Frederick A Zeiler

List of Publications by Citations

204 papers	2,790 citations	28 h-index	42 g-index
214 ext. papers	3,857 ext. citations	3.6 avg, IF	5.71 L-index

#	Paper	IF	Citations
204	The ketamine effect on ICP in traumatic brain injury. *Neurocritical Care*, **2014**, 21, 163-73	3.3	156
203	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. *Lancet Neurology, The*, **2019**, 18, 923-934	24.1	139
202	Serial Sampling of Serum Protein Biomarkers for Monitoring Human Traumatic Brain Injury Dynamics: A Systematic Review. *Frontiers in Neurology*, **2017**, 8, 300	4.1	112
201	Monitoring the Neuroinflammatory Response Following Acute Brain Injury. *Frontiers in Neurology*, **2017**, 8, 351	4.1	66
200	Gamma Knife radiosurgery for sellar and parasellar meningiomas: a multicenter study. *Journal of Neurosurgery*, **2014**, 120, 1268-77	3.2	60
199	NMDA antagonists for refractory seizures. *Neurocritical Care*, **2014**, 20, 502-13	3.3	57
198	Twenty-Five Years of Intracranial Pressure Monitoring After Severe Traumatic Brain Injury: A Retrospective, Single-Center Analysis. *Neurosurgery*, **2019**, 85, E75-E82	3.2	53
197	Critical Thresholds of Intracranial Pressure-Derived Continuous Cerebrovascular Reactivity Indices for Outcome Prediction in Noncraniectomized Patients with Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 1107-1115	5.4	53
196	Ultrasound assessment of optic nerve sheath diameter in healthy volunteers. *Journal of Critical Care*, **2016**, 31, 168-71	4	51
195	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. *Journal of Clinical Epidemiology*, **2020**, 122, 95-107	5.7	47
194	Electroconvulsive therapy for refractory status epilepticus: A systematic review. *Seizure: the Journal of the British Epilepsy Association*, **2016**, 35, 23-32	3.2	46
193	The ketamine effect on intracranial pressure in nontraumatic neurological illness. *Journal of Critical Care*, **2014**, 29, 1096-106	4	45
192	Continuous Autoregulatory Indices Derived from Multi-Modal Monitoring: Each One Is Not Like the Other. *Journal of Neurotrauma*, **2017**, 34, 3070-3080	5.4	44
191	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part II: A Scoping Review of Continuous Methods. *Journal of Neurotrauma*, **2017**, 34, 3224-3237	5.4	44
190	Cerebrospinal Fluid and Microdialysis Cytokines in Severe Traumatic Brain Injury: A Scoping Systematic Review. *Frontiers in Neurology*, **2017**, 8, 331	4.1	41
189	Univariate comparison of performance of different cerebrovascular reactivity indices for outcome association in adult TBI: a CENTER-TBI study. *Acta Neurochirurgica*, **2019**, 161, 1217-1227	3	37
188	A systematic review of cerebral microdialysis and outcomes in TBI: relationships to patient functional outcome, neurophysiologic measures, and tissue outcome. *Acta Neurochirurgica*, **2017**, 159, 2245-2273	3	36

187	Validation of Pressure Reactivity and Pulse Amplitude Indices against the Lower Limit of Autoregulation, Part I: Experimental Intracranial Hypertension. *Journal of Neurotrauma*, **2018**, 35, 2803-2811	5.4	35
186	A unique model for ultrasound assessment of optic nerve sheath diameter. *Canadian Journal of Neurological Sciences*, **2013**, 40, 225-9	1	35
185	Modern inhalational anesthetics for refractory status epilepticus. *Canadian Journal of Neurological Sciences*, **2015**, 42, 106-15	1	33
184	VNS for refractory status epilepticus. *Epilepsy Research*, **2015**, 112, 100-13	3	33
183	Transcranial Magnetic Stimulation for Status Epilepticus. *Epilepsy Research & Treatment*, **2015**, 2015, 678074		33
