

Marek Czosnyka

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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.

594
papers

24,461
citations

78
h-index

131
g-index

624
ext. papers

28,662
ext. citations

3.8
avg, IF

6.81
L-index

#	Paper	IF	Citations
594	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology, The</i> , 2017 , 16, 987-1048	24.1	851
593	Continuous assessment of cerebral autoregulation with near-infrared spectroscopy in adults after subarachnoid hemorrhage. <i>Stroke</i> , 2010 , 41, 1963-8	6.7	643
592	Trial of Decompressive Craniectomy for Traumatic Intracranial Hypertension. <i>New England Journal of Medicine</i> , 2016 , 375, 1119-30	59.2	631
591	Continuous assessment of the cerebral vasomotor reactivity in head injury. <i>Neurosurgery</i> , 1997 , 41, 11-7; discussion 17-9	3.2	591
590	Continuous monitoring of cerebrovascular pressure reactivity allows determination of optimal cerebral perfusion pressure in patients with traumatic brain injury. <i>Critical Care Medicine</i> , 2002 , 30, 733-8 ^{1.4}	1.4	519
589	Monitoring and interpretation of intracranial pressure. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2004 , 75, 813-21	5.5	487
588	Monitoring of cerebral autoregulation in head-injured patients. <i>Stroke</i> , 1996 , 27, 1829-34	6.7	382
587	Effects of acute treatment with pravastatin on cerebral vasospasm, autoregulation, and delayed ischemic deficits after aneurysmal subarachnoid hemorrhage: a phase II randomized placebo-controlled trial. <i>Stroke</i> , 2005 , 36, 1627-32	6.7	364
586	Continuous determination of optimal cerebral perfusion pressure in traumatic brain injury. <i>Critical Care Medicine</i> , 2012 , 40, 2456-63	1.4	348
585	Cerebral extracellular chemistry and outcome following traumatic brain injury: a microdialysis study of 223 patients. <i>Brain</i> , 2011 , 134, 484-94	11.2	278
584	Real-time continuous monitoring of cerebral blood flow autoregulation using near-infrared spectroscopy in patients undergoing cardiopulmonary bypass. <i>Stroke</i> , 2010 , 41, 1951-6	6.7	259
583	Monitoring of cerebrovascular autoregulation: facts, myths, and missing links. <i>Neurocritical Care</i> , 2009 , 10, 373-86	3.3	247
582	Impact of intracranial pressure and cerebral perfusion pressure on severe disability and mortality after head injury. <i>Neurocritical Care</i> , 2006 , 4, 8-13	3.3	237
581	Critical thresholds for cerebrovascular reactivity after traumatic brain injury. <i>Neurocritical Care</i> , 2012 , 16, 258-66	3.3	235
580	Continuous time-domain analysis of cerebrovascular autoregulation using near-infrared spectroscopy. <i>Stroke</i> , 2007 , 38, 2818-25	6.7	224
579	Cerebral autoregulation following head injury. <i>Journal of Neurosurgery</i> , 2001 , 95, 756-63	3.2	223
578	Consensus statement from the 2014 International Microdialysis Forum. <i>Intensive Care Medicine</i> , 2015 , 41, 1517-28	14.5	197

