



**SDI Review Form 1.6**

Journal Name:	<a href="#">Advances in Research</a>
Manuscript Number:	2014_AIR_13219
Title of the Manuscript:	Investigation of Diagnostic Test Performance Using Receiver Operating Characteristic And Fundamental Concepts Of Information Theory
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>)



**SDI Review Form 1.6**

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b><u>Compulsory</u></b> REVISION comments	<p>Emphasize following:            "With regard to ASO values, it is concluded that I. Turbidimetric test is more likely to show the similarity to Nefelometric test in comparison with II. Turbidimetric test". How did you compare the test results?</p> <p>Line # 22, do not agree. ROC is still used widely for receivers/detectors performance measurement.</p> <p>Find the threshold value for mutual information by using information theory and compare it to your recommended value.</p> <p>Few statements are duplicated "exactly" from "Evaluation and Comparison of Diagnostic Test Performance Based on Information Theory" by Özlem Ege Oruç , Armağan Kanca. Published in International Journal of Statistics and Applications, 2011. Re-write this information in your own word. {for example see your line #90-93: "A fundamental concept of information theory, entropy and mutual information, is directly applicable to evaluation of diagnostic test performance".}</p>	



**SDI Review Form 1.6**

<b><u>Minor</u></b> REVISION comments	Clarify sentence ended in line # 185 and # 192. Grammatical format issue, see line 50, 60 {e.g.; you} Need reference for Table -1. Need reference for AUC description. Need reference for line# 91. Need reference for line # 158. Need reference for line # 223.	
<b><u>Optional/General</u></b> comments	AUC plot provides total insight when comparing multiple ROC curves. If possible show a plot of AUC curves with respect to threshold values.	

**Reviewer Details:**

Name:	<b>Anonymous</b>
Department, University & Country	<b>Prairie View A&amp;M University, USA</b>