वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH अनुसंधान भवन, 2 रफी मार्ग, नई दिल्ली – 110001 Anusandhan Bhawan, 2, Rafi Marg, New Delhi - 110001



सा॰/No.: 5-1(66)/2009-PD

दिनांक/Dated: 02.08.2021

प्रेषक / From: संयुक्त सचिव (प्रशासन)

Joint Secretary (Admn.)

सेवा में / To: सी.एस.आई.आर. की सभी राष्ट्रीय प्रयोगशालाओं/संस्थानों/मुख्यालय/एककों के निदेशक/प्रधान

The Directors/Heads of all CSIR National Labs./Instts./Hgrs./Units

महोदय/Sir / महोदया/Madam,

मुझे भारत सरकार द्वारा जारी किए गए निम्नलिखित कार्यालय ज्ञापन को आपकी जानकारी, मार्गदर्शन और अनुपालन के लिए अग्रेषित करने का निदेश हुआ है:

I am directed to forward herewith the following Office Memorandum issued by the Government of India for your information, guidance and compliance:

क्रम सं.	कार्यालय ज्ञापन सं/ .	विषय/
SI. No.	Office Memorandum No.	Subject
1.	भारत सरकार, स्वास्थ्य एवं परिवार कल्याण मंत्रालय, स्वास्थ्य एवं परिवार कल्याण विभाग का कार्यालय ज्ञापन सं॰ S.14025/55/2019-EHS दिनांक 27.05.2021 Government of India, Ministry of Health & Family Welfare, Department of Health & Family Welfare Office Memorandum No. S.14025/55/2019-EHS dated 27.05.2021	Revision of guidelines regarding provision of CPAP/BiPAP/Oxygen concentrator, in respect of CS(MA) beneficiaries for domiciliary use.

भवदीय/Yours faithfully

संतोष कुमार/Santosh Kumar

अन्.अधि.(नीति प्रभाग)/Section Officer (PD)

संलग्न/Encl. : यथोपरि/As above प्रतिलिपि/Copy to:

- 1) आई.टी. प्रभाग प्रमुख वेबसाइट और पॉलिसी रिपॉजिटरी पर इस परिपत्र को उपलब्ध कराने के अनुरोध के साथ/ Head, IT Division with the request to make this circular letter available on the website & Policy Repository.
- 2) कार्यालय प्रति/Office copy.

No. S.14025/55/2019-EHS Government of India Ministry of Health & Family Welfare Department of Health & Family Welfare EHS Section

Nirman Bhawan, New Delhi Dated: the 27th May, 2021

OFFICE MEMORANDUM

Sub:- Revision of guidelines regarding provision of CPAP / BiPAP / Oxygen concentrator, in respect of CS(MA) beneficiaries for domiciliary use.

The undersigned is directed to refer to the Office Memorandum No. S.14025/6/2006-MS dated 19th May, 2006 issued by this Department on the above subject. The matter has been reviewed in this Ministry and the following guidelines have been framed for considering requests for permission to purchase Oxygen Concentrator/BiPAP/CPAP etc. by CS(MA) beneficiaries and regulating reimbursement of cost of such machines to the CS(MA) beneficiaries:

- (i) Request of the beneficiary should be accompanied with the relevant proforma prescribed for the machine, duly filled up by the treating physician (specimen copy of proforma attached). The treating physician should carefully read the laid down guidelines before filling up the respective columns of the Proforma. Actual value of all the parameters mentioned in Proforma should invariably be entered and complete basic investigation reports must be attached.
 - A. Arterial blood gas report taken while the patient is in stable condition and is breathing room air (in case of oxygen concentrator and bi-level ventilator supplier system).
 - B. Detailed in-lab-level-I polysomnography report (including all the tracings and tables) in case of recommendation for CPAP and Bi-level CPAP.
- (ii) As these machines are life saving devices and have a maximum life of five years, these will be allowed to be replaced again after a period of five years subject to a certificate by the service engineer regarding the un-serviceability/condemnation/ of the earlier machine.

