

European Respiratory Society Annual Congress 2012

Abstract Number: 3899

Publication Number: P1714

Abstract Group: 2.2. Noninvasive Ventilatory Support

Keyword 1: Ventilation/NIV **Keyword 2:** Mechanical ventilation **Keyword 3:** Epidemiology

Title: The evolution of home mechanical ventilation in Poland between 2000 – 2010

Dr. Jacek 23012 Nasilowski jnasilowski@wum.edu.pl MD ¹, Mr. Mariusz 23022 Wachulski m.wachulski@domsueryder.org.pl MD ², Mr. Wojciech 23023 Trznadel ventamed@wp.pl MD ³, Mr. Witalij 23024 Andrzejewski witaland@wp.pl MD ⁴, Dr. Marek 23025 Migdal m.migdal@czd.pl MD ⁵, Mrs. Beata 23027 Drzazga katarzyna.tarnawska@betamed.pl ⁶, Mr. Andrzej 23029 Pytel andrzejpytel@help.poznan.pl MD ⁷, Mr. Robert 23030 Suchanke robertsuchanke@help.poznan.pl MD ⁷, Dr. Malgorzata 23031 Czajkowska-Malinowska m.cz.malinowska@interia.pl MD ⁸, Mr. Tomasz 23049 Majszyk tmajszyk@stvincentmedical.com.p MD ⁹ and Prof. Dr Ryszarda 23050 Chazan rchazan@wum.edu.pl MD ¹.

¹ Department of Internal Medicine, Pneumology and Allergology, Medical University of Warsaw, Poland, 02-957 ; ² Home Mechanical Ventilation Center, Pallmed, Bydgoszcz, Poland ; ³ Home Mechanical Ventilation Center, Ventamed, Zielona Gora, Poland ; ⁴ Home Mechanical Ventilation Center, Hospice for Children and Adults, Lodz, Poland ; ⁵ Home Mechanical Ventilation Center, The Children's Memorial Health Institute, Warsaw, Poland ; ⁶ Home Mechanical Ventilation Center, Beta-Med, Katowice, Poland ; ⁷ Home Mechanical Ventilation Center, HELP, Poznan, Poland ; ⁸ Home Mechanical Ventilation Center, Kujawsko-Pomorskie Pulmonology Centre, Bydgoszcz, Poland and ⁹ Home Mechanical Ventilation Center, St. Vincent Medical Center, Warsaw, Poland .

Body: In the last decades the methods and indications for home mechanical ventilation (HMV) have changed significantly mainly due to technological development and an increasing number of patients with chronic pulmonary disorders. Data about HMV comes from developed countries. The aim of the study was to verify whether the same trends in HMV practice are observed in under privileged European country. Questionnaire was sent to 10 centres providing more than 90% of HMV in Poland. Questions concerned number of patients, setting of initiation, indications for and the modes of ventilation during the last ten years. Data regarding 1032 patients was collected from 8 HMV centres. The number of treated patients increased from 8 in 2000 to 799 in 2010. Neuromuscular diseases still remain the main indication for HMV, however, their contribution gradually decreased from 88% to 51% of all patients treated in favor of pulmonary diseases (from 6 to 23%) and hypoventilation syndromes (from 3 to 12%). The number of patients treated via tracheostomy was higher than treated with NIV in the period 2000-2008 and then the proportions equalized. The percentage of children treated has decreased from 88% in 2000 to 21% in 2010. ICU is the principal location where HMV was initiated. However, its role diminished from 86% of all qualified patients in 2000, to 46% in 2010, while an increasing number of patients were required in respiratory departments: from 8% in 2001 to 35% in 2010. Indications for HMV in Poland moved from neuromuscular to respiratory diseases. However, the shift was not as marked as in more developed countries. Prevalence of invasive

mode of ventilation still remains very high in relation to general European practice.