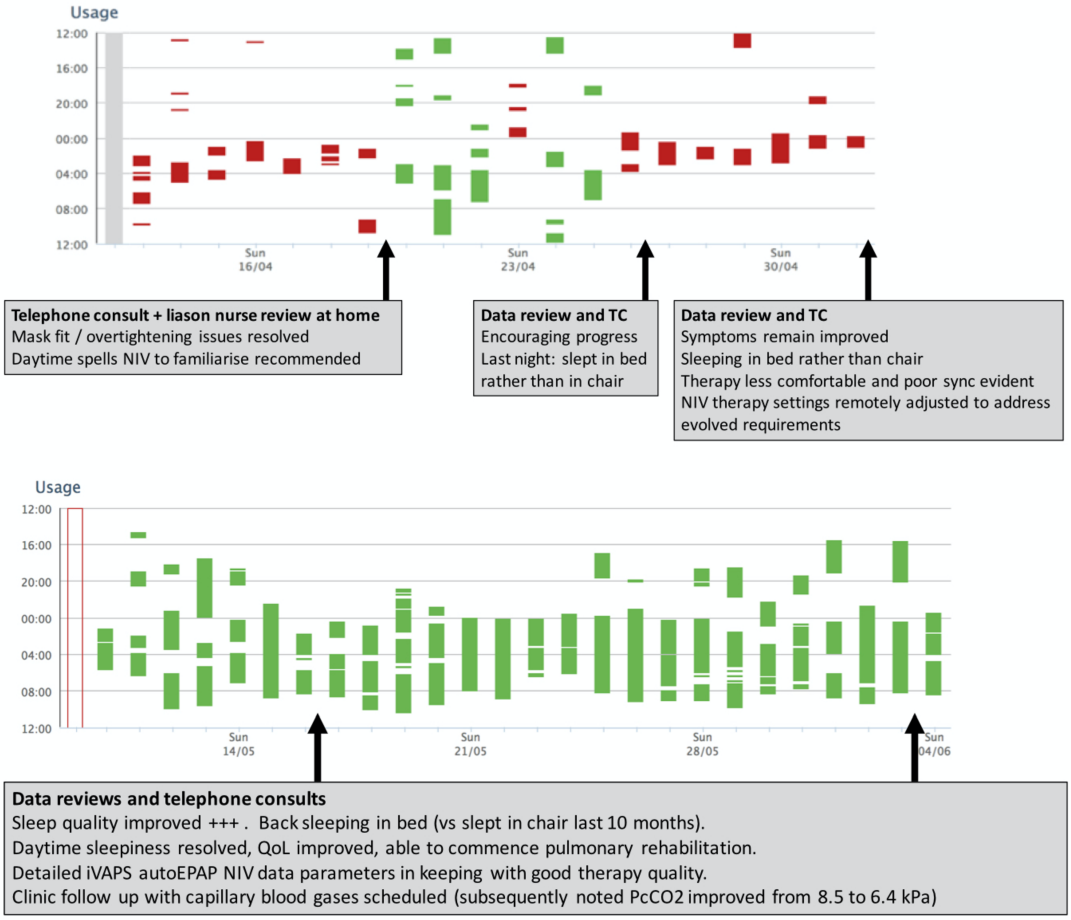

Supplementary Figure 3

Annotated AirView NIV remote monitoring summary data from a COPD patient, demonstrating typical NIV setup and early follow up experience.

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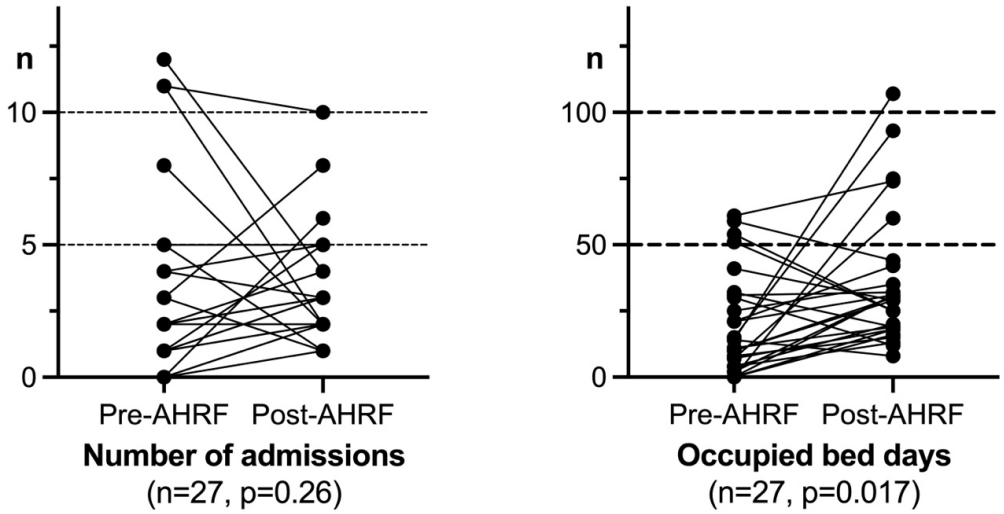

Supplementary Figure 4

Changes in healthcare usage in the year before and after index episode of acute hypercapnic respiratory failure (AHRF) in patients who were not referred for breathing support assessment and were not initiated on home NIV. There was no significant change in admission rates, but there was a significant rise in annual occupied bed days (median 11 days per patient) following the episode of AHRF. Data on respiratory nurse home visits was not available for this cohort.