

Neuroimaging Biomarkers in Mild Traumatic Brain Injury

Neuropsychology Review

23, 169-209

DOI: [10.1007/s11065-013-9237-2](https://doi.org/10.1007/s11065-013-9237-2)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Mild Traumatic Brain Injury and Diffuse Axonal Injury in Swine. <i>Journal of Neurotrauma</i> , 2011, 28, 1747-1755.	1.7	219
2	Sport-Related Concussions: A Review of Epidemiology, Challenges in Diagnosis, and Potential Risk Factors. <i>Neuropsychology Review</i> , 2013, 23, 273-284.	2.5	83
3	Emerging MRI and metabolic neuroimaging techniques in mild traumatic brain injury. <i>Neurology India</i> , 2014, 62, 487.	0.2	6
4	Differences in Cerebral Perfusion Deficits in Mild Traumatic Brain Injury and Depression Using Single-Photon Emission Computed Tomography. <i>Frontiers in Neurology</i> , 2014, 5, 158.	1.1	5
5	A Rehabiliomics framework for personalized and translational rehabilitation research and care for individuals with disabilities: Perspectives and considerations for spinal cord injury. <i>Journal of Spinal Cord Medicine</i> , 2014, 37, 493-502.	0.7	15
6	Prognostic Value of Early Magnetic Resonance Imaging in Dogs after Traumatic Brain Injury: 50 Cases. <i>Journal of Veterinary Internal Medicine</i> , 2014, 28, 1256-1262.	0.6	46
7	Effort, symptom validity testing, performance validity testing and traumatic brain injury. <i>Brain Injury</i> , 2014, 28, 1623-1638.	0.6	76
8	Future of Traumatic Brain Injury in Adults. <i>Seminars in Speech and Language</i> , 2014, 35, 234-240.	0.5	0
9	Considerations for animal models of blast-related traumatic brain injury and chronic traumatic encephalopathy. <i>Alzheimer's Research and Therapy</i> , 2014, 6, 64.	3.0	49
10	Clinical Utility of SPECT Neuroimaging in the Diagnosis and Treatment of Traumatic Brain Injury: A Systematic Review. <i>PLoS ONE</i> , 2014, 9, e91088.	1.1	76
11	White matter microstructure in chronic moderate-to-severe traumatic brain injury: Impact of acute-phase injury-related variables and associations with outcome measures. <i>Journal of Neuroscience Research</i> , 2015, 93, 1109-1126.	1.3	45
12	Day of injury CT and late MRI findings: Cognitive outcome in a paediatric sample with complicated mild traumatic brain injury. <i>Brain Injury</i> , 2015, 29, 1062-1070.	0.6	19
13	The association between a history of concussion and variability in behavioral and neuroelectric indices of cognition. <i>International Journal of Psychophysiology</i> , 2015, 98, 426-434.	0.5	31
14	Functional connectivity changes detected with magnetoencephalography after mild traumatic brain injury. <i>NeuroImage: Clinical</i> , 2015, 9, 519-531.	1.4	75
15	Neurotherapy for chronic headache following traumatic brain injury. <i>Military Medical Research</i> , 2015, 2, 22.	1.9	14
16	Neurotherapy of Traumatic Brain Injury/Post-Traumatic Stress Symptoms in Vietnam Veterans. <i>Military Medicine</i> , 2015, 180, e1111-e1114.	0.4	10
17	Pediatric Traumatic Brain Injury and Attention Deficit Hyperactivity Disorder. <i>The ADHD Report</i> , 2015, 23, 1-8.	0.4	2
18	White matter alterations in youth with acute mild traumatic brain injury. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2015, 8, 285-296.	0.3	45

#	ARTICLE	IF	CITATIONS
19	Assessment method influences the severity and type of symptoms reported after self-reported mild traumatic brain injury. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2015, 37, 641-652.	0.8	7
