



SDI Review Form 1.6

Journal Name:	<u>British Journal of Medicine and Medical Research</u>
Manuscript Number:	Ms_BJMMR_28835
Title of the Manuscript:	Accuracy of Magnetic Resonance Imaging (MRI) in Detecting Breast Tumors
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:

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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	<p>Regarding "This study aimed to emphasize MRI protocols", not sure what the authors meant by "emphasize". Should it be "compare" or "evaluate" instead.</p> <p>"154 patients (60.6%) examined by routine MRI technique and 100 patients (39.4%) examined by DCE-MRI". However, what's included in the "routine MRI technique" and "DCE-MRI" is not clear.</p> <p>Regarding "T1 weighted fast spin echo sequence (TR=125ms, TE=5.3 ms)", it's unlikely for FSE sequence to have such short TR and TE. Is it a gradient echo sequence?</p> <p>How was the histology results obtained?</p>	<p>(1) The term emphasize was changed to evaluate, as presented in [Page 1- Abstract section], [Page 2- Line 44], and [Page 6- Line 165].</p> <p>(2) Instead of "154 patients (60.6%) examined by routine MRI technique and 100 patients (39.4%) examined by DCE-MRI". Author's corrected it to: "All patients were examined by DCE-MRI", as presented in [Page 2- Line 53].</p> <p>(3) Regarding the question " Is it a gradient echo signal?" Coronal T₁-weighted spin echo sequence was carried out for localization purpose and followed by plain sequences using T₁-weighted fast spin echo sequence (TR=125msec, TE=5.3msec), in addition to T₂-weighted fast spin echo sequence (TR=3740msec, TE=90msec) in axial orientation. [Page 3- Lines 86 to 89].</p> <p>(4) Details about histology results and how it was obtained for the participants, was added to the article in [Page 2- Lines 68 to 76] in the Material and</p>



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	<p>Table 2 lists The sensitivity, specificity and accuracy of MRI compared with other imaging modalities. If Ultrasound and Mammography are also part of the study, they should be described in detail in the methods section.</p> <p>Fig 3 reports STIR signal. Again, STIR is not described in method section.</p> <p>More rigorous statistical analysis is needed.</p>	<p>Methods Section.</p> <p>(5) Ultrasound and Mammography were described in detail in [Page 2- Lines 62 to 67] in the Material and Methods section of the article.</p> <p>(6) Details regarding “STIR Signal” was removed from the articles, because it showed no relation to the results outcome of the study.</p> <p>(7) Statistical analysis was revised in an accurate way, according to the following steps: a) Section of “Statistical Analysis” followed by the authors in the study, was added successfully to the Material and Methods section as presented in [Page 3- Lines 117 to 121], b) Number of females was changed to 240 (94.5%) and males to 14 (5.5%) as shown in [Page 3- Line 126, and [Page 4- Fig. 1], c) Some changes were added to the tables 1 and 2, d) Fig. 3 that related to STIR Signal was removed from the article, and e) additional changes were added to the results section as in [page 4- Lines 134 to 135], [Page 4- Lines 139 to 141], and [Page 5- Line 160].</p>
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<p><u>Minor</u> REVISION comments</p>	<p>For “In Sudan 14 breast cancer is about (29%-34.5%)”, please provide reference.</p> <p>Suggest changing “The success of DCE-MRI is dependent on its ability” to “The value of DCE-MRI is based on its ability”.</p> <p>The description of the MR scanner and breast coil is not adequate.</p>	<p>(8) A reference was added for “ In Sudan breast cancer is about (29%-34.5%), as shown in [Page 1- Lines 13 to 14].</p> <p>(9) The term “value” instead of success was added as presented in [Page 2- Line 40].</p> <p>(10)Details about MRI scanner and breast coil were added to the article in [Page 2- Lines 80 to 83].</p>
<p><u>Optional/General</u> comments</p>	<p>While the manuscript is readable, there are grammatical errors throughout the manuscript. A thorough review by someone with good English skill is recommended.</p> <p>For example, instead of “written informed consent was assigned.” Should it be “written informed consent was obtained.”</p>	<p>(11)Thorough review of grammar and language mistakes was done.</p> <p>(12)Instead of “informed consent was assigned.” it was changed to “informed consent was obtained” as shown in [Page 2- Line 54].</p>