577	Consensus summary statement of the International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care : a statement for healthcare professionals from the Neurocritical Care Society and the European Society of Intensive Care Medicine. <i>Intensive Care Medicine</i> , 2014 , 40, 1189-209	14.5	190
576	Pattern of white matter regional cerebral blood flow and autoregulation in normal pressure hydrocephalus. <i>Brain</i> , 2004 , 127, 965-72	11.2	181
575	Cerebrovascular reactivity measured by near-infrared spectroscopy. <i>Stroke</i> , 2009 , 40, 1820-6	6.7	177
574	Impairment of cerebral autoregulation predicts delayed cerebral ischemia after subarachnoid hemorrhage: a prospective observational study. <i>Stroke</i> , 2012 , 43, 3230-7	6.7	174
573	Transcranial Doppler pulsatility index: what it is and what it isn't. <i>Neurocritical Care</i> , 2012 , 17, 58-66	3.3	169
572	Cerebral perfusion pressure in head-injured patients: a noninvasive assessment using transcranial Doppler ultrasonography. <i>Journal of Neurosurgery</i> , 1998 , 88, 802-8	3.2	162
571	Predictive value of Glasgow Coma Scale after brain trauma: change in trend over the past ten years. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2004 , 75, 161-2	5.5	159
570	Assessment of cerebrovascular autoregulation in head-injured patients: a validation study. <i>Stroke</i> , 2003 , 34, 2404-9	6.7	154
569	Effect of decompressive craniectomy on intracranial pressure and cerebrospinal compensation following traumatic brain injury. <i>Journal of Neurosurgery</i> , 2008 , 108, 66-73	3.2	152
568	Near-infrared spectroscopy can monitor dynamic cerebral autoregulation in adults. <i>Neurocritical Care</i> , 2009 , 10, 122-8	3.3	144
567	The pathophysiology and treatment of delayed cerebral ischaemia following subarachnoid haemorrhage. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 1343-53	5.5	143
566	Optic nerve sheath diameter measured sonographically as non-invasive estimator of intracranial pressure: a systematic review and meta-analysis. <i>Intensive Care Medicine</i> , 2018 , 44, 1284-1294	14.5	142
565	Cerebrospinal fluid dynamics. <i>Physiological Measurement</i> , 2004 , 25, R51-76	2.9	142
564	Age, intracranial pressure, autoregulation, and outcome after brain trauma. <i>Journal of Neurosurgery</i> , 2005 , 102, 450-4	3.2	140
563	Bifrontal decompressive craniectomy in the management of posttraumatic intracranial hypertension. <i>British Journal of Neurosurgery</i> , 2001 , 15, 500-7	1	140
562	Consensus summary statement of the International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care: a statement for healthcare professionals from the Neurocritical Care Society and the European Society of Intensive Care Medicine. <i>Neurocritical Care</i> , 2014 , 21 Suppl 2, S1-26	3.3	139
561	Relationship between transcranial Doppler-determined pulsatility index and cerebrovascular resistance: an experimental study. <i>Journal of Neurosurgery</i> , 1996 , 84, 79-84	3.2	139
560	Continuous monitoring of cerebrovascular pressure reactivity in patients with head injury. <i>Neurosurgical Focus</i> , 2008 , 25, E2	4.2	138

559	Clinical relevance of cerebral autoregulation following subarachnoid haemorrhage. <i>Nature Reviews Neurology</i> , 2013 , 9, 152-63	15	131
558	Specific patterns of cognitive impairment in patients with idiopathic normal pressure hydrocephalus and Alzheimer's disease: a pilot study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1999 , 67, 723-32	5.5	128
557	Intracranial hypertension: what additional information can be derived from ICP waveform after head injury?. <i>Acta Neurochirurgica</i> , 2004 , 146, 131-41	3	124
556	Significance of intracranial pressure waveform analysis after head injury. <i>Acta Neurochirurgica</i> , 1996 , 138, 531-41; discussion 541-2	3	121
555	Dynamic cerebral autoregulation in acute ischemic stroke assessed from spontaneous blood pressure fluctuations. <i>Stroke</i> , 2005 , 36, 1684-9	6.7	119
554	Near-infrared spectroscopy use in patients with head injury. <i>Journal of Neurosurgery</i> , 1995 , 83, 963-70	3.2	116
553	Predictive value of initial computerized tomography scan, intracranial pressure, and state of autoregulation in patients with traumatic brain injury. <i>Journal of Neurosurgery</i> , 2006 , 104, 731-7	3.2	114
552	Regulation of the cerebral circulation: bedside assessment and clinical implications. <i>Critical Care</i> , 2016 , 20, 129	10.8	114
551	Cerebral autoregulation in carotid artery occlusive disease assessed from spontaneous blood pressure fluctuations by the correlation coefficient index. <i>Stroke</i> , 2003 , 34, 2138-44	6.7	112
550	Normal pressure hydrocephalus and cerebral blood flow: a PET study of baseline values. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 17-23	7.3	112
549	Noninvasive monitoring of cerebrovascular reactivity with near infrared spectroscopy in head-injured patients. <i>Journal of Neurotrauma</i> , 2010 , 27, 1951-8	5.4	111
548	Ultrasound non-invasive measurement of intracranial pressure in neurointensive care: A prospective observational study. <i>PLoS Medicine</i> , 2017 , 14, e1002356	11.6	109
547	Impaired autoregulation of cerebral blood flow during rewarming from hypothermic cardiopulmonary bypass and its potential association with stroke. <i>Anesthesia and Analgesia</i> , 2010 , 110, 321-8	3.9	109
546	Non-invasive Monitoring of Intracranial Pressure Using Transcranial Doppler Ultrasonography: Is It Possible?. <i>Neurocritical Care</i> , 2016 , 25, 473-491	3.3	108
545	Optic nerve sheath diameter on computed tomography is correlated with simultaneously measured intracranial pressure in patients with severe traumatic brain injury. <i>Intensive Care Medicine</i> , 2014 , 40, 1267-74	14.5	107
544	Reliability of the blood flow velocity pulsatility index for assessment of intracranial and cerebral perfusion pressures in head-injured patients. <i>Neurosurgery</i> , 2012 , 71, 853-61	3.2	106
543	Contribution of mathematical modelling to the interpretation of bedside tests of cerebrovascular autoregulation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1997 , 63, 721-31	5.5	105
542	Assessment of cerebral autoregulation using carotid artery compression. <i>Stroke</i> , 1996 , 27, 2197-203	6.7	104

