Review report

BSMMUJ-17.2 – 72248

Accuracy of diffusion-weighted magnetic resonance imaging in diagnosing malignant musculoskeletal tumours Shirin M *et al.* (m.shirin1970@gmail.com)

REVIEW COMMENTS		AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
A. Technical review		
	ROU	ND 1
Reviewer's name: A		
ORCID: -		
Date assigned: 1-Apr-24		
Date submitted: 9-May-24		
Do you have any conflict of interest with the author/s?		
No		
Do you wish to be disclosed to the author?		
No		
How would you rate the originality and depth of the	7	-
manuscript?		
Is the manuscript written in a scholarly manner?	9	-
Does the manuscript have the potential to make a	8	-
valuable contribution to the world of knowledge?		
Does the manuscript meet ethical standards?	8	-
Reviewer's Recommendation:		
Accept Submission		
Reviewer's name: Abu Shahin		
ORCID: 0000-0001-6719-3896		
Date assigned: 8-May-24		
Date submitted: 16-May-24		
Do you have any conflict of interest with the author/s?		
No		
Do you wish to be disclosed to the author?		
Νο		
Comments sent to author		Date replied by author: 29-May-24
(Date: 22-May-24)	···	
How would you rate the originality and depth of the	8	-
manuscript?		
Is the manuscript written in a scholarly manner?	8	-
Does the manuscript have the potential to make a	8	-
valuable contribution to the world of knowledge?		
Does the manuscript meet ethical standards?	8	-
1. Background should be a bit elaborated inclu	iding	We agree with the reviewer that information regarding the
prevalence of musculoskeletal tumor sho	wing	prevalence of musculoskeletal tumours highlighting the
socioeconomically burden. Knowledge gap and	our	socioeconomic burden is important and should be included in
		the background section. So, we have revised the background
		section nom mes av to tov on page 2.

RI		AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per vour response.]
2.	Methods section should be more detail with flowchart.	We have added some more detail in the methods section from
		lines 166 to 175 on page 7.
Re	eviewer's Recommendation:	
Re	evisions required	
Fχ	ecutive editor's name: M Mostafa Zaman	
0	RCID: 0000-0002-1736-1342	
Do you have any conflict of interest with the author/s?		
No)	
Do	you wish to be disclosed to the author?	
Ye	IS	
Cc	omments sent to author	Date replied by author: 29-May-24
(D	ate: 22-May-24)	
1.	Background in abstract section needs to be more	We have revised the background in the abstract section to be
	precise/short.	more precise/short from lines 57 to 61 on page 3.
2.	Results of abstract section should include more important	We have added the important details such as the highest and
	details like:	lowest ADC value of the tumours, mean ADC value of MSK
	a) Highest and lowest ADC value of malignant and benign	tumour, PPV and NPV, and AUC cut-off value in the result
	tumour.	section from lines 73 to 79 on page 3
	b) Mean ADC value of MSK tumour.	
	c) PPV and NPV.	
	d) AUC cut off value.	
3.	Main conclusion should be more clear, precise and short.	We have revised the main conclusion more precisely from
	As This study revealed a good diagnostic accuracy of DW-	Ines 374 to 378 on page 13 as follows:
	MRI could complement standard MRI features in	differentiating musculoskeletal tumours enhancing the
	distinguishing various musculoskeletal tumour types	canabilities of conventional MRI However DWI and ADC
	However, DWI and ADC mapping alone might not help	mapping alone are insufficient for distinguishing between
	differentiate between various benign and malignant	benign and malignant musculoskeletal tumours due to
	musculoskeletal tumours because of overlapping ADC	overlapping ADC values."
	values." Please make these statements more clear and	
	precise.	
Ex	ecutive editor's decision:	
Re	vision required	
На	andling editor's name: Md. Nazmul Hasan	
01	RCID: 0000-0002-5737-5124	
Do	you have any conflict of interest with the author/s?	
No)	
Do you wish to be disclosed to the author?		
Yes		
Comments sent to author [Date replied by author: 29-May-24
(D	ate: 22-May-24)	
1.	We need to know how the sensitivity, specificity, etc.,	We would like to express our gratitude to the reviewer for
	given in Table 4 were calculated. Therefore, it should have	their comment. We acknowledge the reviewer's point that
	2x2 results. These are probably given in Table 5. If this is	we have calculated the sensitivity, specificity, etc., given in
	ulue, Tables 4 and 5 should be merged.	Table 4 from the ZXZ contingency table using SPSS software

