DOI: 10.5455/msm.2016.28.459-463

Received: 13 October 2016; Accepted: 02 December 2016

© 2016 Tarik Catic, Meliha Mehic, Zahida Binakaj, Bilsena Sahman, Vedina Cordalija, Amra Kerla, Igor Martinovic, Hajra Eskic

This is an Open Access article distributed under the terms of the Creative Commons Attribution Non-Commercial License (http://creativecommons.org/licenses/by-nc/4.0/) which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

ORIGINAL PAPER

Mater Sociomed. 2016 Dec; 28(6): 459-463

Efficacy and Safety of Oral Spray Containing Lysozyme and Cetylpyridinium: Subjective Determination of Patients with Tonsillopharyngitis

Tarik Catic¹, Meliha Mehic², Zahida Binakaj³, Bilsena Sahman⁴, Vedina Cordalija⁵, Amra Kerla⁶, Igor Martinovic², Hajra Eskic⁴

¹Pharmaceutical Society of Federation of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

²Bosnalijek JSC, Sarajevo, Sarajevo, Bosnia and Herzegovina

³Pharmaceutical Chamber of Federation of Bosnia and Herzegovina, Sarajevo, Bosnia and Herzegovina

⁴Public Institution "Sarajevo Pharmacies", Sarajevo, Bosnia and Herzegovina

⁵Psychiatric hospital of Canton Sarajevo - Clinical Pharmacy, Sarajevo, Bosnia and Herzegovina

⁶Private pharmacy chain "Al Hana" Sarajevo, Bosnia and Herzegovina

Corresponding author: Meliha Mehic. Address: Jukiceva 53, 71 000 Sarajevo Bosnia and Herzegovina. Tel.: +387 33 254 596, Fax.:+ 387 33 814 250. E-mail: meliha.mehic@bosnalijek.com.

ABSTRACT

Introduction: Tonsillopharyngitis (sore throat) is a common disease mainly related to the seasonal common cold. To relieve unpleasant symptoms and discomfort of acute tonsillopharyngitis associated with common cold, patients usually take some non-prescription drugs. The aim: The primary aim of this study was to assess subjective determinations of the efficacy and the safety/tolerability of an oral spray comprising a combination of lysozyme chloride and cetylpyridinium chloride in those patients. Material and methods: The study involved 1727 patients with tonsillopharyngitis associated with common cold and treated with the studied drug, in the period from December 2014 through March 2015. Results: In total, 95% of patients rated the studied drug to be well, very well and excellently effective. In 32% of patients, the symptoms were relieved 10 minutes after the application of the spray. Significant correlations were found between the two subjective assessments of the drug efficiency with the total of 74.11% (95% CI: 73.41, 77.47%) of patients who said that the feeling of pain in the throat completely disappeared after the drug administration, evaluated the impact/effect of the drug was very good or good (Pearson Chi Square=391.401, p<0.001). The effectiveness was significantly better in patients with up to two episodes of common cold a year (Pearson Chi Square=6.101; p=0.014). The studied drug was rated to be well, very well and excellently tolerated by 97% of patients. Conclusion: According to patients' subjective assessment, the combination of lysozyme chloride and cetylpyridinium chloride in a formulation of spray can quickly, efficiently and safely resolve the symptoms of acute tonsillopharyngitis associated with common cold. Keywords: tonsillopharyngitis, lysozyme, cetylpyridinium, oral spray, efficacy, safety/tolerability.

1. INTRODUCTION

Tonsillopharyngitis (a sore throat) is a common disease mainly related to the seasonal common cold. Although tonsillopharyngitis usually resolves on its own, without complications in adults, it is important to relieve symptoms which most commonly affect the quality of life and daily activities. Most often, cough can make breathing difficult, leading to difficulties during sleeping or performing physical exercises (1). Significant influence of common cold on lifestyle habits was reported in 52% of 2505 patients in the

USA as follows: their productivity was reduced by an average of 26.4%; 44.5% were absent from work or school for at least 1-2 days; 93% had difficulties in their sleep, and the majority of respondents complained of nasal congestion and cough (2). Another four-region online questionnaire survey, conducted in four European countries, showed the sore throat to be a major discomfort for the patients with common cold (3). To relieve unpleasant symptoms and discomfort of tonsillopharyngitis and to improve the quality of life, those patients usually take symptomatic treatment, most