541	A phase-contrast MRI study of physiologic cerebral venous flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1208-15	7.3	103
540	Dynamic cerebral autoregulation associates with infarct size and outcome after ischemic stroke. <i>Acta Neurologica Scandinavica</i> , 2012 , 125, 156-62	3.8	100
539	Critical thresholds for transcranial Doppler indices of cerebral autoregulation in traumatic brain injury. <i>Neurocritical Care</i> , 2011 , 14, 188-93	3.3	100
538	Continuous assessment of cerebral autoregulation in subarachnoid hemorrhage. <i>Anesthesia and Analgesia</i> , 2004 , 98, 1133-1139	3.9	100
537	Monitoring of spinal cord perfusion pressure in acute spinal cord injury: initial findings of the injured spinal cord pressure evaluation study*. <i>Critical Care Medicine</i> , 2014 , 42, 646-55	1.4	99
536	Continuous monitoring of cerebrovascular pressure reactivity after traumatic brain injury in children. <i>Pediatrics</i> , 2009 , 124, e1205-12	7.4	95
535	Cerebrovascular reactivity during hypothermia and rewarming. <i>British Journal of Anaesthesia</i> , 2007 , 99, 237-44	5.4	95
534	Adaptive noninvasive assessment of intracranial pressure and cerebral autoregulation. <i>Stroke</i> , 2003 , 34, 84-9	6.7	95
533	Laboratory testing of three intracranial pressure microtransducers: technical report. <i>Neurosurgery</i> , 1996 , 38, 219-24	3.2	95
532	Testing of cerebrospinal compensatory reserve in shunted and non-shunted patients: a guide to interpretation based on an observational study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1996 , 60, 549-58	5.5	95
531	Evaluation of the transient hyperemic response test in head-injured patients. <i>Journal of Neurosurgery</i> , 1997 , 86, 773-8	3.2	94
530	Assessment of cerebrospinal fluid outflow resistance. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 719-35	3.1	93
529	Posture-related overdrainage: comparison of the performance of 10 hydrocephalus shunts in vitro. <i>Neurosurgery</i> , 1998 , 42, 327-33; discussion 333-4	3.2	93
528	Continuous monitoring of cerebrovascular autoregulation: a validation study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2002 , 72, 583-6	5.5	92
527	Positron Emission Tomographic Cerebral Perfusion Disturbances and Transcranial Doppler Findings among Patients with Neurological Deterioration after Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2003 , 52, 1017-1024	3.2	91
526	Can cerebrovascular reactivity be measured with near-infrared spectroscopy?. <i>Stroke</i> , 1995 , 26, 2285-92	6.7	91
525	Patient-specific thresholds of intracranial pressure in severe traumatic brain injury. <i>Journal of Neurosurgery</i> , 2014 , 120, 893-900	3.2	87
524	Expansion duroplasty improves intraspinal pressure, spinal cord perfusion pressure, and vascular pressure reactivity index in patients with traumatic spinal cord injury: injured spinal cord pressure evaluation study. <i>Journal of Neurotrauma</i> , 2015 , 32, 865-74	5.4	86