REVIEW COMMENTS		AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
		(SPSS Inc. Version 23.0TM; IBM Corporation, Chicago, USA)
		which portrayed results in the table.
		In the table, the highlighted parts are the portraying the
		results. As this format is rather complex and may cause
		confusion, we have decided to present the results in two
		Additionally agency results (a.g. sut offusive AUG) in Table 4
		Additionally, some results (e.g., cut-off value, AOC) in Table 4
		merging Tables 4 and 5. However, we have revised the table
		chronology for better understanding, renaming the previous
		Table 4 as Table 5 and the previous Table 5 as Table 4, and
		revised the results section accordingly.
2. It is not clear how the area under the curve was		We had already presented the ROC curve as Figure 1, which
calculated. There is no ROC curve for which the area		now has become Figure 2 in the additional files
under the curve is calculated.		(Figures_of_the_study) attached along with the manuscript.
Handling editor's recommendation:		
Revision required		
	ROU	ND 2
Reviewer's name: Abu Shahin		
ORCID: 0000-0001-6719-3896		
Date assigned: 3-Jun-24		
Date submitted: 6-Jun-24		
Do you have any conflict of interest with the author/s?		
No		
Do you wish to be disclosed to the author?		
Yes		Data walka ha anthaw AP has 24
Comments sent to author		Date replied by author: 15-Jun-24
(Date: 7-Juii-24) How would you rate the originality and denth of the	Q	
manuscrint?	0	
Is the manuscript written in a scholarly manner?	8	_
Does the manuscript have the potential to make a	8	-
valuable contribution to the world of knowledge?	Ū	
Does the manuscript meet ethical standards?	8	-
1. Line no 68- Spell out ADC		We have spelt out ADC in line 68 on page 3 "apparent
		diffusion coefficient (ADC)".
Reviewer's Recommendation:		
Accept Submission		
Reviewer's name: M Mostafa Zaman		
ORCID: 000-0002-1736-1342		
Date assigned: 3-Jun-24		
Date submitted: 4-Jun-24		
Do you have any conflict of interest with the author/s?		
No		
Do you wish to be disclosed to the author?		

REVIEW COMMENTS		AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
Yes		8
Comments sent to author		Date replied by author: 15-Jun-24
(Date: 7-Jun-24)		
How would you rate the originality and depth of the	6	-
manuscript?		
Is the manuscript written in a scholarly manner?	5	We revised the manuscript in a scholarly manner.
Does the manuscript have the potential to make a	7	-
valuable contribution to the world of knowledge?		
Does the manuscript meet ethical standards?	8	-
This study determined the accuracy of the DW-MRI and A	DC	-
compared to a standard of histopathologically confirmed		
malignant MSK tumours in a pool of 35 patients with MSk		
tumours. However, this has not been stated clearly anyw	nere	
In the manuscript. The accuracy was measured using the		
While the study can contribute to the clinical practice, the	`	
storytelling could be better, and the statistical analysis co	uld	
be streamlined. Specific points are:	uiu	
1. The analysis should be guided by the objective of the		We agree that the analysis should indeed be guided by the
study. The objective is "to review and ascertain the		study's objectives. We also affirm that the objective of this
diagnostic accuracy of quantitative DW-MRI with AD	2	study is to determined the diagnostic accuracy of DW-MRI
mapping in the characterisation of MSK tumours." W	hat	and ADC compared to histopathologically confirmed
does it mean? Do the authors determine the accurac	y of	diagnosis. We recognize that using the term "quantitative"
DW-MRI and ADC compared to histopathologically		alongside "DW-MRI" may have caused some confusion, as
confirmed diagnosis? If so, what does the quantitative		our final results were presented in terms of sensitivity and
mean? The authors have presented the DW_MRI		specificity, which are categorical data.
accuracy data for sensitivity and specificity as catego	rical	To clarify, the term "quantitative" was intended to describe
data (Tables 4 and 5).		the type of MRI test employed. Unlike conventional MRI,
		where reports are derived qualitatively based on the
		radiologist's observations of lesion characteristics in the MRI
		(ADC) values which are quantitative. From these ADC values
		radiologists can determine whether a lesion is benign or
		malignant based on a specified cut-off point.
		Thus, the term "quantitative" was used to emphasize the
		nature of the DW-MRI testing process. However, we
		understand that this term might have been misleading and
		interpreted as relating to the nature of the results. Therefore,
		we have decided to remove the term "quantitative" from this
		section to prevent any further confusion and re-write it as
		follows: "review and ascertain the diagnostic accuracy of DW-
		MRI with ADC mapping in the characterisation of
		musculoskeletal tumours in this context" in line no. 150 in
		the Background section.
2. However, the ADC results are presented as quantitat	ve	We understand the reviewer's confusion about presenting
aata, the KUC curve. However, it is presented		ADC results (ADC and cut-off ADC value) derived from the
could be presented with the RCO curve (figure 2). The	5 DC	have included the AUC and cut-off ADC value in Table 5

