



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.

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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	The cohort of COPD patients is incompletely characterised. GOLD stage, stability, recent exacerbations, current medical therapy, current smoking status (objectified) does influence the outcomes. The lowered TAC values should be discussed into more detail. Is this consumption due to increased oxidative stress? Is the serum the right compartment to measure the balance between oxidative stress and antioxidant capacity?	I fully agree with the reviewer. Out of 86 COPD patients the gold stage I, II, III and IV are as 8, 29, 33 and 30% which further gets categorised into smokers and non-smokers. Clubbing the data without considering the smoking status leads to 37% mild COPD and 63% moderate/severe COPD. Data was tried statistically with respect to analytes but did not yield any appreciable result. The lower TAC values are now discussed in section result and discussion. The analytes which we have taken in this study namely albumin, bilirubin, urate, ceruloplasmin are best and only studied in serum. Therefore to study TAC and its correlation with the analytes, serum has been used. For glutathione, RBC has been considered, while for other biomarkers of the oxidative stress like hydrogen peroxide, 8-isoprostane, etc., exhaled breath condensate, sputum, blood has been used by various researchers.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	The English language can be improved.	English is comparatively polished now, wherever required. Finally, I sincerely thank the reviewer for meticulously going through the manuscript and giving extremely valuable suggestions