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Journal Name:	Journal of Advances in Medical and Pharmaceutical Sciences
Manuscript Number:	2014_JAMPS_15305
Title of the Manuscript:	Effect of Ethanolic Extract of Garcinia kola Seed on Some Haematological Parameters of Male Wistar Rats
Type of the Article	Original Research Article

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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 (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	2.2.1 Preparation of Ethanolic Extract of <i>Garcinia kola</i> Seed 89 reconstituted in distilled water to give the required doses (100 and 200 mg/kg body weight) used (indicate the volume of distilled water used in dissolving the extract) 2.2.4 Animal Grouping and Extract Administration 118 "thirty (30) male Wistar rats weighing 150.42 ± 3.98" should read "thirty (30) male Wistar rats weighing 150.42 ± 3.98g" Lines 121 -123 should be written as indicated below: 121 weight of the extract respectively once daily for 21 days using polystyrene. After 21 days of extract administration, 5 rats from 122 each group were sacrificed. Same number was sacrificed after 42 days. 123 This research was carried out in Physiology Department of References 499 13. Blaide VD. Effects of chronic ingestion of	The volume of distilled water used in dissolving the extract was 400 ml. This was administered to the 20 animals (except the distilled water treated control group) at 0.5 mls to each rat once per day for 42 days. It has been corrected as required. It has been re-written in the manuscript as indicated below. The correct spelling is Braide. We have checked for its correctness, and have effected



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	<i>Garcinia kola</i> seeds in the rats. <i>Phtother Res.</i> 500 1991;4:39-41. Line 499 Ref no 13 .The highlighted name, is it Blaide or Braide. Check and correct appropriately. Also effect the correction in the body of the work Line 481 Ref No 6. Iwu, MM. Antihepatotic constituents of <i>Garcinia kola</i> seeds. Exp., 1985;4:699 – 700. The coloured word is it a journal? Can you write it out in full	it in the manuscript. It is a journal. “Exp” represents “Experimentia”
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Minor REVISION comments	Abstract Line 8 and 9: "Thirty (30) male wistar rats weighing 150.42 ± 3.98" should read "Thirty (30) male wistar rats weighing 150.42 ± 3.98g" Line 11: "100 and 200 mg/kg body weight of the extract respectively once daily" should read "100 and 200 mg/kg body weight of the extract respectively once daily for 21 days". Line 12: administration, 5 rats from each group were sacrificed. Same was done after 42 days. Should read administration, 5 rats from each group were sacrificed using ether anaesthesia, blood was obtained from exposed jugular vein in the neck area of the animals for haematological analysis. Haematological parameters were analysed using Haematological Autoanalyzer. Same was done after 42 days. Authors name should not appear in the body of the work. The following changes should be made in the introduction: from lines 40 - 66 40 Previous studies by [7] reported the antioxidant and scavenging activities of 41 flavonoid extract (kolaviron) of <i>Garcinia kola</i> seeds <i>in vitro</i> while [8] examined the effect 42 of <i>Garcinia kola</i> seed alkaloid extracts on levels of gonadal hormone and pituitary 43 gonadotrophins in rat serum. The protective effects of	Correction on Lines 8,9, 11 and 12 have been done as requested. We prefer it remains this way. This is because the method/procedure for collecting blood to be used to assay for haematological parameters and the ether anaesthesia method used for sacrificing experimental animals have been outlined under research methodology (that is, in sections 2.2.5 and 2.2.6). Therefore, we crave your indulgence to let it remain as it is. Authors name in Lines 40-60 have been removed as requested. Lines 61-66 have also been corrected.
