Marek Czosnyka

List of Publications by Year in Descending Order

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	Technical considerations on the use of Granger causality in neuromonitoring. *Brain Multiphysics*, **2022**, 3, 100044	4.2	
593	Neurocritical Care Monitoring in ICU: Measurement of the Cerebral Autoregulation by Transcranial Doppler (TCD) **2022**, 291-297		
592	Feasibility of non-invasive neuromonitoring in general intensive care patients using a multi-parameter transcranial Doppler approach.. *Journal of Clinical Monitoring and Computing*, **2022**, 1	2	0
591	Prolonged Automated Robotic TCD Monitoring in Acute Severe TBI: Study Design and Rationale.. *Neurocritical Care*, **2022**, 1	3.3	0
590	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
589	Relationship Between Baroreflex and Cerebral Autoregulation in Patients With Cerebral Vasospasm After Aneurysmal Subarachnoid Hemorrhage.. *Frontiers in Neurology*, **2021**, 12, 740338	4.1	
588	Flow Velocity, Pulsatility Index, Autoregulation, and Critical Closing Pressure **2021**, 65-73		
587	Cerebral Autoregulation in Non-Brain Injured Patients: A Systematic Review.. *Frontiers in Neurology*, **2021**, 12, 732176	4.1	3
586	Mathematical Modelling in Hydrocephalus.. *Neurology India*, **2021**, 69, S275-S282	0.7	
585	Modeling Brain-Heart Crosstalk Information in Patients with Traumatic Brain Injury. *Neurocritical Care*, **2021**, 1	3.3	1
584	Causal relationship between slow waves of arterial, intracranial pressures and blood velocity in brain. *Computers in Biology and Medicine*, **2021**, 139, 104970	7	1
583	Determining Thresholds for Three Indices of Autoregulation to Identify the Lower Limit of Autoregulation During Cardiac Surgery. *Critical Care Medicine*, **2021**, 49, 650-660	1.4	5
582	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
581	Association of transcranial Doppler blood flow velocity slow waves with delayed cerebral ischemia in patients suffering from subarachnoid hemorrhage: a retrospective study. *Intensive Care Medicine Experimental*, **2021**, 9, 11	3.7	2
580	Impact of Arterial Carbon Dioxide and Oxygen Content on Cerebral Autoregulation Monitoring Among Children Supported by ECMO. *Neurocritical Care*, **2021**, 35, 480-490	3.3	2
579	Reference values for intracranial pressure and lumbar cerebrospinal fluid pressure: a systematic review. *Fluids and Barriers of the CNS*, **2021**, 18, 19	7	3
578	CSF Dynamics for Shunt Prognostication and Revision in Normal Pressure Hydrocephalus. *Journal of Clinical Medicine*, **2021**, 10,	5.1	2

577	Compliance of the cerebrospinal space: comparison of three methods. *Acta Neurochirurgica*, **2021**, 163, 1979-1989	3	6
576	Early Effects of Passive Leg-Raising Test, Fluid Challenge, and Norepinephrine on Cerebral Autoregulation and Oxygenation in COVID-19 Critically Ill Patients. *Frontiers in Neurology*, **2021**, 12, 674466	4.1	6
575	Brain Temperature Influences Intracranial Pressure and Cerebral Perfusion Pressure After Traumatic Brain Injury: A CENTER-TBI Study. *Neurocritical Care*, **2021**, 1	3.3	1
574	Visualising the pressure-time burden of elevated intracranial pressure after severe traumatic brain injury: a retrospective confirmatory study. *British Journal of Anaesthesia*, **2021**, 126, e15-e17	5.4	5
573	Continuous Monitoring of Cerebral Autoregulation in Children Supported by Extracorporeal Membrane Oxygenation: A Pilot Study. *Neurocritical Care*, **2021**, 34, 935-945	3.3	6
572	Autonomic Nervous System Activity during Refractory Rise in Intracranial Pressure. *Journal of Neurotrauma*, **2021**, 38, 1662-1669	5.4	0
571	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
570	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
569	Lower Breakpoint of Intracranial Amplitude-Pressure Relationship in Normal Pressure Hydrocephalus. *Acta Neurochirurgica Supplementum*, **2021**, 131, 307-309	1.7	1
568	Errors and Consequences of Inaccurate Estimation of Mean Blood Flow Velocity in Cerebral Arteries. *Acta Neurochirurgica Supplementum*, **2021**, 131, 23-25	1.7	
567	Patient's Clinical Presentation and CPPopt Availability: Any Association?. *Acta Neurochirurgica Supplementum*, **2021**, 131, 167-172	1.7	0
566	Cerebrovascular Impedance During Hemodynamic Change in Rabbits: A Pilot Study. *Acta Neurochirurgica Supplementum*, **2021**, 131, 283-288	1.7	
565	The Role of Cerebrospinal Fluid Dynamics in Normal Pressure Hydrocephalus Diagnosis and Shunt Prognostication. *Acta Neurochirurgica Supplementum*, **2021**, 131, 359-363	1.7	2
564	Global Cerebral Autoregulation, Resistance to Cerebrospinal Fluid Outflow and Cerebrovascular Burden in Normal Pressure Hydrocephalus. *Acta Neurochirurgica Supplementum*, **2021**, 131, 349-353	1.7	
563	Single Center Experience in Cerebrospinal Fluid Dynamics Testing. *Acta Neurochirurgica Supplementum*, **2021**, 131, 311-313	1.7	
562	Noninvasive Intracranial Pressure Assessment in Patients with Suspected Idiopathic Intracranial Hypertension. *Acta Neurochirurgica Supplementum*, **2021**, 131, 325-327	1.7	1
561	Comparison of Two Intracranial Pressure Calculation Methods and Their Effects on the Mean Intracranial Pressure and Intracranial Pressure Dose. *Acta Neurochirurgica Supplementum*, **2021**, 131, 31-33	1.7	0
560	Brain Multimodal Monitoring in Severe Acute Brain Injury: Is It Relevant to Patient Outcome and Mortality?. *Acta Neurochirurgica Supplementum*, **2021**, 131, 83-86	1.7	3

559	Optimal Cerebral Perfusion Pressure Assessed with a Multi-Window Weighted Approach Adapted for Prospective Use: A Validation Study. *Acta Neurochirurgica Supplementum*, **2021**, 131, 181-185	1.7	1
558	Cerebrovascular Consequences of Elevated Intracranial Pressure After Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2021**, 131, 43-48	1.7	1
557	Arterial and Venous Cerebral Blood Flow Velocities in Healthy Volunteers. *Acta Neurochirurgica Supplementum*, **2021**, 131, 131-134	1.7	
556	Lower Limit of Reactivity Assessed with PRx in an Experimental Setting. *Acta Neurochirurgica Supplementum*, **2021**, 131, 275-278	1.7	2
555	Analysis of Intracranial Pressure Pulse-Pressure Relationship: Experimental Validation. *Acta Neurochirurgica Supplementum*, **2021**, 131, 279-282	1.7	
554	DeepClean: Self-Supervised Artefact Rejection for Intensive Care Waveform Data Using Deep Generative Learning. *Acta Neurochirurgica Supplementum*, **2021**, 131, 235-241	1.7	1
553	An Update on the COGiTATE Phase II Study: Feasibility and Safety of Targeting an Optimal Cerebral Perfusion Pressure as a Patient-Tailored Therapy in Severe Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2021**, 131, 143-147	1.7	3
552	Spectral Cerebral Blood Volume Accounting for Noninvasive Estimation of Changes in Cerebral Perfusion Pressure in Patients with Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2021**, 131, 193-199	1.7	1
551	Visualization of Intracranial Pressure Insults After Severe Traumatic Brain Injury: Influence of Individualized Limits of Reactivity. *Acta Neurochirurgica Supplementum*, **2021**, 131, 7-10	1.7	0
550	Variability of the Optic Nerve Sheath Diameter on the Basis of Sex and Age in a Cohort of Healthy Volunteers. *Acta Neurochirurgica Supplementum*, **2021**, 131, 121-124	1.7	2
549	Methodological Consideration on Monitoring Refractory Intracranial Hypertension and Autonomic Nervous System Activity. *Acta Neurochirurgica Supplementum*, **2021**, 131, 211-215	1.7	0
548	Delay of cerebral autoregulation in traumatic brain injury patients. *Clinical Neurology and Neurosurgery*, **2021**, 202, 106478	2	1
547	Monitoring cerebrovascular reactivity in pediatric traumatic brain injury: comparison of three methods. *Childis Nervous System*, **2021**, 37, 3057-3065	1.7	1
546	Targeting Autoregulation-Guided Cerebral Perfusion Pressure after Traumatic Brain Injury (COGiTATE): A Feasibility Randomized Controlled Clinical Trial. *Journal of Neurotrauma*, **2021**, 38, 2790-2800	5.4	6
545	Intracranial pulse pressure waveform analysis using the higher harmonics centroid. *Acta Neurochirurgica*, **2021**, 163, 3249-3258	3	1
544	Midline shift in patients with closed traumatic brain injury may be driven by cerebral perfusion pressure not intracranial pressure. *Journal of Neurosurgical Sciences*, **2021**, 65, 383-390	1.3	0
543	External Hydrocephalus After Traumatic Brain Injury: Retrospective Study of 102 Patients. *Acta Neurochirurgica Supplementum*, **2021**, 131, 35-38	1.7	0
542	Comparison of Assessment for Shunting with Infusion Studies Versus Extended Lumbar Drainage in Suspected Normal Pressure Hydrocephalus. *Acta Neurochirurgica Supplementum*, **2021**, 131, 355-358	1.7	

541	Differences in Cerebrospinal Fluid Dynamics in Posttraumatic Hydrocephalus Versus Atrophy, Including Effect of Decompression and Cranioplasty. *Acta Neurochirurgica Supplementum*, **2021**, 131, 343-347	1.7	0
540	Usability of Noninvasive Counterparts of Traditional Autoregulation Indices in Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2021**, 131, 163-166	1.7	
539	Analysis of Cardio-Cerebral Crosstalk Events in an Adult Cohort from the CENTER-TBI Study. *Acta Neurochirurgica Supplementum*, **2021**, 131, 39-42	1.7	1
538	Optimal Cerebral Perfusion Pressure Based on Intracranial Pressure-Derived Indices of Cerebrovascular Reactivity: Which One Is Better for Outcome Prediction in Moderate/Severe Traumatic Brain Injury?. *Acta Neurochirurgica Supplementum*, **2021**, 131, 173-179	1.7	0
537	Characterising the dynamics of cerebral metabolic dysfunction following traumatic brain injury: A microdialysis study in 619 patients.. *PLoS ONE*, **2021**, 16, e0260291	3.7	1
536	The Use of Different Components of Brain Oxygenation for the Assessment of Cerebral Haemodynamics: A Prospective Observational Study on COVID-19 Patients.. *Frontiers in Neurology*, **2021**, 12, 735469	4.1	0
535	Transcranial Doppler-derived indices of cerebrovascular haemodynamics are independent of depth and angle of insonation. *Journal of Clinical Neuroscience*, **2020**, 82, 115-121	2.2	1
534	Low-resolution pressure reactivity index and its derived optimal cerebral perfusion pressure in adult traumatic brain injury: a CENTER-TBI study. *Critical Care*, **2020**, 24, 266	10.8	6
533	A comparison of the time constant of the cerebral arterial bed using invasive and non-invasive arterial blood pressure measurements. *Physiological Measurement*, **2020**, 41, 075001	2.9	
532	Assessment of cerebral autoregulation indices - a modelling perspective. *Scientific Reports*, **2020**, 10, 9600	4.9	9
531	Critical closing pressure during experimental intracranial hypertension: comparison of three calculation methods. *Neurological Research*, **2020**, 42, 387-397	2.7	3
530	Treatment targets based on autoregulation parameters in neurocritical care patients. *Current Opinion in Critical Care*, **2020**, 26, 109-114	3.5	8
529	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
528	Predictive and Discriminative Power of Pressure Reactivity Indices in Traumatic Brain Injury. *Neurosurgery*, **2020**, 87, 655-663	3.2	3
527	Impacts of Microgravity Analogs to Spaceflight on Cerebral Autoregulation. *Frontiers in Physiology*, **2020**, 11, 778	4.6	12
526	Cardiovascular and cerebrovascular responses to cardio-respiratory events in preterm infants during the transitional period. *Journal of Physiology*, **2020**, 598, 4107-4119	3.9	2
525	Shunt infusion studies: impact on patient outcome, including health economics. *Acta Neurochirurgica*, **2020**, 162, 1019-1031	3	5
524	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

