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Manuscript Type: Review

Responses to reviewers:

Reviewer 1:

1. More than ten kinds of PET and SPECT radiopharmaceuticals are introduced in this manuscript. However, only one figure of [18F]FPCIT brain image was provided. Please provide more figures with regard to these radiopharmaceuticals.

Response: Thank you for your observation. We are in agreement and a total of 5 figures exemplifying the use of different tracers are now provided with our manuscript.

2. The authors mentioned some DAT tracers for SPECT scan such as 123I-IBZM, 123I - beta-CIT and 123I -FPCIT (DaTScan?). However, an important Tc-99m labelled tracer - Tc-99m TRADAT-1 was missed.

Response: Thank you for this very important point. [^{99m}Tc]TRODAT-1 has now been added in the "Molecular imaging of parkinsonism" section.

Reviewer 2:

Abstract: is too long. The introduction section has been structured correctly traducing expectation. Individual paragraphs about the most common MD are well done and well written. In particular, Parkinsonism section is properly focused on differential diagnosis, and it is also supported by a Table. Brilliant and appropriate, in accordance with the aim of the review, the paragraphs about the "treatment" and "future directions for molecular imaging in movement disorders". References: have been well listed as required by the journal policy. Figure: suitably showed, basing on the most frequent pattern of MD

Response: Thank you so much for your observation and kind words. We have now reduced the abstract from 614 to 419 words.

Sincerely,

The authors