Hani J Marcus

List of Publications by Year
in descending order

142	3,673	159585	168389
papers	citations	30 h-index	53 g-index

152	152	152	3921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Use of drains versus no drains after burr-hole evacuation of chronic subdural haematoma: a randomised controlled trial. Lancet, The, 2009, 374, 1067-1073.	13.7	564
2	Effect of COVID-19 pandemic lockdowns on planned cancer surgery for 15 tumour types in 61 countries: an international, prospective, cohort study. Lancet Oncology, The, 2021, 22, 1507-1517.	10.7	171
3	In vivo assessment of high-grade glioma biochemistry using microdialysis: a study of energy-related molecules, growth factors and cytokines. Journal of Neuro-Oncology, 2010, 97, 11-23.	2.9	154
4	Trial of Dexamethasone for Chronic Subdural Hematoma. New England Journal of Medicine, 2020, 383, 2616-2627.	27.0	139
5	The management and outcome for patients with chronic subdural hematoma: a prospective, multicenter, observational cohort study in the United Kingdom. Journal of Neurosurgery, 2017, 127, 732-739.	1.6	131
6	Surgical data science â€“ from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	11.6	107
7	Augmented Reality Partial Nephrectomy: Examining the Current Status and Future Perspectives. Urology, 2014, 83, 266-273.	1.0	101
8	Robot-assisted and fluoroscopy-guided pedicle screw placement: a systematic review. European Spine Journal, 2014, 23, 291-297.	2.2	78
9	Patients' cosmetic satisfaction, pain, and functional outcomes after supraorbital craniotomy through an eyebrow incision. Journal of Neurosurgery, 2014, 121, 730-734.	1.6	63
10	Practice Makes Perfect? The Role of Simulation-Based Deliberate Practice and Script-Based Mental Rehearsal in the Acquisition and Maintenance of Operative Neurosurgical Skills. Neurosurgery, 2013, 72, A124-A130.	1.1	57
11	Robot-assisted stereotactic brain biopsy: systematic review and bibliometric analysis. Child's Nervous System, 2018, 34, 1299-1309.	1.1	56
12	da Vinci robot-assisted keyhole neurosurgery: a cadaver study on feasibility and safety. Neurosurgical Review, 2015, 38, 367-371.	2.4	53
13	Attitudes of Patients and Their Relatives Toward Artificial Intelligence in Neurosurgery. World Neurosurgery, 2020, 138, e627-e633.	1.3	52
14	Vestibular dysfunction in acute traumatic brain injury. Journal of Neurology, 2019, 266, 2430-2433.	3.6	51
15	Pituitary society guidance: pituitary disease management and patient care recommendations during the COVID-19 pandemicâ€”an international perspective. Pituitary, 2020, 23, 327-337.	2.9	49
16	Quantifying Innovation in Surgery. Annals of Surgery, 2014, 260, 205-211.	4.2	46
17	Preoperative nasopharyngeal swab testing and postoperative pulmonary complications in patients undergoing elective surgery during the SARS-CoV-2 pandemic. British Journal of Surgery, 2021, 108, 88-96.	0.3	45
18	Forces exerted during microneurosurgery: a cadaver study. International Journal of Medical Robotics and Computer Assisted Surgery, 2014, 10, 251-256.	2.3	43

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19	Comparative Effectiveness of 3-Dimensional vs 2-Dimensional and High-Definition vs Standard-Definition Neuroendoscopy. Neurosurgery, 2014, 74, 375-381.	1.1	41
20	Regulatory approval of new medical devices: cross sectional study. BMJ, The, 2016, 353, i2587.	6.0	40
21	Technological innovation in neurosurgery: a quantitative study. Journal of Neurosurgery, 2015, 123, 174-181.	1.6	39
22	Simulation for skills training in neurosurgery: a systematic review, meta-analysis, and analysis of progressive scholarly acceptance. Neurosurgical Review, 2021, 44, 1853-1867.	2.4	39
23	Trends in the diffusion of robotic surgery: A retrospective observational study. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1870.	2.3	38
