

Testing for chronic traumatic encephalopathy among former professional football players

July 5 2023



Credit: CC0 Public Domain

A new study showed that positron emission tomography (PET) with the radiotracer (18F)-Flortaucipir (FTP) to detect hyperphosphorylated Tau



(p-tau) may not be appropriate for diagnosing chronic traumatic encephalopathy (CTE) neuropathologic changes in former professional American-style football players. The study is published in *Journal of Neurotrauma*.

Aaron Baggish, MD, from Massachusetts General Hospital, and coauthors, conducted a study that compared former professional players to age-matched male control participants who did not have repetitive head impact exposure. There were no significant differences in (18F)-FTP uptake among former players compared to control participants. Among the players, there were no associations between objective measures of neurocognitive functioning (18F)-FTP uptake

"The absence of increased [18F]-FTP uptake in <u>brain regions</u> previously implicated in CTE among former professional ASF players compared to controls questions the utility of [18F]-FTP PET for clinical evaluation in this population," concluded the authors.

"My congratulations to Dr. Dhaynaut, Dr. Grashow, and colleagues for performing a rigorous and well-executed study of (18F)-Flortaucipir PET in former professional American football players," says David L. Brody, MD, Ph.D., editor-in-chief of *Journal of Neurotrauma*. he negative results are important, and not surprising given the well-known differences between the abnormal tau folds seen in Chronic Traumatic Encephalopathy compared to those seen in Alzheimer's disease and other tauopathies. I am especially impressed by the rigor of the study design."

More information: Maeva Dhaynaut et al, Tau Positron Emission Tomography and Neurocognitive Function Among Former Professional American-Style Football Players, *Journal of Neurotrauma* (2023). DOI: 10.1089/neu.2022.0454



Provided by Mary Ann Liebert, Inc

Citation: Testing for chronic traumatic encephalopathy among former professional football players (2023, July 5) retrieved 13 May 2024 from https://medicalxpress.com/news/2023-07-chronic-traumatic-encephalopathy-professional-football.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.