

BRAIN: CTE diagnosed in 110 of 111 of former NFL players that were studied

Continued from 1B

died. "There are many questions that remain unanswered," said lead author Dr. Ann McKee, a Boston University neuroscientist. "How common is this" in the general population and all football players?

"How many years of football is too many?" and "What is the genetic risk? Some players do not have evidence of this disease despite long playing years," she noted.

It's also uncertain if some players' lifestyle habits — alcohol, drugs, steroids, diet — might somehow contribute, McKee said.

Dr. Munro Cullum, a neuropsychologist at UT Southwestern Medical Center in Dallas, emphasized that the report is based on a selective sample of men who were not necessarily representative of all football players. He said problems other than CTE might explain some of their most common symptoms before death — depression, impulsivity and behavior changes. He was not involved in the report.

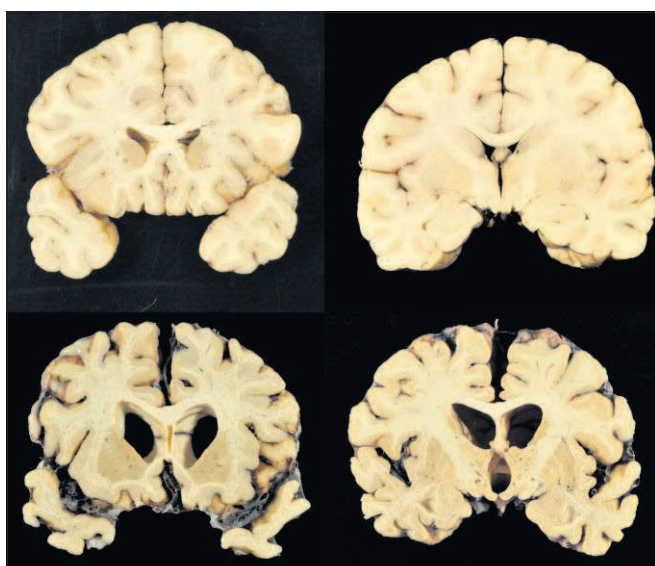
McKee said research from the brain bank may lead to answers and an under-

standing of how to detect the disease in life, "while there's still a chance to do something about it." Currently, there's no known treatment.

The strongest scientific evidence says CTE can only be diagnosed by examining brains after death, although some researchers are experimenting with tests performed on the living. Many scientists believe that repeated blows to the head increase risks for developing CTE, leading to progressive loss of normal brain matter and an abnormal buildup of a protein called tau. Combat veterans and athletes in rough contact sports like football and boxing are among those thought to be most at risk.

The new report was published Tuesday in the Journal of the American Medical Association.

CTE was diagnosed in 177 former players or nearly 90 percent of brains studied. That includes 110 of 111 brains from former NFL players; 48 of 53 college players; nine of 14 semi-professional players, seven of eight Canadian Football league players and three of 14 high school players. The disease was not found in brains from two younger



Dr. Ann McKee/BU via AP

This combination of photos provided by Boston University shows sections from a normal brain, top, and from the brain of former University of Texas football player Greg Ploetz, bottom, in stage IV of chronic traumatic encephalopathy.

players. A panel of neuropathologists made the diagnosis by examining brain tissue, using recent criteria from the National Institute of Neurological Disorders and Stroke, McKee said.

The NFL issued a statement saying these reports are important for advancing science related to head trauma and said the league

"will continue to work with a wide range of experts to improve the health of current and former NFL athletes."

After years of denials, the NFL acknowledged a link between head blows and brain disease and agreed in a \$1 billion settlement to compensate former players who had accused the league of hiding the risks. The journal update

includes many previously reported cases, including former NFL players Bubba Smith, Ken Stabler, Dave Duerson and Ralph Wenzel.

New ones include retired tight end Frank Wainright, whose 10-year NFL career included stints with the Miami Dolphins, New Orleans Saints and Baltimore Ravens. Wainright died in April 2016 at age 48 from a heart attack triggered by bleeding in the brain, said his wife, Stacie. She said he had struggled almost eight years with frightening symptoms including confusion, memory loss and behavior changes.

Wainright played before the league adopted stricter safety rules and had many concussions, she said. He feared CTE and was adamant about donating his brain, she said.

"A lot of families are really tragically affected by it — not even mentioning what these men are going through and they're really not sure what is happening to them. It's like a storm that you can't quite get out of," his wife said.

Frank Wycheck, another former NFL tight end, said he worries that concussions during his nine-year career

— the last seven with the Tennessee Titans — have left him with CTE and he plans to donate his brain to research.

"Some people have heads made of concrete, and it doesn't really affect some of those guys," he said. "But CTE is real."

"I know I'm suffering through it, and it's been a struggle and I feel for all the guys out there that are going through this," said Wycheck, 45.

In the new report, McKee and colleagues found the most severe disease in former professional players; mild disease was found in all three former high school players diagnosed with the disease. Brain bank researchers previously reported that the earliest known evidence of CTE was found in a high school athlete who played football and other sports who died at age 18. He was not included in the current report.

The average age of death among all players studied was 66. There were 18 suicides among the 177 diagnosed.

AP Sports Writer Teresa M. Walker contributed to this report.

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