20	Imaging Evidence and Recommendations for Traumatic Brain Injury: Advanced Neuro- and Neurovascular Imaging Techniques. <i>American Journal of Neuroradiology</i> , 2015, 36, E1-E11.	1.2	97
21	A case study of magnetic resonance imaging of cerebrovascular reactivity: A powerful imaging marker for mild traumatic brain injury. <i>Brain Injury</i> , 2015, 29, 403-407.	0.6	35
22	Traumatic brain injury and reserve. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2015, 128, 691-710.	1.0	43
23	Traumatic Brain Injury and Grief: Considerations and Practical Strategies for School Psychologists. <i>Contemporary School Psychology</i> , 2015, 19, 218-229.	0.9	6
24	In search of evidence-based treatment for concussion: characteristics of current clinical trials. <i>Brain Injury</i> , 2015, 29, 300-305.	0.6	43
25	The effect of days since last concussion and number of concussions on cognitive functioning in Division I athletes. <i>Brain Injury</i> , 2015, 29, 633-638.	0.6	6
26	Clinical features and biomarkers of concussion and mild traumatic brain injury in pediatric patients. <i>Annals of the New York Academy of Sciences</i> , 2015, 1345, 89-98.	1.8	21
28	Diffusion Tensor Imaging Parameters in Mild Traumatic Brain Injury and Its Correlation with Early Neuropsychological Impairment: A Longitudinal Study. <i>Journal of Neurotrauma</i> , 2015, 32, 1497-1509.	1.7	113
29	Filling in the gaps: Anticipatory control of eye movements in chronic mild traumatic brain injury. <i>NeuroImage: Clinical</i> , 2015, 8, 210-223.	1.4	37
30	Old wine in new bottles: Validating the clinical utility of SPECT in predicting cognitive performance in mild traumatic brain injury. <i>Psychiatry Research - Neuroimaging</i> , 2015, 231, 15-24.	0.9	16
31	Functional magnetic resonance imaging of mild traumatic brain injury. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 49, 8-18.	2.9	120
32	Imaging Evidence and Recommendations for Traumatic Brain Injury: Conventional Neuroimaging Techniques. <i>Journal of the American College of Radiology</i> , 2015, 12, e1-e14.	0.9	125
33	Delayed and disorganised brain activation detected with magnetoencephalography after mild traumatic brain injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 1008-1015.	0.9	30
34	Multi-modal MRI of mild traumatic brain injury. <i>NeuroImage: Clinical</i> , 2015, 7, 87-97.	1.4	82
35	Early Cortical Thickness Change after Mild Traumatic Brain Injury following Motor Vehicle Collision. <i>Journal of Neurotrauma</i> , 2015, 32, 455-463.	1.7	50
36	Preliminary Evidence of Reduced Urge to Cough and Cough Response in Four Individuals following Remote Traumatic Brain Injury with Tracheostomy. <i>Canadian Respiratory Journal</i> , 2016, 2016, 1-8.	0.8	5
37	Temporal Profile of Cerebrovascular Reactivity Impairment, Gray Matter Volumes, and Persistent Symptoms after Mild Traumatic Head Injury. <i>Frontiers in Neurology</i> , 2016, 7, 70.	1.1	34

#	ARTICLE	IF	CITATIONS
38	Functional, Structural, and Neurotoxicity Biomarkers in Integrative Assessment of Concussions. <i>Frontiers in Neurology</i> , 2016, 7, 172.	1.1	18
39	Systems Biology, Neuroimaging, Neuropsychology, Neuroconnectivity and Traumatic Brain Injury. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 55.	1.2	55
40	Introduction to the JINS Special Issue: Preclinical Prediction. <i>Journal of the International Neuropsychological Society</i> , 2016, 22, 951-955.	1.2	0
42	The Pathophysiology of Concussion. <i>Current Pain and Headache Reports</i> , 2016, 20, 42.	1.3	81
