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Name of Journal: *World Journal of Radiology*

ESPS Manuscript NO: 25210

Manuscript Type: Minireviews

To,

The Editor

WJR

Sub: Re-submission of Manuscript for publication

Dear Sir,

We are resubmitting the manuscript "Diffusion weighted Imaging: Technique and Applications" as per instruction.

Our response to reviewer's queries are as follows...

Reviewer 1:

This a comprehensive review of role of DWI. But the authors fail to present the review scientifically. There are repetitive generalized statements. As an example, the statement that DWI differentiates benign and malignant lesions is repeated several times. Instead, the authors should use studies in literature to high light how DWI does in this situation. What is the sensitivity and specificity of detecting malignancy when DWI is added? For detection liver metastasis there are several studies which mention the added value of DWI which should be quoted with numbers

Response: Modifications have been made in the manuscript as per suggestion

Reviewer 2:

>>The title of the manuscript would rather be changed as : "Diffusion and Diffusion Tensor weighted Imaging: Technique and Applications"

Response: Title is changed as per suggestions

>> The technical evolution parts of the manuscript may be deleted or seriously shortened since this part is not so exiting for the reader especially in the beginning.

Response:

>> There is not so much data about the effects of b value, Tesla value.

Response: The b value and tesla value is explained in terms of difference in signal intensity of various tissues

>> I could also not see about quantitative DWI and DTI? What should we expect for instance in an hemangioma, HCC, or prostatic carcinoma as ADC or FA value?

Response: The suggestion has been incorporated

>> Should we apply the same b value for DTI and DWI, and also in different organs?>> The readers should also be told about direct DWI and DTI derived ADC values.

Response: These suggestions have been included.

>> There are lots of non-useful sentences like : “The utility of DW MR imaging is also being investigated in diffuse hepatic parenchymal disease such as non-alcoholic fatty liver disease and hepatic fibrosis (45).” What should we expect from this sentence? ..is being investigated ? So is it useful? To what extent? Can DWI or DTI differentiate fibrosis with which b value and with which ADC or FA values?

Response: As per the suggestions, this paragraph is rephrased and modified.

>> Also the language should be improved.>> To my point of view the authors should rewrite the manuscript whether by expanding the text carefully which will make this minireview too lengthy, or solely discussing DWI in detail. Regards

Response: Language has been further edited to enhance the manuscript

Reviewer 3:

This manuscript is a review of DWI MRI technique and its application to differential diagnosis. The work is well written is consistent and has adequate bibliographic review. My suggestion is to publish as it is.

Response: Thank you very much. We have incorporated the other reviewer's suggestions

Reviewer 4:

As to peripheral nerves, I recommend more references be included, such as Diffusion tensor imaging of symptomatic nerve roots in patients with cervical disc herniation. Academic Radiology.; Visualization of peripheral nerve degeneration and regeneration: Monitoring with diffusion tensor tractography, neuroimage.

Response: Reference on Diffusion tensor imaging of symptomatic peripheral nerve has been included

Reviewer 5:

This is a very good article. There are just some minor problems: quality of abstract is far inferior to that of main text, concepts are not so well summarized. Acronym CASADIL should be written in full. I think that in section oncological applications the authors should explain what b value is and what could explain difference in signal from some tissues

Response: Abstract is rephrased to summarize the concept. Acronym CASADIL is written in full. We didn't include the definition of b value as it would expand the manuscript.

Thanking you

Yours sincerely,

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