COPD-OSAHS overlap syndrome: investigations and treatment

Priority factors for rapid assessment severe hypercapnia PaCO₂ > 7 kPa when awake hypoxaemia (<94% on air) **Diagnosis** acute ventilatory failure vocational driving or vigilance-critical job Measure arterial blood gas when awake to assess for ventilatory unstable cardiovascular disease failure. Do not delay treatment for acute ventilatory failure for further investigations pregnancy • Offer spirometry if COPD severity is not already determined preoperative assessment for major Offer home or hospital respiratory polygraphy surgery Consider transcutaneous CO₂ monitoring with respiratory non-arteritic anterior ischaemic optic polygraphy to guide treatment neuropathy **OSAHS** and nocturnal **OSAHS** confirmed **OSAHS** and nocturnal hypoventilation confirmed hypoventilation excluded No severe hypercapnia Severe hypercapnia PaCO₂ ≤ 7 kPa $PaCO_{9} > 7 kPa$ Follow NICE's guideline on COPD Discuss lifestyle changes tailored Discuss lifestyle changes tailored to the person's needs to the person's needs Give information on COPD-• Give information on COPD-OSAHS overlap syndrome, OSAHS overlap syndrome, including the treatments including the treatments available and choosing the best available and choosing the best treatment for the person treatment for the person **Rhinitis** Assess people with nasal **Consider CPAP Consider NIV** congestion for rhinitis and treat if confirmed (for details, see the guideline) **Consider heated humidification** Changing from nasal to orofacial for upper airway side effects, such masks and adding humidification as nasal and mouth dryness, and can help with CPAP tolerance **CPAP-induced rhinitis**

Monitoring and support (for further details, see the guideline)

- Monitor and optimise therapy with CPAP and NIV
- Tailor follow-up to the person and offer face-to-face, video or phone consultations with telemonitoring data, if available
- Ensure follow-up is in line with DVLA guidance on assessing fitness to drive
- Offer access to a sleep and ventilation service for CPAP and NIV users for advice, support and equipment
- Offer educational or supportive interventions by trained specialists to improve adherence

Supplemental oxygen

- Consider supplemental oxygen if hypoxaemia persists despite optimised CPAP or NIV, and address any additional underlying causes of hypoxaemia where possible
- Review if oxygen is still needed after treatment with CPAP or NIV has been optimised

Consider stopping CPAP or NIV and using a symptom-management approach for severe COPD if symptoms or quality of life do not improve, or CPAP or NIV add to the burden of therapy

