

Clinical practice guideline on respiratory management of patients with neuromuscular weakness

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The American College of Chest Physicians (CHEST) recently released a new clinical guideline on respiratory management of patients with

neuromuscular weakness. Published in the journal *CHEST*, the guideline contains 15 evidence-based recommendations, a good practice statement and an ungraded consensus-based statement.

Endorsed by the American Association for Respiratory Care, the American Thoracic Society, the American Academy of Sleep Medicine and the Canadian Thoracic Society, the [guideline recommendations](#) include mouthpiece ventilation, transition to home [mechanical ventilation](#), salivary secretion management and airway clearance therapies.

"Respiratory muscle weakness is a serious concern in patients with neuromuscular diseases. It can lead to inadequate ventilation, nighttime hypoventilation and the inability to mobilize secretions, which is frequently the cause of death in this population," says Akram Khan, MD, FCCP, Associate Professor, Pulmonary, Allergy and Critical Care Medicine, Oregon Health & Science University, and the lead author on the guideline. "We anticipate this guideline will standardize and improve the care provided to patients with neuromuscular diseases and subsequent weakness."

The guideline includes the following highlighted recommendations:

- For patients with neuromuscular diseases (NMD) and chronic respiratory failure, we recommend using noninvasive ventilation (NIV) for treatment. (Strong recommendation)
- For patients with NMD requiring NIV, we suggest individualizing NIV treatment to achieve ventilation goals. (Conditional recommendation)
- For patients with NMD at risk for [respiratory failure](#), we suggest pulmonary function testing at a minimum of every 6 months as appropriate to the course of the specific NMD. (Conditional recommendation)

- For patients with NMD and sialorrhea, we suggest a therapeutic trial of an anticholinergic medication as firstline therapy with continued use only if there are perceived benefits compared with side effects. (Conditional recommendation)

Each recommendation is classified as strong, referred to as "recommended," or conditional, referred to as "suggested." The panel offers graded recommendations when there is sufficient evidence and ungraded consensus-based statements in areas that were thought to warrant guidance, despite an insufficient grade of evidence.

The entire list of recommendations and population, intervention, comparator and outcome questions included in the guideline can be accessed through the *CHEST* journal article.

More information: Akram Khan et al, Respiratory Management of Patients with Neuromuscular Weakness: An American College of Chest Physicians Clinical Practice Guideline and Expert Panel Report, *Chest* (2023). [DOI: 10.1016/j.chest.2023.03.011](https://doi.org/10.1016/j.chest.2023.03.011)

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