- (iii) The beneficiary has also to submit an undertaking to the effect that he has not claimed reimbursement of the cost of the machine in the last five years (copy of format for the affidavit and the undertaking is enclosed).
- (iv) Individual requests for permission/ replacement / ex-post facto approval shall be considered by the screening committee consisting of DDG(M), Dte.GHS and two Medical Specialists in the concerned field.
- (v) The maximum ceiling limit for reimbursement will be as following:

a. Oxygen Concentrator	Rs. 45,900/-+ GST
b. CPAP	Rs. $45,000/-+GST$
c. Bi-level CPAP	Rs. 68,000/-+GST
d. Bi-level Ventilatory System	Rs. 1,05,000/- + GST

- (vi) The above ceiling limits include cost of maintenance with spare parts for a period of five years. No request for reimbursement of cost of maintenance/parts will be entertained.
- (vii) Request for replacement of machine after completion of five years will need to be advised and processed in the same manner as for the first machine.
- (viii) Request for permission/ex-post facto approval of these machines, complete in all respect as mentioned above may be sent to Directorate General Health Services.
- 2. This Office Memorandum supersedes all earlier instruction issued on this subject. These instructions shall take effect from the date of issue of this Office Memorandum i.e. all requests under this OM should have advice for these machines subsequent to the issue of this OM.
- 3. This issues with the concurrence of Integrated Finance Division, Ministry of Health & Family Welfare vide concurrence Dairy No. 2188, dated 23rd December, 2020.



(Sandeep Kumar) Under Secretary to the Govt. of India

- 1. All Ministries/Departments, Government of India.
- 2. PPS to Secretary (H&FW)/Secretary (AYUSH)/Secretary (HR).
- 3. PPS to DGHS/AS&DG (CGHS)/AS&FA/AS&MD, NRHM/AS(H), MoHFW, New Delhi
- 4. Director, CGHS, Nirman Bhawan, New Delhi
- 5. Addl.DDG(HQ), CGHS, MoHFW, Nirman Bhawan, New Delhi
- 6. AD(HQ), CGHS, R.K.Puram, Sector-12, New Delhi
- 7. All Addl. Directors/Joint Directors of CGHS cities outside Delhi
- s. Rajya Sabha/Lok Sabha Secretariat, New Delhi
- 9. Registrar, Supreme Court of India, New Delhi
- 10.U.P.S.C. Dhoinur House, New Delhi
- 11.Office of the Comptroller & Auditor General of India, Pocket-9, Deen Dayal Upadhyaya Marg, New Delhi.
- 12. Integrated Finance Division, MoHFW, Nirman Bhawan, New Delhi
- 13. Deputy Secretary (Civil Service News), Department of Personnel & Training, 5th Floor, Sardar Patel Bhawan, New Delhi.
- 14. Secretary, Staff Side, 13-D, Ferozshah Road, New Delhi
- 15. All Staff Side Members of National Council (JCM)
- 16.ED(H)/Planning, Railway Board, Ministry of Railways, Rail Bhawan, Rafi Marg, New Delhi 110001
- 17. Central Organisation, ECHS, Department of Ex-Servicemen Welfare, Ministry of Defence, New Delhi
- 18. Chairman, Employees State Insurance Corporation, Ministry of Labour & Employment, Panchdeep Bhawan, C.I.G. Marg, New Delhi-110002
- 19.UTI-ITSL, 153/1, First Floor, Old Madras Road, Ulsoor, Bengaluru-560008.
- 20. Hindi Section, MoHFW, Nirman Bhawan, New Delhi for providing Hindi version of this OM.
- 21. Guard file.

UNDERTAKING

I, the undersigned, do hereby declare that, I have not purchased any CPAP/BIPAP/
Oxygen Concentrator machine, in the past five years at Government expenses.

- 1. Name:
- 2. Office I.D. NO:
- 3. Name of Department/ Ministry :
- 4. Address of Applicant / Mobile:

Dated:

Signature of the Applicant.

Nota	rized Affidavit for BIPAP / CPAP / Oxygen Concentrator Machine
1	. Sh./Smt./Kum
	Working in the Department/ MinistryR
	/Odo solemnly affirm and declare that
	The CPAP / BIPAP / Oxygen concentrator machine has been advised by Dr
	I undertake to return CPAP / BIPAP / Oxygen concentrator machine in good working condition to Directorate. General Health Services, Nirman Bhawan, New Delhi, after its utility is over.
Á	The responsibility for maintenance and upkeep of the machine will lie with me. I shall not claim Expenditure incurred, if any, on upkeep and maintenance of the machine.
	I will submit the claim at ceiling / approved rates and the remaining amount, if any, will be borne by me.
	I have enclosed a complete sleep lab report / ABC Report and performa duly filled by treating specialist.
	I shall not use the aforesaid machine for any other purpose except treatment of

