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Manuscript Type: REVIEW

The Middle Cerebellar Peduncles: MR Imaging and Pathophysiologic Correlate

Authors: H Morales, T Tomsick.

Please find our answers below and our changes highlighted (underlined> in the manuscript text:

Reviewed by 02346872

Title: The title does not accurately reflect the major topic and content of the study.

Abstract: (1) The abstract provides a clear delineation between the research background, objectives, methods, and conclusions. References: Tables and

Figures: The figures reflected the major findings of the study. Overall : This is a valuable study. This information may be useful in the differential diagnosis of MCP such as demyelinating disorders and certain neurodegenerative diseases.

Authors' answer:

Thanks for reviewing and suggestions! The title has been revised.

Reviewed by 02348457

As DTI for DTT were the main focus of imaging,, the imaging parameters are better added to the Figures.

Authors' answer:

Thanks for reviewing and suggestions! DTI and DTT parameters have been added to the figures.

Reviewed by 00012499

MRI findings for white matter abnormalities of the middle cerebellar peduncles are reviewed. This is essentially a listing of T2 abnormalities seen by MRI in the various diseases. Concerning the title, little insight is provided into pathologic mechanisms! Although associations to mechanisms such as ischemia and neurodegeneration are mentioned multiple times, MRI results that can shed some light on these processes are lacking. In a revision relevant MR spectroscopy publications should be considered, if only to show some evidence for the hypoxia (lactate accumulation) and neurodegeneration (NAA decreases) associated with certain lesions. Furthermore, more emphasis should be placed on the perfusion and diffusion MRI results, important indicators for hypoxia, necrosis and cell density. Specific comments: title: predilection for...> MRI of...(delete: and imaging findings) p3, line 5:case is not accompany > case it is not accompanied

Authors' answer:

Thanks for reviewing and suggestions! The title has been revised. A new section with advanced techniques such as MRS and MR Perfusion has been added with more emphasis in additional metabolic and physiologic indicators. Sentence in p3, line 5 has been corrected. A new case (figure 12) has been added to the review.

Once again thanks for reviewing,

Humberto Morales and Thomas Tomsick.