Prevalence of residents with chronic obstructive pulmonary disease and risk factor analysis in Dongguan Shi long region in Guangdong Province.

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Abstract

Purpose: To investigate the prevalence of residents with Chronic Obstructive Pulmonary Disease (COPD) and related risk factors in the Dongguan Shi long region of Guangdong Province, China. Method: Random samples of patients more than 40 y of age with high-risk COPD from the region underwent pulmonary function testing and completed a questionnaire survey to determine the prevalence of COPD. Then, single and multiple factor logistic analysis partied out on the influencing factors.

Results: The overall COPD prevalence in this region was 9.05%; the prevalence for males was higher than females. With aging, the prevalence of COPD increased supercently (P<0.05). COPD was mainly grades I and II. The differences between COPD patients and non-CPD patients pertaining to gender, age, education level, Body Mass Index (BMI), a family history of respiratory disease, and Smoking Index (SI) were significant (P<0.05). Logistic multi-factor regression analysis showed that BMI, age, gender, and SI were risk factors for COPD prevalence (P<0.05 or $P\approx$).05).

Conclusion: The prevalence of COPD in this region was ingher, and BMI (higher), age (elder), gender (male), and SI (higher) were shown to be risk factors. Therefore, active intervention for these risk factors should be offered to reduce the COPD prevalence in this region.

Keywords: Single factor, Chronic obstructive oulmonary disease (COPD), Smoking index, Prevalence. Accepted on May 12, 2017

Introduction

The Global Burden of Disease Study projected that Chronic Obstructive Pulmonary Disease (CON) ranked sixth as a cause of death in 1990 [1]. Based on the relevant data, COPD diseases accounted for 22.4%, ranking first. Indeed, the approximately 1 million each year [5,6]. Although previous

Materials and Methods

Clinical materials

threatening disease were excluded from the analysis. A total of 2267 questionnaires were distributed, 2243 of which were