24	Surgical Robotics Through a Keyhole: From Today's Translational Barriers to Tomorrow's â€œDisappearingâ€•Robots. IEEE Transactions on Biomedical Engineering, 2013, 60, 674-681.	4.2	37
25	A Smart Haptic Hand-Held Device for Neurosurgical Microdissection. Annals of Biomedical Engineering, 2015, 43, 2185-2195.	2.5	37
26	Dexamethasone for adult patients with a symptomatic chronic subdural haematoma (Dex-CSDH) trial: study protocol for a randomised controlled trial. Trials, 2018, 19, 670.	1.6	37
27	Image-guided resection of spheno-orbital skull-base meningiomas with predominant intraosseous component. Acta Neurochirurgica, 2013, 155, 981-988.	1.7	36
28	Tool-tissue forces in surgery: A systematic review. Annals of Medicine and Surgery, 2021, 65, 102268.	1.1	36
29	Endoscopic and keyhole endoscope-assisted neurosurgical approaches: A qualitative survey on technical challenges and technological solutions. British Journal of Neurosurgery, 2014, 28, 606-610.	0.8	34
30	Intraoperative Ultrasound in Patients Undergoing Transsphenoidal Surgery for Pituitary Adenoma: Systematic Review. World Neurosurgery, 2017, 106, 680-685.	1.3	34
31	Robot-Assisted Minimally Invasive Surgery for Pediatric Solid Tumors: A Systematic Review of Feasibility and Current Status. European Journal of Pediatric Surgery, 2014, 24, 127-135.	1.3	33
32	Meta analysis of robot-assisted versus conventional laparoscopic fundoplication in children. Journal of Pediatric Surgery, 2014, 49, 646-652.	1.6	32
33	Inattention blindness in surgery. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 3184-3189.	2.4	32
34	Near-infrared spectroscopy (NIRS) to detect traumatic intracranial haematoma: A systematic review and meta-analysis. Brain Injury, 2017, 31, 581-588.	1.2	31
35	How do infertile couples choose their IVF centers? An Internet-based survey. Fertility and Sterility, 2005, 83, 779-781.	1.0	30
36	Comparative effectiveness and safety of image guidance systems in neurosurgery: a preclinical randomized study. Journal of Neurosurgery, 2015, 123, 307-313.	1.6	29

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37	Vision-based deformation recovery for intraoperative force estimation of toolâ€“tissue interaction for neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 929-936.	2.8	28
38	Robotic surgery in children: adopt now, await, or dismiss?. Pediatric Surgery International, 2015, 31, 1119-1125.	1.4	27
39	Global trends in paediatric robot-assisted urological surgery: a bibliometric and Progressive Scholarly Acceptance analysis. Journal of Robotic Surgery, 2018, 12, 109-115.	1.8	27
40	Proposal for a prospective multi-centre audit of chronic subdural haematoma management in the United Kingdom and Ireland. British Journal of Neurosurgery, 2014, 28, 199-203.	0.8	26
41	Robotics in Keyhole Transcranial Endoscope-Assisted Microsurgery. Operative Neurosurgery, 2014, 10, 84-96.	0.8	26
42	Automated Vision-Based Microsurgical Skill Analysis in Neurosurgery Using Deep Learning: Development and Preclinical Validation. World Neurosurgery, 2021, 149, e669-e686.	1.3	26
43	IDEAL-D Framework for Device Innovation. Annals of Surgery, 2022, 275, 73-79.	4.2	25
44	International attitudes of early adopters to current and future robotic technologies in pediatric surgery. Journal of Pediatric Surgery, 2014, 49, 1522-1526.	1.6	24
45	Prognosis of patients with bilateral fixed dilated pupils secondary to traumatic extradural or subdural haematoma who undergo surgery: a systematic review and meta-analysis. Emergency Medicine Journal, 2015, 32, 654-659.	1.0	24
46	Robot-assisted stereotactic brainstem biopsy in children: prospective cohort study. Journal of Robotic Surgery, 2019, 13, 575-579.	1.8	24
