Biostatistics statement

Title: **Best Early-Onset Parkinson Dementia Predictor using Ensemble Learning Method among Sociodemographic Factors, Parkinson's Motor Symptoms, Parkinson's Non-motor Symptoms, REM Sleep Disorder, and Neuropsychological Profile**

ID Number: **05207387**

Date: 07-20-2020

Chief investigator: Haewon Byeon

Major in Medical Big Data, College of AI Convergence, Inje University, Gimhae, Gyeonsangnamdo, 50834, Republic of Korea

This letter is to confirm that I have read the ethics application prepared for this study, and that in my opinion the statistical methods and techniques mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely,

Minwok Yoo, MD

Department of Neurosurgery, Changwon Fatima Hospital, 45, Changi-daero, Uichang-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

Telephone: +82-055-270-1000

Fex: +82-055-270-1000

Email: minwokyoo.fatimahosp.co.kr