Hani J Marcus

List of Publications by Year
in descending order

142 papers	3,673 citations	159585 30 h-index	168389 53 g-index
152 all docs	152 docs citations	152 times ranked	3921 citing authors

#	Article	IF	Citations
1	See-Through Vision with Unsupervised Scene Occlusion Reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, PP, 1-1.	13.9	4
2	Ethical implications of AI in robotic surgical training: A Delphi consensus statement. European Urology Focus, 2022, 8, 613-622.	3.1	23
3	IDEAL-D Framework for Device Innovation. Annals of Surgery, 2022, 275, 73-79.	4.2	25
4	A Novel Intraoperative Ultrasound Probe for Transsphenoidal Surgery: First-in-human study. Surgical Innovation, 2022, 29, 282-288.	0.9	3
5	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
6	Surgical data science â€" from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	11.6	107
7	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
8	Long-term oncological outcomes after haemorrhagic apoplexy in pituitary adenoma managed operatively and non-operatively. Acta Neurochirurgica, 2022, 164, 1115.	1.7	5
9	Improved prediction of postoperative pediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology Advances, 2022, 4, vdac003.	0.7	2
10	The management and outcome of hyponatraemia following transsphenoidal surgery: a retrospective observational study. Acta Neurochirurgica, 2022, 164, 1135-1144.	1.7	8
11	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
12	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
13	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
14	Mindfulness Training for Young Neurosurgeons: A Virtual Multicenter Prospective Pilot Study. World Neurosurgery, 2022, 164, e446-e457.	1.3	4
15	Neurosurgical team acceptability of brain-computer interfaces: a two-stage international cross-sectional survey. World Neurosurgery, 2022, , .	1.3	1
16	Comparative Learning Curves of Microscope Versus Exoscope: A Preclinical Randomized Crossover Noninferiority Study. Frontiers in Surgery, 2022, 9, .	1.4	8
17	IMG-02. Improved prediction of postoperative paediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology, 2022, 24, i76-i77.	1.2	0
18	Specialised Surgical Instruments for Endoscopic and Endoscope-Assisted Neurosurgery: A Systematic Review of Safety, Efficacy and Usability. Cancers, 2022, 14, 2931.	3.7	3

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19	Quality in Clinical Consultations: A Cross-Sectional Study. Clinics and Practice, 2022, 12, 545-556.	1.4	1
20	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
21	Adverse intraoperative events during surgical repair of ruptured cerebral aneurysms: a systematic review. Neurosurgical Review, 2021, 44, 1273-1285.	2.4	10
22	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
23	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
24	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
25	Brainâ€"Machine Interfaces: The Role of the Neurosurgeon. World Neurosurgery, 2021, 146, 140-147.	1.3	15
26	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
27	Temporal trends in craniopharyngioma management and longâ€term endocrine outcomes: A multicentre crossâ€sectional study. Clinical Endocrinology, 2021, 94, 242-249.	2.4	9
28	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
29	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
30	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
31	P34â€‚Characteristics, diagnosis and management of Cushingâ€™s disease - A systematic review and meta-analysis. BJS Open, 2021, 5, .	1.7	0
32	An intuitive surgical handle design for robotic neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1131-1139.	2.8	7
33	Tool-tissue forces in surgery: A systematic review. Annals of Medicine and Surgery, 2021, 65, 102268.	1.1	36
34	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
35	CSF Rhinorrhoea After Endonasal Intervention to the Skull Base (CRANIAL) - Part 1: Multicenter Pilot Study. World Neurosurgery, 2021, 149, e1077-e1089.	1.3	15
36	Automated Vision-Based Microsurgical Skill Analysis in Neurosurgery Using Deep Learning: Development and Preclinical Validation. World Neurosurgery, 2021, 149, e669-e686.	1.3	26

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37	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
38	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
39	Skull base repair following endonasal pituitary and skull base tumour resection: a systematic review. Pituitary, 2021, 24, 698-713.	2.9	24
40	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
41	Pituitary society expert Delphi consensus: operative workflow in endoscopic transsphenoidal pituitary adenoma resection. Pituitary, 2021, 24, 839-853.	2.9	24
42	Fifth Generation Cellular Networks and Neurosurgery: A Narrative Review. World Neurosurgery, 2021, 156, 96-102.	1.3	12
43	Basic Concepts in Robotics. Neuromethods, 2021, , 3-34.	0.3	3
44	Shared-Control Robots. Neuromethods, 2021, , 63-79.	0.3	6
45	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
46	Artificial Intelligence in Brain Tumour Surgery—An Emerging Paradigm. Cancers, 2021, 13, 5010.	3.7	24
47	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
48	Tool-tissue Forces in Surgery: A Systematic Review. Journal of the American College of Surgeons, 2021, 233, e70.	0.5	0
49	The IDEAL framework in neurosurgery: a bibliometric analysis. Acta Neurochirurgica, 2020, 162, 2939-2947.	1.7	11
50	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
51	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
52	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
53	Trial of Dexamethasone for Chronic Subdural Hematoma. New England Journal of Medicine, 2020, 383, 2616-2627.	27.0	139
54	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

