

# ReddyPort® non-invasive ventilation products

Non-invasive ventilation (NIV) is the first line of therapy in respiratory insufficiency or failure, commonly seen with COPD, CHF<sup>1,2</sup>, Asthma<sup>3</sup>, pneumonia<sup>4</sup> or ARDS.<sup>5</sup> In addition, NIV is utilized to wean patients off mechanical ventilation. NIV therapy failure frequently occurs because the mask causes persistent dry mouth, biofilm formation, skin breakdown and difficulty communicating.<sup>6-8</sup> When NIV failure occurs, patients face a transition to invasive ventilation, higher costs, longer length of stays and diminished outcomes.<sup>9</sup>

Furthermore, Q2 or Q4 Oral Care protocols performed on ICU patients are compromised by mask removal that result in alveolar collapse<sup>10</sup> undermining the respiratory status of the NIV patient.

**ReddyPort products promote NIV success by empowering clinicians with efficient access to provide oral care without removing the mask or loss of therapeutic pressures.**

## THE REDDYPORT SYSTEM



ReddyPort elbow compatible with Philips Respironics AF531 and PerforMax masks



ReddyPort elbow compatible with Philips Respironics AF541 mask

## ReddyPort® Elbow

Making oral care possible while on active NIV starts with access that does not disrupt therapy.

At the core of the ReddyPort system is our proprietary elbow, with self-sealing valve, that provides seamless oral access to the patient's mouth without risking loss of therapeutic pressures or lung compliance.

### ReddyPort Elbow Features

- Patented self-sealing valve maintains pressure settings during or outside of use
- Includes an anti-asphyxia valve and connects to standard 22mm NIV tubing
- Compatible with Philips Respironics AF531, PerforMax, and AF541 NIV masks in both over-the-nose, and under-the-nose configurations
- Uniquely compatible with ReddyPort NIV Maintenance products and the ReddyPort Microphone

### References

1 Rochweg B, Brochard L, Elliott MW, Hess D, et al. Official ERS/ATS Clinical Practice Guidelines: Noninvasive Ventilation for Acute Respiratory Failure. *Eur Respir J*. 2017; 31:50(2):1602426-2 Huang CC, Muo CH, Wu TF, et al. The application of non-invasive and invasive mechanical ventilation in the first episode of acute respiratory failure [published online ahead of print, 2020 Mar 30]. *Intern Emerg Med*. 2020;1-9. 3 Stefan MS, Nathanson BH, Lagu T, et al. Outcomes of Noninvasive and Invasive Ventilation in Patients Hospitalized with Asthma Exacerbation. *Ann Am Thorac Soc*. 2016;13(7):1096-1104. 4 Hilbert G, Gruson D, Vargas F, et al. Noninvasive ventilation in immunosuppressed patients with pulmonary infiltrates, fever, and acute respiratory failure. *N Engl J Med*. 2001;344(7):481-487. 5 Ferrer M, Esquinas A, Leon M, Gonzalez G, Alarcon A, Torres A. Noninvasive ventilation in severe hypoxemic respiratory failure: a randomized clinical trial. *Am J Respir Crit Care Med*. 2003;168(12):1438-1444. 6 Smith TA, Davidson PM, Jenkins CR, Ingham JM. Life behind the mask: the patient experience of NIV. *Lancet Respir Med*. 2015;3(1):8-10. 7 Torheim H, Gjengedal E. How to cope with the mask? Experiences of mask treatment in patients with acute chronic obstructive pulmonary disease-exacerbations. *Scand J Caring Sci*. 2010;24(3):499-506. 8 Sørensen D, Frederiksen K, Groefte T, Lomborg K. Striving for habitual well-being in noninvasive ventilation: a grounded theory study of chronic obstructive pulmonary disease patients with acute respiratory failure. *J Clin Nurs*. 2014;23(11-12):1726-1735. 9 Ozyilmaz E, Ugurlu AO, Nava S. Timing of noninvasive ventilation failure: causes, risk factors, and potential remedies. *BMC*. 2019; 19. 10 Futier E, Constantin JM, Pelosi P, et al. Noninvasive ventilation and alveolar recruitment maneuver improve respiratory function during and after intubation of morbidly obese patients: a randomized controlled study. *Anesthesiology*. 2011;114(6):1354-1363. 11 Wong AI, Cheung PC, Happ MB, Gay PC, Collop NA. Consequences and Solutions for the Impact of Communication Impairment on Noninvasive Ventilation Therapy for Acute Respiratory Failure: A Focused Review. *Crit Care Explor*. 2020 Jun 15;2(6):e0121. doi: 10.1097/CCE.000000000000121. PMID: 32695990; PMCID: PMC7314319.



Silicone toothbrush being used to provide oral hygiene

## ReddyPort® NIV Maintenance

ReddyPort patented NIV maintenance products include the appliance options needed for following a compliant oral care protocol.

### ReddyPort NIV Appliance Features

- Single use components which allow oral care to be performed on NIV patients without removing the mask. Appliances can be purchased in a Q4 kit or in individual Yankauer, swab, suction toothbrush and moisturizer packs



Integrated protective guard appliances: applicator swab, suction swab, silicone toothbrush, Yankauer with silicone tip and Yankauer handle (shown left to right)



A unique feature of the ReddyPort appliances is the **integrated protective guard** that mates with the self-sealing valve of the ReddyPort elbow to prevent air leaks during use, help maintain therapeutic pressures and prevent liquids or moisturizer from squeegeeing into the mask.

## ReddyPort® Microphone and Controller

ReddyPort microphone breaks down communication barriers that can lead to anxiety while also protecting the patient's rights to participate in their care. NIV failure and the anxiety patients experience during NIV therapy can be tied to the frustration from communication impairment created by the mask. Moderate to severe patient anxiety during NIV treatment is associated with 4.9 times more NIV intolerance and 1.7 times more NIV failure.<sup>11</sup>

### ReddyPort Microphone and Controller Features

- Microphone with integrated speaker seals with ReddyPort elbow preventing a loss of therapeutic pressure
- System uses (DSP) digital signal processing to remove breathing and background noises and naturalize the patient's voice
- Controller adjusts the volume of the patient's voice and allows caregivers to turn the microphone on and off
- Allows patients to communicate with clinicians and family without mask removal
- Helps improve clinician and patient satisfaction



Patient using microphone to communicate



Microphone with integrated speaker and Controller

For more information call **801.899.3036**

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