

Review of: "Prediction and Analysis of Structural Brain Health Indicators Using Deep Learning Models with Functional Brain Images as Input"

Qi Huang¹

¹ Huashan Hospital

Potential competing interests: No potential competing interests to declare.

This manuscript used functional brain images predicted the structural brain health on a larger cohort of NKI-RS dataset, and got a correlation coefficient of 0.629. It is an interesting work, but I still have some concerns:

1. the authors using GM-BHQ as the proxy of the structural brain health, but there are many more straightforward indexes, like cortical thickness, hippocampal volume, ..., authors should give more validations of the utility of FC-BHQ
2. as the authors said, GM-BHQ is a measure of brain aging and health, and why not explore the relationship between fMRI with age directly?
3. if the results could be cross-validated using other data base, it would be more convincing