523	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
522	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
521	Comparison of wavelet and correlation indices of cerebral autoregulation in a pediatric swine model of cardiac arrest. *Scientific Reports*, **2020**, 10, 5926	4.9	4
520	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
519	Cerebrospinal fluid dynamics in non-acute post-traumatic ventriculomegaly. *Fluids and Barriers of the CNS*, **2020**, 17, 24	7	11
518	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
517	Cardiorespiratory Events in Infants Born Preterm during the Transitional Period. *Journal of Pediatrics*, **2020**, 221, 32-38.e2	3.6	
516	Robotic Semi-Automated Transcranial Doppler Assessment of Cerebrovascular Autoregulation in Post-Concussion Syndrome: Methodological Considerations. *Neurotrauma Reports*, **2020**, 1, 218-231	1.6	5
515	Coupling of CSF and sagittal sinus pressure in adult patients with pseudotumour cerebri. *Acta Neurochirurgica*, **2020**, 162, 1001-1009	3	8
514	Influence of mild-moderate hypocapnia on intracranial pressure slow waves activity in TBI. *Acta Neurochirurgica*, **2020**, 162, 345-356	3	3
513	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
512	Noninvasive Intracranial Pressure Estimation With Transcranial Doppler: A Prospective Observational Study. *Journal of Neurosurgical Anesthesiology*, **2020**, 32, 349-353	3	9
511	Signal Information Prediction of Mortality Identifies Unique Patient Subsets after Severe Traumatic Brain Injury: A Decision-Tree Analysis Approach. *Journal of Neurotrauma*, **2020**, 37, 1011-1019	5.4	8
510	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
509	Validation of non-invasive cerebrovascular pressure reactivity and pulse amplitude reactivity indices in traumatic brain injury. *Acta Neurochirurgica*, **2020**, 162, 337-344	3	1
508	Cortical metabolic changes and clinical outcome in normal pressure hydrocephalus after ventriculoperitoneal shunt: Our preliminary results. *Revista Espanola De Medicina Nuclear E Imagen Molecular*, **2020**, 39, 367-374	0.4	
507	Effects of Age and Sex on Optic Nerve Sheath Diameter in Healthy Volunteers and Patients With Traumatic Brain Injury. *Frontiers in Neurology*, **2020**, 11, 764	4.1	4
506	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

505	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
504	Dynamic cerebral autoregulation estimates derived from near infrared spectroscopy and transcranial Doppler are similar after correction for transit time and blood flow and blood volume oscillations. *Journal of Cerebral Blood Flow and Metabolism*, **2020**, 40, 135-149	7.3	9
503	Observations on the Cerebral Effects of Refractory Intracranial Hypertension After Severe Traumatic Brain Injury. *Neurocritical Care*, **2020**, 32, 437-447	3.3	10
502	Ultrasound non-invasive intracranial pressure assessment in paediatric neurocritical care: a pilot study. *Childis Nervous System*, **2020**, 36, 117-124	1.7	9
501	Hypocapnia after traumatic brain injury: how does it affect the time constant of the cerebral circulation?. *Journal of Clinical Monitoring and Computing*, **2020**, 34, 461-468	2	4
500	Value of computerized shunt infusion study in assessment of pediatric hydrocephalus shunt function-a two center cross-sectional study. *Childis Nervous System*, **2020**, 36, 59-71	1.7	7
499	Transcranial Doppler as a non-invasive method to estimate cerebral perfusion pressure in children with severe traumatic brain injury. *Childis Nervous System*, **2020**, 36, 125-131	1.7	10
498	Burden of hypoxia and intraventricular haemorrhage in extremely preterm infants. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2020**, 105, 242-247	4.7	6
497	Cerebrospinal fluid dynamics in pediatric pseudotumor cerebri syndrome. *Childis Nervous System*, **2020**, 36, 73-86	1.7	4
496	The relationship between the time of cerebral desaturation episodes and outcome in aneurysmal subarachnoid haemorrhage: a preliminary study. *Journal of Clinical Monitoring and Computing*, **2020**, 34, 705-714	2	3
495	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		
494	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		
493	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		
492	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		
491	Optic nerve sheath diameter: the next steps. *Intensive Care Medicine*, **2019**, 45, 1842-1843	14.5	7
490	Effects of Resistance Exercise and Nutritional Supplementation on Dynamic Cerebral Autoregulation in Head-Down Bed Rest. *Frontiers in Physiology*, **2019**, 10, 1114	4.6	11
489	The Evolution of the Role of External Ventricular Drainage in Traumatic Brain Injury. *Journal of Clinical Medicine*, **2019**, 8,	5.1	15
488	A comparison of non-invasive versus invasive measures of intracranial pressure in hypoxic ischaemic brain injury after cardiac arrest. *Resuscitation*, **2019**, 137, 221-228	4	29

487	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
486	Intracranial pressure and compliance in hypoxic ischemic brain injury patients after cardiac arrest. *Resuscitation*, **2019**, 141, 96-103	4	16
485	Consensus statement from the International Consensus Meeting on the Role of Decompressive Craniectomy in the Management of Traumatic Brain Injury : Consensus statement. *Acta Neurochirurgica*, **2019**, 161, 1261-1274	3	82
484	Cerebrospinal Fluid Pressure Dynamics **2019**, 293-326		2
483	Brain ultrasonography: methodology, basic and advanced principles and clinical applications. A narrative review. *Intensive Care Medicine*, **2019**, 45, 913-927	14.5	66
482	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
481	Changes in hemodynamics, cerebral oxygenation and cerebrovascular reactivity during the early transitional circulation in preterm infants. *Pediatric Research*, **2019**, 86, 247-253	3.2	7
480	Thresholds for identifying pathological intracranial pressure in paediatric traumatic brain injury. *Scientific Reports*, **2019**, 9, 3537	4.9	4
479	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
478	Reply to: Optic nerve sheath diameter measurement in hypoxic ischaemic brain injury after cardiac arrest. *Resuscitation*, **2019**, 138, 308-309	4	1
477	Transcranial Doppler Non-invasive Assessment of Intracranial Pressure, Autoregulation of Cerebral Blood Flow and Critical Closing Pressure during Orthotopic Liver Transplant. *Ultrasound in Medicine and Biology*, **2019**, 45, 1435-1445	3.5	6
476	Non-Invasive Pressure Reactivity Index Using Doppler Systolic Flow Parameters: A Pilot Analysis. *Journal of Neurotrauma*, **2019**, 36, 713-720	5.4	17
475	Can interhemispheric desynchronization of cerebral blood flow anticipate upcoming vasospasm in aneurysmal subarachnoid haemorrhage patients?. *Journal of Neuroscience Methods*, **2019**, 325, 108358	3	1
474	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
473	Dynamics of Cerebrospinal Fluid: From Theoretical Models to Clinical Applications **2019**, 181-214		4
472	Feasibility of individualised severe traumatic brain injury management using an automated assessment of optimal cerebral perfusion pressure: the COGiTATE phase II study protocol. *BMJ Open*, **2019**, 9, e030727	3	54
471	Estimation of pulsatile cerebral arterial blood volume based on transcranial doppler signals. *Medical Engineering and Physics*, **2019**, 74, 23-32	2.4	5
470	Feasibility of Hidden Markov Models for the Description of Time-Varying Physiologic State After Severe Traumatic Brain Injury. *Critical Care Medicine*, **2019**, 47, e880-e885	1.4	5

469	The Burden of Brain Hypoxia and Optimal Mean Arterial Pressure in Patients With Hypoxic Ischemic Brain Injury After Cardiac Arrest. *Critical Care Medicine*, **2019**, 47, 960-969	1.4	48
468	Continuous monitoring of cerebrovascular reactivity through pulse transit time and intracranial pressure. *Physiological Measurement*, **2019**, 40, 01LT01	2.9	0
467	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
466	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
465	Ventriculo-peritoneal shunting is a safe and effective treatment for idiopathic intracranial hypertension. *British Journal of Neurosurgery*, **2019**, 33, 62-70	1	12
464	Cerebrospinal Fluid Pressure Dynamics **2019**, 1-34		1
463	Cerebrovascular assessment of patients undergoing shoulder surgery in beach chair position using a multiparameter transcranial Doppler approach. *Journal of Clinical Monitoring and Computing*, **2019**, 33, 615-625	2	9
462	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**, 36, 1505-1517	5.4	31
461	Genetic drivers of cerebral blood flow dysfunction in TBI: a speculative synthesis. *Nature Reviews Neurology*, **2019**, 15, 25-39	15	21
460	Cerebral arterial time constant calculated from the middle and posterior cerebral arteries in healthy subjects. *Journal of Clinical Monitoring and Computing*, **2019**, 33, 605-613	2	3
459	Central versus Local Radiological Reading of Acute Computed Tomography Characteristics in Multi-Center Traumatic Brain Injury Research. *Journal of Neurotrauma*, **2019**, 36, 1080-1092	5.4	20
458	Assessment of cerebral hemodynamic parameters using pulsatile versus non-pulsatile cerebral blood outflow models. *Journal of Clinical Monitoring and Computing*, **2019**, 33, 85-94	2	6
457	Optic nerve sheath diameter ultrasonography at admission as a predictor of intracranial hypertension in traumatic brain injured patients: a prospective observational study. *Journal of Neurosurgery*, **2019**, 132, 1279-1285	3.2	13
456	Computed Tomography Indicators of Deranged Intracranial Physiology in Paediatric Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2018**, 126, 29-34	1.7	3
455	Visualisation of the 'Optimal Cerebral Perfusion' Landscape in Severe Traumatic Brain Injury Patients. *Acta Neurochirurgica Supplementum*, **2018**, 126, 55-58	1.7	3
454	Non-invasive Intracranial Pressure Assessment in Brain Injured Patients Using Ultrasound-Based Methods. *Acta Neurochirurgica Supplementum*, **2018**, 126, 69-73	1.7	20
453	Pre-hospital Predictors of Impaired ICP Trends in Continuous Monitoring of Paediatric Traumatic Brain Injury Patients. *Acta Neurochirurgica Supplementum*, **2018**, 126, 7-10	1.7	2
452	Effect of Mild Hypocapnia on Critical Closing Pressure and Other Mechanoelastic Parameters of the Cerebrospinal System. *Acta Neurochirurgica Supplementum*, **2018**, 126, 139-142	1.7	5