523	The relationship between cerebral blood flow autoregulation and cerebrovascular pressure reactivity after traumatic brain injury. <i>Neurosurgery</i> , 2012 , 71, 652-60; discussion 660-1	3.2	86
522	Tissue oxygen reactivity and cerebral autoregulation after severe traumatic brain injury. <i>Critical Care Medicine</i> , 2003 , 31, 267-71	1.4	84
521	Management of raised intracranial pressure. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1993 , 56, 845-58	5.5	84
520	Consensus statement from the International Consensus Meeting on the Role of Decompressive Craniectomy in the Management of Traumatic Brain Injury : Consensus statement. <i>Acta Neurochirurgica</i> , 2019 , 161, 1261-1274	3	82
519	Age dependence of cerebrospinal pressure-volume compensation in patients with hydrocephalus. <i>Journal of Neurosurgery</i> , 2001 , 94, 482-6	3.2	79
518	The Continuous Assessment of Cerebrovascular Reactivity: A Validation of the Method in Healthy Volunteers. <i>Anesthesia and Analgesia</i> , 1999 , 89, 944	3.9	79
517	Monitoring of cerebral autoregulation. <i>Neurocritical Care</i> , 2014 , 21 Suppl 2, S95-102	3.3	78
516	Intracranial pressure: more than a number. <i>Neurosurgical Focus</i> , 2007 , 22, E10	4.2	78
515	Non-invasive assessment of intracranial pressure. <i>Acta Neurologica Scandinavica</i> , 2016 , 134, 4-21	3.8	77
514	ICM+: software for on-line analysis of bedside monitoring data after severe head trauma. <i>Acta Neurochirurgica Supplementum</i> , 2005 , 95, 43-9	1.7	77
513	Optimal Cerebral Perfusion Pressure Management at Bedside: A Single-Center Pilot Study. <i>Neurocritical Care</i> , 2015 , 23, 92-102	3.3	75
512	Hemodynamic characterization of intracranial pressure plateau waves in head-injury patients. <i>Journal of Neurosurgery</i> , 1999 , 91, 11-9	3.2	73
511	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. <i>Critical Care Medicine</i> , 2017 , 45, 1464-1471	1.4	72
510	Effect of carotid endarterectomy or stenting on impairment of dynamic cerebral autoregulation. <i>Stroke</i> , 2004 , 35, 1381-7	6.7	72
509	Monitoring cerebral autoregulation after head injury. Which component of transcranial Doppler flow velocity is optimal?. <i>Neurocritical Care</i> , 2012 , 17, 211-8	3.3	71
508	Critical closing pressure in cerebrovascular circulation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1999 , 66, 606-11	5.5	71
507	Clinical evaluation of near-infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. <i>Stroke</i> , 1997 , 28, 331-8	6.7	71
506	Review article: the surgical approach to the management of increased intracranial pressure after traumatic brain injury. <i>Anesthesia and Analgesia</i> , 2010 , 111, 736-48	3.9	70