REVIEW COMMENTS

AUTHOR RESPONSE

open question here is on the cut-off points used fro drawing the ROC curve. The ROC curve touches the baseline (AUC 0.5) up to ADC cut-off points 0.3 for 1specificity. This has happened because of the small sample size, 35 here. Kindly note that the authors have considered any cut-off value of ADC for clinical practice. What will be the sensitivity and specificity for that cutoff point? Table 5 could be expanded for ADC as categorical data.

Are the authors recommending using DW-MRI and ADC

categories as serial tests, or any of them, or both to be

used simultaneously? These three will require a different

analysis. Therefore, the authors need to mention this in

3.

[Note: Please write the responses to each point here mentioning line number(s). You must change the manuscript as per your response.]

because these metrics are generated from the ROC curve of ADC values, which are the imaging findings from the DW-MRI scan. The sensitivity, specificity, PPV, and NPV presented in Table 5 are based on the cut-off ADC value from the ROC curve, which helps categorise lesions as either positive or negative for malignant MSK tumours. Therefore, we believe it is appropriate to present the ADC results (AUC and cut-off ADC value) in the same table as the DW-MRI results, as they are inherently linked through the ROC analysis. To clarify this point, we have revised the previous term "cut-off value" to "cut-off ADC value and also made necessary revisions in the Result section from line no. 289 to 292 as follows: "Receiver operating characteristic (ROC) curve analysis (Figure 2) indicated that with a cut-off ADC value of $\leq 1.1 \times 10-3$ mm2/s, DW MRI has a sensitivity of 96.4%, specificity of 71.4%, 93.1% PPV, and 83.3% NPV and overall accuracy of 91.43% (Table 5) for diagnosing malignant musculoskeletal tumours". We understand that due to the nature of the cut-off points used to plot the ROC curve, it touches the baseline (AUC 0.5) up to ADC cut-off points of 0.3 for 1-specificity, likely because of the small sample size. So, deriving an optimal cut-off point for clinical practice might be challenging. However, after reviewing multiple studies on ADC cut-off points for differentiating malignant musculoskeletal (MSK) tumours, we found that many studies reported a cut-off point of 1.1×10-3 mm²/s for characterising MSK tumours. We have also adopted this cut-off point based on our ROC curve analysis, as it provided the optimal sensitivity and specificity. We have referenced these studies that support the same cutoff point in the Discussion section, such as in lines 350 to 352 as follows: "Similar findings were observed by Romeih et al., who found a sensitivity of 83.3% and specificity of 72.7% of DW-MRI in characterising musculoskeletal soft tissue tumours", from line no. 352 to 355: "With a cut-off mean ADC value of 1.058 x 10-3mm2/s, Boruah et al. observed that DW-MRI demonstrated a sensitivity of 83.3%, specificity of 66.7%, and accuracy of 78.7% in distinguishing benign from malignant bone tumours" and from line no 357 to 359 as follows: "Neubauer et al., employing a similar cut-off point, reported a sensitivity of 90% and specificity of 91% for characterising musculoskeletal tumours". Additionally, we reviewed the ADC cut-off points commonly used clinically and found that a similar cut-off point is being employed in clinical practice. Therefore, we did not consider any other ADC cut-off values for clinical practice. We would like to thank the reviewer for the comment.

