

An educational program for home mechanical ventilation in **Amyotrophic Lateral Sclerosis**



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AIM

To describe the educational program for managing home mechanical ventilation offered to people with Amyotrophic Lateral Sclerosis (ALS) and their caregivers by the ALS Center (CRESLA) of a Northern Italy university hospital. Respiratory failure is the leading cause of death in ALS. Non-invasive (NIV) and invasive mechanical ventilation (IMV) support respiratory function, but home management implies a high demand for informal caregivers and specific educational interventions lack.^{2,3}

METHODS

Clinical protocols of CRESLA and of the hospital Respiratory Rehabilitation Service regarding NIV and IMV were analyzed.

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RESULTS

NIV education is performed at the outpatient clinic whereas IMV education in the hospital. In both cases, education involves pneumologists, nurses, and respiratory therapists.

NIV

Pneumologists and nurses train about: ventilator functions and management, inhalation therapy, and detection of respiratory deterioration. Nurses help choosing the best-tolerated interface and provide insights for maintaining skin integrity and preventing respiratory infections. Respiratory therapists train about assisted cough devices.

IMV

Respiratory therapists and nurses train about: ventilator functions, tracheostomy cannula and inner cannula management, tracheal suction, inhalation therapy, and assisted cough devices. Nurses teach how to perform tracheal dressing. A certification of the skills acquired is released before discharge.

CONCLUSIONS

Multiprofessional

Education

The educational program proposed by CRESLA is a genuine example of how everyday home care could be supported for people with ALS undergoing mechanical ventilation.

References

- 1. Radunovic A, Annane D, Rafiq MK, Brassington R, Mustfa N. Mechanical ventilation for amyotrophic lateral sclerosis/motor neuron disease. Cochrane Database Syst Rev. 2017;10(10):CD00442
- 2. Barry C, Larner E, Copsey H, Smith M, Peryer G. Non-invasive ventilation support for people with amyotrophic lateral sclerosis: multidisciplinary team management. Curr Opin Support Palliat Care. 2021;15(4):214-218.
- 3. Gottberg K, Ytterberg C, Sandstedt P, Johansson S, Kierkegaard M. Experiences of next of kin to patients with amyotrophic lateral sclerosis using invasive ventilation via tracheostomy. Disabil Rehabil. 2021;43(17):2403-2410.

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