47	Skull base repair following endonasal pituitary and skull base tumour resection: a systematic review. Pituitary, 2021, 24, 698-713.	2.9	24
48	Pituitary society expert Delphi consensus: operative workflow in endoscopic transsphenoidal pituitary adenoma resection. Pituitary, 2021, 24, 839-853.	2.9	24
49	Artificial Intelligence in Brain Tumour Surgeryâ€”An Emerging Paradigm. Cancers, 2021, 13, 5010.	3.7	24
50	Intramuscular diaphragmatic stimulation for patients with traumatic high cervical injuries and ventilator dependent respiratory failure: A systematic review of safety and effectiveness. Injury, 2016, 47, 539-544.	1.7	23
51	Traumatic acute extradural haematoma â€“ Indications for surgery revisited. British Journal of Neurosurgery, 2016, 30, 233-234.	0.8	23
52	Attitudes of the Surgical Team Toward Artificial Intelligence in Neurosurgery: International 2-Stage Cross-Sectional Survey. World Neurosurgery, 2021, 146, e724-e730.	1.3	23
53	The endoscope-assisted supraorbital â€œkeyholeâ€•approach for anterior skull base meningiomas: an updated meta-analysis. Acta Neurochirurgica, 2021, 163, 661-676.	1.7	23
54	Ethical implications of AI in robotic surgical training: A Delphi consensus statement. European Urology Focus, 2022, 8, 613-622.	3.1	23

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55	Predicting surgical outcome in patients with glioblastoma multiforme using pre-operative magnetic resonance imaging: development and preliminary validation of a grading system. Neurosurgical Review, 2017, 40, 621-631.	2.4	20
56	The management and outcome for patients with chronic subdural hematoma: a prospective, multicenter, observational cohort study in the United Kingdom. Journal of Neurosurgery, 2017, , 1-8.	1.6	20
57	Trends in cerebrospinal fluid leak rates following the extended endoscopic endonasal approach for anterior skull base meningioma: a meta-analysis over the last 20 years. Acta Neurochirurgica, 2021, 163, 711-719.	1.7	20
58	Making the Leap. Annals of Surgery, 2016, 263, 1077-1078.	4.2	19
59	Exploring public opinion about liability and responsibility in surgical robotics. Nature Machine Intelligence, 2020, 2, 194-196.	16.0	19
60	Craniopharyngioma in children: trends from a third consecutive single-center cohort study. Journal of Neurosurgery: Pediatrics, 2020, 25, 242-250.	1.3	18
61	The supraorbital keyhole approach: how I do it. Acta Neurochirurgica, 2015, 157, 979-983.	1.7	17
62	Comparative effectiveness and safety of image guidance systems in surgery: a preclinical randomised study. Lancet, The, 2015, 385, S64.	13.7	16
63	Improved Prediction of Surgical Resectability in Patients with Glioblastoma using an Artificial Neural Network. Scientific Reports, 2020, 10, 5143.	3.3	16
64	Automated operative workflow analysis of endoscopic pituitary surgery using machine learning: development and preclinical evaluation (IDEAL stage 0). Journal of Neurosurgery, 2022, 137, 51-58.	1.6	16
65	Hand-held microsurgical forceps with force-feedback for micromanipulation. , 2014, , .		15
66	Rathkeâ€™s cleft cysts following transsphenoidal surgery: long-term outcomes and development of an optimal follow-up strategy. Acta Neurochirurgica, 2020, 162, 853-861.	1.7	15
67	The direct and indirect impact of the COVID-19 pandemic on the care of patients with pituitary disease: a cross sectional study. Pituitary, 2021, 24, 262-268.	2.9	15
68	Brainâ€“Machine Interfaces: The Role of the Neurosurgeon. World Neurosurgery, 2021, 146, 140-147.	1.3	15
69	CSF Rhinorrhoea After Endonasal Intervention to the Skull Base (CRANIAL) - Part 1: Multicenter Pilot Study. World Neurosurgery, 2021, 149, e1077-e1089.	1.3	15
