William B Gormley

List of Publications by Year
in descending order

82 papers	2,439 citations	236925 25 h-index	214800 47 g-index
82 all docs	82 docs citations	82 times ranked	3325 citing authors

#	Article	IF	Citations
1	Machine Learning and Neurosurgical Outcome Prediction: A Systematic Review. World Neurosurgery, 2018, 109, 476-486.e1.	1.3	302
2	Natural and Artificial Intelligence in Neurosurgery: A Systematic Review. Neurosurgery, 2018, 83, 181-192.	1.1	182
3	Length of hospital stay after craniotomy for tumor: a National Surgical Quality Improvement Program analysis. Neurosurgical Focus, 2015, 39, E12.	2.3	118
4	An introduction and overview of machine learning in neurosurgical care. Acta Neurochirurgica, 2018, 160, 29-38.	1.7	116
5	Intracranial Pressure Monitoringâ€"Review and Avenues for Development. Sensors, 2018, 18, 465.	3.8	110
6	Cis P-tau is induced in clinical and preclinical brain injury and contributes to post-injury sequelae. Nature Communications, 2017, 8, 1000.	12.8	103
7	The endoscopic endonasal approach is not superior to the microscopic transcranial approach for anterior skull base meningiomasâ€"a meta-analysis. Acta Neurochirurgica, 2018, 160, 59-75.	1.7	93
8	Thirty-day readmission and reoperation after surgery for spinal tumors: a National Surgical Quality Improvement Program analysis. Neurosurgical Focus, 2016, 41, E5.	2.3	92
9	Timing of Decompressive Hemicraniectomy for Stroke. Stroke, 2017, 48, 704-711.	2.0	78
10	Development of machine learning algorithms for prediction of prolonged opioid prescription after surgery for lumbar disc herniation. Spine Journal, 2019, 19, 1764-1771.	1.3	75
11	An Online Calculator for the Prediction of Survival in Glioblastoma Patients Using Classical Statistics and Machine Learning. Neurosurgery, 2020, 86, E184-E192.	1.1	75
12	Development of machine learning algorithms for prediction of discharge disposition after elective inpatient surgery for lumbar degenerative disc disorders. Neurosurgical Focus, 2018, 45, E6.	2.3	72
13	Platelet dysfunction and platelet transfusion in traumatic brain injury. Journal of Surgical Research, 2015, 193, 802-806.	1.6	56
14	Hospital-Acquired Infections after Aneurysmal Subarachnoid Hemorrhage: A Nationwide Analysis. World Neurosurgery, 2016, 88, 459-474.	1.3	55
15	Venous thromboembolism and intracranial hemorrhage after craniotomy for primary malignant brain tumors: a National Surgical Quality Improvement Program analysis. Journal of Neuro-Oncology, 2018, 136, 135-145.	2.9	50
16	Readmission After Craniotomy for Tumor: A National Surgical Quality Improvement Program Analysis. Neurosurgery, 2017, 80, 551-562.	1.1	49
17	Machine Learning Models can Detect Aneurysm Rupture and Identify Clinical Features Associated with Rupture. World Neurosurgery, 2019, 131, e46-e51.	1.3	45
18	Thirty-Day Outcomes After Craniotomy for Primary Malignant Brain Tumors. Neurosurgery, 2018, 83, 1249-1259.	1.1	44

