Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: 1.Suggestion to supplement recent studies applicated machine learning techniques in the multimodal molecular imaging techniques such as PET / CT and PET/MR of pituitary adenomas. 2.To go through the text, grasp the details and have a little bit of modification.

We thank the Reviewer for his positive assessment of our paper. Concerning the specific comments, we have newly checked the literature and were not able to find PET/CT or PET/MR machine learning studies within the aim of the review. The text was again checked for typos and grammar errors.

(1) Science Editor: 1 Scientific quality: The manuscript describes a review of the artificial intelligence and pituitary adenomas. The topic is within the scope of the AIMI. (1) Classification: Grade C; (2) Summary of the Peer-Review Report: Suggestion to supplement recent studies applicate machine learning techniques in the multimodal molecular imaging techniques such as PET / CT and PET/MR of pituitary adenomas, and to go through the text, grasp the details and have a little bit of modification; and (3) Format: There are no tables and figures. A total of 39 references are cited, including 19 references published in the last 3 years. There are 3 self-citations. 2 Language evaluation: Classification: Grade B. No language editing certificate was provided. 3 Academic norms and rules: The authors provided the Conflict-of-Interest Disclosure Form and signed Copyright License Agreement. No academic misconduct was found in the Bing search. 4 Supplementary comments: This is an invited manuscript. No financial support was obtained for the study. The topic has not previously been published in the AIMI. 5 Issues raised: (1) The highest single-source similarity index should be no more than 6% in the CrossCheck report. The authors need to rephrase any repeated portion of text; and (2) PMID numbers are missing in the reference list. Please provide the PubMed numbers to the reference list and list all authors of the references. Please revise throughout. 6 Re-Review: Not required. 7 Recommendation: Conditional acceptance.

(2) Editorial Office Director: I have checked the comments written by the science editor. The authors need to add some figures and/or tables.

(3) Company Editor-in-Chief: I have reviewed the Peer-Review Report, the full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the Artificial Intelligence in Medical Imaging, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, the author(s) must add a table/figure to the manuscript.

We thank the Editorial Office for taking the time to review our manuscript. Given the nature of the text (narrative review) and the scope/characteristics of papers referenced, we were not able to identify a suitable figure or table that would be appropriate for our article.