451	Pressure Reactivity-Based Optimal Cerebral Perfusion Pressure in a Traumatic Brain Injury Cohort. *Acta Neurochirurgica Supplementum*, **2018**, 126, 209-212	1.7	17
450	Increased ICP and Its Cerebral Haemodynamic Sequelae. *Acta Neurochirurgica Supplementum*, **2018**, 126, 47-50	1.7	4
449	Is There a Link Between ICP-Derived Infusion Test Parameters and Outcome After Shunting in Normal Pressure Hydrocephalus?. *Acta Neurochirurgica Supplementum*, **2018**, 126, 229-232	1.7	10
448	Wavelet pressure reactivity index: a validation study. *Journal of Physiology*, **2018**, 596, 2797-2809	3.9	13
447	Estimating Pressure Reactivity Using Noninvasive Doppler-Based Systolic Flow Index. *Journal of Neurotrauma*, **2018**, 35, 1559-1568	5.4	17
446	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
445	Optimal Cerebral Perfusion Pressure in Centers With Different Treatment Protocols. *Critical Care Medicine*, **2018**, 46, e235-e241	1.4	13
444	Cerebral autoregulation, cerebrospinal fluid outflow resistance, and outcome following cerebrospinal fluid diversion in normal pressure hydrocephalus. *Journal of Neurosurgery*, **2018**, 130, 154-162	3.2	15
443	Validation of Davson's equation in patients suffering from idiopathic normal pressure hydrocephalus. *Acta Neurochirurgica*, **2018**, 160, 1097-1103	3	3
442	Critical Closing Pressure During Controlled Increase in Intracranial Pressure-Comparison of Three Methods. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 619-624	5	4
441	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
440	ICP Versus Laser Doppler Cerebrovascular Reactivity Indices to Assess Brain Autoregulatory Capacity. *Neurocritical Care*, **2018**, 28, 194-202	3.3	18
439	Multimodality neuromonitoring in severe pediatric traumatic brain injury. *Pediatric Research*, **2018**, 83, 41-49	3.2	12
438	Compensatory-Reserve-Weighted Intracranial Pressure and Its Association with Outcome After Traumatic Brain Injury. *Neurocritical Care*, **2018**, 28, 212-220	3.3	22
437	Transcranial Doppler: a stethoscope for the brain-neurocritical care use. *Journal of Neuroscience Research*, **2018**, 96, 720-730	4.4	56
436	Transcranial Doppler in pediatric emergency and intensive care unit: a case series and literature review. *Childis Nervous System*, **2018**, 34, 1465-1470	1.7	11
435	Radiological Correlates of Raised Intracranial Pressure in Children: A Review. *Frontiers in Pediatrics*, **2018**, 6, 32	3.4	4
434	Optic nerve sheath diameter measured sonographically as non-invasive estimator of intracranial pressure: a systematic review and meta-analysis. *Intensive Care Medicine*, **2018**, 44, 1284-1294	14.5	142

433	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
432	Critical thresholds for intracranial pressure vary over time in non-craniectomised traumatic brain injury patients. *Acta Neurochirurgica*, **2018**, 160, 1315-1324	3	13
431	Baroreflex Impairment After Subarachnoid Hemorrhage Is Associated With Unfavorable Outcome. *Stroke*, **2018**, 49, 1632-1638	6.7	8
430	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
429	Comparison of Different Calibration Methods in a Non-invasive ICP Assessment Model. *Acta Neurochirurgica Supplementum*, **2018**, 126, 79-84	1.7	4
428	Are Slow Waves of Intracranial Pressure Suppressed by General Anaesthesia?. *Acta Neurochirurgica Supplementum*, **2018**, 126, 129-132	1.7	3
427	Occurrence of CPPopt Values in Uncorrelated ICP and ABP Time Series. *Acta Neurochirurgica Supplementum*, **2018**, 126, 143-146	1.7	1
426	Simultaneous Transients of Intracranial Pressure and Heart Rate in Traumatic Brain Injury: Methods of Analysis. *Acta Neurochirurgica Supplementum*, **2018**, 126, 147-151	1.7	4
425	Do ICP-Derived Parameters Differ in Vegetative State from Other Outcome Groups After Traumatic Brain Injury?. *Acta Neurochirurgica Supplementum*, **2018**, 126, 17-20	1.7	1
424	Mathematical Modelling of CSF Pulsatile Flow in Aqueduct Cerebri. *Acta Neurochirurgica Supplementum*, **2018**, 126, 233-236	1.7	3
423	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
422	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
421	Optimal cerebral perfusion pressure via transcranial Doppler in TBI: application of robotic technology. *Acta Neurochirurgica*, **2018**, 160, 2149-2157	3	15
420	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
419	Optimal Mean Arterial Blood Pressure in Extremely Preterm Infants within the First 24 Hours of Life. *Journal of Pediatrics*, **2018**, 203, 242-248	3.6	10
418	Neonatal cerebrovascular autoregulation. *Pediatric Research*, **2018**, 84, 602-610	3.2	37
417	Baroreflex sensitivity and heart rate variability are predictors of mortality in patients with aneurysmal subarachnoid haemorrhage. *Journal of the Neurological Sciences*, **2018**, 394, 112-119	3.2	8
416	Survey in expert clinicians on the validity of automated calculation of optimal cerebral perfusion pressure. *Minerva Anestesiologica*, **2018**, 84, 40-48	1.9	3

415	Effects of Prone Position and Positive End-Expiratory Pressure on Noninvasive Estimators of ICP: A Pilot Study. *Journal of Neurosurgical Anesthesiology*, **2017**, 29, 243-250	3	41
414	Cerebral Perfusion Pressure Targets Individualized to Pressure-Reactivity Index in Moderate to Severe Traumatic Brain Injury: A Systematic Review. *Journal of Neurotrauma*, **2017**, 34, 963-970	5.4	65
413	Cerebral haemodynamics during experimental intracranial hypertension. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 694-705	7.3	20
412	Comparison of ventricular drain location and infusion test in hydrocephalus. *Acta Neurologica Scandinavica*, **2017**, 135, 291-301	3.8	2
411	Phase shift between respiratory oscillations in cerebral blood flow velocity and arterial blood pressure. *Physiological Measurement*, **2017**, 38, 310-324	2.9	5
410	Principles of intracranial pressure monitoring and treatment. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2017**, 140, 67-89	3	20
409	Associations Between Impaired Cerebral Blood Flow Autoregulation, Cerebral Oxygenation, and Biomarkers of Brain Injury and Postoperative Cognitive Dysfunction in Elderly Patients After Major Noncardiac Surgery. *Anesthesia and Analgesia*, **2017**, 124, 934-942	3.9	36
408	Monitoring of Optimal Cerebral Perfusion Pressure in Traumatic Brain Injured Patients Using a Multi-Window Weighting Algorithm. *Journal of Neurotrauma*, **2017**, 34, 3081-3088	5.4	27
407	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
406	Impaired cerebral autoregulation: measurement and application to stroke. *Journal of Neurology, Neurosurgery and Psychiatry*, **2017**, 88, 520-531	5.5	69
405	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
404	Continuous Monitoring and Visualization of Optimum Spinal Cord Perfusion Pressure in Patients with Acute Cord Injury. *Journal of Neurotrauma*, **2017**, 34, 2941-2949	5.4	28
403	Early Asymmetric Cardio-Cerebral Causality and Outcome after Severe Traumatic Brain Injury. *Journal of Neurotrauma*, **2017**, 34, 2743-2752	5.4	26
402	Predictors of Outcome With Cerebral Autoregulation Monitoring: A Systematic Review and Meta-Analysis. *Critical Care Medicine*, **2017**, 45, 695-704	1.4	61
401	Transcranial Doppler Monitoring of Intracranial Pressure Plateau Waves. *Neurocritical Care*, **2017**, 26, 330-338	3.3	24
400	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
399	Cerebral autoregulation monitoring in acute traumatic brain injury: what's the evidence?. *Minerva Anestesiologica*, **2017**, 83, 844-857	1.9	12
398	Diffusion tensor imaging profiles reveal specific neural tract distortion in normal pressure hydrocephalus. *PLoS ONE*, **2017**, 12, e0181624	3.7	24

397	Cerebrovascular pressure reactivity monitoring using wavelet analysis in traumatic brain injury patients: A retrospective study. *PLoS Medicine*, **2017**, 14, e1002348	11.6	32
396	Temporal profile of intracranial pressure and cerebrovascular reactivity in severe traumatic brain injury and association with fatal outcome: An observational study. *PLoS Medicine*, **2017**, 14, e1002353	11.6	44
395	Ultrasound non-invasive measurement of intracranial pressure in neurointensive care: A prospective observational study. *PLoS Medicine*, **2017**, 14, e1002356	11.6	109
394	A multiplex network approach for the analysis of intracranial pressure and heart rate data in traumatic brain injured patients. *Applied Network Science*, **2017**, 2, 29	2.9	6
393	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. *Critical Care Medicine*, **2017**, 45, 1464-1471	1.4	72
392	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
391	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *Lancet Neurology, The*, **2017**, 16, 987-1048	24.1	851
390	Measuring cerebrovascular autoregulation in preterm infants using near-infrared spectroscopy: an overview of the literature. *Expert Review of Neurotherapeutics*, **2017**, 17, 801-818	4.3	39
389	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
388	Does hypothermia impair cerebrovascular autoregulation in neonates during cardiopulmonary bypass?. *Paediatric Anaesthesia*, **2017**, 27, 905-910	1.8	12
387	An Association Between ICP-Derived Data and Outcome in TBI Patients: The Role of Sample Size. *Neurocritical Care*, **2017**, 27, 103-107	3.3	13
386	Impacts of Simulated Weightlessness by Dry Immersion on Optic Nerve Sheath Diameter and Cerebral Autoregulation. *Frontiers in Physiology*, **2017**, 8, 780	4.6	17
385	Glycemia Is Related to Impaired Cerebrovascular Autoregulation after Severe Pediatric Traumatic Brain Injury: A Retrospective Observational Study. *Frontiers in Pediatrics*, **2017**, 5, 205	3.4	2
384	Intraoperative non invasive intracranial pressure monitoring during pneumoperitoneum: a case report and a review of the published cases and case report series. *Journal of Clinical Monitoring and Computing*, **2016**, 30, 527-38	2	10
383	Monitoring of cerebral blood flow autoregulation in adults undergoing sevoflurane anesthesia: a prospective cohort study of two age groups. *Journal of Clinical Monitoring and Computing*, **2016**, 30, 255-64	2	25
382	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. *Journal of Neurotrauma*, **2016**, 33, 792-802	5.4	53
381	Finite element analysis of periventricular lucency in hydrocephalus: extravasation or transependymal CSF absorption?. *Journal of Neurosurgery*, **2016**, 124, 334-41	3.2	11
380	Non-invasive ICP assessment through time of flight. *Acta Neurologica Scandinavica*, **2016**, 134, 383	3.8	

379	Influence of general anaesthesia on slow waves of intracranial pressure. *Neurological Research*, **2016**, 38, 587-92	2.7	10
378	Using the relationship between brain tissue regional saturation of oxygen and mean arterial pressure to determine the optimal mean arterial pressure in patients following cardiac arrest: A pilot proof-of-concept study. *Resuscitation*, **2016**, 106, 120-5	4	41
377	Plateau Waves of Intracranial Pressure and Partial Pressure of Cerebral Oxygen. *Acta Neurochirurgica Supplementum*, **2016**, 122, 177-9	1.7	0
376	Non-invasive assessment of intracranial pressure. *Acta Neurologica Scandinavica*, **2016**, 134, 4-21	3.8	77
375	Decompressive craniectomy following traumatic brain injury: developing the evidence base. *British Journal of Neurosurgery*, **2016**, 30, 246-50	1	69
374	Spectral analysis of intracranial pressure: Is it helpful in the assessment of shunt functioning in-vivo?. *Clinical Neurology and Neurosurgery*, **2016**, 142, 112-119	2	2
373	Non-invasive Monitoring of Intracranial Pressure Using Transcranial Doppler Ultrasonography: Is It Possible?. *Neurocritical Care*, **2016**, 25, 473-491	3.3	108
372	Aneurysmal Subarachnoid Hemorrhage in Pregnancy-Case Series, Review, and Pooled Data Analysis. *World Neurosurgery*, **2016**, 88, 383-398	2.1	19
371	Assessment of non-invasive ICP during CSF infusion test: an approach with transcranial Doppler. *Acta Neurochirurgica*, **2016**, 158, 279-87; discussion 287	3	11
370	Ventricular Volume Load Reveals the Mechanoelastic Impact of Communicating Hydrocephalus on Dynamic Cerebral Autoregulation. *PLoS ONE*, **2016**, 11, e0158506	3.7	7
369	The Ontogeny of Cerebrovascular Pressure Autoregulation in Premature Infants. *Acta Neurochirurgica Supplementum*, **2016**, 122, 151-5	1.7	10
368	Change in Pulsatile Cerebral Arterial Pressure and Flow Waves as a Therapeutic Strategy?. *Acta Neurochirurgica Supplementum*, **2016**, 122, 167-70	1.7	3
367	Increasing Intracranial Pressure After Head Injury: Impact on Respiratory Oscillations in Cerebral Blood Flow Velocity. *Acta Neurochirurgica Supplementum*, **2016**, 122, 171-5	1.7	1
366	Correlation Between Cerebral Autoregulation and Carbon Dioxide Reactivity in Patients with Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2016**, 122, 205-9	1.7	9
365	Cerebral Arterial Time Constant Recorded from the MCA and PICA in Normal Subjects. *Acta Neurochirurgica Supplementum*, **2016**, 122, 211-4	1.7	4
364	The Interaction Between Heart Systole and Cerebral Circulation During Lower Body Negative Pressure Test. *Acta Neurochirurgica Supplementum*, **2016**, 122, 137-41	1.7	
363	The Correlation Between Intracranial Pressure and Cerebral Blood Flow Velocity During ICP Plateau Waves. *Acta Neurochirurgica Supplementum*, **2016**, 122, 81-3	1.7	0
362	Continuous Multimodality Monitoring in Children after Traumatic Brain Injury-Preliminary Experience. *PLoS ONE*, **2016**, 11, e0148817	3.7	35