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19	The Effectiveness of Antiepileptic Medications as Prophylaxis of Early Seizure in Patients with Traumatic Brain Injury Compared with Placebo or No Treatment: A Systematic Review and Meta-Analysis. World Neurosurgery, 2019, 122, 433-440.	1.3	42
20	Predicting nonroutine discharge after elective spine surgery: external validation of machine learning algorithms. Journal of Neurosurgery: Spine, 2019, 31, 742-747.	1.7	41
21	Unplanned Reoperation After Craniotomy for Tumor: A National Surgical Quality Improvement Program Analysis. Neurosurgery, 2017, 81, 761-771.	1.1	36
22	Global Perspectives on Task Shifting and Task Sharing in Neurosurgery. World Neurosurgery: X, 2020, 6, 100060.	1.1	35
23	International Defensive Medicine in Neurosurgery: Comparison of Canada, South Africa, and the United States. World Neurosurgery, 2016, 95, 53-61.	1.3	31
24	The Neurocritical and Neurosurgical Care of Subdural Hematomas. Neurocritical Care, 2016, 24, 294-307.	2.4	30
25	Thrombocytopenia and craniotomy for tumor: A National Surgical Quality Improvement Program analysis. Cancer, 2016, 122, 1708-1717.	4.1	28
26	Natural Language Processing for Automated Quantification of Brain Metastases Reported in Free-Text Radiology Reports. JCO Clinical Cancer Informatics, 2019, 3, 1-9.	2.1	28
27	Survival prediction of glioblastoma patientsâ€"are we there yet? A systematic review of prognostic modeling for glioblastoma and its clinical potential. Neurosurgical Review, 2021, 44, 2047-2057.	2.4	25
28	Defensive medicine among neurosurgeons in the Netherlands: a national survey. Acta Neurochirurgica, 2017, 159, 2341-2350.	1.7	24
29	Body habitus, serum albumin, and the outcomes after craniotomy for tumor: a National Surgical Quality Improvement Program analysis. Journal of Neurosurgery, 2017, 126, 677-689.	1.6	23
30	Evaluation of simulation models in neurosurgical training according to face, content, and construct validity: a systematic review. Acta Neurochirurgica, 2022, 164, 947-966.	1.7	23
31	Task-Shifting and Task-Sharing in Neurosurgery: An International Survey of Current Practices in Low- and Middle-Income Countries. World Neurosurgery: X, 2020, 6, 100059.	1.1	22
32	Classification of glioblastoma versus primary central nervous system lymphoma using convolutional neural networks. Scientific Reports, 2021, 11, 15219.	3.3	21
33	Fibrinolytics and Intraventricular Hemorrhage: A Systematic Review and Meta-analysis. Neurocritical Care, 2020, 32, 262-271.	2.4	19
34	Defensive medicine in neurosurgery: the Canadian experience. Journal of Neurosurgery, 2016, 124, 1524-1530.	1.6	18
35	Palliative Care and Communication Training in Neurosurgery Residency: Results of a Trainee Survey. Journal of Surgical Education, 2019, 76, 1691-1702.	2.5	17
36	Adverse Events After Microvascular Decompression: A National Surgical Quality Improvement Program Analysis. World Neurosurgery, 2019, 128, e884-e894.	1.3	16