43	Deep white matter hyperintensities affect verbal memory independent of PTSD symptoms in veterans with mild traumatic brain injury. <i>Brain Injury</i> , 2016, 30, 864-871.	0.6	21
44	Advanced neuroimaging in the clinic: critical appraisal of the evidence base. <i>British Journal of Radiology</i> , 2016, 89, 20150753.	1.0	2
45	A voxel-based meta-analysis of diffusion tensor imaging in mild traumatic brain injury. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 66, 119-126.	2.9	40
46	Diffusion tensor imaging in acute-to-subacute traumatic brain injury: a longitudinal analysis. <i>BMC Neurology</i> , 2016, 16, 2.	0.8	55
47	Mean cortical curvature reflects cytoarchitecture restructuring in mild traumatic brain injury. <i>NeuroImage: Clinical</i> , 2016, 11, 81-89.	1.4	36
48	Frontotemporal correlates of impulsivity and machine learning in retired professional athletes with a history of multiple concussions. <i>Brain Structure and Function</i> , 2016, 221, 1911-1925.	1.2	103
49	Current status of fluid biomarkers in mild traumatic brain injury. <i>Experimental Neurology</i> , 2016, 275, 334-352.	2.0	105
50	Differences in Regional Brain Volumes Two Months and One Year after Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 29-34.	1.7	39
51	Microstructural Change and Cognitive Alteration in Maxillofacial Trauma and Mild Traumatic Brain Injury: A Diffusion Tensor Imaging Study. <i>Journal of Oral and Maxillofacial Surgery</i> , 2016, 74, 1197.e1-1197.e10.	0.5	6
53	Detection of Subtle Cognitive Changes after mTBI Using a Novel Tablet-Based Task. <i>Journal of Neurotrauma</i> , 2016, 33, 1237-1246.	1.7	18
54	Trauma-Specific Brain Abnormalities in Suspected Mild Traumatic Brain Injury Patients Identified in the First 48 Hours after Injury: A Blinded Magnetic Resonance Imaging Comparative Study Including Suspected Acute Minor Stroke Patients. <i>Journal of Neurotrauma</i> , 2017, 34, 23-30.	1.7	32
55	Dynamic association between perfusion and white matter integrity across time since injury in Veterans with history of TBI. <i>NeuroImage: Clinical</i> , 2017, 14, 308-315.	1.4	31
56	Assessment of Oculomotor Function in Patients With Postconcussion Syndrome: A Systematic Review. <i>Journal of Head Trauma Rehabilitation</i> , 2017, 32, E55-E67.	1.0	12
57	Diffusion-Tensor Imaging Findings and Cognitive Function Following Hospitalized Mixed-Mechanism Mild Traumatic Brain Injury: A Systematic Review and Meta-Analysis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, 2308-2319.	0.5	34

#	ARTICLE	IF	CITATIONS
58	White matter changes in patients with mild traumatic brain injury: MRI perspective. <i>Concussion</i> , 2017, 2, CNC35.	1.2	66
59	Neurobehavioural Disability and Social Handicap following Traumatic Brain Injury. , 0, , .		18
60	A National Study on the Effects of Concussion in Collegiate Athletes and US Military Service Academy Members: The NCAAâ€DoD Concussion Assessment, Research and Education (CARE) Consortium Structure and Methods. <i>Sports Medicine</i> , 2017, 47, 1437-1451.	3.1	252
61	Measurement of Peripheral Vision Reaction Time Identifies White Matter Disruption in Patients with Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 1539-1545.	1.7	12
62	White matter microstructure is associated with functional, cognitive and emotional symptoms 12 months after mild traumatic brain injury. <i>Scientific Reports</i> , 2017, 7, 13795.	1.6	39
63	DTI measures identify mild and moderate TBI cases among patients with complex health problems: A receiver operating characteristic analysis of U.S. veterans. <i>NeuroImage: Clinical</i> , 2017, 16, 1-16.	1.4	27
