

Peer Review

Review of: "Auditory Tract Maturation in Early Infancy: Links to Speech Production"

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The manuscript is of excellent quality. Very well structured and everything well explained. The presented toolbox will be very interesting and useful for the neonatal community, not only for those interested in the auditory system but for the overall community due to the possibility of adapting it to other systems.

I have only very minor comments; however, I would be happy if it were published as it is:

- It is a long manuscript; it would benefit from shortening it a little bit, especially the introduction, which is quite long.
- The authors do an excellent job referencing other tools or methods employed, but there were a couple of methods for which there was no citation: ACT (Smith et al. 2012) and TDI (Calamante et al. 2008). These citations should be added to the text.
- In the methods section, in the main section, the referencing of the following sections is wrong; it should be 5.*, not 4.*.
- How were the NODDI parameters calculated? Using the default parameters? It has been shown that the parallel diffusivity changes especially during this age range (Guerrero et al. 2019).
- I didn't see any data/code availability section. Are there any plans to make it available for the community?

References:

Calamante et al. 2010 Track-density imaging (TDI): Super-resolution white matter imaging using whole-brain track-density mapping. *Neuroimage*

Smith et al. 2012 Anatomically-constrained tractography: improved diffusion MRI streamlines tractography through effective use of anatomical information. *Neuroimage*

Guerrero et al. 2019 Optimizing the intrinsic parallel diffusivity in NODDI: An extensive empirical evaluation. Plos One

Declarations

Potential competing interests: No potential competing interests to declare.