



SDI Review Form 1.6

Journal Name:	<u>Journal of Advances in Medical and Pharmaceutical Sciences</u>
Manuscript Number:	Ms_JAMPS_29006
Title of the Manuscript:	In Vitro analysis of the interaction between ketorolac tromethamine and bovine serum albumin using fluorescence spectroscopy
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 (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)
Compulsory REVISION comments	Application of this work is not clear why interaction of ketorolac and BSA was studied for what purpose. If work is related to any drug formulation then, it is important to compare this kind of protein-drug binding or interaction with its negative and positive control for exploring its modified biochemical and biophysics parameters. *Hence, negative and positive controls of BSA, chosen drug and protein-drug complexes must be studied that are mandatory for this work. These important technical points are missing in this manuscript. It is clinical research orientated manuscript and these points must be defined and concluded in research manuscript.	Serum albumin being the major transporters binding protein for the drugs and other physiological substances, bovine serum albumin (BSA) is considered as a in vitro model for studying drug-protein interaction. From a biopharmaceutical point of view, one of the most important biological functions of albumins is their ability to carry drugs, endogenous and exogenous substances. Numerous experiments with the aim of characterizing the binding capacity and binding sites of drugs with albumins have been carried out. The spectral changes observed on the binding of drug with BSA fluorophores are important tools for the investigations of the binding sites, of the conformational changes and for the characterization of substrate to ligand binding. Whether or not Ketorolac interact with the plasma albumin, an <i>in vitro</i> fluorescence spectroscopic method was developed to analyze those binding parameters. This experimental work is not related to any drug formulation.
Minor REVISION comments		
Optional/General comments		