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Dear Dr. Qui,

Thank you for taking the time to review our manuscript 22877 entitled "Simultaneous whole body 18F-FDG PET-MRI for evaluation of pediatric cancer: preliminary experience and comparison with 18F-FDG PET-CT" and for allowing us to submit a manuscript revision. We have made changes to the manuscript according to the reviewers' comments. Our point-by-point response to the comments is listed below. We hope that this revised manuscript is acceptable for publication in the World Journal of Radiology.

Thank you for your consideration.

Best regards,

Brian Pugmire

Reviewer #1

1. Dear author according to Manuscript Number 22877 Manuscript Title: Simultaneous whole body 18F-FDG PET-MRI for evaluation of pediatric cancer: preliminary experience and comparison with 18F-FDG PET-CT this is a well written novel study and no significant fault noted in it.
    a. Thank you for your kind comments.

Reviewer #2

This paper describes a research study meant to assess the feasibility and accuracy of PET/MRI in the evaluation of pediatric cancer. The focus of the work is to compare the performance of PET/MRI in its ability, accuracy and utility to detect and characterize cancerous tumors using PET/CT as a reference standard on pediatric oncology patients during the same visit. Obtained results suggest that PET-MRI has high accuracy for detecting malignant lesions across a wide range of tumor types and anatomic locations, and it is associated with a substantial reduction in patient ionizing radiation exposure compared with PET-CT. This is overall a good work; however, some aspect could be improved:

1. It is appropriate to describe in the abstract the specific Study Design indicating that it is an observational, prospective and single-centre study
    a. This has been added to the abstract.
2. It would be useful to provide for the figure 5 specific descriptive details to illustrate more clearly the images as for the other figures
    a. An expanded figure legend has been added for figure 5.
3. In the "Discussion" session authors could better highlight and emphasize the innovative aspect of their work with respect to data already available in literature.
    a. We thank the reviewer for this suggestion. Our original manuscript includes a statement regarding the fact that our study is the first to directly compare DWI ADC and PET-MRI SUV for the detection of malignant lesions in pediatric patients. By our estimation, this is the most innovative aspect of our work. Our discussion also includes reference to prior work regarding PET-MRI in children, to which our data provide confirmatory evidence of its usefulness in the evaluation of cancer in this patient population.

Reviewer #3: The authors assessed simultaneous whole body 18F-FDG PET-MRI for evaluation of pediatric cancer and compared with 18F-FDG PET-CT findings. They evaluated tumors only in 7 cases.

1. Overall, there are a number of limitations that diminish the power of study in order to present a conclusion to suggest PET-MRI instead of PET-CT in children; however, as a preliminary experience could be helpful.
    a. We agree with this reviewer that our study has significant limitations, and these are addressed in detail in the discussion section of our paper.
2. Furthermore, is there any concern about MRI safety? especially in children?

a. We appreciate this suggestion. We have added a brief discussion regarding the risks associated with MRI in the discussion section.