70	An Exit Strategy for Resuming Nonemergency Neurosurgery after Severe Acute Respiratory Syndrome Coronavirus 2: A United Kingdom Perspective. World Neurosurgery, 2020, 140, e395-e400.	1.3	14
71	A â€œSmartâ€•Force-Limiting Instrument for Microsurgery: Laboratory and In Vivo Validation. PLoS ONE, 2016, 11, e0162232.	2.5	14
72	A review of the role of stem cells in the development and treatment of glioma. Acta Neurochirurgica, 2012, 154, 951-969.	1.7	13

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73	Implicit active constraints for a compliant surgical manipulator. , 2014, , .		13
74	Traumatic bifrontal extradural haematoma resulting from superior sagittal sinus injury: case report. JRSM Open, 2015, 6, 205427041557913.	0.5	13
75	Utilising an Accelerated Delphi Process to Develop Guidance and Protocols for Telepresence Applications in Remote Robotic Surgery Training. European Urology Open Science, 2020, 22, 23-33.	0.4	13
76	Fifty Years of Innovation in Plastic Surgery. Archives of Plastic Surgery, 2016, 43, 145-152.	0.9	13
77	Fifth Generation Cellular Networks and Neurosurgery: A Narrative Review. World Neurosurgery, 2021, 156, 96-102.	1.3	12
78	The IDEAL framework in neurosurgery: a bibliometric analysis. Acta Neurochirurgica, 2020, 162, 2939-2947.	1.7	11
79	Second surgery for progressive glioblastoma: a multiâ€centre questionnaire and cohortâ€based review of clinical decisionâ€making and patient outcomes in current practice. Journal of Neuro-Oncology, 2021, 153, 99-107.	2.9	11
80	Infertility counselling â€“ an internet-based survey. Human Fertility, 2007, 10, 111-116.	1.7	10
81	Keyhole Supracerebellar Transtentorial Transcollateral Sulcus Approach to the Lateral Ventricle. Operative Neurosurgery, 2013, 73, onsE295-onsE301.	0.8	10
82	Robotic versus nonâ€robotic instruments in spatially constrained operating workspaces: a preâ€clinical randomized crossover study. BJU International, 2015, 116, 415-422.	2.5	10
83	Dex-CSDH randomised, placebo-controlled trial of dexamethasone for chronic subdural haematoma: report of the internal pilot phase. Scientific Reports, 2019, 9, 5885.	3.3	10
84	Adverse intraoperative events during surgical repair of ruptured cerebral aneurysms: a systematic review. Neurosurgical Review, 2021, 44, 1273-1285.	2.4	10
85	Comparative Performance in Single-Port Versus Multiport Minimally Invasive Surgery, and Small Versus Large Operative Working Spaces. Surgical Innovation, 2016, 23, 148-155.	0.9	9
86	Temporal trends in craniopharyngioma management and longâ€term endocrine outcomes: A multicentre crossâ€sectional study. Clinical Endocrinology, 2021, 94, 242-249.	2.4	9
87	CSF Rhinorrhea After Endonasal Intervention to the Skull Base (CRANIAL) â€” Part 2: Impact of COVID-19. World Neurosurgery, 2021, 149, e1090-e1097.	1.3	8
88	Computer-Assisted Versus Manual Planning for Stereotactic Brain Biopsy: A Retrospective Comparative Pilot Study. Operative Neurosurgery, 2020, 18, 417-422.	0.8	8
89	The management and outcome of hyponatraemia following transsphenoidal surgery: a retrospective observational study. Acta Neurochirurgica, 2022, 164, 1135-1144.	1.7	8
90	Comparative Learning Curves of Microscope Versus Exoscope: A Preclinical Randomized Crossover Noninferiority Study. Frontiers in Surgery, 2022, 9, .	1.4	8

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91	Not everything that counts can be easily counted. BMJ, The, 2013, 346, f2461-f2461.	6.0	7
92	Informed Consent for Patients Undergoing Transsphenoidal Excision of Pituitary Adenoma: Development and Evaluation of a Procedure-Specific Online Educational Resource. World Neurosurgery, 2018, 118, e933-e937.	1.3	7
93	Wellbeing of Frontline Health Care Workers After the First SARS-CoV-2 Pandemic Surge at a Neuroscience Centre. Journal of Neurosurgical Anesthesiology, 2021, Publish Ahead of Print, .	1.2	7