Diffusion-weighted MRI (DW-MRI) and ADC mapping is a single imaging technique where the ADC value is the result of a DW-MRI scan. The radiologist interprets the type of lesion

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detail in the Methods and Results section and Discuss it	based on the ADC values in the DW-MRI scan. Therefore, it is
accordingly.	essential to consider it as a single test. However, we
	recommend using DW-MRI in conjunction with conventional
	MRI for a more effective characterization of musculoskeletal
	(MSK) tumours. This is because DW-MRI alone may be
	insufficient for accurately distinguishing between benign and
	malignant MSK tumours due to some overlapping ADC
	values. We have mentioned this recommendation in the
	conclusion section from line no. 373 to 374: "In summary,
	when combined with conventional MRI sequences, DWI and
	ADC mapping plays a valuable role in assessing
	musculoskeletal tumours" and line no. 378 to 380: "However,
	distinguishing between benign and malignant
	musculoskeletel tumours due to overlapping ADC values"
	We have described the detailed process of DW-MRI with ADC
	mapping imaging protocol in the Methods section from line
	no. 193 to 202 as follows:
	"C. Diffusion-weighted MR images
	Diffusion-weighted MR images were obtained in the axial
	plane with TR 4400 ms, TE 72 ms, slice thickness 3.5 mm, FOV
	150 mm and matrix 140×140. The strength of MPG is usually
	defined by the gradient factor b. The b-values used in this
	study were 0 and 800s/mm2. By manually placing a region of
	interest (ROI) over the solid part of the tumour, the ADC is
	determined as a numerical number. The workstation
	generated ADC maps automatically based on the three b
	values using the formula ADC=ln(S0/S1)/(b1-b0), where S0
	and S1 represent the signal intensity before and following the
	application of diffusion gradients, respectively, and b1 and b0
	The image analysis process with the calculation of ADC value
	for this test is described in detail in the Methods section from
	line no. 227 to 237 as follows:
	"For ADC calculation analysis. ADC values were generated
	pixel by pixel. Minimum, maximum, and mean ADC values
	were calculated using round or elliptical regions of ROIs, with
	mean ADC values chosen for statistical analysis. ADC values
	were expressed in 10-3 x mm2/second. Multiple uniform-
	sized ROIs (area, minimum 10 mm2, maximum 50 mm2) were
	placed, with three ROIs in the central non-necrotic portion
	and three in the peripheral portion of the tumour. ROIs were
	selectively placed in solid, enhancing, non-necrotic, and/or
	DWI-restricted regions, avoiding contamination from
	adjacent normal-appearing bone or soft tissue. ROI position
	was verified with reference to conventional MRI images to
	avoid artefacts, distortions, partial volume effects, and the
	most peripheral margin of the tumour. In the case of multiple