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55	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
56	Improved Prediction of Surgical Resectability in Patients with Glioblastoma using an Artificial Neural Network. Scientific Reports, 2020, 10, 5143.	3.3	16
57	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
58	Attitudes of Patients and Their Relatives Toward Artificial Intelligence in Neurosurgery. World Neurosurgery, 2020, 138, e627-e633.	1.3	52
59	Exploring public opinion about liability and responsibility in surgical robotics. Nature Machine Intelligence, 2020, 2, 194-196.	16.0	19
60	Computer-Assisted Versus Manual Planning for Stereotactic Brain Biopsy: A Retrospective Comparative Pilot Study. Operative Neurosurgery, 2020, 18, 417-422.	0.8	8
61	A Spherical Joint Robotic End-Effector for the Expanded Endoscopic Endonasal Approach. Journal of Medical Robotics Research, 2020, 05, 2150002.	1.2	5
62	Craniopharyngioma in children: trends from a third consecutive single-center cohort study. Journal of Neurosurgery: Pediatrics, 2020, 25, 242-250.	1.3	18
63	Surgical Video Motion Magnification with Suppression of Instrument Artefacts. Lecture Notes in Computer Science, 2020, , 353-363.	1.3	2
64	Letter to the Editor. Systematic and safe approaches to innovation in pediatric pinning. Journal of Neurosurgery: Pediatrics, 2020, 26, 601-602.	1.3	1
65	Surgery for intracerebral haemorrhage. Lancet, The, 2019, 394, e21.	13.7	1
66	Vestibular dysfunction in acute traumatic brain injury. Journal of Neurology, 2019, 266, 2430-2433.	3.6	51
67	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
68	Robot-assisted stereotactic brainstem biopsy in children: prospective cohort study. Journal of Robotic Surgery, 2019, 13, 575-579.	1.8	24
69	Uncommon brain lesions. , 2019, , 461-472.		0
70	Residual enhancing disease after surgery for glioblastoma: evaluation of practice in the United Kingdom. Neuro-Oncology Practice, 2018, 5, 74-81.	1.6	5
71	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
72	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

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73	Robot-assisted stereotactic brain biopsy: systematic review and bibliometric analysis. Child's Nervous System, 2018, 34, 1299-1309.	1.1	56
74	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
75	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
76	Near-infrared spectroscopy (NIRS) to detect traumatic intracranial haematoma: A systematic review and meta-analysis. Brain Injury, 2017, 31, 581-588.	1.2	31
77	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
78	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
79	Intraoperative Ultrasound in Patients Undergoing Transsphenoidal Surgery for Pituitary Adenoma: Systematic Review. World Neurosurgery, 2017, 106, 680-685.	1.3	34
80	Letter to the Editor. da Vinci robot-assisted transoral surgery for sellar tumors. Journal of Neurosurgery, 2017, 127, 961-962.	1.6	2
81	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
82	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
83	Regulatory approval of new medical devices: cross sectional study. BMJ, The, 2016, 353, i2587.	6.0	40
84	Vision-based deformation recovery for intraoperative force estimation of tool–tissue interaction for neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 929-936.	2.8	28
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	Making the Leap. Annals of Surgery, 2016, 263, 1077-1078.	4.2	19
87	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
88	Traumatic acute extradural haematoma – Indications for surgery revisited. British Journal of Neurosurgery, 2016, 30, 233-234.	0.8	23
89	Endoscopic fenestration of intraventricular cerebrospinal fluid cysts: the contralateral approach. Journal of Neurosurgery, 2016, 124, 1047-1052.	1.6	3
90	A "Smart" Force-Limiting Instrument for Microsurgery: Laboratory and In Vivo Validation. PLoS ONE, 2016, 11, e0162232.	2.5	14

