

PULMONARY REHABILITATION AS AN EFFECTIVE WEANING METHOD IN A PATIENT WITH SUCCESSFUL WEANING FROM MECHANICAL VENTILATION BY USING THE NIV -A NURSING EXPERIENCE

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INTRODUCTION

- ◆ This case study examines a 52-year-old male patient with no prior hospitalization history presenting with acute respiratory failure due to pneumonia.
- Despite initial an individualized care program.
- This program used a multi-discintubation and mechanical ventilation, the patient required a transition to Non-Invasive Ventilation (NIV) and was subsequently transferred to a dedicated respiratory care center (RCC).
- Challenges arose during weaning from the ventilator, leading to the development of iiplinary approach to improve the pulmonary rehabilitation exercise rate for ventilator-dependent patients.
- The implementation faced significant challenges, which are discussed in the report.

METHOD

- ◆ Data collected from 20 Oct to 02 Nov 2021 included observations, assessments, interviews, and medical records.
- ① Patient presented with ineffective breath pattern, caregiver strain, and anxiety.
- ② Objective was to increase NIV weaning rate and improve care quality.
- Used inter-professional collaboration, holistic assessment, and family-centered care.
- Developed a program with pulmonary rehab education, guided exercises, and videos.
- Provided positive support, facilitated emotional expression, and encouraged family participation for post-discharge care.



◆ We offer a spectrum of tailored rehabilitative exercises.

RESULTS

- ◆ After the implementation of the mentioned strategies, individualized nursing interventions in collaboration with interdisciplinary teams effectively increased the NIV weaning rate.
- ◆ Consequently, the patient successfully transitioned out of the intensive care unit after successful ventilator weaning.

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CONCLUSIONS

- ◆ Our findings suggest that the implementation of an inter-professional collaborative care model in pulmonary rehabilitation for ventilator-dependent patients effectively addresses their identified nursing needs.
- ◆ This approach aims to promote earlier weaning from the ventilator, improve the quality of care, and enhance the overall quality of life.