64	Repeated Mild Traumatic Brain Injury. <i>Cell Transplantation</i> , 2017, 26, 1131-1155.	1.2	165
65	The independent influence of concussive and sub-concussive impacts on soccer players' neurophysiological and neuropsychological function. <i>International Journal of Psychophysiology</i> , 2017, 112, 22-30.	0.5	64
66	Compromised Neurocircuitry in Chronic Blastâ€Related Mild Traumatic Brain Injury. <i>Human Brain Mapping</i> , 2017, 38, 352-369.	1.9	43
67	Functional Neuroimaging in Traumatic Brain Injury: From Nodes to Networks. <i>Frontiers in Neurology</i> , 2017, 8, 407.	1.1	45
68	Concussion As a Multi-Scale Complex System: An Interdisciplinary Synthesis of Current Knowledge. <i>Frontiers in Neurology</i> , 2017, 8, 513.	1.1	96
69	Feasibility of using normobaric hypoxic stress in mTBI research. <i>Concussion</i> , 2017, 2, CNC44.	1.2	1
70	Metabolomics and Biomarker Discovery in Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 1831-1848.	1.7	36
71	Does state boredom cause failures of attention? Examining the relations between trait boredom, state boredom, and sustained attention. <i>Experimental Brain Research</i> , 2018, 236, 2483-2492.	0.7	82
72	Diffusion tensor imaging (DTI) findings in adult civilian, military, and sport-related mild traumatic brain injury (mTBI): a systematic critical review. <i>Brain Imaging and Behavior</i> , 2018, 12, 585-612.	1.1	132
73	Stability of MRI metrics in the advanced research core of the NCAA-DoD concussion assessment, research and education (CARE) consortium. <i>Brain Imaging and Behavior</i> , 2018, 12, 1121-1140.	1.1	22
74	Premorbid IQ Predicts Postconcussive Symptoms in OEF/OIF/OND Veterans with mTBI. <i>Archives of Clinical Neuropsychology</i> , 2018, 33, 206-215.	0.3	9
75	The current state of biomarkers of mild traumatic brain injury. <i>JCI Insight</i> , 2018, 3, .	2.3	88

#	ARTICLE	IF	CITATIONS
76	Physiological underarousal as a mechanism of aggressive behavior in university athletes with a history of concussion. <i>Brain and Behavior</i> , 2018, 8, e01038.	1.0	6
77	State of the Science on Pediatric Mild Traumatic Brain Injury. <i>JAMA Pediatrics</i> , 2018, 172, e182846.	3.3	9
78	Hybrid Diffusion Imaging in Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2377-2390.	1.7	41
79	Understanding individual variability in symptoms and recovery following mTBI: A role for TMS-EEG?. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 92, 140-149.	2.9	16
80	Repeated Sport-Related Concussion Shows Only Minimal White Matter Differences Many Years After Playing High School Football. <i>Journal of the International Neuropsychological Society</i> , 2019, 25, 950-960.	1.2	14
81	Neuroimaging and Neuropsychology. , 2019, , 421-434.		2
82	Repeated mild traumatic brain injuries induce persistent changes in plasma protein and magnetic resonance imaging biomarkers in the rat. <i>Scientific Reports</i> , 2019, 9, 14626.	1.6	35
84	Psychological Intervention in Traumatic Brain Injury Patients. <i>Behavioural Neurology</i> , 2019, 2019, 1-8.	1.1	23
85	Physician's Field Guide to Neuropsychology. , 2019, , .		2
86	Quantitative multivoxel proton MR spectroscopy for the identification of white matter abnormalities in mild traumatic brain injury: Comparison between regional and global analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1424-1432.	1.9	11
87	Neuroimaging Biomarkers for the Neuropsychological Investigation of Concussive Brain Injury (CBI) Outcome. , 2019, , 259-284.		0