94	An intuitive surgical handle design for robotic neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1131-1139.	2.8	7
95	Robotic Handle Prototypes for Endoscopic Endonasal Skull Base Surgery: Pre-clinical Randomised Controlled Trial of Performance and Ergonomics. Annals of Biomedical Engineering, 2022, 50, 549-563.	2.5	7
96	Surgical Simulation to Evaluate Surgical Innovation: Preclinical Studies With MARTYN. Bulletin of the Royal College of Surgeons of England, 2013, 95, 299-299.	0.1	6
97	Clinical Experience and Results of Microsurgical Resection of Arterioveonous Malformation in the Presence of Space-Occupying Intracerebral Hematoma. Neurosurgery, 2017, 81, 75-86.	1.1	6
98	CSF rhinorrhoea after endonasal intervention to the anterior skull base (CRANIAL): proposal for a prospective multicentre observational cohort study. British Journal of Neurosurgery, 2020, , 1-10.	0.8	6
99	Intraoperative monitoring of visual evoked potentials in patients undergoing transsphenoidal surgery for pituitary adenoma: a systematic review. BMC Neurology, 2021, 21, 287.	1.8	6
100	Shared-Control Robots. Neuromethods, 2021, , 63-79.	0.3	6
101	Residual enhancing disease after surgery for glioblastoma: evaluation of practice in the United Kingdom. Neuro-Oncology Practice, 2018, 5, 74-81.	1.6	5
102	Implementation of the Vinehealth application, a digital health tool, into the care of patients living with brain cancer.. Journal of Clinical Oncology, 2021, 39, e13582-e13582.	1.6	5
103	A Spherical Joint Robotic End-Effector for the Expanded Endoscopic Endonasal Approach. Journal of Medical Robotics Research, 2020, 05, 2150002.	1.2	5
104	Long-term oncological outcomes after haemorrhagic apoplexy in pituitary adenoma managed operatively and non-operatively. Acta Neurochirurgica, 2022, 164, 1115.	1.7	5
105	Transcranial endoscope-assisted keyhole surgery: anterior fossa. Innovative Neurosurgery, 2013, 1, .	0.1	4
106	See-Through Vision with Unsupervised Scene Occlusion Reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, PP, 1-1.	13.9	4
107	IDEAL approach to the evaluation of machine learning technology in epilepsy surgery: protocol for the MAST trial. BMJ Surgery, Interventions, and Health Technologies, 2022, 4, e000109.	0.9	4
108	Mindfulness Training for Young Neurosurgeons: A Virtual Multicenter Prospective Pilot Study. World Neurosurgery, 2022, 164, e446-e457.	1.3	4

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109	Medically unexplained neurological symptoms. JRSM Short Reports, 2010, 1, 1-3.	0.6	3
110	Chronic subdural haematoma: How can we improve patient care and outcomes?. British Journal of Neurosurgery, 2014, 28, 136-137.	0.8	3
111	Endoscopic fenestration of intraventricular cerebrospinal fluid cysts: the contralateral approach. Journal of Neurosurgery, 2016, 124, 1047-1052.	1.6	3
112	Neuronavigation-assisted bedside placement of bolt external ventricular drains in the intensive care setting: a technical note. Acta Neurochirurgica, 2021, 163, 1127-1133.	1.7	3
113	A Novel Intraoperative Ultrasound Probe for Transsphenoidal Surgery: First-in-human study. Surgical Innovation, 2022, 29, 282-288.	0.9	3
114	Basic Concepts in Robotics. Neuromethods, 2021, , 3-34.	0.3	3
115	Minimally invasive keyhole approaches in spinal intradural tumor surgery: report of two cases and conceptual considerations. Journal of Neurosurgical Sciences, 2016, 60, 392-7.	0.6	3
116	Specialised Surgical Instruments for Endoscopic and Endoscope-Assisted Neurosurgery: A Systematic Review of Safety, Efficacy and Usability. Cancers, 2022, 14, 2931.	3.7	3
117	New oral anti-coagulants: Implications for neurosurgery. British Journal of Neurosurgery, 2015, 29, 182-188.	0.8	2
