DGI-044



"Inhaled colistin in treatment of chronic colonization Pseudomonas aeruginosa in patients with non-cystic fibrosis bronchiectasis or chronic obstructive pulmonary disease"

B.C. López Virtanen, S. Vázquez Troche, J.A. Valdueza Beneitez, B. De la Nogal Fernández, M. Noguerol Cal, M. Rodríguez María. (Hospital el Bierzo, Pharmacy Hospital, Ponferrada, Spain).

Background



 Chronic bronchial infection with Pseudomonas aeruginosa in patients with noncystic fibrosis (CF) bronchiectasis/chronic obstructive pulmonary disease (COPD) is related to worsening lung function and increased morbidity and mortality.
 Inhaled antibiotics represent an effective therapeutic approach for these diseases.

Purpose



To **evaluate the use** of inhaled colistin in treatment of chronic colonization with *Pseudomonas aeruginosa* in patients with non-CF bronchiectasis/COPD.

Materials and Methods



Retrospective study of patients with COPD/non-CF bronchiectasis colonized with Pseudomonas aeruginosa treated with inhaled colistin for at least three months from January 2008 to April 2012.

Data colected: sex, age, diagnosis, duration of the treatment, disease-related hospitalization pre and post-treatment, sputum cultures, clinical evolution.

Results

5 patients	6 treatment episodes
(3 non-CF bronchiectasis / 2 with COPD)	(1 patient received 2 treatment courses)
Treatment duration w	vas 27.6 months (range 4-48).
Average cost per patient	: 13.896 € (range 2.950-25.888€).
 In 5 episodes, treatment was initiated after a Pseudomonas resistant to tobramycin / cipro 	
 Sputum Pseudomonas eradication (3 con patients, continued treatment, which was an 	nsecutive negative sputum) was reported in 2 n unnecessary costs of 15.500 € (22% of total costs)
• The number of disease-related hospitaliz treatment (0.25 vs 0.26).	ation/month is similar in the pre and post-
 In 2 episodes (one with eradication) ocurred expectoration). 	clinical improvement (reduction in cough and
 The microbiological response (negative re (reducing cough and sputum purulence) is r 	
 In no case was developed resistance to co 	olistin.
• 3 patients died from their bronchial disease.	



In patients with Pseudomonas eradication, therapy was continued, therefore sputum

cultures should be monitored more frequently.

• > No effective treatment is observed.