361	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. *Critical Care Medicine*, **2016**, 44, 1173-81	1.4	44
360	Cerebral Critical Closing Pressure: Is the Multiparameter Model Better Suited to Estimate Physiology of Cerebral Hemodynamics?. *Neurocritical Care*, **2016**, 25, 446-454	3.3	4
359	Intracranial pressure, its components and cerebrospinal fluid pressure-volume compensation. *Acta Neurologica Scandinavica*, **2016**, 134, 168-80	3.8	39
358	Enhanced Visualization of Optimal Cerebral Perfusion Pressure Over Time to Support Clinical Decision Making. *Critical Care Medicine*, **2016**, 44, e996-9	1.4	23
357	Effects of pneumoperitoneum and Trendelenburg position on intracranial pressure assessed using different non-invasive methods. *British Journal of Anaesthesia*, **2016**, 117, 783-791	5.4	56
356	Elevated Diastolic Closing Margin Is Associated with Intraventricular Hemorrhage in Premature Infants. *Journal of Pediatrics*, **2016**, 174, 52-6	3.6	15
355	Validation of a New Minimally Invasive Intracranial Pressure Monitoring Method by Direct Comparison with an Invasive Technique. *Acta Neurochirurgica Supplementum*, **2016**, 122, 97-100	1.7	11
354	Patient-Specific Thresholds and Doses of Intracranial Hypertension in Severe Traumatic Brain Injury. *Acta Neurochirurgica Supplementum*, **2016**, 122, 117-20	1.7	9
353	Plateau Waves of Intracranial Pressure and Multimodal Brain Monitoring. *Acta Neurochirurgica Supplementum*, **2016**, 122, 143-6	1.7	8
352	Cerebral Critical Closing Pressure During Infusion Tests. *Acta Neurochirurgica Supplementum*, **2016**, 122, 215-20	1.7	4
351	Measurement of Intraspinal Pressure After Spinal Cord Injury: Technical Note from the Injured Spinal Cord Pressure Evaluation Study. *Acta Neurochirurgica Supplementum*, **2016**, 122, 323-8	1.7	18
350	Waveform Analysis of Intraspinal Pressure After Traumatic Spinal Cord Injury: An Observational Study (O-64). *Acta Neurochirurgica Supplementum*, **2016**, 122, 335-8	1.7	4
349	Who Needs a Revision? 20 Years of Cambridge Shunt Lab. *Acta Neurochirurgica Supplementum*, **2016** , 122, 347-51	1.7	4
348	Shunt Testing In Vivo: Observational Study of Problems with Ventricular Catheter. *Acta Neurochirurgica Supplementum*, **2016**, 122, 353-6	1.7	3
347	Regulation of the cerebral circulation: bedside assessment and clinical implications. *Critical Care*, **2016**, 20, 129	10.8	114
346	Imaging normal pressure hydrocephalus: theories, techniques, and challenges. *Neurosurgical Focus*, **2016**, 41, E11	4.2	38
345	Trial of Decompressive Craniectomy for Traumatic Intracranial Hypertension. *New England Journal of Medicine*, **2016**, 375, 1119-30	59.2	631
344	Cerebral vasospasm affects arterial critical closing pressure. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 285-91	7.3	12

343	Kidney-brain link in traumatic brain injury patients? A preliminary report. *Neurocritical Care*, **2015**, 22, 192-201	3.3	27
342	Prediction of Delayed Cerebral Ischemia After Subarachnoid Hemorrhage Using Cerebral Blood Flow Velocities and Cerebral Autoregulation Assessment. *Neurocritical Care*, **2015**, 23, 253-8	3.3	47
341	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. *Journal of Neurotrauma*, **2015**, 32, 865-74	5.4	86
340	Comparison of frequency and time domain methods of assessment of cerebral autoregulation in traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 248-56	7.3	56
339	The Effect of Red Blood Cell Transfusion on Cerebral Autoregulation in Patients with Severe Traumatic Brain Injury. *Neurocritical Care*, **2015**, 23, 210-6	3.3	31
338	Phase-shift between arterial flow and ICP pulse during infusion test. *Acta Neurochirurgica*, **2015**, 157, 633-8	3	5
337	Bilateral failure of cerebral autoregulation is related to unfavorable outcome after subarachnoid hemorrhage. *Neurocritical Care*, **2015**, 22, 65-73	3.3	32
336	Observation of Autoregulation Indices During Ventricular CSF Drainage After Aneurysmal Subarachnoid Hemorrhage: A Pilot Study. *Neurocritical Care*, **2015**, 23, 347-54	3.3	15
335	Short pressure reactivity index versus long pressure reactivity index in the management of traumatic brain injury. *Journal of Neurosurgery*, **2015**, 122, 588-94	3.2	19
334	A noninvasive estimation of cerebral perfusion pressure using critical closing pressure. *Journal of Neurosurgery*, **2015**, 123, 638-48	3.2	37
333	David Price--Pioneer of digital ICP monitoring, neurosurgeon and teacher. *British Journal of Neurosurgery*, **2015**, 29, 312-3	1	1
332	Porohyperelastic anatomical models for hydrocephalus and idiopathic intracranial hypertension. *Journal of Neurosurgery*, **2015**, 122, 1330-40	3.2	13
331	Consensus statement from the 2014 International Microdialysis Forum. *Intensive Care Medicine*, **2015**, 41, 1517-28	14.5	197
330	Intraspinal pressure and spinal cord perfusion pressure after spinal cord injury: an observational study. *Journal of Neurosurgery: Spine*, **2015**, 23, 763-71	2.8	43
329	Doppler Non-invasive Monitoring of ICP in an Animal Model of Acute Intracranial Hypertension. *Neurocritical Care*, **2015**, 23, 419-26	3.3	31
328	Increased blood glucose is related to disturbed cerebrovascular pressure reactivity after traumatic brain injury. *Neurocritical Care*, **2015**, 22, 20-5	3.3	20
327	Principles of cerebral hemodynamics when intracranial pressure is raised: lessons from the peripheral circulation. *Journal of Hypertension*, **2015**, 33, 1233-41	1.9	15
326	The Role of Monitoring Cerebral Autoregulation After Subarachnoid Hemorrhage. *Neurosurgery*, **2015**, 62 Suppl 1, 180-4	3.2	7

325	Clinical and Physiological Events That Contribute to the Success Rate of Finding "Optimal" Cerebral Perfusion Pressure in Severe Brain Trauma Patients. *Critical Care Medicine*, **2015**, 43, 1952-63	1.4	26
324	Cerebrovascular Pressure Reactivity in Children With Traumatic Brain Injury. *Pediatric Critical Care Medicine*, **2015**, 16, 739-49	3	38
323	Finite element analysis for normal pressure hydrocephalus: The effects of the integration of sulci. *Medical Image Analysis*, **2015**, 24, 235-244	15.4	6
322	Systemic, local, and imaging biomarkers of brain injury: more needed, and better use of those already established?. *Frontiers in Neurology*, **2015**, 6, 26	4.1	40
321	Cerebral critical closing pressure in hydrocephalus patients undertaking infusion tests. *Neurological Research*, **2015**, 37, 674-82	2.7	12
320	Monitoring of Cerebrovascular Reactivity for Determination of Optimal Blood Pressure in Preterm Infants. *Journal of Pediatrics*, **2015**, 167, 86-91	3.6	37
319	Thresholds of resistance to CSF outflow in predicting shunt responsiveness. *Neurological Research*, **2015**, 37, 332-40	2.7	15
318	Traumatic brain injury: increasing ICP attenuates respiratory modulations of cerebral blood flow velocity. *Medical Engineering and Physics*, **2015**, 37, 175-9	2.4	5
317	Changes in Cerebral Partial Oxygen Pressure and Cerebrovascular Reactivity During Intracranial Pressure Plateau Waves. *Neurocritical Care*, **2015**, 23, 85-91	3.3	12
316	Further understanding of cerebral autoregulation at the bedside: possible implications for future therapy. *Expert Review of Neurotherapeutics*, **2015**, 15, 169-85	4.3	52
315	Optimal Cerebral Perfusion Pressure Management at Bedside: A Single-Center Pilot Study. *Neurocritical Care*, **2015**, 23, 92-102	3.3	75
314	Role of Pressure Reactivity Index in Neurocritical Care **2015**, 223-236		1
313	Cessation of diastolic cerebral blood flow velocity: the role of critical closing pressure. *Neurocritical Care*, **2014**, 20, 40-8	3.3	34
312	Model-based indices describing cerebrovascular dynamics. *Neurocritical Care*, **2014**, 20, 142-57	3.3	29
311	The pathophysiology and treatment of delayed cerebral ischaemia following subarachnoid haemorrhage. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, 1343-53	5.5	143
310	Hydrocephalus shunt technology: 20 years of experience from the Cambridge Shunt Evaluation Laboratory. *Journal of Neurosurgery*, **2014**, 120, 697-707	3.2	41
309	Monitoring of cerebral autoregulation. *Neurocritical Care*, **2014**, 21 Suppl 2, S95-102	3.3	78
308	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. *Neurocritical Care*, **2014**, 21 Suppl 2, S1-26	3.3	139

307	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. *Intensive Care Medicine*, **2014**, 40, 1189-209	14.5	190
306	Optic nerve sheath diameter on computed tomography is correlated with simultaneously measured intracranial pressure in patients with severe traumatic brain injury. *Intensive Care Medicine*, **2014**, 40, 1267-74	14.5	107
305	Patient-specific thresholds of intracranial pressure in severe traumatic brain injury. *Journal of Neurosurgery*, **2014**, 120, 893-900	3.2	87
304	Pressures, flow, and brain oxygenation during plateau waves of intracranial pressure. *Neurocritical Care*, **2014**, 21, 124-32	3.3	18
303	Relationship of vascular wall tension and autoregulation following traumatic brain injury. *Neurocritical Care*, **2014**, 21, 266-74	3.3	17
302	A continuous correlation between intracranial pressure and cerebral blood flow velocity reflects cerebral autoregulation impairment during intracranial pressure plateau waves. *Neurocritical Care*, **2014**, 21, 514-25	3.3	14
301	Continuous time-domain monitoring of cerebral autoregulation in neurocritical care. *Medical Engineering and Physics*, **2014**, 36, 638-45	2.4	48
300	Baroreflex and cerebral autoregulation are inversely correlated. *Circulation Journal*, **2014**, 78, 2460-7	2.9	23
299	Brain monitoring: do we need a hole? An update on invasive and noninvasive brain monitoring modalities. *Scientific World Journal, The*, **2014**, 2014, 795762	2.2	13
298	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. *Neurocritical Care*, **2014**, 21 Suppl 2, S297-361	3.3	53
297	The ontogeny of cerebrovascular pressure autoregulation in premature infants. *Journal of Perinatology*, **2014**, 34, 926-31	3.1	32
296	Cerebrovascular time constant in patients suffering from hydrocephalus. *Neurological Research*, **2014**, 36, 255-61	2.7	6
295	Repeatability of cerebrospinal fluid constant rate infusion study. *Acta Neurologica Scandinavica*, **2014**, 130, 131-8	3.8	18
294	Post-traumatic multimodal brain monitoring: response to hypertonic saline. *Journal of Neurotrauma* , **2014**, 31, 1872-80	5.4	30
293	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. *Neurocritical Care*, **2014**, 21 Suppl 2, S282-96	3.3	54
292	Heart rate passivity of cerebral tissue oxygenation is associated with predictors of poor outcome in preterm infants. *Acta Paediatrica, International Journal of Paediatrics*, **2014**, 103, e374-82	3.1	27
291	Quantitative analysis of computed tomography images and early detection of cerebral edema for pediatric traumatic brain injury patients: retrospective study. *BMC Medicine*, **2014**, 12, 186	11.4	21
290	The thermodynamic brain. *Critical Care*, **2014**, 18, 693	10.8	2