182	Critical Appraisal of the Milwaukee Protocol for Rabies: This Failed Approach Should Be Abandoned. *Canadian Journal of Neurological Sciences*, **2016**, 43, 44-51	1	32
181	Validation of Intracranial Pressure-Derived Cerebrovascular Reactivity Indices against the Lower Limit of Autoregulation, Part II: Experimental Model of Arterial Hypotension. *Journal of Neurotrauma*, **2018**, 35, 2812-2819	5.4	31
180	Comparison of Performance of Different Optimal Cerebral Perfusion Pressure Parameters for Outcome Prediction in Adult Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. *Journal of Neurotrauma*, **2019**,	5.4	31
179	A Description of a New Continuous Physiological Index in Traumatic Brain Injury Using the Correlation between Pulse Amplitude of Intracranial Pressure and Cerebral Perfusion Pressure. *Journal of Neurotrauma*, **2018**, 35, 963-974	5.4	31
178	Application of robotic transcranial Doppler for extended duration recording in moderate/severe traumatic brain injury: first experiences. *The Ultrasound Journal*, **2018**, 10, 16		30
177	Cerebrovascular reactivity is not associated with therapeutic intensity in adult traumatic brain injury: a CENTER-TBI analysis. *Acta Neurochirurgica*, **2019**, 161, 1955-1964	3	28
176	Influence of Blood-Brain Barrier Integrity on Brain Protein Biomarker Clearance in Severe Traumatic Brain Injury: A Longitudinal Prospective Study. *Journal of Neurotrauma*, **2020**, 37, 1381-1391	5.4	27
175	Transcranial Doppler Systolic Flow Index and ICP-Derived Cerebrovascular Reactivity Indices in Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 314-322	5.4	27
174	Continuous cerebrovascular reactivity monitoring in moderate/severe traumatic brain injury: a narrative review of advances in neurocritical care. *British Journal of Anaesthesia*, **2020**,	5.4	26
173	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part I: A Scoping Review of Intermittent/Semi-Intermittent Methods. *Journal of Neurotrauma*, **2017**, 34, 3207-3223	5.4	26
172	Apolipoprotein E4 Polymorphism and Outcomes from Traumatic Brain Injury: A Living Systematic Review and Meta-Analysis. *Journal of Neurotrauma*, **2021**, 38, 1124-1136	5.4	26
171	Early Use of the NMDA Receptor Antagonist Ketamine in Refractory and Superrefractory Status Epilepticus. *Critical Care Research and Practice*, **2015**, 2015, 831260	1.5	25
170	Association between Cerebrovascular Reactivity Monitoring and Mortality Is Preserved When Adjusting for Baseline Admission Characteristics in Adult Traumatic Brain Injury: A CENTER-TBI Study. *Journal of Neurotrauma*, **2020**, 37, 1233-1241	5.4	25

169	Patient-specific ICP Epidemiologic Thresholds in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. *Journal of Neurosurgical Anesthesiology*, **2021**, 33, 28-38	3	25
168	The Use of Milrinone in Patients with Delayed Cerebral Ischemia Following Subarachnoid Hemorrhage: A Systematic Review. *Canadian Journal of Neurological Sciences*, **2017**, 44, 152-160	1	24
167	Therapeutic Hypothermia for Refractory Status Epilepticus. *Canadian Journal of Neurological Sciences*, **2015**, 42, 221-9	1	24
166	Genetic Influences on Patient-Oriented Outcomes in Traumatic Brain Injury: A Living Systematic Review of Non-Apolipoprotein E Single-Nucleotide Polymorphisms. *Journal of Neurotrauma*, **2021**, 38, 1107-1123	5.4	24
165	Autonomic Dysfunction and Associations with Functional and Neurophysiological Outcome in Moderate/Severe Traumatic Brain Injury: A Scoping Review. *Journal of Neurotrauma*, **2019**, 36, 1491-1504	5.4	23
164	Compensatory-Reserve-Weighted Intracranial Pressure and Its Association with Outcome After Traumatic Brain Injury. *Neurocritical Care*, **2018**, 28, 212-220	3.3	22
163	Intracranial and Extracranial Injury Burden as Drivers of Impaired Cerebrovascular Reactivity in Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 1569-1577	5.4	21
162	The Cerebrovascular Response to Ketamine: A Systematic Review of the Animal and Human Literature. *Journal of Neurosurgical Anesthesiology*, **2016**, 28, 123-40	3	21
161	Genetic drivers of cerebral blood flow dysfunction in TBI: a speculative synthesis. *Nature Reviews Neurology*, **2019**, 15, 25-39	15	21
160	Predicting Outcome in Subarachnoid Hemorrhage (SAH) Utilizing the Full Outline of UnResponsiveness (FOUR) Score. *Neurocritical Care*, **2017**, 27, 381-391	3.3	20
159	The CAnadian High-Resolution Traumatic Brain Injury (CAHR-TBI) Research Collaborative. *Canadian Journal of Neurological Sciences*, **2020**, 47, 551-556	1	19
158	Cerebrospinal Fluid and Microdialysis Cytokines in Aneurysmal Subarachnoid Hemorrhage: A Scoping Systematic Review. *Frontiers in Neurology*, **2017**, 8, 379	4.1	19
157	Gamma knife radiosurgery for large vestibular schwannomas: a Canadian experience. *Canadian Journal of Neurological Sciences*, **2013**, 40, 342-7	1	19
156	ICP Versus Laser Doppler Cerebrovascular Reactivity Indices to Assess Brain Autoregulatory Capacity. *Neurocritical Care*, **2018**, 28, 194-202	3.3	18
155	Brain Tissue Oxygen and Cerebrovascular Reactivity in Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Exploratory Analysis of Insult Burden. *Journal of Neurotrauma*, **2020**, 37, 1854-1863	5.4	17
154	Estimating Pressure Reactivity Using Noninvasive Doppler-Based Systolic Flow Index. *Journal of Neurotrauma*, **2018**, 35, 1559-1568	5.4	17
153	Non-Invasive Pressure Reactivity Index Using Doppler Systolic Flow Parameters: A Pilot Analysis. *Journal of Neurotrauma*, **2019**, 36, 713-720	5.4	17
152	Continuous Near-infrared Spectroscopy Monitoring in Adult Traumatic Brain Injury: A Systematic Review. *Journal of Neurosurgical Anesthesiology*, **2020**, 32, 288-299	3	17

151	A unique method for estimating the reliability learning curve of optic nerve sheath diameter ultrasound measurement. *The Ultrasound Journal*, **2016**, 8, 9		16
150	Analgesia in Neurocritical Care: An International Survey and Practice Audit. *Critical Care Medicine*, **2016**, 44, 973-80	1.4	16
149	Ketamine for medically refractory status epilepticus after elective aneurysm clipping. *Neurocritical Care*, **2013**, 19, 119-24	3.3	16
148	A Unique Model for ONSD Part II: Inter/Intra-operator Variability. *Canadian Journal of Neurological Sciences*, **2014**, 41, 430-5	1	16
147	Gamma Knife radiosurgery of cavernous sinus meningiomas: an institutional review. *Canadian Journal of Neurological Sciences*, **2012**, 39, 757-62	1	16
146	The Full Outline of UnResponsiveness (FOUR) Score and Its Use in Outcome Prediction: A Scoping Systematic Review of the Adult Literature. *Neurocritical Care*, **2019**, 31, 162-175	3.3	16
145	The Limited Impact of Current Therapeutic Interventions on Cerebrovascular Reactivity in Traumatic Brain Injury: A Narrative Overview. *Neurocritical Care*, **2021**, 34, 325-335	3.3	16
144	Improving Prediction of Favourable Outcome After 6 Months in Patients with Severe Traumatic Brain Injury Using Physiological Cerebral Parameters in a Multivariable Logistic Regression Model. *Neurocritical Care*, **2020**, 33, 542-551	3.3	15
143	Gamma knife in the treatment of pituitary adenomas: results of a single center. *Canadian Journal of Neurological Sciences*, **2013**, 40, 546-52	1	15
142	Relationship Between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute TBI Patients: an Exploratory Analysis. *Neurocritical Care*, **2020**, 32, 373-382	3.3	15
141	Cerebrovascular Autoregulation Monitoring in the Management of Adult Severe Traumatic Brain Injury: A Delphi Consensus of Clinicians. *Neurocritical Care*, **2021**, 34, 731-738	3.3	15
140	Optimal cerebral perfusion pressure via transcranial Doppler in TBI: application of robotic technology. *Acta Neurochirurgica*, **2018**, 160, 2149-2157	3	15
139	Lidocaine for status epilepticus in adults. *Seizure: the Journal of the British Epilepsy Association*, **2015**, 31, 41-8	3.2	14
138	Magnesium sulfate for non-eclamptic status epilepticus. *Seizure: the Journal of the British Epilepsy Association*, **2015**, 32, 100-8	3.2	14
137	Impact of duration and magnitude of raised intracranial pressure on outcome after severe traumatic brain injury: A CENTER-TBI high-resolution group study. *PLoS ONE*, **2020**, 15, e0243427	3.7	14
136	Impaired cerebral compensatory reserve is associated with admission imaging characteristics of diffuse insult in traumatic brain injury. *Acta Neurochirurgica*, **2018**, 160, 2277-2287	3	14
135	Relationship Between Brain Pulsatility and Cerebral Perfusion Pressure: Replicated Validation Using Different Drivers of CPP Change. *Neurocritical Care*, **2017**, 27, 392-400	3.3	13
134	Critical thresholds for intracranial pressure vary over time in non-craniectomised traumatic brain injury patients. *Acta Neurochirurgica*, **2018**, 160, 1315-1324	3	13

133	Cerebral autoregulation monitoring in acute traumatic brain injury: what is the evidence?. *Minerva Anestesiologica*, **2017**, 83, 844-857	1.9	12
132	Gamma knife for cerebral arteriovenous malformations at a single centre. *Canadian Journal of Neurological Sciences*, **2011**, 38, 851-7	1	12
131	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. *Journal of Neurotrauma*, **2021**, 38, 235-251	5.4	12
130	Gamma Knife Radiosurgery for Pediatric Arteriovenous Malformations: A Canadian Experience. *Canadian Journal of Neurological Sciences*, **2016**, 43, 82-6	1	12
129	Compensatory-reserve-weighted intracranial pressure versus intracranial pressure for outcome association in adult traumatic brain injury: a CENTER-TBI validation study. *Acta Neurochirurgica*, **2019**, 161, 1275-1284	3	11
128	Statistical Cerebrovascular Reactivity Signal Properties after Secondary Decompressive Craniectomy in Traumatic Brain Injury: A CENTER-TBI Pilot Analysis. *Journal of Neurotrauma*, **2020**, 37, 1306-1314	5.4	11
127	Relationship between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute Traumatic Brain Injury Patients: A CENTER-TBI Study. *Journal of Neurotrauma*, **2020**, 37, 1556-1565	5.4	11
126	Estimating the accuracy of optic nerve sheath diameter measurement using a pocket-sized, handheld ultrasound on a simulation model. *The Ultrasound Journal*, **2016**, 8, 18		11
125	Lidocaine for Status Epilepticus in Pediatrics. *Canadian Journal of Neurological Sciences*, **2015**, 42, 414-26	1	11
124	Variation in the practice of tracheal intubation in Europe after traumatic brain injury: a prospective cohort study. *Anaesthesia*, **2020**, 75, 45-53	6.6	11
123	New Optic Nerve Sonography Quality Criteria in the Diagnostic Evaluation of Traumatic Brain Injury. *Critical Care Research and Practice*, **2018**, 2018, 3589762	1.5	11
122	Plasmapheresis for refractory status epilepticus Part II: A scoping systematic review of the pediatric literature. *Seizure: the Journal of the British Epilepsy Association*, **2016**, 43, 61-68	3.2	10
121	Plasmapheresis for refractory status epilepticus, part I: A scoping systematic review of the adult literature. *Seizure: the Journal of the British Epilepsy Association*, **2016**, 43, 14-22	3.2	10
120	THAM for control of ICP. *Neurocritical Care*, **2014**, 21, 332-44	3.3	10
119	The Impact of Vasopressor and Sedative Agents on Cerebrovascular Reactivity and Compensatory Reserve in Traumatic Brain Injury: An Exploratory Analysis. *Neurotrauma Reports*, **2020**, 1, 157-168	1.6	10
118	Observations on the Cerebral Effects of Refractory Intracranial Hypertension After Severe Traumatic Brain Injury. *Neurocritical Care*, **2020**, 32, 437-447	3.3	10
117	Intravenous immunoglobulins for refractory status epilepticus, part I: A scoping systematic review of the adult literature. *Seizure: the Journal of the British Epilepsy Association*, **2017**, 45, 172-180	3.2	9
116	Subthalamic nucleus deep brain stimulation: an invaluable role for MER. *Canadian Journal of Neurological Sciences*, **2013**, 40, 572-5	1	9

115	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. *British Journal of Anaesthesia*, **2020**, 125, 505-517	5.4	9
114	Effect of Intrawound Vancomycin on Surgical Site Infections in Nonspinal Neurosurgical Procedures: A Systematic Review and Meta-Analysis. *World Neurosurgery*, **2019**, 123, 409-417.e7	2.1	9
113	Comparison of high versus low frequency cerebral physiology for cerebrovascular reactivity assessment in traumatic brain injury: a multi-center pilot study. *Journal of Clinical Monitoring and Computing*, **2020**, 34, 971-994	2	9
112	Analysis of Normal High-Frequency Intracranial Pressure Values and Treatment Threshold in Neurocritical Care Patients: Insights into Normal Values and a Potential Treatment Threshold. *JAMA Neurology*, **2020**, 77, 1150-1158	17.2	8
111	Diffuse Intracranial Injury Patterns Are Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. *Journal of Neurotrauma*, **2020**, 37, 1597-1608	5.4	8
110	Dural Venous Sinus Thrombosis in Patients Presenting with Blunt Traumatic Brain Injuries and Skull Fractures: A Systematic Review and Meta-Analysis. *World Neurosurgery*, **2020**, 142, 495-505.e3	2.1	8
109	The Impact of Mean Arterial Pressure on Functional Outcome Post Trauma-Related Acute Spinal Cord Injury: A Scoping Systematic Review of the Human Literature. *Journal of Intensive Care Medicine*, **2018**, 33, 3-15	3.3	8
108	Sodium Bicarbonate for Control of ICP: A Systematic Review. *Journal of Neurosurgical Anesthesiology*, **2018**, 30, 2-9	3	8
107	The Impact of Intravenous Lidocaine on ICP in Neurological Illness: A Systematic Review. *Critical Care Research and Practice*, **2015**, 2015, 485802	1.5	8
106	Near-Infrared Cerebrovascular Reactivity for Monitoring Cerebral Autoregulation and Predicting Outcomes in Moderate to Severe Traumatic Brain Injury: Proposal for a Pilot Observational Study. *JMIR Research Protocols*, **2020**, 9, e18740	2	8
105	The impact of hypertonic saline on cerebrovascular reactivity and compensatory reserve in traumatic brain injury: an exploratory analysis. *Acta Neurochirurgica*, **2020**, 162, 2683-2693	3	8
104	Continuous and entirely non-invasive method for cerebrovascular reactivity assessment: technique and implications. *Journal of Clinical Monitoring and Computing*, **2021**, 35, 307-315	2	8
103	Social Determinants of Traumatic Brain Injury in the North American Indigenous Population: A Review. *Canadian Journal of Neurological Sciences*, **2017**, 44, 525-531	1	7
102	Thrombin hemostatic matrix leading to acute cerebral edema and sterile fluid collection formation post-tumor resection: two cases. *Acta Neurochirurgica*, **2015**, 157, 513-6	3	7
101	Ketamine for status epilepticus: canadian physician views and time to push forward. *Canadian Journal of Neurological Sciences*, **2015**, 42, 132-4	1	7
100	Indomethacin for control of ICP. *Neurocritical Care*, **2015**, 22, 437-49	3.3	7
99	Artifact removal from neurophysiological signals: impact on intracranial and arterial pressure monitoring in traumatic brain injury. *Journal of Neurosurgery*, **2019**, 132, 1952-1960	3.2	7
98	Association between Physiological Signal Complexity and Outcomes in Moderate and Severe Traumatic Brain Injury: A CENTER-TBI Exploratory Analysis of Multi-Scale Entropy. *Journal of Neurotrauma*, **2021**, 38, 272-282	5.4	7

97	Continuous Thermal Diffusion-Based Cerebral Blood Flow Monitoring in Adult Traumatic Brain Injury: A Scoping Systematic Review. *Journal of Neurotrauma*, **2019**, 36, 1707-1723	5.4	7
96	The Role of Intraoperative MRI in Awake Neurosurgical Procedures: A Systematic Review. *Frontiers in Oncology*, **2018**, 8, 434	5.3	7
95	Vascularized rotational temporal bone flap for repair of anterior skull base defects: a novel operative technique. *Journal of Neurosurgery*, **2015**, 123, 1312-5	3.2	6
94	Intracranial Pressure Threshold Heuristics in Traumatic Brain Injury: One, None, Many!. *Neurocritical Care*, **2020**, 32, 672-676	3.3	6
93	Midline Shift is Unrelated to Subjective Pupillary Reactivity Assessment on Admission in Moderate and Severe Traumatic Brain Injury. *Neurocritical Care*, **2018**, 29, 203-213	3.3	6
92	The Impact of Mean Arterial Pressure on Functional Outcome Post-Acute Spinal Cord Injury: A Scoping Systematic Review of Animal Models. *Journal of Neurotrauma*, **2017**, 34, 2583-2594	5.4	6
91	Early Angiographic Resolution of Cerebral Vasospasm with High Dose Intravenous Milrinone Therapy. *Case Reports in Critical Care*, **2015**, 2015, 164597	1	6
90	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. *Journal of Neurotrauma*, **2021**, 38, 3315-3331	5.4	6
89	Cerebrovascular Response to Propofol, Fentanyl, and Midazolam in Moderate/Severe Traumatic Brain Injury: A Scoping Systematic Review of the Human and Animal Literature. *Neurotrauma Reports*, **2020**, 1, 100-112	1.6	6
88	The cerebrovascular response to norepinephrine: A scoping systematic review of the animal and human literature. *Pharmacology Research and Perspectives*, **2020**, 8, e00655	3.1	6
87	Burst Suppression for ICP Control. *Journal of Intensive Care Medicine*, **2017**, 32, 130-139	3.3	5
86	Alternative continuous intracranial pressure-derived cerebrovascular reactivity metrics in traumatic brain injury: a scoping overview. *Acta Neurochirurgica*, **2020**, 162, 1647-1662	3	5
85	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. *Neurorehabilitation and Neural Repair*, **2020**, 34, 814-830	4.7	5
84	Estimation of pulsatile cerebral arterial blood volume based on transcranial doppler signals. *Medical Engineering and Physics*, **2019**, 74, 23-32	2.4	5
83	Changes in cardiac autonomic activity during intracranial pressure plateau waves in patients with traumatic brain injury. *Clinical Autonomic Research*, **2019**, 29, 123-126	4.3	5
82	The Full Outline of UnResponsiveness (FOUR) Score and Its Use in Outcome Prediction: A Scoping Review of the Pediatric Literature. *Journal of Child Neurology*, **2019**, 34, 189-198	2.5	5
81	Anesthesia for Awake Craniotomy for Brain Tumors in an Intraoperative MRI Suite: Challenges and Evidence. *Frontiers in Oncology*, **2018**, 8, 519	5.3	5
80	Evaluation of the relationship between slow-waves of intracranial pressure, mean arterial pressure and brain tissue oxygen in TBI: a CENTER-TBI exploratory analysis. *Journal of Clinical Monitoring and Computing*, **2021**, 35, 711-722	2	4

79	Early Implementation of THAM for ICP Control: Therapeutic Hypothermia Avoidance and Reduction in Hypertonics/Hyperosmotics. *Case Reports in Critical Care*, **2014**, 2014, 139342	1	4
78	Plaque-type blue nevus with meningeal melanocytomas. *Canadian Journal of Neurological Sciences*, **2012**, 39, 117-20	1	4
77	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. *Journal of Critical Care*, **2020**, 59, 6-15	4	4
76	Prediction of Global Functional Outcome and Post-Concussive Symptoms after Mild Traumatic Brain Injury: External Validation of Prognostic Models in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. *Journal of Neurotrauma*, **2021**, 38, 196-209	5.4	4
75	Antithrombotic choice in blunt cerebrovascular injuries: Experience at a tertiary trauma center, systematic review, and meta-analysis. *Journal of Trauma and Acute Care Surgery*, **2021**, 91, e1-e12	3.3	4
74	Early diagnosis of mortality using admission CT perfusion in severe traumatic brain injury patients (ACT-TBI): protocol for a prospective cohort study. *BMJ Open*, **2021**, 11, e047305	3	4
73	Sedation and cerebrovascular reactivity in traumatic brain injury: another potential avenue for personalized approaches in neurocritical care?. *Acta Neurochirurgica*, **2021**, 163, 1383-1389	3	4
72	Levocarnitine induced seizures in patients on valproic acid: A negative systematic review. *Seizure: the Journal of the British Epilepsy Association*, **2016**, 36, 36-39	3.2	3
71	Influence of mild-moderate hypocapnia on intracranial pressure slow waves activity in TBI. *Acta Neurochirurgica*, **2020**, 162, 345-356	3	3
70	Cerebrovascular Response to Phenylephrine in Traumatic Brain Injury: A Scoping Systematic Review of the Human and Animal Literature. *Neurotrauma Reports*, **2020**, 1, 46-62	1.6	3
69	Descriptive analysis of low versus elevated intracranial pressure on cerebral physiology in adult traumatic brain injury: a CENTER-TBI exploratory study. *Acta Neurochirurgica*, **2020**, 162, 2695-2706	3	3
68	Genetic Variation and Impact on Outcome in Traumatic Brain Injury: an Overview of Recent Discoveries. *Current Neurology and Neuroscience Reports*, **2021**, 21, 19	6.6	3
67	Systemic Markers of Injury and Injury Response Are Not Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A Collaborative European Neurotrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. *Journal of Neurotrauma*, **2021**, 38, 870-878	5.4	3
66	Utility of Transcranial Doppler in Moderate and Severe Traumatic Brain Injury: A Narrative Review of Cerebral Physiologic Metrics. *Journal of Neurotrauma*, **2021**, 38, 2206-2220	5.4	3
65	Nail-gun Injury through the Spinal Canal. *Canadian Journal of Neurological Sciences*, **2015**, 42, 203-4	1	2
64	Mechanism of death after early decompressive craniectomy in traumatic brain injury. *Trauma*, **2018**, 20, 175-182	0.3	2
63	Gamma knife radiosurgery for high grade glial neoplasms: a Canadian experience. *Canadian Journal of Neurological Sciences*, **2013**, 40, 783-9	1	2
62	Near Infrared Spectroscopy for High-Temporal Resolution Cerebral Physiome Characterization in TBI: A Narrative Review of Techniques, Applications, and Future Directions. *Frontiers in Pharmacology*, **2021**, 12, 719501	5.6	2

