



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2013_IJBcRR_7264
Title of the Manuscript:	Can Total Antioxidant Capacity Be A Surrogate Marker In Chronic Obstructive Pulmonary Disease ?
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (<i>if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i>)
<u>Compulsory</u> REVISION comments	Mechanism of the oxidative stress, as well as of the oxidants/antioxidants imbalance in the COPD pathogenesis should be shortly explained in the <i>Introduction</i> (see Rahman, 2005; Malhotra et al., 2008; etc). The first paragraph in the <i>Discussion</i> is a repetition of the same text in the <i>Introduction</i> and should be scratched out.	I fully agree with the reviewer. As suggested, mechanism has been incorporated in introduction along with relevant references. I fully agree with the reviewer The first paragraph in the <i>Discussion</i> has been deleted
<u>Minor</u> REVISION comments	Key words should be arranged according to the <i>Medical Subject Headings – MeSH</i> (total antioxidant capacity?). Tables and graphs in the main text should be accompanied by legends. The language should be polished up where necessary.	Key words have been arranged according to the <i>Medical Subject Headings – MeSH</i> <u>Referring to SDI Paper Template Version 1.6 Date 11.10.2012, there is no provision of legends</u> Tables should be explanatory enough to be understandable without any text reference. However same has been incorporated in the manuscript text clearly English wherever required has been corrected and polished as suggested



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<u>Optional/General</u> comments	Oxidative stress, i.e. the imbalance between pulmonary exposure to oxidants and/or reduced antioxidant capacity, is considered as an important mechanism in the COPD pathogenesis. Biomarkers of the oxidative stress (hydrogen peroxide, 8-isoprostane, etc.) are increased in the exhaled breath condensate, sputum, as well as in the systemic circulation of the COPD patients. In the COPD patients there also may be a reduction in the endogenous antioxidants as a result of reduction in a transcription factor Nrf2 that regulates several antioxidant genes. The endogenous antioxidants include enzymatic system (ceruloplasmin, superoxide dismutase, glutathione permutase, etc.), as well as non-enzymatic sustem (glutathione, ascorbate, tocopherol, urate, bilirubin, etc.). In the present study the authors aimed at assessment whether the measured total antioxidant capacity (TAC) can be a valid biomarker in the COPD diagnosis. Their conclusion is that the TAC is significantly decreased in the COPD patients and it can be a biomarker in the COPD diagnosis but the estimation should be done with extreme care. The study is designed and conducted well. The study goal is clear, the results are reliable based on gooc methodology, and the discussion is well-balanced. I recommend this paper to be published in the <i>International Journal of Biochemistry Research & Review</i> with minor revision.	I am extremely grateful to this reviewer who has understood the article, taken efforts to find and quote relevant references and suggested fruitful corrections. I am delighted and have incorporated the required changes in the manuscript in introduction. Thanks a million!
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