289	Monitoring of spinal cord perfusion pressure in acute spinal cord injury: initial findings of the injured spinal cord pressure evaluation study*. *Critical Care Medicine*, **2014**, 42, 646-55	1.4	99
288	Between-centre variability in transfer function analysis, a widely used method for linear quantification of the dynamic pressure-flow relation: the CARNet study. *Medical Engineering and Physics*, **2014**, 36, 620-7	2.4	42
287	Cerebrovascular Autoregulation and Monitoring of Cerebrovascular Reactivity **2014**, 401-420		1
286	Doppler flow velocity and intra-cranial pressure: responses to short-term mild hypocapnia help to assess the pressure-volume relationship after head injury. *Ultrasound in Medicine and Biology*, **2013**, 39, 1521-6	3.5	4
285	Cerebral autoregulation after subarachnoid hemorrhage: comparison of three methods. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 449-56	7.3	67
284	Critical closing pressure during intracranial pressure plateau waves. *Neurocritical Care*, **2013**, 18, 341-8	3.3	30
283	Clinical relevance of cerebral autoregulation following subarachnoid haemorrhage. *Nature Reviews Neurology*, **2013**, 9, 152-63	15	131
282	Reduced complexity of intracranial pressure observed in short time series of intracranial hypertension following traumatic brain injury in adults. *Journal of Clinical Monitoring and Computing* , **2013**, 27, 395-403	2	11
281	Optimal cerebral perfusion pressure: are we ready for it?. *Neurological Research*, **2013**, 35, 138-48	2.7	40
280	Critical closing pressure determined with a model of cerebrovascular impedance. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 235-43	7.3	61
279	A method for estimating zero-flow pressure and intracranial pressure. *Journal of Neurosurgical Anesthesiology*, **2013**, 25, 25-32	3	4
278	Hydrodynamic properties of the Certas hydrocephalus shunt. *Journal of Neurosurgery: Pediatrics*, **2013**, 11, 198-204	2.1	8
277	Parameter estimations for the cerebrospinal fluid infusion test. *Mathematical Medicine and Biology*, **2013**, 30, 157-74	1.3	4
276	In reply. Transcranial Doppler derived pulsatility index in the assessment of intracranial pressure: the trend is your friend. *Neurosurgery*, **2013**, 72, E320	3.2	1
275	The frequency response of cerebral autoregulation. *Journal of Applied Physiology*, **2013**, 115, 52-6	3.7	40
274	The authors reply. *Critical Care Medicine*, **2013**, 41, e5	1.4	
273	Positive end-expiratory pressure oscillation facilitates brain vascular reactivity monitoring. *Journal of Applied Physiology*, **2012**, 113, 1362-8	3.7	28
272	Renovascular reactivity measured by near-infrared spectroscopy. *Journal of Applied Physiology*, **2012**, 113, 307-14	3.7	54

271	Programmable Shunt Assistant tested in Cambridge shunt evaluation laboratory. *Acta Neurochirurgica Supplementum*, **2012**, 113, 71-6	1.7	6
270	Time constant of the cerebral arterial bed in normal subjects. *Ultrasound in Medicine and Biology*, **2012**, 38, 1129-37	3.5	24
269	Continuous monitoring of the Monro-Kellie doctrine: is it possible?. *Journal of Neurotrauma*, **2012**, 29, 1354-63	5.4	35
268	Modeling of CSF dynamics: legacy of Professor Anthony Marmarou. *Acta Neurochirurgica Supplementum*, **2012**, 113, 9-14	1.7	16
267	ICM+: a versatile software for assessment of CSF dynamics. *Acta Neurochirurgica Supplementum*, **2012**, 114, 75-9	1.7	19
266	Monitoring cerebral autoregulation after head injury. Which component of transcranial Doppler flow velocity is optimal?. *Neurocritical Care*, **2012**, 17, 211-8	3.3	71
265	Asymmetry of cerebral autoregulation does not correspond to asymmetry of cerebrovascular pressure reactivity. *Perspectives in Medicine*, **2012**, 1, 285-289		4
264	Complexity of intracranial pressure correlates with outcome after traumatic brain injury. *Brain*, **2012**, 135, 2399-408	11.2	59
263	'Long' pressure reactivity index (L-PRx) as a measure of autoregulation correlates with outcome in traumatic brain injury patients. *Acta Neurochirurgica*, **2012**, 154, 1575-81	3	35
262	Critical thresholds for cerebrovascular reactivity after traumatic brain injury. *Neurocritical Care*, **2012**, 16, 258-66	3.3	235
261	Vasospasm shortens cerebral arterial time constant. *Neurocritical Care*, **2012**, 16, 213-8	3.3	30
260	Transcranial Doppler pulsatility index: what it is and what it isn't. *Neurocritical Care*, **2012**, 17, 58-66	3.3	169
259	Continuous monitoring of cerebrovascular reactivity using pulse waveform of intracranial pressure. *Neurocritical Care*, **2012**, 17, 67-76	3.3	68
258	Critical Thresholds for Cerebrovascular Reactivity: Facts, No Fiction!. *Neurocritical Care*, **2012**, 17, 152-153	3.3	3
257	Dynamic cerebral autoregulation associates with infarct size and outcome after ischemic stroke. *Acta Neurologica Scandinavica*, **2012**, 125, 156-62	3.8	100
256	The relationship between cerebral blood flow autoregulation and cerebrovascular pressure reactivity after traumatic brain injury. *Neurosurgery*, **2012**, 71, 652-60; discussion 660-1	3.2	86
255	Impairment of cerebral autoregulation predicts delayed cerebral ischemia after subarachnoid hemorrhage: a prospective observational study. *Stroke*, **2012**, 43, 3230-7	6.7	174
254	What comes first? The dynamics of cerebral oxygenation and blood flow in response to changes in arterial pressure and intracranial pressure after head injury. *British Journal of Anaesthesia*, **2012**, 108, 89-99	5.4	49

253	Model-based noninvasive estimation of intracranial pressure from cerebral blood flow velocity and arterial pressure. *Science Translational Medicine*, **2012**, 4, 129ra44	17.5	66
252	Noninvasive autoregulation monitoring in a swine model of pediatric cardiac arrest. *Anesthesia and Analgesia*, **2012**, 114, 825-36	3.9	43
251	Cerebrovascular time constant: dependence on cerebral perfusion pressure and end-tidal carbon dioxide concentration. *Neurological Research*, **2012**, 34, 17-24	2.7	29
250	Real availability of current devices in traumatic brain injury management. *Critical Care Medicine*, **2012**, 40, 3117	1.4	
249	Continuous determination of optimal cerebral perfusion pressure in traumatic brain injury. *Critical Care Medicine*, **2012**, 40, 2456-63	1.4	348
248	Static autoregulation is intact early after severe unilateral brain injury in a neonatal Swine model. *Neurosurgery*, **2012**, 71, 138-45	3.2	11
247	Reliability of the blood flow velocity pulsatility index for assessment of intracranial and cerebral perfusion pressures in head-injured patients. *Neurosurgery*, **2012**, 71, 853-61	3.2	106
246	Non-invasively estimated ICP pulse amplitude strongly correlates with outcome after TBI. *Acta Neurochirurgica Supplementum*, **2012**, 114, 121-5	1.7	23
245	Monitoring of the association between cerebral blood flow velocity and intracranial pressure. *Acta Neurochirurgica Supplementum*, **2012**, 114, 147-51	1.7	16
244	How does moderate hypocapnia affect cerebral autoregulation in response to changes in perfusion pressure in TBI patients?. *Acta Neurochirurgica Supplementum*, **2012**, 114, 153-6	1.7	11
243	Near infrared spectroscopy as possible non-invasive monitor of slow vasogenic ICP waves. *Acta Neurochirurgica Supplementum*, **2012**, 114, 181-5	1.7	31
242	Time constant of the cerebral arterial bed. *Acta Neurochirurgica Supplementum*, **2012**, 114, 17-21	1.7	24
241	A microdialysis study of oral vigabatrin administration in head injury patients: preliminary evaluation of multimodality monitoring. *Acta Neurochirurgica Supplementum*, **2012**, 114, 271-6	1.7	4
240	Association between ICP pulse waveform morphology and ICP B waves. *Acta Neurochirurgica Supplementum*, **2012**, 114, 29-34	1.7	10
239	Relationship between cerebrovascular dysautoregulation and arterial blood pressure in the premature infant. *Journal of Perinatology*, **2011**, 31, 722-9	3.1	64
238	Cerebral extracellular chemistry and outcome following traumatic brain injury: a microdialysis study of 223 patients. *Brain*, **2011**, 134, 484-94	11.2	278
237	Autonomic neuropathy is associated with impairment of dynamic cerebral autoregulation in type 1 diabetes. *Autonomic Neuroscience: Basic and Clinical*, **2011**, 160, 59-63	2.4	10
236	Intracranial Hypertension and Brain Monitoring **2011**, 822-836		

235	Cerebral arterial compliance in patients with internal carotid artery disease. *European Journal of Neurology*, **2011**, 18, 711-8	6	12
234	Impact of duration of symptoms on CSF dynamics in idiopathic normal pressure hydrocephalus. *Acta Neurologica Scandinavica*, **2011**, 123, 414-8	3.8	11
233	Clinical assessment of cerebrospinal fluid dynamics in hydrocephalus. Guide to interpretation based on observational study. *Acta Neurologica Scandinavica*, **2011**, 124, 85-98	3.8	45
232	Effect of hyper- and hypocapnia on cerebral arterial compliance in normal subjects. *Journal of Neuroimaging*, **2011**, 21, 121-5	2.8	29
231	Low-frequency sampling for PRx calculation does not reduce prognostication and produces similar CPPopt in intracerebral haemorrhage patients. *Acta Neurochirurgica*, **2011**, 153, 2189-95	3	23
230	Critical thresholds for transcranial Doppler indices of cerebral autoregulation in traumatic brain injury. *Neurocritical Care*, **2011**, 14, 188-93	3.3	100
229	Pulsatile intracranial pressure and cerebral autoregulation after traumatic brain injury. *Neurocritical Care*, **2011**, 15, 379-86	3.3	41
228	Short-term moderate hypocapnia augments detection of optimal cerebral perfusion pressure. *Journal of Neurotrauma*, **2011**, 28, 1133-7	5.4	7
227	Effect of age on intraoperative cerebrovascular autoregulation and near-infrared spectroscopy-derived cerebral oxygenation. *British Journal of Anaesthesia*, **2011**, 107, 742-8	5.4	26
226	Changes in cerebral compartmental compliances during mild hypocapnia in patients with traumatic brain injury. *Journal of Neurotrauma*, **2011**, 28, 889-96	5.4	11
225	The course of dynamic cerebral autoregulation during cervical internal carotid artery occlusion. *Neurological Research*, **2011**, 33, 921-6	2.7	5
224	The limitations of near-infrared spectroscopy to assess cerebrovascular reactivity: the role of slow frequency oscillations. *Anesthesia and Analgesia*, **2011**, 113, 849-57	3.9	47
223	Interaction between brain chemistry and physiology after traumatic brain injury: impact of autoregulation and microdialysis catheter location. *Journal of Neurotrauma*, **2011**, 28, 849-60	5.4	64
222	Decompressive craniectomy for traumatic brain injury: the jury is still out. *British Journal of Neurosurgery*, **2011**, 25, 441-2	1	20
221	Clinical Evaluation of Adult Hydrocephalus **2011**, 494-514		3
220	Dynamics of Cerebrospinal Fluid: From Theoretical Models to Clinical Applications **2011**, 137-167		1
219	Evaluation of the cerebrovascular pressure reactivity index using non-invasive finapres arterial blood pressure. *Physiological Measurement*, **2010**, 31, 1217-28	2.9	16
218	What shapes pulse amplitude of intracranial pressure?. *Journal of Neurotrauma*, **2010**, 27, 317-24	5.4	65

