

Gerhard Schneider

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

5,865
citations

117453

34
h-index

82410

72
g-index

148
all docs

148
docs citations

148
times ranked

5696
citing authors

#	ARTICLE	IF	CITATIONS
1	Always Assess the Raw Electroencephalogram: Why Automated Burst Suppression Detection May Not Detect All Episodes. <i>Anesthesia and Analgesia</i> , 2023, 136, 346-354.	1.1	3
2	Targeted Interventions to Increase Blood Pressure and Decrease Anaesthetic Concentrations Reduce Intraoperative Burst Suppression: A Randomised, Interventional Clinical Trial. <i>Frontiers in Systems Neuroscience</i> , 2022, 16, 786816.	1.2	3
3	Evaluation of Anesthetic Specific EEG Dynamics during State Transitions between Loss and Return of Responsiveness. <i>Brain Sciences</i> , 2022, 12, 37.	1.1	6
4	Technical considerations when using the EEG export of the SEDLine Root device. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1047-1054.	0.7	22
5	Time delay of the qCON monitor and its performance during state transitions. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 379-386.	0.7	7
6	Rates of bacterial co-infections and antimicrobial use in COVID-19 patients: a retrospective cohort study in light of antibiotic stewardship. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 859-869.	1.3	98
7	Invasive pulmonary aspergillosis in critically ill patients with severe COVID-19 pneumonia: Results from the prospective AspCOVID-19 study. <i>PLoS ONE</i> , 2021, 16, e0238825.	1.1	72
8	Rapid clinical evolution for COVID-19 translates into early hospital admission and unfavourable outcome: A preliminary report. <i>Multidisciplinary Respiratory Medicine</i> , 2021, 16, 744.	0.6	0
9	Combined implanted central venous access and cortical recording electrode array in freely behaving mice. <i>MethodsX</i> , 2021, 8, 101466.	0.7	1
10	Association of Troponin T levels and functional outcome 3 months after subarachnoid hemorrhage. <i>Scientific Reports</i> , 2021, 11, 16154.	1.6	5
11	Machine learning identifies ICU outcome predictors in a multicenter COVID-19 cohort. <i>Critical Care</i> , 2021, 25, 295.	2.5	39
12	Dynamic Patterns of Global Brain Communication Differentiate Conscious From Unconscious Patients After Severe Brain Injury. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 625919.	1.2	7
13	The influence of age on EEG-based anaesthesia indices. <i>Journal of Clinical Anesthesia</i> , 2021, 73, 110325.	0.7	22
14	The First Derivative of the Electroencephalogram Facilitates Tracking of Electroencephalographic Alpha Band Activity During General Anesthesia. <i>Anesthesia and Analgesia</i> , 2021, Publish Ahead of Print, .	1.1	2
15	Dexamethasone therapy and rates of secondary pulmonary and bloodstream infections in critically ill COVID-19 patients. <i>Multidisciplinary Respiratory Medicine</i> , 2021, 16, 793.	0.6	12
16	The Strength of Alpha Oscillations in the Electroencephalogram Differently Affects Algorithms Used for Anesthesia Monitoring. <i>Anesthesia and Analgesia</i> , 2021, 133, 1577-1587.	1.1	7
17	Targeted temperature management in cardiac surgery: a systematic review and meta-analysis on postoperative cognitive outcomes. <i>British Journal of Anaesthesia</i> , 2021, , .	1.5	11
18	Identifying perioperative volume-related risk factors in head and neck surgeries with free flap reconstructions – An investigation with focus on the influence of red blood cell concentrates and noradrenaline use. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2020, 48, 67-74.	0.7	13

