NIV Day____

| Patient's sticker | DATE___/___/___ | Physician : _____
Nurse day : _____
night : _____ |

- **Indication(s):**   ❑ COPD   ❑ CPE   ❑ Obstructive Sleep Apnea   ❑ Post-Extubation
  ❑ Pneumonia/ARDS   ❑ Obesity/hypoventilation   ❑ Other_____

- **Humidification :** Heated humidifier (Heat and moisture exchanger with Helmet)

- **NIV initiation** (1st session and/or 1st session after extubation) **:**

  ❑ YES   Duration: _____h   Arterial Blood Gas (ABG) under NIV H+1 ☒
  ❑ NO

- **Other sessions :**

  Minimal number of sessions/day: ___ (6 max)   Minimal number of hours/day:____

  Sessions between 0 and 6h**:** ❑ YES   continuously? YES ❑   NO ❑
                                  ❑ NO

- **Ventilatory mode:** ❑ PSV using NIV mode (Evita 4, XL or Engström)

  Targeted expiratory V_T between : l__l l__l l__l ml and l__l l__l l__l ml

  Minimal PS level: l__l l__l cm H_2O

  ❑ BIPAP: high pressure l__l l__l cm H_2O Ti l__l,l__l s   RR l__l l__l /min

  ❑ ACV: V_T l__l l__l l__l ml RR l__l l__l /min   Inspiratory Flow : 40L/min

- **Objectives : SpO_2 :**   ❑ 88-92%   ❑ 92-96%   ❑ 96%-100%

  PEEP   l__l l__l **cm H_2O**

- **Settings at initiation of each session**

All modes	
FiO2	30% if O_2 < 3l/min 50% if O_2 3-10 l/min 100% if O_2 > 10 l/min

PS mode	
PS level	8 cmH2O
PEEP	0 cmH2O
Insp. Trigger	3 L/min
Max inspiratory. time	1 sec
Delay Apnea	45 sec

- **ABG:**   ❑ At 8 a.m.   ❑ under NIV   ❑ without NIV (>30 min after the last session)
            ❑ Others : _____

- **Changes during the day:**

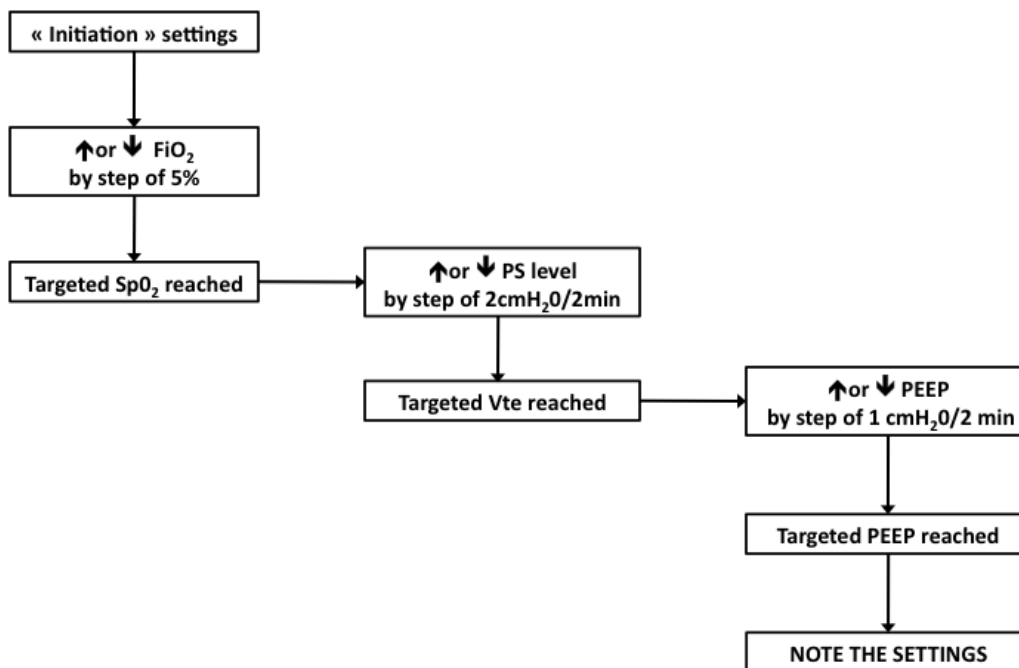| Name/hour	Prescription

Before each NIV session:

- Explain to the patient the course of the session
- Apply an artificial skin (Comfeel®) over the bridge of the nose to avoid nasal ulceration
- Check that heated humidifier is "on" in "NIV mode"
- Adjust the ventilator settings in accordance with those indicated on the first page
- Evaluate the potential risks before NIV session

Risky NIV session: when one of the four criteria is present before NIV session, there is a high risk of intubation and/or cardiac arrest. In this case, the patient must be transferred from the intermediate care unit to the ICU.

Monitoring codes

Tolerance:	0 (poor)	1 (bad)	2 (acceptable)	3 (excellent)
Leaks:	0 (none)	1 (few)	2 (many)	3 (major)

Settings adjustment:

What to do in case of leaks in PS mode?

1. Adjust mask
2. Reduce PEEP at 2 cmH$_2$O
3. Reduce PS level by step of 2 cmH$_2$O until the minimal expiratory volume is reached
4. Change the mask
5. Switch to BIPAP mode with:
   a. Inspiratory time 1 second
   b. Respiratory rate 10/min
   c. Start with a high pressure of 8 cm H$_2$O and gradually increase by step of 2cmH$_2$O to reach the targeted expiratory V$_T$

Session n° ____

Evaluation of risks before NIV session

RASS < -2:	**YES ☐/NO ☐**
Abundant secretions:	**YES ☐/NO ☐**
O$_2$>10L/min:	**YES ☐/NO ☐**
Nor/epinephrine :	**YES ☐/NO ☐**

Session n° ____

Evaluation of risks before NIV session

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Abundant secretions:	**YES ☐/NO ☐**
O$_2$>10L/min:	**YES ☐/NO ☐**
Nor/epinephrine :	**YES ☐/NO ☐**

Session n° ____

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Abundant secretions:	**YES ☐/NO ☐**
O$_2$>10L/min:	**YES ☐/NO ☐**
Nor/epinephrine :	**YES ☐/NO ☐**

Monitoring:

Hour	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__
RASS												
BP												
HR												
RR												
SpO$_2$												
FiO$_2$												
PS level												
PEEP level												
V$_T$ expiratory												
V$_E$ (L/min)												
Tolerance	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Leaks	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3

NIV tolerance:

Duration of the session: _____

Premature NIV disconnection for intolerance:

NO ☐   YES ☐

Hypoxemia after NIV disconnection:

NO ☐   YES ☐   with SpO$_2$: I__I__I %

Tested masks:

   The best: _____

   The worst: _____

   Why?   Leaks   YES ☐ NO ☐

   Pain   YES ☐ NO ☐

NIV tolerance:

Duration of the session: _____

Premature NIV disconnection for intolerance:

NO ☐   YES ☐

Hypoxemia after NIV disconnection:

NO ☐   YES ☐   with SpO$_2$: I__I__I %

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   The best: _____

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   Pain   YES ☐ NO ☐

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Monitoring:

Hour	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__	__H__
RASS												
BP												
HR												
RR												
SpO_2												
FiO_2												
PS level												
PEEP level												
V_T expiratory												
V_E (L/min)												
Tolerance	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Leaks	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3

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Hypoxemia after NIV disconnection:

NO ☐   YES ☐   with SpO_2: ⌊__⌊__⌋ %

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