88	Structural Neuroimaging of Persistent or Delayed-Onset Encephalopathy Following Repetitive Concussive Brain Injuries. , 2019, , 629-637.		0
89	Deployment Stress and Concussive Brain Injury: Diagnostic Challenges in Polytrauma Care. , 2019, , 683-693.		0
90	Randomised controlled clinical trial of a structured cognitive rehabilitation in patients with attention deficit following mild traumatic brain injury: study protocol. <i>BMJ Open</i> , 2019, 9, e028711.	0.8	1
91	Trajectory of Postconcussive Symptoms 12 Months After Deployment in Soldiers With and Without Mild Traumatic Brain Injury. <i>American Journal of Epidemiology</i> , 2019, 188, 77-86.	1.6	20
92	The King-Devick test in mixed martial arts: the immediate consequences of knock-outs, technical knock-outs, and chokes on brain functions. <i>Brain Injury</i> , 2019, 33, 349-354.	0.6	12
93	Transcallosal Fiber Disruption and its Relationship with Corresponding Gray Matter Alteration in Patients with Diffuse Axonal Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1106-1114.	1.7	6
94	Clinically Historical and Prospective Associations Between Learning Disorders and Concussion in Young Adult Athletes. <i>American Journal of Lifestyle Medicine</i> , 2020, 14, 187-193.	0.8	3

#	ARTICLE	IF	CITATIONS
95	Examining the "reading the mind in the eyes test" as an assessment of subtle differences in affective theory of mind after concussion. <i>Clinical Neuropsychologist</i> , 2020, 34, 296-317.	1.5	9
96	Widespread White Matter Aberrations Are Associated with Phonemic Verbal Fluency Impairment in Chronic Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 975-981.	1.7	7
97	Juvenile mild traumatic brain injury elicits distinct spatiotemporal astrocyte responses. <i>Glia</i> , 2020, 68, 528-542.	2.5	21
98	Examining Microstructural White Matter Differences between Children with Typical and Those with Delayed Recovery Two Weeks Post-Concussion. <i>Journal of Neurotrauma</i> , 2020, 37, 1300-1305.	1.7	4
99	A Prospective Study of Childhood Predictors of Traumatic Brain Injuries Sustained in Adolescence and Adulthood. <i>Canadian Journal of Psychiatry</i> , 2020, 65, 36-45.	0.9	8
100	Post-acute white matter microstructure predicts post-acute and chronic post-concussive symptom severity following mild traumatic brain injury in children. <i>NeuroImage: Clinical</i> , 2020, 25, 102106.	1.4	21
101	Sex Differences in Cerebral Blood Flow Associated with a History of Concussion. <i>Journal of Neurotrauma</i> , 2020, 37, 1197-1203.	1.7	36
102	Cerebrovascular Reactivity After Sport Concussion: From Acute Injury to 1 Year After Medical Clearance. <i>Frontiers in Neurology</i> , 2020, 11, 558.	1.1	15
103	The evolution of white matter microstructural changes after mild traumatic brain injury: A longitudinal DTI and NODDI study. <i>Science Advances</i> , 2020, 6, eaaz6892.	4.7	106
104	Functional magnetic resonance imaging study of working memory several years after pediatric concussion. <i>Brain Injury</i> , 2020, 34, 895-904.	0.6	4
105	Microstructure of the Corpus Callosum Long after Pediatric Concussion. <i>Journal of the International Neuropsychological Society</i> , 2020, 26, 763-775.	1.2	6
106	Diffusion Tensor Imaging Indicators of White Matter Injury Are Correlated with a Multimodal Electroencephalography-Based Biomarker in Slow Recovering, Concussed Collegiate Athletes. <i>Journal of Neurotrauma</i> , 2020, 37, 2093-2101.	1.7	13
107	A Biomarker for Concussion: The Good, the Bad, and the Unknown. <i>Journal of Applied Laboratory Medicine</i> , 2020, 5, 170-182.	0.6	3