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		lesions, the largest lesion was selected for calculating the
		mean ADC value."
		We have discussed about DW-MRI technique in the
		Discussion section from line no. 300 to 304 "With minimal
		extra scanning time, DWI, a functional MRI technique, can be
		added to the standard MRI protocols to provide a way to
		assess musculoskeletal tumours according to their
		histological composition. DWI and ADC mapping quickly
		generate quantitative data regarding the tumour cellularity."
4.	Finally, the Methods should clearly state the standard	We have clarified that the histopathology findings were the
	against which the comparisons are made. This has	standard against which the comparisons were made, and
	implications for reporting results and making conclusions	have included this information from line no. 176 to 178 as
	and recommendations.	follows: "Subsequently, the findings from DW-MRI were
		assessed and compared with histopathology (FNAC/biopsy)
	-	results, which were considered as the gold standard."
Rev	viewer's Recommendation:	
Ke	visions required	
Ha	ndling editor's name: Md. Nazmul Hasan	
OR	CID: 0000-0002-5737-5124	
Do	you have any conflict of interest with the author/s?	
	you wish to be disclosed to the author?	
Veg		
Col	mments sent to author	Date replied by author: 15-Jun-24
(Da	ite: 7-Jun-24)	
1.	Flow chart that is given in the revised version-2 should	We have revised the flowchart and decided to drop the
	contain specific subject number in each stage to improve	subject number.
	the quality or you can drop it.	
2.	In the methodology section, no where it is mention	We have added the details of the biopsy procedure from line
	about the biopsy procedure. If the biopsy was an surgical	no. 240 to 246 as "USG-guided FNAC and guided core biopsy
	open biopsy procedure then which department was	procedures were conducted in the Department of Radiology
	involved needs to be mentioned or if it was guided core	and Imaging, while the surgical open biopsy procedure was
	biopsy that should also be mentioned. The center where	conducted in the Department of Orthopedic Surgery,
	the histopathology was done isn't mentioned.	BSMMU; Department of Surgical Oncology, BSMMU; and
		National Institute of Cancer Research & Hospital (NICRH).
		Two experienced pathologists examined all specimens in the
		Department of Pathology, BSMMU, and the final results were
		determined by consensus."
3.	Was the FNAC a guided procedure or blind one?	We confirm that the FNAC procedure was guided by
		ultrasound (USG-guided FNAC) and was conducted in the
		Department of Radiology and Imaging. We have incorporated
		this clarification into the Methods section, specifically on line
		240.
4.	As you are considering the histopathology as gold	We agree that FNAC and biopsy may not have the same
	standard for diagnosis of malignant MSK tumour against	accuracy in diagnosing musculoskeletal (MSK) tumours.
	which yoy will compare DW MRI & ADC value , FNAC vs	Therefore, we have included the number of patients
	biopsy would not carry the same accuracy to diagnose	

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	the MSK tumour. So, number of patient that was	diagnosed either by FNAC or by biopsy in the methodology
	diagnosed by FNAC should be mentioned in the	section from lines 239 to 240 as follows:
	methodology section.	"The definitive diagnosis was established through
		histopathologic findings after either performing FNAC (n=8)
		or biopsy (n=27)."
Ha Re	ndling editor's recommendation: vision required	
	BOIL	IND 3
Ha	ndling editor's name: Md. Nazmul Hasan	
	you have any conflict of interest with the author/s?	
No	you have any connector interest with the dutions:	
	you wish to be disclosed to the author?	
Ye		
Co	mments sent to author	Date replied by author: 23-Jun-24
(Da	ate: 20-Jun-24)	·····
1.	The identity of the 3 radiologists and two pathologists	We have included the initials of the three radiologists in the
	could be included in the methodology section as a	methods section from line no. 205 to 206 as: "Three
	recognition of their work.	radiologists (MS, MSS and SAA) with respective experience of
		above 10 years reviewed the MRI images." and their full
		names are included in the authors list.
		We have also included the initials of the two pathologists in
		the methods section from line no. 245 to 247 as: "Two
		experienced pathologists (NK and BPD) examined all
		specimens in the Department of Pathology, BSMMU" and
		their full names are included in the acknowledgement
า	As you have evalated and we understood that ADC	Section.
Ζ.	As you have explained and we understood that ADC	were calculated from DW/ MP imaging by including the
	tumour. But nowhere in the methodology it is clearly	following: "DW-MRI was performed following standard
	mentioned. More over title of the study does not reflect	procedural protocol and images were analysed and ADC
	anything containing such information. General reader	value was calculated from the DW-MR image sequences by
	might be confused and might think that DW-MRI and	experienced radiologists." from line no. 171 to 174.
	ADC value are two different entity. So, please make it	In addition, in the MRI protocol part of the Methods section,
	clear in the methodology section for better clarification.	we have detailed the process of ADC value calculation while
		explaining the imaging protocol for DW-MRI as follows:
		"C. Diffusion-weighted MR images
		Diffusion-weighted MR images were obtained in the axial
		plane with TR 4400 ms, TE 72 ms, slice thickness 3.5 mm, FOV
		150 mm and matrix 140×140. The strength of MPG is usually
		defined by the gradient factor b. The b-values used in this
		study were 0 and 800s/mm2. By manually placing a region of
		interest (ROI) over the solid part of the tumour, the ADC is
		determined as a numerical number. The workstation
		generated ADC maps automatically based on the three b
		values using the formula ADC=ln(S0/S1)/(b1-b0), where S0
		and SI represent the signal intensity before and following the

