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July 18, 2017

Edward de Haan, Ph.D,  
Department of Psychology  
University of Amsterdam  
P.O. Box 15915  
1001NK Amsterdam  
The Netherlands

Dear Ed:

Thank you for sharing with me your proposal to develop “a comprehensive prediction machine for long-term outcome after stroke.” As I understand it, this project will develop and apply state-of-the-art “deep learning” computer algorithms to early post-stroke brain imaging and neuropsychological data for the prediction of later cognitive and emotional well-being, everyday functioning and quality of life. Such algorithms and predictions would then be able to be used to guide rehabilitation activities.

Other than a few very general “rules of thumb” (e.g., larger lesions and more severe deficits early are associated with worse outcome), there currently exist no well-validated methods for the accurate prediction of long-term effects of stroke. I have shared your proposal with leaders in the Stroke Center here at Johns Hopkins and they agree with me that the algorithms that you develop would certainly represent a major advance in our care of stroke patients. We would be very happy to collaborate with you on research that applies the methods you develop to new populations and that addresses other questions of great neuroscientific and clinical importance.

Best wishes for a successful grant review!

Very truly,

A handwritten signature in blue ink that reads "Jason Brandt". The signature is written in a cursive, flowing style.

Jason Brandt, Ph.D.  
Professor