108	Use of Medical Cannabis to Treat Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 1904-1917.	1.7	13
109	Investigating White Matter Tract Microstructural Changes at Six to Twelve Weeks following Mild Traumatic Brain Injury: A Combined Diffusion Tensor Imaging and Neurite Orientation Dispersion and Density Imaging Study. <i>Journal of Neurotrauma</i> , 2021, 38, 2255-2263.	1.7	8
110	The clinical utility of proton magnetic resonance spectroscopy in traumatic brain injury: recommendations from the ENIGMA MRS working group. <i>Brain Imaging and Behavior</i> , 2021, 15, 504-525.	1.1	32
111	White Matter Hyperintensities Are Not Related to Symptomatology or Cognitive Functioning in Service Members with a Remote History of Traumatic Brain Injury. <i>Neurotrauma Reports</i> , 2021, 2, 245-254.	0.5	3
112	White Matter Alteration Following SWAT Explosive Breaching Training and the Moderating Effect of a Neck Collar Device: A DTI and NODDI Study. <i>Military Medicine</i> , 2021, 186, 1183-1190.	0.4	4

#	ARTICLE	IF	CITATIONS
114	Neuroimaging Biomarkers of New-Onset Psychiatric Disorders Following Traumatic Brain Injury. <i>Biological Psychiatry</i> , 2022, 91, 459-469.	0.7	10
115	Changes in brain metabolites and resting-state connectivity in collegiate basketball players as a function of play time. <i>Journal of Neuroimaging</i> , 2021, 31, 1146-1155.	1.0	1
116	Integrating multi-omics with neuroimaging and behavior: A preliminary model of dysfunction in football athletes. <i>NeuroImage Reports</i> , 2021, 1, 100032.	0.5	3
117	Linking Brain and Behavioral Measures in the Medical-Legal Context. , 2015, , 295-312.		1
119	Neuropathology of Mild Traumatic Brain Injury: Correlation to Neurocognitive and Neurobehavioral Findings. , 2015, , 462-479.		14
120	The Interface of Neuroimaging with Neuropsychological Findings in Traumatic Brain Injury. , 2016, , 1-14.		0
121	Traumatic Brain Injury: Models and Mechanisms of Traumatic Brain Injury. , 2019, , 283-313.		0
124	Effective connectivity in the default mode network after paediatric traumatic brain injury. <i>European Journal of Neuroscience</i> , 2022, 55, 318-336.	1.2	3
125	Methodology Matters: Comparing Approaches for Defining Persistent Symptoms after Mild Traumatic Brain Injury. <i>Neurotrauma Reports</i> , 2021, 2, 603-617.	0.5	4
129	Diffusion Tensor Imaging Reveals Elevated Diffusivity of White Matter Microstructure that Is Independently Associated with Long-Term Outcome after Mild Traumatic Brain Injury: A TRACK-TBI Study. <i>Journal of Neurotrauma</i> , 2022, 39, 1318-1328.	1.7	23
130	Memory retrieval brain-behavior disconnection in mild traumatic brain injury: A magnetoencephalography and diffusion tensor imaging study. <i>Human Brain Mapping</i> , 2022, 43, 5296-5309.	1.9	3
131	Identifying mild traumatic brain injury using measures of frequency-specified networks. <i>Journal of Neural Engineering</i> , 2022, 19, 056033.	1.8	2
132	Long-Term Changes in Brain Connectivity Reflected in Quantitative Electrophysiology of Symptomatic Former National Football League Players. <i>Journal of Neurotrauma</i> , 2023, 40, 309-317.	1.7	6
133	Longitudinal changes in grey matter and cognitive performance over four years of healthy aging. <i>NeuroImage Reports</i> , 2022, 2, 100140.	0.5	0
137	Military-related mild traumatic brain injury: clinical characteristics, advanced neuroimaging, and molecular mechanisms. <i>Translational Psychiatry</i> , 2023, 13, .	2.4	0