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	44 <i>Garcinia kola</i> seed against paracetamol-induced hepatotoxicity in rats has been reported by [9] while [10] 45 worked on the preparative isolation and identification of tyrosinase inhibitors from the seeds of 46 <i>Garcinia kola</i> by high-speed counter-current chromatography. The 47 bronchodilator effects of <i>Garcinia kola</i> has been reported by [11] while [12] demonstrated the antifungal 48 activity of <i>Garcinia kola</i> nut extract as an ocular bacterial isolates in Lagos. [13] worked 49 on the effects of chronic ingestion of <i>Garcinia kola</i> seeds in the rats, [14] investigated 50 the microstructural effects of aqueous extract of <i>Garcinia kola</i> on the hippocampus and 51 cerebellum of malnourished mice while [15] examined the effects of gavage 52 treatment with <i>Garcinia kola</i> seeds on biochemical markers of liver functionality in diabetic rats. 53 Antisickling activities of extracts of leaf, seed and seed pod of 54 <i>Garcinia kola</i> Heckel, antifungal activity of 55 <i>Garcinia kola</i> nut extract as an ocular bacterial isolates in Lagos, 56 hypoglycaemic and hypolipidaemic effects of fractions from kolaviron, a	
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	57 biflavonoid complex from <i>Garcinia kola</i> in streptozotocin induced diabetes mellitus rats has been investigated [16, 17, 18]. 58 On haematology, studies by [19] have reported the effect of ingestion of 59 <i>Garcinia kola</i> seed on erythrocytes in rabbits while [20] investigated the 60 hematological effect of chronic administration of ethanolic extract of <i>Garcinia conruana</i> seed on 61 rat, [21] evaluated the effects of ethanolic extracts of <i>Garcinia kola</i> 62 seeds on growth and haematology of catfish (<i>Clarias gariepinus</i>) broodstock. Although, there 63 have been several reports on the haematological activity of <i>Garcinia kola</i> seeds, there is still 64 paucity of information 65 on the effect of ethanolic extract of <i>Garcinia kola</i> seed on selected haematological 66 parameters using male wistar rats as model, thus the study. 2.2.2 Phytochemical Screening Under phytochemical screening lines 92-96 should read 92 Preliminary phytochemical screening to detect the presence of alkaloids, saponins, tannins, 93 flavonoids, steroids, anthraquinones, cardiac glycosides and carbohydrate were carried out by	It has been corrected as required.
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	94 adopting the procedures described by [22, 23,24, 25, 26,27,28,29], respectively. Discussion From line 350 to line 357, the colored sentences should be remove 349 From the result of this experiment, <i>Garcinia kola</i> caused a dose dependent increase in white 350 blood cell (WBC) count. Figure 1 showed an increase in control to group II to group III after 21 351 days and after 42 days. While the increase after 21 days is not statistically significant, the 352 increase after 42 days is statistically significant at $p < 0.05$. Also, from Figure 1, in low dose 353 groups (100 mg/kg body weight), there was an increase from 13.54 ± 1.46 to 13.72 ± 1.53 from 21 354 to 42 days, but in high dose groups (200 mg/kg body weight), there was a decrease from 355 16.02 ± 3.22 to 14.28 ± 1.64 from 21 to 42 days; however, both showed no statistical significance. 356 Thus the effect on white blood cell count is more pronounced after 21 days and reduced a little 357 after 42 days (comparing high dose groups of 21 and 42 days). The result is similar to the 358 findings of [36]; where an experiment was carried out on the effect of 359 chronic administration of ethanolic extract of <i>Garcinia conruana</i> seed on rats and the white	Lines 350 – 357 have been removed.
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	360 blood cell count did not show any significant enhancement in numbers. Remove from lines 361 – 395. The result is being repeated again in the conclusion Line 400 – 402 should be written as “ A similar findings where there was a steady increase in the red blood cell count, packed cell volume, hemoglobin concentration, mean cell hemoglobin concentration has been documented [36, 19] Authors should rewrite parts of lines 402 – 403 coloured yellow to indicate their source as it has nothing to do with lines 400 – part of line 402 402 volume, hemoglobin concentration and mean cell hemoglobin concentration. There was a 403 decrease in the values of mean cell volume and mean cell hemoglobin. Line 406 “activity of flavonoid (Wang <i>et al.</i>, 2000) which was present in the blood due to <i>Garcinia kola</i>” should read “activity of flavonoid which was present in the blood due to <i>Garcinia kola</i> [37] Lines 432 – 433 should read as indicated 432 facilitated by accelerated mobilization of iron stores without supplementation in the diet [43] 433 This supports the observed significant rise in	Lines 361- 395 have been removed. Lines 400- 402 have been re-written as required. Lines 402-403 has been re-written as requested. The increase and decrease observed in the present study are alterations and would affect the blood related functions of the extract. It has been corrected as required. It has been corrected as required.
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	MCHC at a dose of 100 mg/kg body Lines 445-446 should be corrected as indicated below 445 significantly from 21 to 42 days. This was contrary to the work of [20] and 446 [36], where there was no significant enhancement in platelet numbers due	It has been corrected as required.
<u>Optional/General</u> comments		