[813] Outcomes of Earlier Use of Inhaled Corticosteroids among Patients Diagnosed

with Moderate Chronic Obstructive Pulmonary Diseases

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Background: The inhaled corticosteroids (ICSs) were recommended to use for Chronic

Obstructive Pulmonary Diseases (COPD) patients with FEV1 less than predicted value of 50% (i.e.,

severe or Group C or D), following Global Initiative for Chronic Obstructive Lung Disease (GOLD)

quidelines. In the real practice, some physicians prescribed ICSs with long-acting bronchodilators

for moderate or Group A or B patients (i.e., FEV1 prediction: 50%-80%), in terms of earlier use of

ICSs.

Objectives: The main objective of this study was to assess the outcomes of earlier use ICSs for

moderate COPD patients.

Methods: A retrospective cohort study using the medication databases and electronic medical

records obtained from China Medical University Hospital were conducted. The moderate COPD

patients were identified upon their lung function following 2009 GOLD guideline. Those moderate

COPD patients were grouped into either single therapy group (i.e., used long-acting

bronchodilators [LAB] only) or combo therapy group (i.e., used LAB with ICS) based upon their

respiratory medication use patterns since the index date in 2009. Their use of rescue medications

and the number of patients occurred COPD exacerbation events (e.g., outpatient visits, ER visits,

hospitalizations) were evaluated afterward for up to one year and compared using descriptive and

inferential analysis approaches.

Results: Of 175 moderate COPD patients, 77 (44%) were in combo therapy group and their

demographic and disease status were not statistically significant different from that in single

therapy group. Those patients in the combo therapy group were prescribed with more rescue

medications, especially oral steroids, and encountered more events of COPD exacerbation,

especially ER visits and hospitalizations.

Conclusions: Those moderated COPD patients prescribed with combo therapy were prescribed

with more rescue medications and occurred more COPD exacerbations than those who received

recommended treatments. Further researches are needed to explore the contributing factors of

disease exacerbation and other outcomes among moderate COPD patients receiving earlier use of

ICSs

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