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		as per your response.]
		application of diffusion gradients, respectively, and b1 and b0
		represent the various b-values applied." from line no. 194 to
		203.
3.	In table-1: some values containing same frequency and	We have now revised the Table 1 and Table 2 and have
	percentage (1;2.9%) could be merged together to make	merged the values containing the same frequency and
	the table more compact (neck, elbow, forearm, back,	percentage together and have added a footnote denoting
	1,2.9%, foot note should include values are for each	that these values are for each entity.
	entity). Same would be applicable for the table-2. Title of	As per the reviewer's suggestion, we have revised the title of
	the table-2 would be "histopathological findings of the	Table 2 to "Histopathological findings of the musculoskeletal
	Musculoskeletal tumours".	tumours"
4.	Table-3: Title should be changed to "ADC value	We have revised the title of Table 3 as "Table 3: ADC value of
	calculated from DW-MRI of the Musculoskeletal	the musculoskeletal tumours derived from DW-MRI"
	tumours". inside the table, Mean ADC value of the total	We have added the mean ADC value of the total (35) study
	(35) study subjects should be included above the	subjects in the Table 3 above the heading of the "nature of
	heading of the "nature of tumour" and included in the	tumour" and also included it in the result section in line no.
	text.	281 as: "The mean ADC value of the total 35 study subjects
		was 0.86 ± 0.30×10-3 mm2/s."
5.	In table-4, cross tabulation has shown that MRI diagnosis	The cross-tabulation in Table 4 indeed represents DW-MRI
	in one side, is it DW-MRI or conventional MRI? should be	diagnoses. We have now clarified this in the table and re-
	mentioned.	write it as "DW-MRI" in the table title and header.
6.	Table-5: Title could be changed to "Diagnostic accuracy	We have now revised the title of Table 5 as "Table 5:
	of ADC value calculated from DW-MRI in diagnosis of	Diagnostic accuracy of ADC value derived from DW-MRI in
	malignant musculoskeletal tumours" as the table contain	diagnosis of malignant musculoskeletal tumours"
	single cut off value for ADC.	
7.	The value of getting low ADC (<0.3) should be discussed.	We have discussed the importance of low ADC value in the
	Considering the small sample size and unstable curve,	Discussion section from line no. 338 to 342 as follows:
	figure containing ROC curve should be omitted and small	"Typically, malignant tumours exhibit low ADC values, while
	description of ROC already been added inside the text of	benign tumours demonstrate high ADC values, except for
	the corrected version that is sufficient.	certain cases such as giant cell tumours (GCT) and
		osteoblastoma, which manifest lower ADC values. Thus, ADC
		value can play a vital role in the differentiation between
		benign and malignant musculoskeletal tumours."
		We concur with the reviewer's comment regarding the figure
		containing ROC curve and have now removed "Figure 2:
		Receiver operating characteristic (ROC) curve for predicting
		the malignant tumours of the musculoskeletal system in the
		studied patients (area under the curve: 0.758)." We have
		retained the prier description of the KOC curve within the
0	As not your menones 20 study subjects and survey	lexi. We have presented a new table (Table 5) above the second
δ.	As per your response, 28 study subjects underwent	we have presented a new table (Table 5) showing the cross-
	prophyses so, courd you prease snow analysis of these sample and show how it is comparable with total of 25	recodure and DW MPI's diagnosis. Additionally, we have
	sample and show now it is comparable with total of 35	added a column in Table 6 (proviously Table 5) to conservative
	subjects which includes FNAC also. Moreover, in your	auteu a column in rable o (previously rable 5) to separately
	underwort bionsy	malignant musculoskolatal tumours among the study
	under went biopsy.	subjects who only underwort bionsy along the study
		diagnostic accuracy. We have revised the corresponding
		ulagnostic accuracy, we have revised the corresponding
L		