CERTIFICATE OF MEDICAL NECESSITY TO BE ISSUED TO CS[MA]
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
 - Excessive daytime sleepiness

Yes/No

Snoring

a /Impaired cognition

Yes/No Yes/No

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

PaO2

HCO3 a HCO3 s

BE

02 881

ray Chest

Echocardiography (wherever necessary)

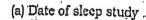
Pulmonary function tests

Thyroid function tests

Ear, nose & throat examination

Others (specify)

8. Diagnostic noctumal polysomnography (NPSG) data: Only whole night polysomnography (Level-1) including channels for sleep, breathing, pulse oxymetry, leg EMG, ECG, anoring will be accepted for



- (b) Address of sleep-laboratory /facility
- (c) Duration of diagnostic NPSG study (in hours)

(d) Parameters studied during polysomnography

Electro-encephalogram	Yes/No
Electro-oculogram	Yes/No
Electro-myogram	Yes/No
Oro-nasal airflow	Yes/No
" . Chest & abdominal wall effort	Yes/No
Body position	Yes/No
Snore microphone	Yes/No
" Electro-cardiogram	
	Yes/No
A Sport Settil Strictl	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 H₂O) prescribed (to abolish obstructive apnoeas, hypopneas, RERAs and snoring in all sleep positions and sleep stages):
- 11. Supplemental oxygen (flow rate or FiO₂):
- 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

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

(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.

hypopuess 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 an AASM arousal.

characterized by increasing respiratory effort for ≥ 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

per hour, based on clinical observations, such as the occurrence of obstructive respiratory events with a prolonged duration or in associated with severe oxygen desaturation; a minimum of 3 hours of sleep is preferred to adequately titrate CPAP after this treatment is initiated; split-night studies require the recording and analysis of the same parameters as a standard diagnostic NPSC; on occasion, an additional full-night CPAP titration NPSG may be required if the split-night study did not allow for the abclishment of the vast majority of jobstructive respiratory events or prescribed CPAP treatment does not control clinical

CPAP treatment is indicated in the following situations:

The treatment of obstructive sleep aprica (OSA) in adults is considered medically necessary for patients who meet either of the following citeria on polysomnography:

1. Apnea Hypopnea Index (AHI) or a respiratory disturbance index (RDI) greater than or equal to 15 events per hour; OR

2. AHI (or RDI) greater than or equal to 5; and less than 15 events per hour with documentation demonstrating any of the following

- o Excessive daytime sleepiness, as documented by either a symptoms: score of greater than 10 on the Epworth Sleepiness scale or inappropriate daytime napping, (e.g., during driving, conversation or sating) or sleepiness that interferes with daily activities; or
 - o Impaired cognition or mood disorders; or

Hypertension; or

- o Ischemic heart disease or history of stroke; or
- Cardiac arrhythmias, or
- Pulmonary hypertension.

The AHI is equal to the average number of episodes of apnea and hypopnea per hour and must be based on a minimum of two hours of sleep recorded by polysomnography using actual recorded hours of sleep, (i.e., the AHI may not be extrapolated or projected).

Note: For the purposes of this recommendation, the terms apnea hypopnea index (AHI) and respiratory disturbance index (RDI) are interchangeable, although they may differ slightly in clinical use; an AHI/RDI greater than 30 is consistent with severe obstructive sleep apnea. In some cases, respiratory effort-related arousals (or RERAS) are included in the RDI value. These RERA episodes represent EEG grousals associated with increased respiratory efforts but do not qualify as aprieto in hypopheto episodes because of the absence of their defining air flow changes and or levels of oxygen desauration.

CERTIFICATE OF MEDICAL NECESSITY TO BE ISSUED TO (CS(MA))
BENEFICIARIES BEING PRESCRIBED BILEVEL CONTINUOUS
POSITIVE AIRWAY PRESSURE (BI-LEVEL CPAP) / BI-LEVEL
VENTILATORY SUPPORT SYSTEM (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)

(c) Whether accompanied by symptoms of

B	Excessive daytime sleepiness:	res/No
ø	Snoring	Yes/No
Q	Impaired cognition :	Yes/No
Ø	Documented cardiovascular disease like	

 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 (wherever necessary)

V

Lipid Profile (wherever necessary)
Arterial blood gases: 1 2
Date
pH
paO2
paCO2
HCO3 a
HCO3 s

