

ADM Diagnostics, Inc. Awarded \$1.96 million Grant from the National Institutes of Health

Project will use brain imaging and blood markers to detect the effects of Traumatic Brain Injury and distinguish them from Alzheimer's disease

NORTHBROOK, Ill., September 27, 2022 - ADM Diagnostics, Inc.

(ADMdx) has been awarded a two year \$1.96 million Phase II Small Business Innovation Research (SBIR) grant from the National Institutes of Aging (NIA) to develop a diagnostic test to detect the effects of repeated head impact upon the brain, and to differentiate these effects from Alzheimer's disease. Of this, \$1 million in funding for the first year has been authorized with the remainder contingent upon approval of an interim report and availability of funds.



Repeated head impact experienced by athletes in contact sports, military personnel, persons who experience falls, and victims of domestic violence can cause progressive injury to the brain, even when impact does not cause concussion. The number of persons at risk exceeds *75 million in the US and 300 million worldwide*. Brain effects can ultimately lead to Chronic Traumatic Encephalopathy (CTE), which has similarities to Alzheimer's disease but is a different disease. There is currently no diagnostic available during life to assess brain injury caused by repeated head impact, or whether an individual is developing CTE. Using brain imaging, artificial intelligence, and blood biomarkers, ADMdx is developing analysis tools that can be used by clinicians to assess and differentiate brain effects in early, potentially reversible stages as well as when and if CTE may be progressing. Better diagnosis can be used to support the development of treatments, improved patient care, and prevention.

ADMdx continues to collaborate in this work with leading researchers in the Traumatic Brain Injury and Alzheimer's disease fields, using a unique combination of data acquired on persons exposed to repetitive head impact. Collaborators include investigators from the Cleveland Clinic Lou Ruvo Center for Brain Health, the Center for Transformative Neuroscience at the University of Nevada, the Boston University Chronic Traumatic Encephalopathy Center, and Indiana University.

ADMdx will use a unique, comprehensive set of more than 5,000 brain scans and blood biomarkers from boxers, mixed martial artists, martial artists, retired professional and college football players, contact college sports players, and controls, in combination with data from *ADMdx's internal proprietary database of over 35,000 brain scans* and related data. Using a subset of this data during Phase I of this grant, ADMdx has already demonstrated patterns of brain changes that begin during active head impact exposure and that worsen in some individuals for years after retirement.

Dawn Matthews, CEO, stated, “This grant will support our path toward a robust diagnostic product that can aid in the care and treatment development for those experiencing repetitive head impact.” She added “We are excited to pursue this effort, which will benefit from a unique combination of high-quality data, the expertise of our collaborators, and our experience in applying AI methods to detect and discriminate dementias.”

About ADM Diagnostics, Inc.

ADM Diagnostics, Inc. provides advanced, proprietary brain image analysis products and services that are used in clinical trials of new drugs to treat Alzheimer's disease and other brain disorders. ADMdx has applied its expertise in collaborations with researchers from the Cleveland Clinic, Rockefeller University, Mt. Sinai Icahn School of Medicine, Weill Cornell College of Medicine, The University of Arizona, and other institutions to gain new insights into Alzheimer's disease, Traumatic Brain Injury, and other brain conditions. ADMdx's first FDA cleared product, CorInsights MRI, uses MRI brain scans to provide information for medical professional use in evaluating patients for brain disease.

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