

25th World Congress on

NURSING CARE

July 24-26, 2017 Melbourne, Australia

Risk factors of chronic obstructive pulmonary disease in Chinese mainland: A systematic review and meta-analysis

Ying Yang, Jing Mao and Jie Li

Huazhong University of Science and Technology, China

Introduction & Aim: In recent years, some epidemiological surveys of risk factors for COPD have been done in China, but the relevance is shown different in these surveys. A systematic review and meta-analysis was undertaken to identify the main risk factors of COPD in Chinese mainland population.

Methods: All language, original, full-text research articles published between January 1, 1989 and September 31, 2016 were searched through electronic databases, including The Cochrane Library, PubMed, CNKI, CBM, WanFang Data and so on. Case-control studies on the incidence of COPD were systematically included and analyzed using Comprehensive Meta-Analysis V2 software.

Results: Twenty (20) studies involving 7372 cases and 8394 controls were included in this study. Ten factors were extracted as risk factors of COPD, including smoking (OR=2.29, 95% CI: 1.94 to 2.71), occupational exposure (OR=2.07, 95% CI: 1.30 to 3.27), family history of respiratory system disease (OR=1.96, 95% CI: 1.61 to 2.38), coal or biomass burning (OR=2.19, 95% CI: 1.56 to 3.08), low BMI (OR=3.28, 95% CI: 2.74 to 3.92), gender (male) (OR=1.42, 95% CI: 1.06 to 1.88), low education degree (OR=1.29, 95% CI: 1.03 to 1.61), passive smoking (OR=1.76, 95% CI: 1.23 to 2.53), allergy history (OR=2.19, 95% CI: 1.16 to 4.13) and chronic occupational exposure respiratory disease during childhood (OR=2.47, 95% CI: 1.43 to 4.27).

Conclusion: Smoking, occupational exposure, family history of respiratory system disease, coal or biomass burning, low BMI, gender (male), low education degree, passive smoking, allergy history and chronic respiratory disease during childhood are main risk factors of COPD among Chinese mainland population.

Biography

Ying Yang has received her Bachelor of Nursing and Master of Nursing degrees from School of Nursing, Tongji Medical College, Huazhong University of Science and Technology (HUST), China. She was named as Excellent Graduate of HUST and got the qualification of recommended exemption graduate. Her five papers have been accepted by Chinese core journals, of which two published and three under preparation for publication.

Yangying_hust@yahoo.com

Notes: