

Rahul Raj

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

1,424
citations

21
h-index

33
g-index

112
ext. papers

1,974
ext. citations

4.3
avg, IF

4.53
L-index

#	Paper	IF	Citations
99	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. <i>Lancet Neurology, The</i> , 2019 , 18, 923-934	24.1	139
98	Arterial blood gas tensions after resuscitation from out-of-hospital cardiac arrest: associations with long-term neurologic outcome. <i>Critical Care Medicine</i> , 2014 , 42, 1463-70	1.4	112
97	Predicting outcome in traumatic brain injury: development of a novel computerized tomography classification system (Helsinki computerized tomography score). <i>Neurosurgery</i> , 2014 , 75, 632-46; discussion 646-7	3.2	77
96	Hyperoxemia and long-term outcome after traumatic brain injury. <i>Critical Care</i> , 2013 , 17, R177	10.8	54
95	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. <i>Journal of Clinical Epidemiology</i> , 2020 , 122, 95-107	5.7	47
94	Evaluation of novel computerized tomography scoring systems in human traumatic brain injury: An observational, multicenter study. <i>PLoS Medicine</i> , 2017 , 14, e1002368	11.6	45
93	Acute alcohol intoxication and long-term outcome in patients with traumatic brain injury. <i>Journal of Neurotrauma</i> , 2015 , 32, 95-100	5.4	41
92	Mortality in Elderly Patients Operated for an Acute Subdural Hematoma: A Surgical Case Series. <i>World Neurosurgery</i> , 2016 , 88, 592-597	2.1	38
91	Alcohol and mortality after moderate to severe traumatic brain injury: a meta-analysis of observational studies. <i>Journal of Neurosurgery</i> , 2016 , 124, 1684-92	3.2	37
90	Predicting six-month mortality of patients with traumatic brain injury: usefulness of common intensive care severity scores. <i>Critical Care</i> , 2014 , 18, R60	10.8	37
89	Factors correlating with delayed trauma center admission following traumatic brain injury. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2013 , 21, 67	3.6	32
88	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. <i>Journal of Neurotrauma</i> , 2019 , 36, 1505-1517	5.4	31
87	Glioblastoma survival is improving despite increasing incidence rates: a nationwide study between 2000 and 2013 in Finland. <i>Neuro-Oncology</i> , 2019 , 21, 370-379	1	31
86	Machine learning-based dynamic mortality prediction after traumatic brain injury. <i>Scientific Reports</i> , 2019 , 9, 17672	4.9	30
85	Risk of hospitalization with neurodegenerative disease after moderate-to-severe traumatic brain injury in the working-age population: A retrospective cohort study using the Finnish national health registries. <i>PLoS Medicine</i> , 2017 , 14, e1002316	11.6	29
84	Treatment of Ruptured Intracranial Aneurysms Using the Woven EndoBridge Device: A Two-Center Experience. <i>World Neurosurgery</i> , 2019 , 123, e709-e716	2.1	27
83	Association between Cerebrovascular Reactivity Monitoring and Mortality Is Preserved When Adjusting for Baseline Admission Characteristics in Adult Traumatic Brain Injury: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , 2020 , 37, 1233-1241	5.4	25

82	External validation of the international mission for prognosis and analysis of clinical trials model and the role of markers of coagulation. <i>Neurosurgery</i> , 2013 , 73, 305-11; discussion 311	3.2	24
81	Predicting outcome after traumatic brain injury: development of prognostic scores based on the IMPACT and the APACHE II. <i>Journal of Neurotrauma</i> , 2014 , 31, 1721-32	5.4	23
80	Outcomes and healthcare-associated costs one year after intensive care-treated cardiac arrest. <i>Resuscitation</i> , 2018 , 131, 128-134	4	22
79	Early Moderate Hyperoxemia Does Not Predict Outcome After Aneurysmal Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2016 , 78, 540-5	3.2	21
78	A Systematic Review of the Usefulness of Glial Fibrillary Acidic Protein for Predicting Acute Intracranial Lesions following Head Trauma. <i>Frontiers in Neurology</i> , 2017 , 8, 652	4.1	20
77	Validation of the revised injury severity classification score in patients with moderate-to-severe traumatic brain injury. <i>Injury</i> , 2015 , 46, 86-93	2.5	20
76	Costs, outcome and cost-effectiveness of neurocritical care: a multi-center observational study. <i>Critical Care</i> , 2018 , 22, 225	10.8	20
75	Praying Sitting Position for Pineal Region Surgery: An Efficient Variant of a Classic Position in Neurosurgery. <i>World Neurosurgery</i> , 2018 , 113, e604-e611	2.1	19
74	Early hyperoxemia is not associated with cardiac arrest outcome. <i>Resuscitation</i> , 2019 , 140, 185-193	4	17
73	Transient Cardiac Arrest Induced by Adenosine: A Tool for Contralateral Clipping of Internal Carotid Artery-Ophthalmic Segment Aneurysms. <i>World Neurosurgery</i> , 2015 , 84, 1933-40	2.1	17
72	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. <i>Journal of Neurotrauma</i> , 2020 , 37, 1854-1863	5.4	17
71	Flow diversion treatment for acutely ruptured aneurysms. <i>Journal of NeuroInterventional Surgery</i> , 2020 , 12, 283-288	7.8	17
70	Common intensive care scoring systems do not outperform age and glasgow coma scale score in predicting mid-term mortality in patients with spontaneous intracerebral hemorrhage treated in the intensive care unit. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2017 , 25, 102	3.6	15
69	Temporal Trends in Healthcare Costs and Outcome Following ICU Admission After Traumatic Brain Injury. <i>Critical Care Medicine</i> , 2018 , 46, e302-e309	1.4	15
68	Pineal Parenchymal Tumors of Intermediate Differentiation: A long-Term Follow-Up Study in Helsinki Neurosurgery. <i>World Neurosurgery</i> , 2019 , 122, e729-e739	2.1	14
67	Temporal trends in cardiac arrest incidence and outcome in Finnish intensive care units from 2003 to 2013. <i>Intensive Care Medicine</i> , 2014 , 40, 1853-61	14.5	13
66	Extent of Resection and Long-Term Survival of Pineal Region Tumors in Helsinki Neurosurgery. <i>World Neurosurgery</i> , 2019 , 131, e379-e391	2.1	12
65	Effect of intensive exercise in early adult life on telomere length in later life in men. <i>Journal of Sports Science and Medicine</i> , 2015 , 14, 239-45	2.7	12

64	Statistical Cerebrovascular Reactivity Signal Properties after Secondary Decompressive Craniectomy in Traumatic Brain Injury: A CENTER-TBI Pilot Analysis. <i>Journal of Neurotrauma</i> , 2020 , 37, 1306-1314	5.4	11
63	Relationship between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute Traumatic Brain Injury Patients: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , 2020 , 37, 1556-1565	5.4	11
62	Intensive care of traumatic brain injury and aneurysmal subarachnoid hemorrhage in Helsinki during the Covid-19 pandemic. <i>Acta Neurochirurgica</i> , 2020 , 162, 2715-2724	3	11
61	Outcome Prediction after Moderate and Severe Traumatic Brain Injury: External Validation of Two Established Prognostic Models in 1742 European Patients. <i>Journal of Neurotrauma</i> , 2021 , 38, 1377-1388	5.4	11
60	Spontaneous Intracerebral Hemorrhage. <i>Stroke</i> , 2019 , 50, 2336-2343	6.7	10
59	The microsurgical management of benign pineal cysts: Helsinki experience in 60 cases. <i>Surgical Neurology International</i> , 2019 , 10, 103	1	10
58	Association of extracerebral organ failure with 1-year survival and healthcare-associated costs after cardiac arrest: an observational database study. <i>Critical Care</i> , 2019 , 23, 67	10.8	9
57	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. <i>Journal of Neurotrauma</i> , 2020 , 37, 2069-2080	5.4	9
56	Validation of prognostic models in intensive care unit-treated pediatric traumatic brain injury patients. <i>Journal of Neurosurgery: Pediatrics</i> , 2019 , 1-8	2.1	9
55	Venous air embolisms and sitting position in Helsinki pineal region surgery. <i>Surgical Neurology International</i> , 2018 , 9, 160	1	9
54	Multiple meningiomas in two male-to-female transsexual patients with hormone replacement therapy: A report of two cases and a brief literature review. <i>Surgical Neurology International</i> , 2018 , 9, 109	1	9
53	Association Between High Arterial Oxygen Tension and Long-Term Survival After Spontaneous Intracerebral Hemorrhage. <i>Critical Care Medicine</i> , 2016 , 44, 180-7	1.4	9
52	Comparison of high versus low frequency cerebral physiology for cerebrovascular reactivity assessment in traumatic brain injury: a multi-center pilot study. <i>Journal of Clinical Monitoring and Computing</i> , 2020 , 34, 971-994	2	9
51	Temporal changes in outcome following intensive care unit treatment after traumatic brain injury: a 17-year experience in a large academic neurosurgical centre. <i>Acta Neurochirurgica</i> , 2018 , 160, 2107-2115	3.5	9
50	Diffuse Intracranial Injury Patterns Are Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. <i>Journal of Neurotrauma</i> , 2020 , 37, 1597-1608	5.4	8
49	Spontaneous Spinal Epidural Hematoma: A Surgical Case Series of Ten Patients. <i>World Neurosurgery</i> , 2016 , 93, 55-9	2.1	7
48	Transition of a Clinical Practice to Use of Subdural Drains after Burr Hole Evacuation of Chronic Subdural Hematoma: The Helsinki Experience. <i>World Neurosurgery</i> , 2019 , 129, e614-e626	2.1	7
47	Simple training tricks for mastering and taming bypass procedures in neurosurgery. <i>Surgical Neurology International</i> , 2017 , 8, 295	1	7