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91	Fifty Years of Innovation in Plastic Surgery. Archives of Plastic Surgery, 2016, 43, 145-152.	0.9	13
92	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
93	Response. Journal of Neurosurgery, 2016, 124, 586.	1.6	0
94	Response. Journal of Neurosurgery, 2016, 124, 882-3.	1.6	0
95	Traumatic bifrontal extradural haematoma resulting from superior sagittal sinus injury: case report. JRSM Open, 2015, 6, 205427041557913.	0.5	13
96	Robotic versus non‐robotic instruments in spatially constrained operating workspaces: a pre‐clinical randomized crossover study. BJU International, 2015, 116, 415-422.	2.5	10
97	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
98	New oral anti-coagulants: Implications for neurosurgery. British Journal of Neurosurgery, 2015, 29, 182-188.	0.8	2
99	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
100	Technological innovation in neurosurgery: a quantitative study. Journal of Neurosurgery, 2015, 123, 174-181.	1.6	39
101	Inattention blindness in surgery. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 3184-3189.	2.4	32
102	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
103	da Vinci robot-assisted keyhole neurosurgery: a cadaver study on feasibility and safety. Neurosurgical Review, 2015, 38, 367-371.	2.4	53
104	A Smart Haptic Hand-Held Device for Neurosurgical Microdissection. Annals of Biomedical Engineering, 2015, 43, 2185-2195.	2.5	37
105	Comparative effectiveness and safety of image guidance systems in surgery: a preclinical randomised study. Lancet, The, 2015, 385, S64.	13.7	16
106	The supraorbital keyhole approach: how I do it. Acta Neurochirurgica, 2015, 157, 979-983.	1.7	17
107	Robotic surgery in children: adopt now, await, or dismiss?. Pediatric Surgery International, 2015, 31, 1119-1125.	1.4	27
108	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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109	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
110	Chronic subdural haematoma: How can we improve patient care and outcomes?. British Journal of Neurosurgery, 2014, 28, 136-137.	0.8	3
111	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
112	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
113	Patients' cosmetic satisfaction, pain, and functional outcomes after supraorbital craniotomy through an eyebrow incision. Journal of Neurosurgery, 2014, 121, 730-734.	1.6	63
114	Comparative Effectiveness of 3-Dimensional vs 2-Dimensional and High-Definition vs Standard-Definition Neuroendoscopy. Neurosurgery, 2014, 74, 375-381.	1.1	41
115	Robotics in Keyhole Transcranial Endoscope-Assisted Microsurgery. Operative Neurosurgery, 2014, 10, 84-96.	0.8	26
116	Quantifying Innovation in Surgery. Annals of Surgery, 2014, 260, 205-211.	4.2	46
117	Augmented Reality Partial Nephrectomy: Examining the Current Status and Future Perspectives. Urology, 2014, 83, 266-273.	1.0	101
118	Robot-assisted and fluoroscopy-guided pedicle screw placement: a systematic review. European Spine Journal, 2014, 23, 291-297.	2.2	78
119	Hand-held microsurgical forceps with force-feedback for micromanipulation. , 2014, , .		15
120	Forces exerted during microneurosurgery: a cadaver study. International Journal of Medical Robotics and Computer Assisted Surgery, 2014, 10, 251-256.	2.3	43
121	Implicit active constraints for a compliant surgical manipulator. , 2014, , .		13
122	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
123	Meta analysis of robot-assisted versus conventional laparoscopic fundoplication in children. Journal of Pediatric Surgery, 2014, 49, 646-652.	1.6	32
124	Image-guided resection of spheno-orbital skull-base meningiomas with predominant intraosseous component. Acta Neurochirurgica, 2013, 155, 981-988.	1.7	36
125	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
126	Transcranial endoscope-assisted keyhole surgery: anterior fossa. Innovative Neurosurgery, 2013, 1, .	0.1	4

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127	Not everything that counts can be easily counted. BMJ, The, 2013, 346, f2461-f2461.	6.0	7
128	Keyhole Supracerebellar Transtentorial Transcollateral Sulcus Approach to the Lateral Ventricle. Operative Neurosurgery, 2013, 73, onsE295-onsE301.	0.8	10
129	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
130	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
131	A review of the role of stem cells in the development and treatment of glioma. Acta Neurochirurgica, 2012, 154, 951-969.	1.7	13
132	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
133	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
134	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
135	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
136	Medically unexplained neurological symptoms. JRSM Short Reports, 2010, 1, 1-3.	0.6	3
137	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
138	Infertility counselling â€" an internet-based survey. Human Fertility, 2007, 10, 111-116.	1.7	10
139	How do infertile couples choose their IVF centers? An Internet-based survey. Fertility and Sterility, 2005, 83, 779-781.	1.0	30
140	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
141	Cabergoline treatment in human primary non-functioning pituitary adenomas. Endocrine Abstracts, 0, , .	0.0	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