61	Hypertonic Saline for Moderate Traumatic Brain Injury: A Scoping Review of Impact on Neurological Deterioration. *Neurotrauma Reports*, **2020**, 1, 253-260	1.6	2
60	Management of arterial partial pressure of carbon dioxide in the first week after traumatic brain injury: results from the CENTER-TBI study. *Intensive Care Medicine*, **2021**, 47, 961-973	14.5	2
59	Frequency of fatigue and its changes in the first 6 months after traumatic brain injury: results from the CENTER-TBI study. *Journal of Neurology*, **2021**, 268, 61-73	5.5	2
58	The Effect of Temperature Increases on Brain Tissue Oxygen Tension in Patients with Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury Substudy. *Therapeutic Hypothermia and Temperature Management*, **2021**, 11, 122-131	1.3	2
57	Lower Limit of Reactivity Assessed with PRx in an Experimental Setting. *Acta Neurochirurgica Supplementum*, **2021**, 131, 275-278	1.7	2
56	Cerebral Perfusion Pressure Targets in Traumatic Brain Injury: The "Fuzzy" Spots Above Optimal Cerebral Perfusion Pressure. *Canadian Journal of Neurological Sciences*, **2018**, 45, 721-722	1	2
55	Association Between Processed Electroencephalogram-Based Objectively Measured Depth of Sedation and Cerebrovascular Response: A Systematic Scoping Overview of the Human and Animal Literature. *Frontiers in Neurology*, **2021**, 12, 692207	4.1	2
54	Serum metabolome associated with severity of acute traumatic brain injury.. *Nature Communications*, **2022**, 13, 2545	17.4	2
53	Secondary vein of Galen malformation with hydrocephalus: Treated with combined endovascular and endoscopic approach. *Interdisciplinary Neurosurgery: Advanced Techniques and Case Management*, **2015**, 2, 164-167	0.5	1
52	A New Inexpensive Simulation Model for Ultrasound Assessment of Optic Nerve Sheath Diameter. *Canadian Journal of Neurological Sciences*, **2020**, 47, 543-548	1	1
51	Response: microdialysis as a useful tool to detect cerebral metabolic crises. *Acta Neurochirurgica*, **2018**, 160, 921-922	3	1
50	A Promising New Noninvasive Measure of Cerebrovascular Reactivity: Not Yet Cerebral Autoregulation. *Neurocritical Care*, **2018**, 29, 317-318	3.3	1
49	Decompressive craniectomy: contralateral lesions and metabolic abnormalities. *Canadian Journal of Neurological Sciences*, **2014**, 41, 350-6	1	1
48	Novel MRI changes after gamma knife for hypothalamic hamartoma in a child. *Canadian Journal of Neurological Sciences*, **2012**, 39, 541-3	1	1
47	Intracranial Pressure-Derived Cerebrovascular Reactivity Indices, Chronological Age, and Biological Sex in Traumatic Brain Injury: A Scoping Review.. *Neurotrauma Reports*, **2022**, 3, 44-56	1.6	1
46	Modeling Brain-Heart Crosstalk Information in Patients with Traumatic Brain Injury. *Neurocritical Care*, **2021**, 1	3.3	1
45	Awake Craniotomy Under 3-Tesla Intraoperative Magnetic Resonance Imaging: A Retrospective Descriptive Report and Canadian Institutional Experience. *Journal of Neurosurgical Anesthesiology*, **2022**, 34, e46-e51	3	1
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7 Practical Considerations for Continuous Time-Domain Cerebrovascular Reactivity Indices in Traumatic Brain Injury: Do Scaling Errors in Parent Signals Matter?. *Frontiers in Neurology*, **2022**, 13, 857617 41

6 Impact of duration and magnitude of raised intracranial pressure on outcome after severe traumatic brain injury: A CENTER-TBI high-resolution group study **2020**, 15, e0243427

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