

AUGUST COGNITIVE KIT WORD SEARCH PUZZLE

N	S	T	N	E	M	S	S	E	S	S	A	O	Z	N	J	L	A	C	N
E	E	U	H	I	X	A	E	N	U	E	X	E	D	C	M	M	N	Q	Y
L	P	U	Z	C	H	W	I	R	V	W	V	N	I	F	U	Y	N	F	A
N	J	R	R	A	J	D	E	A	I	I	G	Z	Z	G	L	D	F	F	R
C	P	A	G	O	V	X	L	Q	T	A	P	B	Y	Z	T	D	K	E	K
U	O	E	K	I	P	U	U	I	B	Z	N	T	T	O	I	P	E	D	C
C	X	H	J	O	A	A	T	H	S	S	Q	N	O	M	F	T	C	G	E
G	J	Z	S	T	B	E	T	G	C	I	K	L	O	X	A	J	X	J	X
H	E	U	I	B	P	N	T	H	O	S	M	W	F	I	C	I	J	A	X
Z	R	O	K	E	Q	P	R	A	O	Y	L	Q	F	X	T	T	H	C	O
E	N	S	R	B	J	S	A	A	A	L	P	Y	F	U	O	S	D	Y	Q
S	A	Y	F	R	X	C	U	I	U	A	O	E	K	V	R	R	E	O	B
Y	T	M	R	K	P	G	D	O	G	N	G	G	H	V	I	L	W	U	J
K	T	P	L	P	K	R	L	G	H	A	D	F	I	F	A	V	U	Z	Q
J	F	T	V	C	B	S	O	L	P	O	B	A	P	C	L	S	X	I	V
E	G	O	K	O	V	M	L	I	M	P	A	C	T	S	Q	G	F	W	C
S	I	M	R	A	L	U	C	S	A	V	O	R	C	I	M	K	R	K	Y
K	V	S	M	Y	A	Q	Q	L	H	H	J	Z	D	Y	K	B	X	W	D
F	G	U	G	S	R	O	S	C	D	R	I	C	K	B	K	A	P	Y	U
B	P	N	C	E	C	R	L	M	A	W	Y	O	U	N	G	U	Z	H	H

Note: The word bank is on the following page

AUGUST COGNITIVE KIT WORD SEARCH PUZZLE

WORD BANK:

YOUNG
NEUROPATHOLOGIC
SYMPTOMS
EVALUATIONS

ASSESSMENTS
QUESTIONNAIRES
ANALYSIS
REPETITIVE

IMPACTS
MULTIFACTORIAL
EXPOSURE
MICROVASCULAR

This month, the word search clues are from McKee et al.'s 2023 paper: *Neuropathologic and Clinical Findings in Young Contact Sport Athletes Exposed to Repetitive Head Impacts*

Importance

Young contact sport athletes may be at risk for long-term **neuropathologic** disorders, including chronic traumatic encephalopathy (CTE).

Objective

To characterize the neuropathologic and clinical **symptoms** of young brain donors who were contact sport athletes.

Design, Setting, and Participants

This case series analyzes findings from 152 of 156 brain donors younger than 30 years identified through the Understanding Neurologic Injury and Traumatic Encephalopathy (UNITE) Brain Bank who donated their brains from February 1, 2008, to September 31, 2022. Neuropathologic **evaluations**, retrospective telephone clinical **assessments**, and online **questionnaires** with informants were performed blinded. Data **analysis** was conducted between August 2021 and June 2023.

Exposures

Repetitive head **impacts** from contact sports.

Conclusions and Relevance

This case series found that young brain donors exposed to repetitive head impacts were highly symptomatic regardless of CTE status, and the causes of symptoms in this sample are likely **multifactorial**. Future studies that include young brain donors unexposed to repetitive head impacts are needed to clarify the association among **exposure**, white matter and **microvascular** pathologic findings, CTE, and clinical symptoms.