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

Lei $\mathbf{W u}{ }^{1}$, Meihua Chen ${ }^{1 *}$, Taorong $\mathbf{X u}^{\mathbf{2}}$, Yanling Cai ${ }^{1}$

${ }^{1}$ Department of Respiration Medicine, the Third People's Hospital of Dongguan, Dongguan, Guangdong, PR China
${ }^{2}$ Department of Nephrology and Gastroenterology, the Third People's Hospital of Dongguan, Dongguan, Guangdong, PR China

## Abstract

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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\textrm{y}\mathrm{ 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 wascarried out on the influencing
factors.
Results: The overalll COPD prevallence in this region was 9.05%, the prealence for malles was higher
than females. With aging, the prevalence of COPD increased surfcantly ( P <0.05). COPD was mainly
grades I and II. The differences between COPD patients and nonvCOND patients pertaining to gender,
age, education level, Body Mass Index (BMI), a family history { respiratory disease, and Smoking Index
(SI) were significant ( }P<0.05\mathrm{ ). Logistic multi-factor regression analysis showed that BMI, age, gender,
and SI were risk factors for COPD prevalence ( }\mathbb{P}<0.05\mathrm{ or }\mathbb{P}=0.05
Conclusion: The prevalence of COPD in this remon washogher, and BMI (higher), age (elder), gender
(male), and SI (higher) were shown to be risk fators. Therefore, active intervention for these risk
factors should be offered to reduce the CQPD prevalence in this region.
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## Introduction

characteristics and risk factors for COPD in an effort to
provide guidance for early screening and intervention in high-
risk groups to delay the progression of COPD is of primary
importance. This study focused on the morbidity of COPD in
the Dongguan Shi long region of Guangdong Province, China,
and investigated the distribution of high-risk groups and main
risk factors by collecting demographic characteristics and
using statistical methods. The COPD patients included in this
study were collected from December 2011 to December 2012
in this region.
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## Materials and Methods

## Clinical materials

Random samples of COPD high-risk patients $>40$ y of age from the residents in Dongguan Shi long region, Guangdong Province between December 2011 and December 2012 Patients who did not undergo pulmonary function testing, had a severe mental illness or cardiovascular disease, underwent major chest surgery history within 2 months, or had life threatening disease were excluded from the analysis. A total o
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[^0]:    Biomed Res- India 2017 Volume 28 Issue 13