46	Primary decompressive craniectomy is associated with worse neurological outcome in patients with traumatic brain injury requiring acute surgery. <i>Surgical Neurology International</i> , 2017 , 8, 141	1	7
45	External validation of the Norwegian survival prediction model in trauma after major trauma in Southern Finland. <i>Acta Anaesthesiologica Scandinavica</i> , 2016 , 60, 48-58	1.9	7
44	Traumatic brain injury patient volume and mortality in neurosurgical intensive care units: a Finnish nationwide study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2016 , 24, 133	3.6	6
43	Long-Term Causes of Death and Excess Mortality After Carotid Artery Ligation. <i>World Neurosurgery</i> , 2016 , 90, 116-122	2.1	6
42	Outcome and rational management of civilian gunshot injuries to the brain-retrospective analysis of patients treated at the Helsinki University Hospital from 2000 to 2012. <i>Acta Neurochirurgica</i> , 2019 , 161, 1285-1295	3	5
41	Alternative continuous intracranial pressure-derived cerebrovascular reactivity metrics in traumatic brain injury: a scoping overview. <i>Acta Neurochirurgica</i> , 2020 , 162, 1647-1662	3	5
40	A5 segment aneurysm of the anterior cerebral artery, imbedded into the body of the corpus callosum: A case report. <i>Surgical Neurology International</i> , 2017 , 8, 18	1	5
39	One-Year Outcome After Aneurysmal Subarachnoid Hemorrhage in Elderly Patients. <i>World Neurosurgery</i> , 2020 , 143, e334-e343	2.1	5
38	Evaluation of the relationship between slow-waves of intracranial pressure, mean arterial pressure and brain tissue oxygen in TBI: a CENTER-TBI exploratory analysis. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 711-722	2	4
37	Disparities in glioblastoma survival by case volume: a nationwide observational study. <i>Journal of Neuro-Oncology</i> , 2020 , 147, 361-370	4.8	4
36	Posttraumatic epilepsy in intensive care unit-treated pediatric traumatic brain injury patients. <i>Epilepsia</i> , 2020 , 61, 693-701	6.4	4
35	Unconscious trauma patients: outcome differences between southern Finland and Germany-lesson learned from trauma-registry comparisons. <i>European Journal of Trauma and Emergency Surgery</i> , 2016 , 42, 445-451	2.3	4
34	Delayed Migration of Fractured K-wire Causing Vertebral Artery Invagination After Anterior Atlantoaxial Fixation: A Case Report. <i>World Neurosurgery</i> , 2016 , 88, 695.e5-695.e10	2.1	4
33	One burr-hole craniotomy: Supracerebellar infratentorial paramedian approach in Helsinki Neurosurgery. <i>Surgical Neurology International</i> , 2018 , 9, 162	1	4
32	Admission Levels of Interleukin 10 and Amyloid β -40 Improve the Outcome Prediction Performance of the Helsinki Computed Tomography Score in Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020 , 11, 549527	4.1	4
31	Occurrence and prognostic effect of cervical spine injuries and cervical artery injuries with concomitant severe head injury. <i>Acta Neurochirurgica</i> , 2020 , 162, 1445-1453	3	3
30	Flow diversion for internal carotid artery aneurysms: Impact of complex aneurysm features and overview of outcome. <i>Clinical Neurology and Neurosurgery</i> , 2020 , 193, 105782	2	3
29	Mortality of older patients with dementia after surgery for chronic subdural hematoma: a nationwide study. <i>Age and Ageing</i> , 2021 , 50, 815-821	3	3