217	Noninvasive monitoring of cerebrovascular reactivity with near infrared spectroscopy in head-injured patients. *Journal of Neurotrauma*, **2010**, 27, 1951-8	5.4	111
216	A comparison study of cerebral autoregulation assessed with transcranial Doppler and cortical laser Doppler flowmetry. *Neurological Research*, **2010**, 32, 425-8	2.7	22
215	Continuous assessment of cerebral autoregulation with near-infrared spectroscopy in adults after subarachnoid hemorrhage. *Stroke*, **2010**, 41, 1963-8	6.7	643
214	Cerebrospinal compensation of pulsating cerebral blood volume in hydrocephalus. *Neurological Research*, **2010**, 32, 587-92	2.7	4
213	Real-time continuous monitoring of cerebral blood flow autoregulation using near-infrared spectroscopy in patients undergoing cardiopulmonary bypass. *Stroke*, **2010**, 41, 1951-6	6.7	259
212	Transient changes in brain tissue oxygen in response to modifications of cerebral perfusion pressure: an observational study. *Anesthesia and Analgesia*, **2010**, 110, 165-73	3.9	16
211	Impaired autoregulation of cerebral blood flow during rewarming from hypothermic cardiopulmonary bypass and its potential association with stroke. *Anesthesia and Analgesia*, **2010**, 110, 321-8	3.9	109
210	Review article: the surgical approach to the management of increased intracranial pressure after traumatic brain injury. *Anesthesia and Analgesia*, **2010**, 111, 736-48	3.9	70
209	Noninvasive autoregulation monitoring with and without intracranial pressure in the naive piglet brain. *Anesthesia and Analgesia*, **2010**, 111, 191-5	3.9	32
208	Secondary decline of cerebral autoregulation is associated with worse outcome after intracerebral hemorrhage. *Intensive Care Medicine*, **2010**, 36, 264-71	14.5	63
207	Slow vasogenic fluctuations of intracranial pressure and cerebral near infrared spectroscopy--an observational study. *Acta Neurochirurgica*, **2010**, 152, 1763-9	3	35
206	"Optimal cerebral perfusion pressure" in poor grade patients after subarachnoid hemorrhage. *Neurocritical Care*, **2010**, 13, 17-23	3.3	59
205	Pattern recognition of overnight intracranial pressure slow waves using morphological features of intracranial pressure pulse. *Journal of Neuroscience Methods*, **2010**, 190, 310-8	3	28
204	TRANSCRANIAL DOPPLER ULTRASONOGRAPHY IN ANESTHESIA AND NEUROSURGERY **2010**, 131-146		1
203	Cerebral autoregulatory response depends on the direction of change in perfusion pressure. *Journal of Neurotrauma*, **2009**, 26, 651-6	5.4	32
202	Nonlinear pressure-flow relationship is able to detect asymmetry of brain blood circulation associated with midline shift. *Journal of Neurotrauma*, **2009**, 26, 227-33	5.4	21
201	Continuous monitoring of cerebrovascular pressure reactivity after traumatic brain injury in children. *Pediatrics*, **2009**, 124, e1205-12	7.4	95
200	Cerebrovascular reactivity measured by near-infrared spectroscopy. *Stroke*, **2009**, 40, 1820-6	6.7	177

199	The monitoring of relative changes in compartmental compliances of brain. *Physiological Measurement*, **2009**, 30, 647-59	2.9	44
198	Near-infrared spectroscopy can monitor dynamic cerebral autoregulation in adults. *Neurocritical Care*, **2009**, 10, 122-8	3.3	144
197	Monitoring of cerebrovascular autoregulation: facts, myths, and missing links. *Neurocritical Care*, **2009**, 10, 373-86	3.3	247
196	Reactivity of brain tissue oxygen to change in cerebral perfusion pressure in head injured patients. *Neurocritical Care*, **2009**, 10, 274-9	3.3	29
195	Plateau waves in head injured patients requiring neurocritical care. *Neurocritical Care*, **2009**, 11, 143-50	3.3	47
194	Critical closing pressure: comparison of three methods. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 987-93	7.3	18
193	A phase-contrast MRI study of physiologic cerebral venous flow. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 1208-15	7.3	103
192	In vivo assessment of hydrocephalus shunt. *Acta Neurologica Scandinavica*, **2009**, 120, 317-23	3.8	28
191	Cerebral autoregulation in patients with obstructive sleep apnea syndrome during wakefulness. *European Journal of Neurology*, **2009**, 16, 386-91	6	62
190	Index of cerebrospinal compensatory reserve in hydrocephalus. *Neurosurgery*, **2009**, 64, 494-501; discussion 501-2	3.2	61
189	Investigation of the hydrodynamic properties of a new MRI-resistant programmable hydrocephalus shunt. *Cerebrospinal Fluid Research*, **2008**, 5, 8		6
188	Cerebrovascular reactivity and autonomic drive following traumatic brain injury. *Acta Neurochirurgica Supplementum*, **2008**, 102, 3-7	1.7	22
187	Value of overnight monitoring of intracranial pressure in hydrocephalic children. *Pediatric Neurosurgery*, **2008**, 44, 269-79	0.9	59
186	Clinical testing of CSF circulation. *European Journal of Anaesthesiology*, **2008**, 42, 142-5	2.3	6
185	Continuous monitoring of cerebrovascular pressure reactivity in patients with head injury. *Neurosurgical Focus*, **2008**, 25, E2	4.2	138
184	Effect of decompressive craniectomy on intracranial pressure and cerebrospinal compensation following traumatic brain injury. *Journal of Neurosurgery*, **2008**, 108, 66-73	3.2	152
183	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. *Anesthesia and Analgesia*, **2008**, 106, 234-9, table of contents	3.9	60
182	Cerebrospinal fluid dynamics: disturbances and diagnostics. *European Journal of Anaesthesiology*, **2008**, 42, 137-41	2.3	14

181	Intracranial Pressure Monitoring **2008**, 259-266		
180	Nonlinear assessment of cerebral autoregulation from spontaneous blood pressure and cerebral blood flow fluctuations. *Cardiovascular Engineering (Dordrecht, Netherlands)*, **2008**, 8, 60-71		65
179	Cerebral dysautoregulation and the risk of ischemic events in occlusive carotid artery disease. *Journal of Neurology*, **2008**, 255, 1182-9	5.5	54
178	Ventriculostomy for control of raised ICP in acute traumatic brain injury. *Acta Neurochirurgica Supplementum*, **2008**, 102, 99-104	1.7	44
177	How does CSF dynamics change after shunting?. *Acta Neurologica Scandinavica*, **2008**, 118, 182-8	3.8	40
176	Assessment of cerebrovascular resistance with model of cerebrovascular pressure transmission. *Acta Neurochirurgica Supplementum*, **2008**, 102, 37-41	1.7	2
175	Pulse amplitude of intracranial pressure waveform in hydrocephalus. *Acta Neurochirurgica Supplementum*, **2008**, 102, 137-40	1.7	12
174	ICM+, a flexible platform for investigations of cerebrospinal dynamics in clinical practice. *Acta Neurochirurgica Supplementum*, **2008**, 102, 145-51	1.7	43
173	Gender-related differences in intracranial hypertension and outcome after traumatic brain injury. *Acta Neurochirurgica Supplementum*, **2008**, 102, 25-8	1.7	14
172	Coupling of sagittal sinus pressure and cerebrospinal fluid pressure in idiopathic intracranial hypertension--a preliminary report. *Acta Neurochirurgica Supplementum*, **2008**, 102, 283-5	1.7	46
171	Laboratory study on "intracranial hypotension" created by pumping the chamber of a hydrocephalus shunt. *Cerebrospinal Fluid Research*, **2007**, 4, 2		11
170	Predictive value of initial clinical status, intracranial pressure and transcranial Doppler pulsatility after subarachnoid haemorrhage. *Acta Neurochirurgica*, **2007**, 149, 575-83	3	55
169	Dynamic cerebral autoregulation: should intracranial pressure be taken into account?. *Acta Neurochirurgica*, **2007**, 149, 549-55; discussion 555	3	23
168	Assessment of cerebrospinal fluid outflow resistance. *Medical and Biological Engineering and Computing*, **2007**, 45, 719-35	3.1	93
167	Is there a direct link between cerebrovascular activity and cerebrospinal fluid pressure-volume compensation?. *Stroke*, **2007**, 38, 2677-80	6.7	20
166	Pulse pressure waveform in hydrocephalus: what it is and what it isn't. *Neurosurgical Focus*, **2007**, 22, E2	4.2	27
165	Association between intracranial, arterial pulse pressure amplitudes and cerebral autoregulation in head injury patients. *Neurological Research*, **2007**, 29, 578-82	2.7	32
164	A synopsis of brain pressures: which? when? are they all useful?. *Neurological Research*, **2007**, 29, 672-9	2.7	18

163	Slow oscillations in middle cerebral artery cerebral blood flow velocity and aging. *Neurological Research*, **2007**, 29, 260-3	2.7	3
162	Enhancement of cerebral blood flow using systemic hypertonic saline therapy improves outcome in patients with poor-grade spontaneous subarachnoid hemorrhage. *Journal of Neurosurgery*, **2007**, 107, 274-82	3.2	48
161	Continuous time-domain analysis of cerebrovascular autoregulation using near-infrared spectroscopy. *Stroke*, **2007**, 38, 2818-25	6.7	224
160	Cerebrovascular reactivity during hypothermia and rewarming. *British Journal of Anaesthesia*, **2007**, 99, 237-44	5.4	95
159	Intracranial pressure: more than a number. *Neurosurgical Focus*, **2007**, 22, E10	4.2	78
158	Predictive value of initial computerized tomography scan, intracranial pressure, and state of autoregulation in patients with traumatic brain injury. *Journal of Neurosurgery*, **2006**, 104, 731-7	3.2	114
157	In vitro hydrodynamic properties of the Miethke ProGAV hydrocephalus shunt. *Cerebrospinal Fluid Research*, **2006**, 3, 9		26
156	Reply to Comments on Analysis of intracranial pressure during and after the infusion test in patients with communicating hydrocephalus *Physiological Measurement*, **2006**, 27, L9-L12	2.9	
155	Effects of acute treatment with statins on cerebral autoregulation in patients after aneurysmal subarachnoid hemorrhage. *Neurosurgical Focus*, **2006**, 21, E10	4.2	31
154	Impact of intracranial pressure and cerebral perfusion pressure on severe disability and mortality after head injury. *Neurocritical Care*, **2006**, 4, 8-13	3.3	237
153	Monitoring and Interpretation of Intracranial Pressure **2006**, 285-313		3
152	Intracranial pressure monitoring: modeling cerebrovascular pressure transmission. *Acta Neurochirurgica Supplementum*, **2006**, 96, 103-7	1.7	8
151	Use of ICM+ software for on-line analysis of intracranial and arterial pressures in head-injured patients. *Acta Neurochirurgica Supplementum*, **2006**, 96, 108-13	1.7	21
150	Monitoring and interpretation of intracranial pressure after head injury. *Acta Neurochirurgica Supplementum*, **2006**, 96, 114-8	1.7	56
149	Dynamic cerebral autoregulation in acute ischemic stroke assessed from spontaneous blood pressure fluctuations. *Stroke*, **2005**, 36, 1684-9	6.7	119
148	Hydrocephalus, ventriculomegaly and the vegetative state: a review. *Neuropsychological Rehabilitation*, **2005**, 15, 224-36	3.1	12
147	Cerebrospinal Fluid Dynamics **2005**, 47-63		5
146	Imaging of cerebral blood flow and metabolism in brain injury in the ICU. *Acta Neurochirurgica Supplementum*, **2005**, 95, 459-64	1.7	14

