Manuscript World Journal of Radiology ESPS Manuscript NO: 1917
Reviewer Response and Revisions

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: "Revised with changes Lung Perfusion.docx").

Title: Correlation Analysis of Dual-Energy CT Iodine Maps with Quantitative Pulmonary Perfusion MRI

Authors: Hansmann J, MD, Apfaltrer P, MD, Zoellner FG, PhD, Henzler T, MD, Meyer M, Bsc, Weisser G, MD, Schoenberg SO, MD, Attenberger UI, MD

Name of Journal: World Journal of Radiology

Thank you for considering our manuscript for publication in World Journal of Radiology.

Sincerely,

Jan Hansmann

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We'd like to thank the reviewers for their insightful comments, which have helped significantly strengthen this manuscript and hope we have addressed the reviewers' concerns in the revised manuscript.

R 1.1

Title: "Correlation of Dual-Energy CT Iodine Maps with Quantitative Pulmonary Perfusion MRI". The experiment did not show statistically significant correlation between DECT iodine maps and perfusion parameter maps of DCE-MRI. However, the current title may make some readers think that there is significant correlation. Therefore, it is necessary to soften the tone of the title. For example, the title can be: Correlation Analysis ...".

Thank you for this excellent comment. We have followed the reviewers recommendation and changed the title to:

"*Correlation Analysis Correlation of Dual-Energy CT Iodine Maps with Quantitative Pulmonary Perfusion MRI*"

R1.2

Introduction: this section is too simple. In particular, there was little content regarding the significance and the novelty of the present study, which should be articulated.

Thank you for this valuable comment. We have expanded the introduction section in this regard, please see below and revised manuscript:

"To our knowledge, no prior study correlated the perfusion changes shown in time resolved perfusion imaging modalities such as DCE-MRI to the perfusion changes displayed in DECT-derived iodine maps."

R 1.3

Discussion and Conclusion: It should be pointed out that the result is preliminary. This is

because of the following two points: (1) the subject number appears to be small; (2) the inclusion of heterogeneous subjects, as discussed by the authors in the Discussion section.

Thank you for this comment. We have expanded our discussion section in this regard in the revised manuscript.

"In addition, only a small number of patients were included in this study, and therefore our results should be viewed as preliminary. Certainly further studies including a larger number of patients and focusing on one disease entity (e.g. pulmonary embolism) seem warranted."

R1.4

Abstract: MAR was not defined.

Please excuse this mistake. MRA stands for MR-Angiography, however, to avoid confusing the reader we have changed this to MRI in order to conform with the rest of the abstract.

R 1.5

There were some TRACK CHANGES which should be removed.

Please excuse this mistake which has been corrected in the revised manuscript.