505	Impaired cerebral autoregulation: measurement and application to stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 520-531	5.5	69
504	Decompressive craniectomy following traumatic brain injury: developing the evidence base. <i>British Journal of Neurosurgery</i> , 2016 , 30, 246-50	1	69
503	Continuous monitoring of cerebrovascular reactivity using pulse waveform of intracranial pressure. <i>Neurocritical Care</i> , 2012 , 17, 67-76	3.3	68
502	Cerebral autoregulation after subarachnoid hemorrhage: comparison of three methods. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 449-56	7.3	67
501	Computer supported multimodal bed-side monitoring for neuro intensive care. <i>Journal of Clinical Monitoring and Computing</i> , 1994 , 11, 223-32		67
500	Brain ultrasonography: methodology, basic and advanced principles and clinical applications. A narrative review. <i>Intensive Care Medicine</i> , 2019 , 45, 913-927	14.5	66
499	Model-based noninvasive estimation of intracranial pressure from cerebral blood flow velocity and arterial pressure. <i>Science Translational Medicine</i> , 2012 , 4, 129ra44	17.5	66
498	Computerized infusion test compared to steady pressure constant infusion test in measurement of resistance to CSF outflow. <i>Acta Neurochirurgica</i> , 1992 , 119, 12-6	3	66
497	Cerebral Perfusion Pressure Targets Individualized to Pressure-Reactivity Index in Moderate to Severe Traumatic Brain Injury: A Systematic Review. <i>Journal of Neurotrauma</i> , 2017 , 34, 963-970	5.4	65
496	What shapes pulse amplitude of intracranial pressure?. <i>Journal of Neurotrauma</i> , 2010 , 27, 317-24	5.4	65
495	Nonlinear assessment of cerebral autoregulation from spontaneous blood pressure and cerebral blood flow fluctuations. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2008 , 8, 60-71		65
494	Relationship between cerebrovascular dysautoregulation and arterial blood pressure in the premature infant. <i>Journal of Perinatology</i> , 2011 , 31, 722-9	3.1	64
493	Interaction between brain chemistry and physiology after traumatic brain injury: impact of autoregulation and microdialysis catheter location. <i>Journal of Neurotrauma</i> , 2011 , 28, 849-60	5.4	64
492	A computer system for the identification of the cerebrospinal compensatory model. <i>Acta Neurochirurgica</i> , 1990 , 105, 112-6	3	64
491	Secondary decline of cerebral autoregulation is associated with worse outcome after intracerebral hemorrhage. <i>Intensive Care Medicine</i> , 2010 , 36, 264-71	14.5	63
490	Cerebral autoregulation in patients with obstructive sleep apnea syndrome during wakefulness. <i>European Journal of Neurology</i> , 2009 , 16, 386-91	6	62
489	Predictors of Outcome With Cerebral Autoregulation Monitoring: A Systematic Review and Meta-Analysis. <i>Critical Care Medicine</i> , 2017 , 45, 695-704	1.4	61
488	Critical closing pressure determined with a model of cerebrovascular impedance. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 235-43	7.3	61

487	Index of cerebrospinal compensatory reserve in hydrocephalus. <i>Neurosurgery</i> , 2009 , 64, 494-501; discussion 501-2	3.2	61
486	Responses of posttraumatic pericontusional cerebral blood flow and blood volume to an increase in cerebral perfusion pressure. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 23, 1371-7	7.3	61
485	Preliminary experience of the estimation of cerebral perfusion pressure using transcranial Doppler ultrasonography. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2001 , 70, 198-204	5.5	61
484	An assessment of dynamic autoregulation from spontaneous fluctuations of cerebral blood flow velocity: a comparison of two models, index of autoregulation and mean flow index. <i>Anesthesia and Analgesia</i> , 2008 , 106, 234-9, table of contents	3.9	60
483	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. <i>Brain</i> , 2012 , 135, 2399-408	11.2	59
482	"Optimal cerebral perfusion pressure" in poor grade patients after subarachnoid hemorrhage. <i>Neurocritical Care</i> , 2010 , 13, 17-23	3.3	59
481	Value of overnight monitoring of intracranial pressure in hydrocephalic children. <i>Pediatric Neurosurgery</i> , 2008 , 44, 269-79	0.9	59
480	Comparison of frequency and time domain methods of assessment of cerebral autoregulation in traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 248-56	7.3	56
479	Transcranial Doppler: a stethoscope for the brain-neurocritical care use. <i>Journal of Neuroscience Research</i> , 2018 , 96, 720-730	4.4	56
478	Changes in cerebral blood flow during cerebrospinal fluid pressure manipulation in patients with normal pressure hydrocephalus: a methodological study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 579-87	7.3	56
477	Effects of pneumoperitoneum and Trendelenburg position on intracranial pressure assessed using different non-invasive methods. <i>British Journal of Anaesthesia</i> , 2016 , 117, 783-791	5.4	56
476	Monitoring and interpretation of intracranial pressure after head injury. <i>Acta Neurochirurgica Supplementum</i> , 2006 , 96, 114-8	1.7	56
475	Predictive value of initial clinical status, intracranial pressure and transcranial Doppler pulsatility after subarachnoid haemorrhage. <i>Acta Neurochirurgica</i> , 2007 , 149, 575-83	3	55
474	Asymmetry of pressure autoregulation after traumatic brain injury. <i>Journal of Neurosurgery</i> , 2003 , 99, 991-8	3.2	55
473	Cerebrovascular pressure reactivity is related to global cerebral oxygen metabolism after head injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003 , 74, 765-70	5.5	55
472	Early effects of mannitol in patients with head injuries assessed using bedside multimodality monitoring. <i>Neurosurgery</i> , 1996 , 39, 714-20; discussion 720-1	3.2	55
471	The International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care: a list of recommendations and additional conclusions: a statement for healthcare professionals from the Neurocritical Care Society and the European Society of Intensive Care Medicine. <i>Neurocritical Care</i> , 2014 , 21 Suppl 2, S282-96	3.3	54
470	Renovascular reactivity measured by near-infrared spectroscopy. <i>Journal of Applied Physiology</i> , 2012 , 113, 307-14	3.7	54