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37	Task-Sharing for Emergency Neurosurgery: A Retrospective Cohort Study in the Philippines. World Neurosurgery: X, 2020, 6, 100058.	1.1	16
38	Cost-Benefit Analysis of Transitional Care in Neurosurgery. Neurosurgery, 2019, 85, 672-679.	1.1	15
39	Routine Blood Tests for Severe Traumatic Brain Injury: Can They Predict Outcomes?. World Neurosurgery, 2020, 136, e60-e67.	1.3	15
40	Automating Clinical Chart Review: An Open-Source Natural Language Processing Pipeline Developed on Free-Text Radiology Reports From Patients With Glioblastoma. JCO Clinical Cancer Informatics, 2020, 4, 25-34.	2.1	15
41	The Timing of Tracheostomy and Outcomes After Aneurysmal Subarachnoid Hemorrhage: A Nationwide Inpatient Sample Analysis. Neurocritical Care, 2018, 29, 326-335.	2.4	14
42	Ventriculostomy-associated hemorrhage: a risk assessment by radiographic simulation. Journal of Neurosurgery, 2017, 127, 532-536.	1.6	12
43	Hyperosmolar Therapy in Pediatric Severe Traumatic Brain Injuryâ€"A Systematic Review. Critical Care Medicine, 2019, 47, e1022-e1031.	0.9	11
44	Plasma PrPC and ADAM-10 as novel biomarkers for traumatic brain injury and concussion: a pilot study. Brain Injury, 2021, 35, 734-741.	1.2	11
45	Advanced Age and Postâ€"Acute Care Outcomes After Subarachnoid Hemorrhage. Journal of the American Heart Association, 2017, 6, .	3.7	10
46	International practice variation in postoperative imaging of chronic subdural hematoma patients. Journal of Neurosurgery, 2019, 131, 1912-1919.	1.6	10
47	Expandable Versus Static Cages in Minimally Invasive Lumbar Interbody Fusion: A Systematic Review and Meta-Analysis. World Neurosurgery, 2021, 151, e607-e614.	1.3	10
48	The Impact of Age and Severity on Dementia After Traumatic Brain Injury: A Comparison Study. Neurosurgery, 2021, 89, 810-818.	1.1	10
49	Validation of an International Classification of Disease, Ninth Revision coding algorithm to identify decompressive craniectomy for stroke. BMC Neurology, 2017, 17, 121.	1.8	9
50	Quality Programs in Neurosurgery: The Memorial Hermann/University of Texas Experience. Neurosurgery, 2017, 80, S65-S74.	1.1	9
51	The frequency and severity of intracranial hypotension post-intraoperative lumbar drainage using a Tuohy needle and the traditional needle. British Journal of Neurosurgery, 2016, 30, 438-443.	0.8	8
52	Long-term outcomes among octogenarians with aneurysmal subarachnoid hemorrhage. Journal of Neurosurgery, 2019, 131, 426-434.	1.6	6
53	Non-electrographic Seizures Due to Subdural Hematoma: A Case Series and Review of the Literature. Neurocritical Care, 2019, 30, 16-21.	2.4	6
54	Oversight and Ethical Regulation of Conflicts of Interest in Neurosurgery in the United States. Neurosurgery, 2019, 84, 305-312.	1.1	5

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55	Decreased Incidence of CSF Leaks after Skull Base Fractures in the 21st Century: An Institutional Report. Journal of Neurological Surgery, Part B: Skull Base, 2022, 83, 059-065.	0.8	5
56	Evitaâ€™s lobotomy. Journal of Clinical Neuroscience, 2015, 22, 1883-1888.	1.5	4
57	Unnecessary Diagnostics in Neurosurgery: Finding the Ethical Balance. World Neurosurgery, 2019, 125, 527-528.	1.3	4
58	Variance Reduction in Neurosurgical Practice: The Case for Analytics-Driven Decision Support in the Era of Big Data. World Neurosurgery, 2019, 126, e190-e195.	1.3	4
59	Neurosurgical complications: what the radiologist needs to know. Emergency Radiology, 2019, 26, 331-340.	1.8	4
60	The Assassination of Abraham Lincoln and the Evolution of Neuro-Trauma Care: Would the 16th President Have Survived in the Modern Era?. World Neurosurgery, 2015, 84, 1453-1457.	1.3	3
61	How a Lumbar Diskectomy Influenced Medical Malpractice and the Landscape of Health Care. World Neurosurgery, 2016, 86, 88-92.	1.3	3
62	Ruptured Suprasellar Dermoid Cyst Treated With Lumbar Drain to Prevent Postoperative Hydrocephalus: Case Report and Focused Review of Literature. Frontiers in Surgery, 2021, 8, 714771.	1.4	3
63	Venous Thromboembolism Risk and Outcomes Following Decompressive Craniectomy in Severe Traumatic Brain Injury: An Analysis of the Nationwide Inpatient Sample Database. World Neurosurgery, 2022, 161, e531-e545.	1.3	3
64	The neurosurgeon as baseball fan and inventor: Walter Dandy and the batterâ€™s helmet. Neurosurgical Focus, 2015, 39, E9.	2.3	2
65	Keen's Point for External Ventricular Drainage in Traumatic Brain Injury Patients: An Uncommon Indication for An Old Technique. World Neurosurgery, 2017, 102, 694.e1-694.e7.	1.3	2
66	Familial Predisposition and Differences in Radiographic Patterns in Spontaneous Nonaneurysmal Subarachnoid Hemorrhage. Neurosurgery, 2020, 88, 413-419.	1.1	2
67	Artificial Intelligence in Clinical Neurosurgery: More than Machinery. World Neurosurgery, 2021, 149, 302-303.	1.3	2
68	Frameless neuronavigation with computer vision and real-time tracking for bedside external ventricular drain placement: a cadaveric study. Journal of Neurosurgery, 2022, 136, 1475-1484.	1.6	2
69	The low utility of routine cranial imaging after pediatric shunt revision. Journal of Neurosurgery: Pediatrics, 2022, 29, 276-282.	1.3	2
70	Seizure Outcomes After Interventional Treatment in Cerebral Arteriovenous Malformationâ€“Associated Epilepsy: A Systematic Review and Meta-Analysis. World Neurosurgery, 2022, 160, e9-e22.	1.3	2
71	â€œExtraoperativeâ€•MRI (eoMRI) for Brain Tumor Surgery: Initial Results at a Single Institution. World Neurosurgery, 2015, 83, 921-928.	1.3	1
72	Outcomes of intraparenchymal hemorrhage after direct oral anticoagulant or vitamin K antagonist therapy: A systematic review and meta-analysis. Journal of Clinical Neuroscience, 2019, 62, 188-194.	1.5	1

