Microparticles and COPD Published by Dove Medical Press

Accumulating evidence suggests that cell injury in lung tissues is closely connected to disease progression in chronic obstructive pulmonary disease (COPD).

(PRWEB) April 25, 2014 -- International Journal of COPD has published the review “The role of microparticles in chronic obstructive pulmonary disease”.

As corresponding author Dr Kubo says “Endothelial damage is believed to affect the pathophysiology of COPD, however, the influence of COPD exacerbation on the endothelium is not clearly understood. In this manuscript, we evaluated the influence of exacerbation on the endothelium by measuring circulating endothelial microparticles (EMPs), which are shed membrane vesicles in circulating blood that originate from activated or injured endothelium.”

Dr Kubo continues “Several EMPs were significantly increased even at stable condition in COPD patients, but further increased during exacerbation. The increased EMPs were originated mainly from pulmonary capillary endothelial cells, suggesting pulmonary capillary is the main site suffered from exacerbation. Because circulating E-selectin EMPs increased in COPD patients who frequently underwent exacerbation, monitoring of EMP numbers is useful for evaluating endothelial damage in COPD patients and higher E-selectin EMP levels may predict the patients who are susceptible to exacerbation.”

As Dr Richard Russell, Editor-in-Chief, explains “This is one of the first papers published on this subject. It is good science which is clear and understandable. The potential of the micro-particles both in the aetiology and treatment (even prevention) of COPD is massive.”

International Journal of COPD is an international, peer-reviewed journal of therapeutics and pharmacology focusing on concise rapid reporting of clinical studies and reviews in COPD. Special focus will be given to the pathophysiological processes underlying the disease, intervention programs, patient focused education, and self-management protocols. This journal is directed at specialists and healthcare professionals.

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Contact Information

Angela Jones
Dove Medical Press
+649 443 3060 Ext: 207

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