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(57) Abstract :

MEDICAL IMAGING ANALYSIS FOR PREDICTING A DIAGNOSIS OF A NEUROBEHAVIORAL DISORDER A medical imaging analysis for predicting a diagnosis of a neurobehavioral disorder. The method comprising a neurobehavioral disorder diagnosis module implemented using the at least one processor, wherein the NDDM is configured for receiving brain imaging data for a human subject. Receiving brain imaging data for a human subject of a first age, wherein the brain imaging data includes functional connectivity magnetic resonance imaging data, wherein the first age is under two years, wherein the first age comprises an age at which the human subject is presymptomatic with respect to a neurobehavioral disorder. The NDDM is configured for performing an intervention action based on the predicted neurobehavioral disorder diagnosis using a computer to compare a parameter of each of the voxels being assessed from the image from the subject with a parameter of each of a corresponding voxel from a computer database of images from a control group of subjects. Generating with the computer system, a biomarker associated with the neuropsychiatric, neurodevelopmental, neurobehavioral, or other neurological disorder by computing a correlation between the functional imaging data and the clinical data using a multivariate classifier.

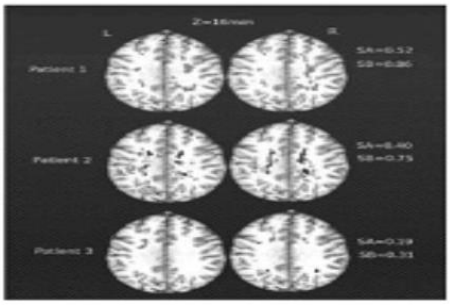

FIG. 1

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