145	Cerebral haemodynamics assessed by transcranial Doppler ultrasonography during orthotopic liver transplant. A preliminary report. *European Journal of Anaesthesiology*, **2005**, 22, 11	2.3	
144	Intraventricular or lumbar infusion test in adult communicating hydrocephalus? Practical consequences and clinical outcome of shunt operation. *Acta Neurochirurgica*, **2005**, 147, 1027-35; discussion 1035-6	3	20
143	Hydrocephalus shunts and waves of intracranial pressure. *Medical and Biological Engineering and Computing*, **2005**, 43, 71-7	3.1	32
142	Age, intracranial pressure, autoregulation, and outcome after brain trauma. *Journal of Neurosurgery* , **2005**, 102, 450-4	3.2	140
141	CSF pulse pressure and B waves. *Journal of Neurosurgery*, **2005**, 103, 767-8; author reply 768	3.2	3
140	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. *Stroke*, **2005**, 36, 1627-32	6.7	364
139	Analysis of intracranial pressure during and after the infusion test in patients with communicating hydrocephalus. *Physiological Measurement*, **2005**, 26, 1039-48	2.9	31
138	Asymmetry of critical closing pressure following head injury. *Journal of Neurology, Neurosurgery and Psychiatry*, **2005**, 76, 1570-3	5.5	15
137	Decompressive craniectomy following traumatic brain injury leads to reduction in intracranial pressure and improves cerebral autoregulation. *European Journal of Anaesthesiology*, **2005**, 22, 8	2.3	
136	Clinical Aspects of Disorders of the Choroid Plexus and the CSF Circulation **2005**, 497-517		
135	Cerebral perfusion pressure or arterial pressure only: How to assess dynamic cerebral autoregulation more accurately?. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S175-S175	7.3	
134	Asymmetry of cerebral circulation in injured brain. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S563-S563	7.3	
133	Evaluation of the mathematical assumption underlying numerical identification modeling of cerebrovascular pressure transmission. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S188-S188	7.3	
132	Cerebral haemodynamics assessed by transcranial Doppler ultrasonography during orthotopic liver transplant. A preliminary report. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S183-S183	7.3	
131	ICM+: software for on-line analysis of bedside monitoring data after severe head trauma. *Acta Neurochirurgica Supplementum*, **2005**, 95, 43-9	1.7	77
130	Effects of moderate hyperventilation on cerebrovascular pressure-reactivity after head injury. *Acta Neurochirurgica Supplementum*, **2005**, 95, 17-20	1.7	24
129	The relationship between CSF circulation and cerebrovascular pressure-reactivity in normal pressure hydrocephalus. *Acta Neurochirurgica Supplementum*, **2005**, 95, 207-11	1.7	13
128	Evaluation of three new models of hydrocephalus shunts. *Acta Neurochirurgica Supplementum*, **2005**, 95, 223-7	1.7	10

127	Clinical testing of CSF circulation in hydrocephalus. *Acta Neurochirurgica Supplementum*, **2005**, 95, 247-51	1.7	28
126	Intracranial baroreflex yielding an early cushing response in human. *Acta Neurochirurgica Supplementum*, **2005**, 95, 253-6	1.7	30
125	Association between outcome, cerebral pressure reactivity and slow ICP waves following head injury. *Acta Neurochirurgica Supplementum*, **2005**, 95, 25-8	1.7	42
124	Plateau waves: changes of cerebrovascular pressure transmission. *Acta Neurochirurgica Supplementum*, **2005**, 95, 327-32	1.7	10
123	Concept of "true ICP" in monitoring and prognostication in head trauma. *Acta Neurochirurgica Supplementum*, **2005**, 95, 341-4	1.7	20
122	Fuzzy pattern classification of hemodynamic data can be used to determine noninvasive intracranial pressure. *Acta Neurochirurgica Supplementum*, **2005**, 95, 345-9	1.7	11
121	Slight elevation of baseline intracranial pressure after fluid infusion into CSF space in patients with hydrocephalus. *Neurological Research*, **2004**, 26, 628-31	2.7	13
120	Critical closing pressure in subarachnoid hemorrhage: effect of cerebral vasospasm and limitations of a transcranial Doppler-derived estimation. *Stroke*, **2004**, 35, 1393-8	6.7	36
119	Pattern of white matter regional cerebral blood flow and autoregulation in normal pressure hydrocephalus. *Brain*, **2004**, 127, 965-72	11.2	181
118	Effect of carotid endarterectomy or stenting on impairment of dynamic cerebral autoregulation. *Stroke*, **2004**, 35, 1381-7	6.7	72
117	Changes in cerebral blood flow during cerebrospinal fluid pressure manipulation in patients with normal pressure hydrocephalus: a methodological study. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 579-87	7.3	56
116	Normal pressure hydrocephalus and cerebral blood flow: a PET study of baseline values. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 17-23	7.3	112
115	Cerebrospinal fluid dynamics. *Physiological Measurement*, **2004**, 25, R51-76	2.9	142
114	Intracranial hypertension: what additional information can be derived from ICP waveform after head injury?. *Acta Neurochirurgica*, **2004**, 146, 131-41	3	124
113	Sustained moderate reductions in arterial CO2 after brain trauma time-course of cerebral blood flow velocity and intracranial pressure. *Intensive Care Medicine*, **2004**, 30, 2180-7	14.5	42
112	Link between vasogenic waves of intracranial pressure and cerebrospinal fluid outflow resistance in normal pressure hydrocephalus. *British Journal of Neurosurgery*, **2004**, 18, 56-61	1	34
111	Monitoring and interpretation of intracranial pressure. *Journal of Neurology, Neurosurgery and Psychiatry*, **2004**, 75, 813-21	5.5	487
110	Continuous assessment of cerebral autoregulation in subarachnoid hemorrhage. *Anesthesia and Analgesia*, **2004**, 98, 1133-1139	3.9	100

109	Pressure autoregulation and positron emission tomography-derived cerebral blood flow acetazolamide reactivity in patients with carotid artery stenosis. *Neurosurgery*, **2004**, 55, 63-7; discussion 67-8	3.2	24
108	Predictive value of Glasgow Coma Scale after brain trauma: change in trend over the past ten years. *Journal of Neurology, Neurosurgery and Psychiatry*, **2004**, 75, 161-2	5.5	159
107	Estimation of critical closing pressure and cerebral perfusion pressure using transcranial Doppler. *British Journal of Anaesthesia*, **2003**, 90, 396-7; author reply 396-7	5.4	2
106	Calculation of the resistance to CSF outflow. *Journal of Neurology, Neurosurgery and Psychiatry*, **2003**, 74, 1354; author reply 1354-5	5.5	6
105	Assessment of cerebrovascular autoregulation in head-injured patients: a validation study. *Stroke*, **2003**, 34, 2404-9	6.7	154
104	Asymmetry of pressure autoregulation after traumatic brain injury. *Journal of Neurosurgery*, **2003**, 99, 991-8	3.2	55
103	Cerebral autoregulation in carotid artery occlusive disease assessed from spontaneous blood pressure fluctuations by the correlation coefficient index. *Stroke*, **2003**, 34, 2138-44	6.7	112
102	Sex-related differences and traumatic brain injury. *Journal of Neurosurgery*, **2003**, 99, 616; author reply 616-7	3.2	3
101	Cerebrospinal fluid production. *Journal of Neurosurgery*, **2003**, 99, 206-7; author reply 207	3.2	18
100	Tissue oxygen reactivity and cerebral autoregulation after severe traumatic brain injury. *Critical Care Medicine*, **2003**, 31, 267-71	1.4	84
99	The effects of large-dose propofol on cerebrovascular pressure autoregulation in head-injured patients. *Anesthesia and Analgesia*, **2003**, 97, 572-576	3.9	47
98	Hydrodynamic properties of extraventricular drainage systems. *Neurosurgery*, **2003**, 52, 619-23; discussion 623	3.2	3
97	Adaptive noninvasive assessment of intracranial pressure and cerebral autoregulation. *Stroke*, **2003** , 34, 84-9	6.7	95
96	Positron Emission Tomographic Cerebral Perfusion Disturbances and Transcranial Doppler Findings among Patients with Neurological Deterioration after Subarachnoid Hemorrhage. *Neurosurgery*, **2003**, 52, 1017-1024	3.2	91
95	Pressure-autoregulation, CO2 reactivity and asymmetry of haemodynamic parameters in patients with carotid artery stenotic disease. A clinical appraisal. *Acta Neurochirurgica*, **2003**, 145, 527-32; discussion 532	3	30
94	Symmetry of Cerebral Hemodynamic Indices Derived from Bilateral Transcranial Doppler. *Journal of Neuroimaging*, **2003**, 13, 248-254	2.8	28
93	Responses of posttraumatic pericontusional cerebral blood flow and blood volume to an increase in cerebral perfusion pressure. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 1371-7	7.3	61
92	Cerebrovascular pressure reactivity is related to global cerebral oxygen metabolism after head injury. *Journal of Neurology, Neurosurgery and Psychiatry*, **2003**, 74, 765-70	5.5	55

91	Hysteresis of the cerebrospinal pressure-volume curve in hydrocephalus. *Acta Neurochirurgica Supplementum*, **2003**, 86, 529-32	1.7	14
90	Continuous assessment of cerebral autoregulation: clinical and laboratory experience. *Acta Neurochirurgica Supplementum*, **2003**, 86, 581-5	1.7	33
89	Laboratory testing of hydrocephalus shunts -- conclusion of the U.K. Shunt evaluation programme. *Acta Neurochirurgica*, **2002**, 144, 525-38; discussion 538	3	44
88	Clinical applications of a non-invasive ICP monitoring method. *European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology*, **2002**, 16, 37-45		28
87	Continuous monitoring of cerebrovascular autoregulation: a validation study. *Journal of Neurology, Neurosurgery and Psychiatry*, **2002**, 72, 583-6	5.5	92
86	Cerebral Autoregulation among Patients with Symptoms of Hydrocephalus. *Neurosurgery*, **2002**, 50, 526-533	3.2	5
85	Elastance correlates with outcome after endoscopic third ventriculostomy in adults with hydrocephalus caused by primary aqueductal stenosis. *Neurosurgery*, **2002**, 50, 70-7	3.2	52
84	Elastance Correlates with Outcome after Endoscopic Third Ventriculostomy in Adults with Hydrocephalus Caused by Primary Aqueductal Stenosis. *Neurosurgery*, **2002**, 50, 70-77	3.2	37
83	Continuous monitoring of cerebrovascular pressure reactivity allows determination of optimal cerebral perfusion pressure in patients with traumatic brain injury. *Critical Care Medicine*, **2002**, 30, 733-8	1.4	519
82	Cerebral autoregulation among patients with symptoms of hydrocephalus. *Neurosurgery*, **2002**, 50, 526-32; discussion 532-3	3.2	52
81	A laboratory model of testing shunt performance after implantation. *British Journal of Neurosurgery*, **2002**, 16, 30-5	1	20
80	Factors determining mean ICP in hydrocephalic patients with Hakim-programmable valve: implications of the parallel arrangement of the CSF outflow resistance and shunt. *Acta Neurochirurgica Supplementum*, **2002**, 81, 23-6	1.7	1
79	Multi-modal monitoring of acute brain injury. *Advances and Technical Standards in Neurosurgery*, **2002**, 27, 87-134		37
78	Communicating hydrocephalus: the biomechanics of progressive ventricular enlargement revisited. *Acta Neurochirurgica Supplementum*, **2002**, 81, 59-63	1.7	33
77	Clinical significance of cerebral autoregulation. *Acta Neurochirurgica Supplementum*, **2002**, 81, 117-9	1.7	17
76	Shunt testing in-vivo: a method based on the data from the UK shunt evaluation laboratory. *Acta Neurochirurgica Supplementum*, **2002**, 81, 27-30	1.7	31
75	A model of the cerebral and cerebrospinal fluid circulations to examine asymmetry in cerebrovascular reactivity. *Journal of Cerebral Blood Flow and Metabolism*, **2001**, 21, 182-92	7.3	21
74	Preliminary experience of the estimation of cerebral perfusion pressure using transcranial Doppler ultrasonography. *Journal of Neurology, Neurosurgery and Psychiatry*, **2001**, 70, 198-204	5.5	61