118	Letter to the Editor. da Vinci robot-assisted transoral surgery for sellar tumors. Journal of Neurosurgery, 2017, 127, 961-962.	1.6	2
119	Surgical Video Motion Magnification with Suppression of Instrument Artefacts. Lecture Notes in Computer Science, 2020, , 353-363.	1.3	2
120	Improved prediction of postoperative pediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology Advances, 2022, 4, vdac003.	0.7	2
121	Efficacy of a Mindfulness-Based Intervention in Ameliorating Inattentional Blindness Amongst Young Neurosurgeons: A Prospective, Controlled Pilot Study. Frontiers in Surgery, 2022, 9, .	1.4	2
122	Bedside saccadometry as an objective and quantitative measure of hemisphere-specific neurological function in patients undergoing cranial surgery. Journal of Clinical Neuroscience, 2015, 22, 280-285.	1.5	1
123	Surgery for intracerebral haemorrhage. Lancet, The, 2019, 394, e21.	13.7	1
124	Letter to the Editor. Systematic and safe approaches to innovation in pediatric pinning. Journal of Neurosurgery: Pediatrics, 2020, 26, 601-602.	1.3	1
125	Reducing prediction volatility in the surgical workflow recognition of endoscopic pituitary surgery. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1445-1452.	2.8	1
126	Neurosurgical team acceptability of brain-computer interfaces: a two-stage international cross-sectional survey. World Neurosurgery, 2022, , .	1.3	1

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127	Quality in Clinical Consultations: A Cross-Sectional Study. Clinics and Practice, 2022, 12, 545-556.	1.4	1
128	Management of arteriovenous malformations (AVMs) presenting with intracranial haemorrhage: the role of subacute resection. British Journal of Neurosurgery, 2010, 24, 95-95.	0.8	0
129	C-reactive protein in neurosurgery: valuable marker of post-operative infection or unnecessary over-investigation?. British Journal of Neurosurgery, 2011, 25, 788-788.	0.8	0
130	Management of acute hydrocephalus following aneurysmal subarachnoid haemorrhage: the role of serial lumbar puncture andcontinuous lumbar drainage. British Journal of Neurosurgery, 2011, 25, 536-536.	0.8	0
131	Comparative effectiveness and safety of 3D versus 2D endoscopy in skull base surgery: a systematic review. Innovative Neurosurgery, 2015, 3, 53-58.	0.1	0
132	The cruciform drain: a technical note on the surgical management of cystic lesions of the sella. British Journal of Neurosurgery, 2020, , 1-8.	0.8	0
133	Advanced Imaging Has Not Improved Remission Rates in Patients Undergoing Transsphenoidal Surgery for Cushingâ€™s Disease â€“ A Systematic Review and Meta-Analysis. SSRN Electronic Journal, 0, , .	0.4	0
134	P34â€‚Characteristics, diagnosis and management of Cushingâ€™s disease - A systematic review and meta-analysis. BJS Open, 2021, 5, .	1.7	0
135	Outcome of Petrosal Venous Sampling in Consecutive 68 Patients From a Major Neurosurgical Center in the United Kingdom. Journal of the Endocrine Society, 2021, 5, A523-A523.	0.2	0
136	Tool-tissue Forces in Surgery: A Systematic Review. Journal of the American College of Surgeons, 2021, 233, e70.	0.5	0
137	Uncommon brain lesions. , 2019, , 461-472.		0
138	Cabergoline treatment in human primary non-functioning pituitary adenomas. Endocrine Abstracts, 0, , .	0.0	0
139	Response. Journal of Neurosurgery, 2016, 124, 586.	1.6	0
140	Response. Journal of Neurosurgery, 2016, 124, 882-3.	1.6	0
141	IMG-02. Improved prediction of postoperative paediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology, 2022, 24, i76-i77.	1.2	0
142	Generating operative workflows for vestibular schwannoma resection: a two-stage Delphi consensus in collaboration with British Skull Base Society. Part 1: the retrosigmoid approach. Journal of Neurological Surgery, Part B: Skull Base, 0, , .	0.8	0