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73	Medullary Infarction Leading to Locked-In Syndrome Following Lumbar Puncture in a Patient with Basilar Invagination. World Neurosurgery, 2020, 137, 292-295.	1.3	1
74	Divergence in the epidemiological estimates of traumatic brain injury in the United States: comparison of two national databases. Journal of Neurosurgery, 2020, , 1-10.	1.6	1
75	International practice variation in perioperative laboratory testing in glioblastoma patientsâ€"a retrospective cohort study. Acta Neurochirurgica, 2022, 164, 385-392.	1.7	1
76	Commentary: Response to â€œSystematic review and meta-analysis of external ventricular drain placement accuracy and narrative review of guidance devicesâ€• Journal of Clinical Neuroscience, 2022, 106, 238-239.	1.5	1
77	HOUT-20. AN ONLINE CALCULATOR FOR THE PREDICTION OF SURVIVAL AND ADJUVANT TREATMENT BENEFIT IN GLIOBLASTOMA PATIENTS. Neuro-Oncology, 2018, 20, vi117-vi117.	1.2	0
78	In Reply to the Letter to the Editor Regarding â€œTheÂEffectiveness of Antiepileptic Medications as Prophylaxis of Early Seizure in Patients with Traumatic Brain Injury Compared with Placebo or No Treatment: AÂSystematic Review and Meta-Analysisâ€• World Neurosurgery, 2019, 131, 307.	1.3	0
79	Extra-Axial Fluid Collections After Decompressive Craniectomy: Management, Outcomes, and Treatment Algorithm. World Neurosurgery, 2021, 149, e188-e196.	1.3	0
80	Incidence and Outcomes of Registry-Based Acute Myocardial Infarction After Aneurysmal Subarachnoid Hemorrhage. Neurocritical Care, 2021, , 1.	2.4	0
81	Decreased Rate of CSF Leaks after Skull Base Fractures in the 21st Century: A Two-Institution Experience. , 2020, 81, .		0
82	PATH-07. INFRATENTORIAL HIGH-GRADE GLIOMAS: NEUROSURGICAL CASE SERIES WITH MOLECULAR ANALYSIS. Neuro-Oncology, 2021, 23, vi116-vi116.	1.2	0