73	Age dependence of cerebrospinal pressure-volume compensation in patients with hydrocephalus. *Journal of Neurosurgery*, **2001**, 94, 482-6	3.2	79
72	Bifrontal decompressive craniectomy in the management of posttraumatic intracranial hypertension. *British Journal of Neurosurgery*, **2001**, 15, 500-7	1	140
71	Cerebral autoregulation following head injury. *Journal of Neurosurgery*, **2001**, 95, 756-63	3.2	223
70	Cerebral venous blood outflow: a theoretical model based on laboratory simulation. *Neurosurgery*, **2001**, 49, 1214-22; discussion 1222-3	3.2	35
69	Laboratory evaluation of the phoenix CRx diamond valve. *Neurosurgery*, **2001**, 48, 689-93; discussion 693-4	3.2	6
68	Cerebral Venous Blood Outflow: A Theoretical Model Based on Laboratory Simulation. *Neurosurgery*, **2001**, 49, 1214-1223	3.2	26
67	Association between arterial and intracranial pressures. *British Journal of Neurosurgery*, **2000**, 14, 127-8	1	13
66	Continuous assessment of cerebral autoregulation--clinical verification of the method in head injured patients. *Acta Neurochirurgica Supplementum*, **2000**, 76, 483-4	1.7	22
65	Non-invasive cerebral perfusion pressure (nCPP): evaluation of the monitoring methodology in head injured patients. *Acta Neurochirurgica Supplementum*, **2000**, 76, 451-2	1.7	16
64	The continuous assessment of cerebrovascular reactivity: a validation of the method in healthy volunteers. *Anesthesia and Analgesia*, **1999**, 89, 944-9	3.9	32
63	Hemodynamic characterization of intracranial pressure plateau waves in head-injury patients. *Journal of Neurosurgery*, **1999**, 91, 11-9	3.2	73
62	Critical closing pressure in cerebrovascular circulation. *Journal of Neurology, Neurosurgery and Psychiatry*, **1999**, 66, 606-11	5.5	71
61	Cerebral vasodilatation causing acute intracranial hypertension: a method for noninvasive assessment. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 990-6	7.3	25
60	Monitoring of intracranial compliance: correction for a change in body position. *Acta Neurochirurgica*, **1999**, 141, 31-6; discussion 35-6	3	29
59	Assessment of critical closing pressure in the cerebral circulation as a measure of cerebrovascular tone. *Acta Neurochirurgica*, **1999**, 141, 1221-7 discussion 1226-7	3	28
58	Specific patterns of cognitive impairment in patients with idiopathic normal pressure hydrocephalus and Alzheimer's disease: a pilot study. *Journal of Neurology, Neurosurgery and Psychiatry*, **1999**, 67, 723-32	5.5	128
57	Vascular components of cerebrospinal fluid compensation. *Journal of Neurosurgery*, **1999**, 90, 752-9	3.2	37
56	The Continuous Assessment of Cerebrovascular Reactivity: A Validation of the Method in Healthy Volunteers. *Anesthesia and Analgesia*, **1999**, 89, 944	3.9	79

55	Hydrodynamic performance of a new siphon preventing device: the SiphonGuard. *Journal of Neurology, Neurosurgery and Psychiatry*, **1999**, 66, 408-9	5.5	11
54	Cerebral perfusion pressure in head-injured patients: a noninvasive assessment using transcranial Doppler ultrasonography. *Journal of Neurosurgery*, **1998**, 88, 802-8	3.2	162
53	Posture-related overdrainage: comparison of the performance of 10 hydrocephalus shunts in vitro. *Neurosurgery*, **1998**, 42, 327-33; discussion 333-4	3.2	93
52	Continuous monitoring of cerebrovascular pressure-reactivity in head injury. *Acta Neurochirurgica Supplementum*, **1998**, 71, 74-7	1.7	54
51	Hydrodynamic properties of hydrocephalus shunts. *Acta Neurochirurgica Supplementum*, **1998**, 71, 334-9	1.7	27
50	The relationship of vasogenic waves to ICP and cerebral perfusion pressure in head injured patients. *Acta Neurochirurgica Supplementum*, **1998**, 71, 297-9	1.7	3
49	Indices for decreased cerebral blood flow control--a modelling study. *Acta Neurochirurgica Supplementum*, **1998**, 71, 269-71	1.7	5
48	Increase in transcranial Doppler pulsatility index does not indicate the lower limit of cerebral autoregulation. *Acta Neurochirurgica Supplementum*, **1998**, 71, 229-32	1.7	15
47	Evaluation of the transient hyperemic response test in head-injured patients. *Journal of Neurosurgery*, **1997**, 86, 773-8	3.2	94
46	Laboratory testing of the Spiegelberg brain pressure monitor: a technical report. *Journal of Neurology, Neurosurgery and Psychiatry*, **1997**, 63, 732-5	5.5	26
45	Hydrodynamic properties of hydrocephalus shunts: United Kingdom Shunt Evaluation Laboratory. *Journal of Neurology, Neurosurgery and Psychiatry*, **1997**, 62, 43-50	5.5	48
44	Contribution of mathematical modelling to the interpretation of bedside tests of cerebrovascular autoregulation. *Journal of Neurology, Neurosurgery and Psychiatry*, **1997**, 63, 721-31	5.5	105
43	A computing system for the clinical and experimental investigation of cerebrovascular reactivity. *Journal of Clinical Monitoring and Computing*, **1997**, 14, 185-98		10
42	Continuous assessment of the cerebral vasomotor reactivity in head injury. *Neurosurgery*, **1997**, 41, 11-7; discussion 17-9	3.2	591
41	Changes in transcranial Doppler flow velocity waveform following inhibition of nitric oxide synthesis. Experimental study in anaesthetised rabbits. *Acta Neurochirurgica*, **1997**, 139, 63-9; discussion 69-70	3	8
40	Clinical evaluation of near-infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. *Stroke*, **1997**, 28, 331-8	6.7	71
39	. *Journal of Clinical Monitoring and Computing*, **1997**, 14, 185-198		18
38	Early effects of mannitol in patients with head injuries assessed using bedside multimodality monitoring. *Neurosurgery*, **1996**, 39, 714-20; discussion 720-1	3.2	55

37	Laboratory testing of three intracranial pressure microtransducers: technical report. *Neurosurgery*, **1996**, 38, 219-24	3.2	95
36	Significance of intracranial pressure waveform analysis after head injury. *Acta Neurochirurgica*, **1996**, 138, 531-41; discussion 541-2	3	121
35	A feedback-controlled pump produces stable hypotension in anaesthetised rabbits. *Journal of Cerebral Blood Flow and Metabolism*, **1996**, 16, 532-6	7.3	2
34	Multimodal monitoring in neurointensive care. *Journal of Neurology, Neurosurgery and Psychiatry*, **1996**, 60, 131-9	5.5	33
33	Testing of cerebrospinal compensatory reserve in shunted and non-shunted patients: a guide to interpretation based on an observational study. *Journal of Neurology, Neurosurgery and Psychiatry*, **1996**, 60, 549-58	5.5	95
32	Relationship between transcranial Doppler-determined pulsatility index and cerebrovascular resistance: an experimental study. *Journal of Neurosurgery*, **1996**, 84, 79-84	3.2	139
31	Monitoring of cerebral autoregulation in head-injured patients. *Stroke*, **1996**, 27, 1829-34	6.7	382
30	Assessment of cerebral autoregulation using carotid artery compression. *Stroke*, **1996**, 27, 2197-203	6.7	104
29	Multimodal monitoring and assessment of cerebral haemodynamic reserve after severe head injury. *Cerebrovascular and Brain Metabolism Reviews*, **1996**, 8, 273-95		22
28	Identification of the cerebrospinal compensatory mechanisms via computer-controlled drainage of the cerebrospinal fluid. *Childis Nervous System*, **1995**, 11, 297-300	1.7	6
27	Estimation of laser-Doppler flux biological zero using basilar artery flow velocity in the rabbit. *American Journal of Physiology - Heart and Circulatory Physiology*, **1995**, 268, H213-7	5.2	7
26	Near-infrared spectroscopy use in patients with head injury. *Journal of Neurosurgery*, **1995**, 83, 963-70	3.2	116
25	Computerised transient hyperaemic response test--a method for the assessment of cerebral autoregulation. *Ultrasound in Medicine and Biology*, **1995**, 21, 599-611	3.5	54
24	Can cerebrovascular reactivity be measured with near-infrared spectroscopy?. *Stroke*, **1995**, 26, 2285-92	6.7	91
23	Continuous monitoring of cortical perfusion by laser Doppler flowmetry in ventilated patients with head injury. *Journal of Neurology, Neurosurgery and Psychiatry*, **1994**, 57, 1382-8	5.5	43
22	Monitoring of cerebrospinal dynamics using continuous analysis of intracranial pressure and cerebral perfusion pressure in head injury. *Acta Neurochirurgica*, **1994**, 126, 113-9	3	46
21	Computer supported multimodal bed-side monitoring for neuro intensive care. *Journal of Clinical Monitoring and Computing*, **1994**, 11, 223-32		67
20	Frequency-dependent properties of cerebral blood transport--an experimental study in anaesthetized rabbits. *Ultrasound in Medicine and Biology*, **1994**, 20, 391-9	3.5	30

19	Assessment of cerebral autoregulation with ultrasound and laser Doppler wave forms--an experimental study in anesthetized rabbits. *Neurosurgery*, **1994**, 35, 287-92; discussion 292-3	3.2	31
18	Testing of cerebral autoregulation in head injury by waveform analysis of blood flow velocity and cerebral perfusion pressure **1994**, 60, 468-71		16
17	Management of raised intracranial pressure. *Journal of Neurology, Neurosurgery and Psychiatry*, **1993**, 56, 845-58	5.5	84
16	Cerebrospinal compensation in hydrocephalic children. *Childis Nervous System*, **1993**, 9, 17-22	1.7	22
15	CO2 cerebrovascular reactivity as a function of perfusion pressure--a modelling study. *Acta Neurochirurgica*, **1993**, 121, 159-65	3	30
14	Dynamics of Hydrocephalus Development After Spontaneous Subarachnoid Hemorrhage **1993**, 845-849		1
13	Experimental Aspects of Cerebrospinal Hemodynamics. *Neurosurgery*, **1992**, 31, 705-710	3.2	33
12	The hyperaemic response to a transient reduction in cerebral perfusion pressure. A modelling study. *Acta Neurochirurgica*, **1992**, 115, 90-7	3	53
11	Computerized infusion test compared to steady pressure constant infusion test in measurement of resistance to CSF outflow. *Acta Neurochirurgica*, **1992**, 119, 12-6	3	66
10	Experimental aspects of cerebrospinal hemodynamics: the relationship between blood flow velocity waveform and cerebral autoregulation. *Neurosurgery*, **1992**, 31, 705-9; discussion 709-10	3.2	54
9	Comparison between classic-differential and automatic shunt functioning on the basis of infusion tests. *Acta Neurochirurgica*, **1990**, 106, 1-8	3	19
8	A computer system for the identification of the cerebrospinal compensatory model. *Acta Neurochirurgica*, **1990**, 105, 112-6	3	64
7	The role of cerebrospinal compensatory parameters in the estimation of functioning of implanted shunt system in patients with communicating hydrocephalus (preliminary report). *Acta Neurochirurgica*, **1989**, 101, 112-6	3	25
6	Application of Advanced Forms of Intracranial Pressure Analysis in Craniosynostosis **1989**, 189-192		2
5	Analysis of intracranial pressure waveform during infusion test. *Acta Neurochirurgica*, **1988**, 93, 140-5	3	50
4	Monitoring of intracranial pressure and assessment of cerebrospinal fluid dynamics150-163		1
3	Intracranial pressure45-62		1
2	A phase-contrast MRI study of physiologic cerebral venous flow. *Journal of Cerebral Blood Flow and Metabolism*,	7.3	6

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