

**CERTIFICATE OF MEDICAL NECESSITY TO BE ISSUED TO CGHS BENEFICIARIES BEING PRESCRIBED CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP) DEVICE (To be filled by the treating physician)**

Certification Type: Initial/ Revised

1. Patient Name
2. Age of Patient
3. Physician Name
4. Address of physician
5. Telephone No of Physician
6. (a) Brief history and physical findings

(b) co-morbidity (if any) e.g. COPD, diabetes mellitus etc.

(c) Whether accompanied by symptoms of

- |   |   |        |
|---|---|--------|
| <input type="checkbox"/> Excessive daytime sleepiness   | : | Yes/No |
| <input type="checkbox"/> Snoring  | : | Yes/No |
| <input type="checkbox"/> Impaired cognition   | : | Yes/No |
| <input type="checkbox"/> Documented cardiovascular disease like Hypertension, ischemic heart disease or Stroke (specify if Yes) | : | Yes/No |

7. Laboratory data (specify date against each parameter):

Hematocrit

ECG

Blood Sugar

Lipid Profile

Arterial blood gases:

Date

pH

paO<sub>2</sub>

paCO<sub>2</sub>

HCO<sub>3</sub> a

HCO<sub>3</sub> s

BE

O<sub>2</sub> sat

X-ray Chest

Echocardiography (wherever necessary)

Pulmonary function tests

Thyroid function tests

Ear, nose & throat examination

Others (specify)

8. Diagnostic nocturnal polysomnography (NPSG) data: Only whole night polysomnography (Level-1) including channels for sleep, breathing, pulse oxymetry, leg EMG, ECG, snoring will be accepted for consideration of CPAP/BiPAP

- (a) Date of sleep study
- (b) Address of sleep-laboratory / facility
- (c) Duration of diagnostic NPSG study (in hours)
- (d) Parameters studied during polysomnography
 

<input type="checkbox"/> Electro-encephalogram	Yes/No
<input type="checkbox"/> Electro-oculogram	Yes/No
<input type="checkbox"/> Electro-myogram	Yes/No
<input type="checkbox"/> Oro-nasal airflow	Yes/No
<input type="checkbox"/> Chest & abdominal wall effort	Yes/No
<input type="checkbox"/> Body position	Yes/No
<input type="checkbox"/> Snore microphone	Yes/No
<input type="checkbox"/> Electro-cardiogram	Yes/No
<input type="checkbox"/> Oxyhemoglobin saturation	Yes/No
- (e) Average number of obstructive events per hours of recorded sleep (in case of standard as well as split NPSG)
  - (i) Obstructive apnoea\*
  - (ii) hypopnea\*\*
  - (iii) Flow limitations \*\*\*
  - (iv) RERA
- (f) Respiratory Distress Index (RDI)\*\*\*\*

9. Date of CPAP titration study

10. CPAP pressure (in cm H<sub>2</sub>O) prescribed (to abolish obstructive apnoeas, hypopneas, RERAs and snoring in all sleep positions and sleep stages):

11. Supplemental oxygen (flow rate or FiO<sub>2</sub>):

12. Final Diagnosis

I certify that the medical necessity information is true, accurate and complete to the best of my knowledge. I have carefully gone through the note for prescribers before filling up this proforma.

Date:

(Full Name, signature & address of Physician)

**Note for prescribers (For diagnostic as well as for titration):**

Only whole night manually validated Level-1 polysomnography including channels for sleep, breathing, pulse oxymetry, leg EMG, ECG, snoring & CPAP titration will be accepted for consideration of CPAP/BiPAP. Screening studies such as Level III, Level IV (Cardio pulmonary sleep studies) shall not be acceptable. Auto titrated CPAP studies shall also not be acceptable.

\* **Apneas** Absence of airflow on the nasal cannula and < 10% baseline fluctuations on the thermistor signal, lasting for > 10 s.

\*\*\* **Flow limitation** events: Any series of two or more breaths (lasting > 10s) that had a flattened or nonsinusoidal appearance on the inspiratory nasal cannula flow signal and ended abruptly with a return to breaths with sinusoidal shape.

\*\* **Hypopneas** American Academy of Sleep Medicine (AASM) hypopneas: As proposed by the AASM Task Force (10), these events include both flow Hypopneas and any flow limitation event associated with 3% desaturation or associated with an AASM arousal.

\*\*\* **RERA (respiratory effort-related arousal)** is defined as a event characterized by increasing respiratory effort for  $\geq 10$  seconds leading to arousal from sleep but which does not fulfill the criteria for hypopnoea or apnoea. A RERA is detected with nocturnal esophageal catheter pressure measurement, which demonstrates a pattern of progressive negative esophageal pressures terminated in a change in pressure to a less negative pressure level associated with an arousal.

**Upper airway resistance syndrome (UARS):** is an abnormal breathing pattern during sleep that is associated with isolated daytime sleepiness not explained by any other cause, including the obstructive sleep apnoea/hypopnea syndrome. Essential features include (a) the clinical complaint of excessive daytime sleepiness; (b) an elevated EEG arousal index (more than ten per hour of sleep) with arousals related to increased respiratory efforts as measured by continuous nocturnal monitoring of esophageal pressures; (c) a normal RDI of less than 5 events per hour of sleep. Supportive features include (a) the clinical complaint of snoring (b) an increase in snoring intensity prior to EEG arousals and (c) clinical improvement with a short term trial of nasal CPAP therapy.

**Split-Night Study NPSG:** Patients with a RDI of >40 events per hour during the first 2 hours of a diagnostic NPSG receive a split-night study NPSG, of which the final portion of the NPSG is used to titrate CPAP; split-night study may be considered for patients with RDI of 20-40 events