(Note: the Arterial blood gas values should include those during chronic, stable state (atleast 3 months after an acute exacerbation) of the disease e.g. in a case of COFD, the ABG value during acute exacerbation generally demonstrates moderate to severe hypercaphia which may normalise during stable state and therefore may not be an indication for long term NIPPV)

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

Electro-encephalogram

Electro-oculogram

Electro-myogram

Oro-nasal airflow

Yes/No

Yes/No

Yes/No

Yes/No

2:

5

- 11 -

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

Electro-encephalogram	Yes/No
* Electro-oculogram	Yes/No
Electro-myopram	Yes/No
Oro-nasal airflow	Yes/No
Chest & abdominal wall effort	Yes/No
Body position	Yes/No
Snore microphone	Yes/No
Electro-cardiogram	Yes/No
Normalia	Yes/No
	4 4 4 7 4 4 4

- (e) Average number of obstructive events per hours of recorded sleep (in case of standard as well as split NPSG)
 - (i) Obstructive apnoca*
 - (ii) hypopnea**
 - (iii) Flow limitations ***
 - (iv) RERA
- (f) Respiratory Distress Index (RDI)
- 9. Date of CPAP titration study
- 10. CPAP pressure (in cm H₂O) prescribed (to abolish obstructive apnoeas, hypopneas, RERAs and snoring in all sleep positions and sleep stages):
- 11. Supplemental oxygen (flow rate or FiO2):
- 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 illration):

Only whole night manually validated Level-1 polysemnography including channels for eleep, breathing, pulse exymetry, leg EMO, ECO, 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.

Appress Absence of airflew on the nasal cannula and < 10% baseline fluctuations on the thermister signal, lasting for > 10 s.

(lasting > 10s) that had a flattened or nonsinusoidal appearance on the inspiratory pacal canaula flow signal and ended abruptly with a return to breaths with sinusoidal shape.

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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

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BI-LEVEL CPAP is indicated in the following conditions:

BI-LEVEL CPAP is a device used mainly for sewere cases of OSA.

Bilevel CPAP (with IPAP 4-22 cm water) and EPAP 4-22 cm water)

I. When CPAP pressure requirementies greater than 16 cm

II. Oral leaks become uncontrollable a # sub-therapeutic pressure after trying humidifier, chin strap & positive pressure therapy.

III. Pressure of central apneas due to to whigh pressures

IV. When patient cannot tolerate CPAP after ensuring the problem is not due to oral leaks, dryness, masal congestion, interface problem or claustrophobia.

V. Patients with persistent hypoxia and/or hypercapnia after treatment with CPAP

BI-LEVEL Ventilatory support system is hallcated in the following

Bilevel CPAP (with IPAP 4-30 cm water) and EPA P4-30 cm water)

(I) Restrictive Thoracic Discase: (e.g., sequelar, of polio, spinal cord injury, neuropathies, myopathies and dystrophies, amyotrophic lateral sclerosis, chest wall deformities and kyphoscollosis, post thoracoplasty

for TB) with symptoms (such as fatigue, dysphoce, morning headaches etc) and one of the following: (a) PaCO₂ > 45 mmHg on room air or PaCO₂ > 52 mmHg, done while awake and breathing the patient's usual FiO₂, (b) sleep eximetry demonstrating exygen saturation <88% for at least than 5 consecutive minutes done while breathing the patient's usual FiO₂; (c) for progressive neuromuscular disease (only) maximal inspiratory pressure is <60 cm H₂O or forced vital capacity is < 50% predicted AND, chronic obstructive pulmonary disease does not contribute significantly to the patient's pulmonary limitation.

(II) Chronic Obstructive Pulmonary Disease (COPD) (e.g. chronic bronchitis, emphysema, bronchiectasis) with symptoms (such as fatigue, dyspinea, morning headache etc) and one of the following: (a) PaCO₂ > 55 mmHg while awake and breathing patient's usual FiO₂ (b) PaCO₂ of 50 mmHg and nocturnal desaturation of spO₂ ≤ 88% for 5 continuous minutes while receiving oxygen therapy ≥ 2 LPM; (c) PaCO₂ of 50-54 mmHg and hospitalization related to recurrent (≥ 2 in a 12 month period) episodes of hypercapneic respiratory failure; optimal management with bronchodilators, oxygen when indicated must have been ensured; obstructive sleep apnoea must have been excluded by polysomnography and there should preferably be an evidence of sustained hypoventilation as shown by prolonged episodes of desaturation during sleep.