28	Finnish study of intraoperative irrigation versus drain alone after evacuation of chronic subdural haematoma (FINISH): a study protocol for a multicentre randomised controlled trial. <i>BMJ Open</i> , 2020 , 10, e038275	3	2
27	Increased need for interventions predicts mortality in the critically ill. <i>Acta Anaesthesiologica Scandinavica</i> , 2016 , 60, 1415-1424	1.9	2
26	The Association Between Arterial Oxygen Level and Outcome in Neurocritically Ill Patients is not Affected by Blood Pressure. <i>Neurocritical Care</i> , 2021 , 34, 413-422	3.3	2
25	Incidence of surgery for chronic subdural hematoma in Finland during 1997-2014: a nationwide study. <i>Journal of Neurosurgery</i> , 2021 , 1-8	3.2	2
24	Neurointensive care results and risk factors for unfavorable outcome in aneurysmatic SAH: a comparison of two age groups. <i>Acta Neurochirurgica</i> , 2021 , 163, 1469-1478	3	2
23	Early surgery for superficial supratentorial spontaneous intracerebral hemorrhage: a Finnish Intensive Care Consortium study. <i>Acta Neurochirurgica</i> , 2020 , 162, 3153-3160	3	1
22	Prognostic performance of computerized tomography scoring systems in civilian penetrating traumatic brain injury: an observational study. <i>Acta Neurochirurgica</i> , 2019 , 161, 2467-2478	3	1
21	In Reply: Early Moderate Hyperoxemia does not Predict Outcome After Aneurysmal Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2017 , 80, E253	3.2	1
20	Acute ischemic stroke in a university hospital intensive care unit - one-year costs and outcome.. <i>Acta Anaesthesiologica Scandinavica</i> , 2022 ,	1.9	1
19	Psychotropic Medication After Intensive Care Unit-Treated Pediatric Traumatic Brain Injury. <i>Pediatric Neurology</i> , 2020 , 112, 64-70	2.9	1
18	De novo giant A2 aneurysm following anterior communicating artery occlusion. <i>Surgical Neurology International</i> , 2015 , 6, S560-5	1	1
17	How do we identify the crashing traumatic brain injury patient - the neurosurgeon's view. <i>Current Opinion in Critical Care</i> , 2021 , 27, 87-94	3.5	1
16	Brain Temperature Influences Intracranial Pressure and Cerebral Perfusion Pressure After Traumatic Brain Injury: A CENTER-TBI Study. <i>Neurocritical Care</i> , 2021 , 1	3.3	1
15	Successful endovascular coil embolisation of a ruptured V1-segment vertebral artery dissecting aneurysm making a fistula with the adjacent vein. <i>BMJ Case Reports</i> , 2019 , 12,	0.9	1
14	Traumatic Microbleeds in Mild Traumatic Brain Injury Are Not Associated with Delayed Return to Work or Persisting Post-Concussion Symptoms. <i>Journal of Neurotrauma</i> , 2021 , 38, 2400-2406	5.4	1
13	One-year costs of intensive care in pediatric patients with traumatic brain injury. <i>Journal of Neurosurgery: Pediatrics</i> , 2020 , 1-8	2.1	1
12	Endoscopic third ventriculostomy for adults with hydrocephalus: creating a prognostic model for success: protocol for a retrospective multicentre study (Nordic ETV).. <i>BMJ Open</i> , 2022 , 12, e055570	3	1
11	One-year healthcare costs of patients with spontaneous intracerebral hemorrhage treated in the intensive care unit. <i>European Stroke Journal</i> , 239698732210947	5.6	1

10	Spontaneous angiogram-negative subarachnoid hemorrhage: a retrospective single center cohort study. <i>Acta Neurochirurgica</i> , 2021 , 1	3	○
9	Variation in severity-adjusted resource use and outcome in intensive care units. <i>Intensive Care Medicine</i> , 2021 , 1	14.5	○
8	Trends in mortality after intensive care of patients with traumatic brain injury in Finland from 2003 to 2019: a Finnish Intensive Care Consortium study. <i>Acta Neurochirurgica</i> , 2021 , 1	3	○
7	Intensive care-treated cardiac arrest: a retrospective study on the impact of extended age on mortality, neurological outcome, received treatments and healthcare-associated costs. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2021 , 29, 103	3.6	○
6	Psychotropic medication use among patients with a traumatic brain injury treated in the intensive care unit: a multi-centre observational study. <i>Acta Neurochirurgica</i> , 2021 , 163, 2909-2917	3	○
5	Trends in Mortality after Intensive Care of Patients with Aneurysmal Subarachnoid Hemorrhage in Finland in 2003-2019: A Finnish Intensive Care Consortium study.. <i>Neurocritical Care</i> , 2021 , 1	3.3	○
4	In Reply to the Letter to the Editor "Spontaneous Spinal Extradural Hematoma: A Rare Neurosurgical Emergency". <i>World Neurosurgery</i> , 2017 , 98, 852	2.1	
3	The incidence and outcome of in-ICU cardiac arrest. <i>Intensive Care Medicine</i> , 2015 , 41, 383	14.5	
2	Aneurysm-Mimicking Hemangioblastoma Presenting With Spontaneous Acute Subdural Hematoma. <i>JAMA Neurology</i> , 2021 , 78, 755-756	17.2	
1	In reply: Concomitant cranio-spinal trauma: additional risk from a cerebrovascular injury. <i>Acta Neurochirurgica</i> , 2021 , 163, 47	3	