469	Cerebral dysautoregulation and the risk of ischemic events in occlusive carotid artery disease. <i>Journal of Neurology</i> , 2008 , 255, 1182-9	5.5	54
468	Computerised transient hyperaemic response test--a method for the assessment of cerebral autoregulation. <i>Ultrasound in Medicine and Biology</i> , 1995 , 21, 599-611	3.5	54
467	Experimental aspects of cerebrospinal hemodynamics: the relationship between blood flow velocity waveform and cerebral autoregulation. <i>Neurosurgery</i> , 1992 , 31, 705-9; discussion 709-10	3.2	54
466	Continuous monitoring of cerebrovascular pressure-reactivity in head injury. <i>Acta Neurochirurgica Supplementum</i> , 1998 , 71, 74-7	1.7	54
465	Feasibility of individualised severe traumatic brain injury management using an automated assessment of optimal cerebral perfusion pressure: the COGiTATE phase II study protocol. <i>BMJ Open</i> , 2019 , 9, e030727	3	54
464	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. <i>Journal of Neurotrauma</i> , 2016 , 33, 792-802	5.4	53
463	The International Multidisciplinary Consensus Conference on Multimodality Monitoring in Neurocritical Care: evidentiary tables: a statement for healthcare professionals from the Neurocritical Care Society and the European Society of Intensive Care Medicine. <i>Neurocritical Care</i> , 2014 , 21 Suppl 2, S297-361	3.3	53
462	The hyperaemic response to a transient reduction in cerebral perfusion pressure. A modelling study. <i>Acta Neurochirurgica</i> , 1992 , 115, 90-7	3	53
461	Twenty-Five Years of Intracranial Pressure Monitoring After Severe Traumatic Brain Injury: A Retrospective, Single-Center Analysis. <i>Neurosurgery</i> , 2019 , 85, E75-E82	3.2	53
460	Critical Thresholds of Intracranial Pressure-Derived Continuous Cerebrovascular Reactivity Indices for Outcome Prediction in Noncraniectomized Patients with Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018 , 35, 1107-1115	5.4	53
459	Further understanding of cerebral autoregulation at the bedside: possible implications for future therapy. <i>Expert Review of Neurotherapeutics</i> , 2015 , 15, 169-85	4.3	52
458	Elastance correlates with outcome after endoscopic third ventriculostomy in adults with hydrocephalus caused by primary aqueductal stenosis. <i>Neurosurgery</i> , 2002 , 50, 70-7	3.2	52
457	Cerebral autoregulation among patients with symptoms of hydrocephalus. <i>Neurosurgery</i> , 2002 , 50, 526-32; discussion 532-3	3.2	52
456	Analysis of intracranial pressure waveform during infusion test. <i>Acta Neurochirurgica</i> , 1988 , 93, 140-5	3	50
455	What comes first? The dynamics of cerebral oxygenation and blood flow in response to changes in arterial pressure and intracranial pressure after head injury. <i>British Journal of Anaesthesia</i> , 2012 , 108, 89-99	5.4	49
454	Continuous time-domain monitoring of cerebral autoregulation in neurocritical care. <i>Medical Engineering and Physics</i> , 2014 , 36, 638-45	2.4	48
453	Hydrodynamic properties of hydrocephalus shunts: United Kingdom Shunt Evaluation Laboratory. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1997 , 62, 43-50	5.5	48
452	Enhancement of cerebral blood flow using systemic hypertonic saline therapy improves outcome in patients with poor-grade spontaneous subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2007 , 107, 274-82	3.2	48