(III) Nocturnal hypoventilation from additional disorders (alveolar hypoventilation; central alveolar hypoventilation, idiopathic central sleep apnoea, obesity hypoventilation syndrome, Cheyne-Stokes respiration, obstructive sleep apnoea combined with COPD and pulmonary hypertension or CHF i.e. overlap syndrome, radiation fibrosis or occupational exposure diseases; NPSG criteria for OSA not responsive to CPAP include (i) PSG criteria for mixed sleep apnoea not responsive to CPAP therapy (ii) central sleep apnoea; (iii) other forms of nocturnal hypoventilation.

Indications for humidification

- (vi) Positive Airway Pressure more than 12 cm water
- (vii) Recurrent and intractable nasal stuffmess and blockage
- (viii) Severe dryness of throat

CORTIFICATE OF MEDICAL NECESSITY TO BE ISSUED TO CS(MA)
BENEFICIARIES BEING PRESCRIBED LONG TERM OXYGEN
THERAPY /OXYGEN CONCENTRATOR (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)
 - (c) Whether accompanied styr symptoms of

Excessive daytime sleepiness

s Snoring

Impaired cognition

 Documented cardiovascular disease like-Hypertension, ischemic heart disease or Stroke (specify if Yes) Yes/No Yes/No Yes/No

Yes/No

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

Hematocrit

ECG

X-ray Chest

Echocardiography (wherever necessary)

Mimonary function tests

Arterial blood gases: 1 2 3

Date
pH
paO2
paCO2
HCO3 a 3
HCO3 s
BE
O2 sat

(Note: the Arterial blood gas values should include those during chronic, stable state (atleast 3 months after an acute exacerbation) of the disease e.g. in a case of COPD, the ABG value during acute exacerbation generally demonstrates moderate to severe hypoxemia and hypercapula which may normalise during stable state and therefore may not be an indication for long term oxygen therapy)

Others (specify)

- 11. Final Diagnosis.
- 12. Recommended: Oxygen concentrator / portable oxygen cylinder / compressed oxygen cylinders
 - a. Flowrate
 - b. Nasal prongs/ Cannula
 - c. Nasal mask
 - d. Number of hours periday

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)

2

Ate for prescribers (For diagnostic as well as for titration):

Home oxygen therapy is the home administration of oxygen at concentrations greater than the ambient air with the intention of treating or preventing the symptoms and manifestations of hypoxic or non-hypoxic medical conditions that are known to clinically improve with oxygen.

Clinical Indications

Home oxygen therapy is considered medically necessary in the following circumstances:

- 1. Chronic Hypoxia (generally long-term use). The conditions with which this may be associated include, but are not limited to:
 - c Chronic obstructive pulmonary disease
 - o Diffuse interstitial lung disease
 - p Bronchiectasis
 - o Widespread pulmonary neoplasm
 - o Pulmonary hypertension
 - o Recurring congestive heart failure due to chronic corpulmonale

The following laboratory values, obtained while breathing ambient air, will be presumptive evidence for hypoxia:

Adults:

学师

- Arterial partial pressure of oxygen (PaO2) less than or equal to 55mmHg or arterial oxygen saturation (SaO2) less than or equal to 88%
- PaO2 levels between 56 and 59 or SaO2 89% in the presence of pulmonary hypertension, cor pulmonale, edema secondary to right heart failure, or erythrocytosis with hematocrit greater than 55%

Note:

- 1. Patients who desaturate to an SaO2 less than or equal to 88% only during exercise and who demonstrate improvement in both the hypoxia and dyspnea and/or exercise capacity when using O2 are candidates for supplemental O2 during exercise only.
- 2. Patients who desaturate only during sleep to an SaO2 of less than or equal to 88% for more than 30% of the night or with evidence of otherwise unexplained pulmonary hypertension core pulmonale, edema secondary to right heart failure, or erythrocytosis with

hematocrit greater than 55%, and in whom obstructive sleep apnea (OSA) and other nocturnal apnea or hypoventilation syndromes have been ruled out or, if OSA present, have persistent desaturation despite correction of AHI (RDI) by CPAP, are candidates for nocturnal O2.

Infants and Children:

Arterial partial pressure of oxygen (PaO2) less than or equal to 60mmHg or arterial oxygen saturation (SaO2) less than or equal to

Note: Portable oxygen systems are considered medically necessary only when needed to complement the medical needs of an individual who requires a stationary system