RE	/IEW COMMENTS	AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
		We have included in the limitation that all subjects did not
		underwent biopsy as follows: "Another limitation of the study
		is that not all study subjects underwent open biopsy. For
		some patients, histopathological analysis was performed
		using FNAC. This variation in diagnostic procedures could
		introduce inconsistencies in the histopathological
		confirmation of the tumour types and may impact the overall
		accuracy and comparability of the diagnostic results" from
		line no. 377 to 381.
9.	Please omit the total flowchart of the study.	We have now omitted the total flowchart of the study.
10.	Rearrange the figure and the table if necessary.	We have rearranged the figures and tables accordingly like
		renaming Figure 3 as Figure 1, adding a new table (now Table
		5) and renaming previous Table 5 as Table 6.
Har	idling editor's recommendation:	
ĸev	ision requirea	
	ROU	ND 4
Har	Idling editor's name: Md. Nazmul Hasan	
OR	LD: 0000-0002-5737-5124	
Do	you have any conflict of interest with the author/s?	
NO		
D0 Voc	you wish to be disclosed to the author?	
Cor	amonts sont to author	Date replied by author: 27-Jun-24
Cor	nments sent to author	Date replied by author: 27-Jun-24
Cor (Da	nments sent to author te: 26-Jun-24) Regarding validity calculations:	Date replied by author: 27-Jun-24 We understand that some confusion has arisen regarding the
Cor (Da 1.	nments sent to author te: 26-Jun-24) Regarding validity calculations: PPV=a/(a+b) = 5/6=83.33%	Date replied by author: 27-Jun-24 We understand that some confusion has arisen regarding the validity calculation based on the table-4 which showed the
Cor (Da 1.	nments sent to author te: 26-Jun-24) Regarding validity calculations: PPV=a/(a+b) = 5/6=83.33% NPP=d/(c+d) = 27/29=93.10%	Date replied by author: 27-Jun-24 We understand that some confusion has arisen regarding the validity calculation based on the table-4 which showed the cross tabulation of benign and malignant cases based on
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RE	VIEW COMMENTS	AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
	analysis on the basis of these two inside the text of result	line no. 297 to 3298 as follows: "Overall, DW-MRI was
	section only and that should be very brief.	successful in diagnosing twenty-seven out of twenty-eight
		cases of malignant musculoskeletal tumours."
		We have also renamed the previous Table 5 as "Table 4:
		Cross-tabulation between final diagnosis by biopsy procedure
		and DW-MRI's diagnosis" and have revised the content inside
		the table to ensure that it is in accordance with the validity
		study. We have also renamed previous Table 6 now as "Table
		5: Diagnostic accuracy of ADC value derived from DW-MRI in
		diagnosis of malignant musculoskeletal tumours".
		We have omitted the column containing 'biopsy (28)' in Table
		6 (Now Table 5) and retained the results of analysis of this
		column in the result section briefly from line no. 301 to 304
		as: "With a same cut-off point, among the study subject who
		underwent biopsy, DW-MRI demonstrated a sensitivity of
		95.8%, specificity of 75%, PPV of 95.8%, NPV of 75% and
		accuracy of 92.86% for diagnosis of malignant
		musculoskeletal tumours".
4.	Please omit the row containing "cut off ADC value" and	We have omitted the row containing "cut off ADC value" and
	"area under the curve" in table-6 which is not required.	"area under the curve" in Table 5 (previous Table 6). We have
	Insert the cut off ADC value in statistical analysis section	inserted the cut off ADC value in statistical analysis section in
	which has been used here in line no-257.	line no. 256 (previous 257).
	ROU	ND 5
На	ndling editor's name: Md. Nazmul Hasan	
OR	CID: 0000-0002-5737-5124	
Do	you have any conflict of interest with the author/s?	
NO		
DO	you wish to be disclosed to the author?	
res	>	Data raplied by author: 29 Jun 24
		Date replied by aution. 28-Juli-24
1	ate: 77-lun-74)	
±.	te: 27-Jun-24) We found in response to comment no-1, you have	We have now revised the table Δ as "Table Δ . Cross-
	te: 27-Jun-24) We found in response to comment no-1, you have included table-4 and gave your calculation of validity	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC
1	We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous
	tte: 27-Jun-24) We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and b+d=7 inside the table which is not correct. Please omit	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by bionsy
	te: 27-Jun-24) We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and b+d=7 inside the table which is not correct. Please omit this table - Table 4. Cross-tabulation between final	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected
	We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and b+d=7 inside the table which is not correct. Please omit this table - Table 4. Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected the summation value of a+c=28 and b+d=7 inside the table
	The second secon	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected the summation value of a+c=28 and b+d=7 inside the table and added a footnote as follows: * for ADC cut-off value of ≤
	The system is a set of the system in the system is the system is a system in the system is a system is	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected the summation value of a+c=28 and b+d=7 inside the table and added a footnote as follows: * for ADC cut-off value of \leq 1.1×10–3 mm2/s
	We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and b+d=7 inside the table which is not correct. Please omit this table - Table 4. Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis in corrected version-4). The following table below should be your table -4 and keep the table-5 as it is now in corrected version-4:	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected the summation value of a+c=28 and b+d=7 inside the table and added a footnote as follows: * for ADC cut-off value of ≤ 1.1×10−3 mm2/s ** confirmed by histopathology and FNAC as appropriate.
	 ate: 27-Jun-24) We found in response to comment no-1, you have included table-4 and gave your calculation of validity. Please correct the summation value of a+c=28 and b+d=7 inside the table which is not correct. Please omit this table - Table 4. Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis in corrected version-4). The following table below should be your table -4 and keep the table-5 as it is now in corrected version-4: Table 4. Cross-tabulation between final diagnosis by 	We have now revised the table 4 as "Table 4: Cross- tabulation between final diagnosis by histopathology/FNAC and DW-MRI's diagnosis" and have omitted the previous Table 4: Cross-tabulation between final diagnosis by biopsy procedure and DW-MRI's diagnosis. We have also corrected the summation value of a+c=28 and b+d=7 inside the table and added a footnote as follows: * for ADC cut-off value of ≤ 1.1×10-3 mm2/s ** confirmed by histopathology and FNAC as appropriate.
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RE	VIEW COMMENTS	AUTHOR RESPONSE
		[Note: Please write the responses to each point here
		mentioning line number(s). You must change the manuscript
		as per your response.]
	b+d=7 inside the table which is not correct. Please omit	diagnostic modality. To clarify, in table 4, we presented the
	this table - Table 4. Cross-tabulation between final	cross tabulation of distribution of benign and malignant MSK
	diagnosis by biopsy procedure and DW-MRI's diagnosis	tumours based on diagnostic modality. However, for
	in corrected version-4). The given table should be your	calculating diagnostic accuracy, we have considered the
	table -4 and keep the table-5 as it is now in corrected	malignant status as being positive since our aim was to
	version-4	evaluate the efficacy of DW-MRI in detecting malignant MSK
		tumour. As such, while calculating validity, we assigned the
	Table 4. Cross-tabulation between final diagnosis by	cases in reverse manner from table 4.
	histopathology/FNAC and DW-MRI's diagnosis	Calculating validity yielded a Sensitivity of 96.4%, Specificity
		of 71.4%, PPV of 93.1% and NPP of 83.3%, which we had
	[format suggested]	presented in the manuscript.
На	ndling editor's recommendation:	
Re	vision required	

C. Editorial decision

Final editorial decision: Accepted on 28-Jun-24