451	The Burden of Brain Hypoxia and Optimal Mean Arterial Pressure in Patients With Hypoxic Ischemic Brain Injury After Cardiac Arrest. <i>Critical Care Medicine</i> , 2019 , 47, 960-969	1.4	48
450	Prediction of Delayed Cerebral Ischemia After Subarachnoid Hemorrhage Using Cerebral Blood Flow Velocities and Cerebral Autoregulation Assessment. <i>Neurocritical Care</i> , 2015 , 23, 253-8	3.3	47
449	Plateau waves in head injured patients requiring neurocritical care. <i>Neurocritical Care</i> , 2009 , 11, 143-50	3.3	47
448	The limitations of near-infrared spectroscopy to assess cerebrovascular reactivity: the role of slow frequency oscillations. <i>Anesthesia and Analgesia</i> , 2011 , 113, 849-57	3.9	47
447	The effects of large-dose propofol on cerebrovascular pressure autoregulation in head-injured patients. <i>Anesthesia and Analgesia</i> , 2003 , 97, 572-576	3.9	47
446	Monitoring of cerebrospinal dynamics using continuous analysis of intracranial pressure and cerebral perfusion pressure in head injury. <i>Acta Neurochirurgica</i> , 1994 , 126, 113-9	3	46
445	Coupling of sagittal sinus pressure and cerebrospinal fluid pressure in idiopathic intracranial hypertension--a preliminary report. <i>Acta Neurochirurgica Supplementum</i> , 2008 , 102, 283-5	1.7	46
444	Clinical assessment of cerebrospinal fluid dynamics in hydrocephalus. Guide to interpretation based on observational study. <i>Acta Neurologica Scandinavica</i> , 2011 , 124, 85-98	3.8	45
443	Continuous Autoregulatory Indices Derived from Multi-Modal Monitoring: Each One Is Not Like the Other. <i>Journal of Neurotrauma</i> , 2017 , 34, 3070-3080	5.4	44
442	Temporal profile of intracranial pressure and cerebrovascular reactivity in severe traumatic brain injury and association with fatal outcome: An observational study. <i>PLoS Medicine</i> , 2017 , 14, e1002353	11.6	44
441	Pressure Autoregulation Measurement Techniques in Adult Traumatic Brain Injury, Part II: A Scoping Review of Continuous Methods. <i>Journal of Neurotrauma</i> , 2017 , 34, 3224-3237	5.4	44
440	The monitoring of relative changes in compartmental compliances of brain. <i>Physiological Measurement</i> , 2009 , 30, 647-59	2.9	44
439	Ventriculostomy for control of raised ICP in acute traumatic brain injury. <i>Acta Neurochirurgica Supplementum</i> , 2008 , 102, 99-104	1.7	44
438	Laboratory testing of hydrocephalus shunts -- conclusion of the U.K. Shunt evaluation programme. <i>Acta Neurochirurgica</i> , 2002 , 144, 525-38; discussion 538	3	44
437	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. <i>Critical Care Medicine</i> , 2016 , 44, 1173-81	1.4	44
436	Intraspinal pressure and spinal cord perfusion pressure after spinal cord injury: an observational study. <i>Journal of Neurosurgery: Spine</i> , 2015 , 23, 763-71	2.8	43
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