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19	Propofol Affects Cortico-Hippocampal Interactions via $\hat{\gamma}$ 23 Subunit-Containing GABAA Receptors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5844.	1.8	3
20	Machine learning for a combined electroencephalographic anesthesia index to detect awareness under anesthesia. <i>PLoS ONE</i> , 2020, 15, e0238249.	1.1	9
21	Age-Related EEG Features of Bursting Activity During Anesthetic-Induced Burst Suppression. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 599962.	1.2	9
22	Do private German health insurers invest their capital reserves of $\hat{\epsilon}$,-353 billion according to environmental, social and governance criteria?. <i>Journal of Medical Ethics</i> , 2020, , medethics-2020-106381.	1.0	3
23	The association of the anesthesiologist's academic and educational status with self-confidence, self-rated knowledge and objective knowledge in rational antibiotic application. <i>BMC Research Notes</i> , 2020, 13, 161.	0.6	0
24	Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2020, 51, 2287-2296.	1.0	39
25	Attenuation of Native Hyperpolarization-Activated, Cyclic Nucleotide-Gated Channel Function by the Volatile Anesthetic Sevoflurane in Mouse Thalamocortical Relay Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 606687.	1.8	5
26	Spectral and Entropic Features Are Altered by Age in the Electroencephalogram in Patients under Sevoflurane Anesthesia. <i>Anesthesiology</i> , 2020, 132, 1003-1016.	1.3	71
27	State entropy and burst suppression ratio can show contradictory information. <i>European Journal of Anaesthesiology</i> , 2020, 37, 1084-1092.	0.7	7
28	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>Journal of Clinical Medicine</i> , 2020, 9, 1514.	1.0	60
29	Impact of PreOperative Midazolam on Outcome of Elderly patients (I-PROMOTE): study protocol for a multicentre randomised controlled trial. <i>Trials</i> , 2019, 20, 430.	0.7	21
30	Medical ethics in the Anthropocene: how are $\hat{\epsilon}$,-100 billion of German physicians' pension funds invested?. <i>Lancet Planetary Health</i> , The, 2019, 3, e405-e406.	5.1	8
31	Modulation of frontal EEG alpha oscillations during maintenance and emergence phases of general anaesthesia to improve early neurocognitive recovery in older patients: protocol for a randomised controlled trial. <i>Trials</i> , 2019, 20, 146.	0.7	21
32	Differences in pain treatment between surgeons and anaesthesiologists in a physician staffed prehospital emergency medical service: a retrospective cohort analysis. <i>BMC Anesthesiology</i> , 2019, 19, 18.	0.7	13
33	Assessment of Regional Perfusion and Organ Function: Less and Non-invasive Techniques. <i>Frontiers in Medicine</i> , 2019, 6, 50.	1.2	43
34	Teaching Ordinal Patterns to a Computer: Efficient Encoding Algorithms Based on the Lehmer Code. <i>Entropy</i> , 2019, 21, 1023.	1.1	14
35	The German version of the Critical-Care Pain Observation Tool for critically ill adults. <i>Der Anaesthetist</i> , 2019, 68, 836-842.	0.5	6
36	Changes in Whole Brain Dynamics and Connectivity Patterns during Sevoflurane- and Propofol-induced Unconsciousness Identified by Functional Magnetic Resonance Imaging. <i>Anesthesiology</i> , 2019, 130, 898-911.	1.3	54

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37	Diazepam and ethanol differently modulate neuronal activity in organotypic cortical cultures. <i>BMC Neuroscience</i> , 2019, 20, 58.	0.8	5
38	Cognitive decline in Tg2576 mice shows sex-specific differences and correlates with cerebral amyloid-beta. <i>Behavioural Brain Research</i> , 2019, 359, 408-417.	1.2	23
39	Continuous chest compressions with a simultaneous triggered ventilator in the Munich Emergency Medical Services: a case series. <i>GMS German Medical Science</i> , 2019, 17, Doc06.	2.7	5
40	Oxytocin levels in saliva correlate better than plasma levels with concentrations in the cerebrospinal fluid of patients in neurocritical care. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12596.	1.2	81
41	The impact of the patient's initial NACA score on subjective and physiological indicators of workload during pre-hospital emergency care. <i>PLoS ONE</i> , 2018, 13, e0202215.	1.1	14
42	Substance-Specific Differences in Human Electroencephalographic Burst Suppression Patterns. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 368.	1.0	26
43	Effect of a combined brief narrative exposure therapy with case management versus treatment as usual in primary care for patients with traumatic stress sequelae following intensive care medicine: study protocol for a multicenter randomized controlled trial (PICTURE). <i>Trials</i> , 2018, 19, 480.	0.7	8
44	GTS-21 attenuates loss of body mass, muscle mass, and function in rats having systemic inflammation with and without disuse atrophy. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1647-1657.	1.3	11
45	Intracerebroventricular injection of beta-amyloid in mice is associated with long-term cognitive impairment in the modified hole-board test. <i>Behavioural Brain Research</i> , 2017, 324, 15-20.	1.2	25
46	Coherence of <sc>BOLD</sc> signal and electrical activity in the human brain during deep sevoflurane anesthesia. <i>Brain and Behavior</i> , 2017, 7, e00679.	1.0	25
47	Tranexamic acid impairs hippocampal synaptic transmission mediated by gamma aminobutyric acid receptor type A. <i>European Journal of Pharmacology</i> , 2017, 815, 49-55.	1.7	5
48	The Power of Raw Data. <i>Journal of Neurosurgical Anesthesiology</i> , 2017, 29, 73-73.	0.6	0
49	The Input Is Reflected in the Output. <i>Anesthesia and Analgesia</i> , 2017, 124, 1734-1735.	1.1	2
50	Monitoring depth of sedation: evaluating the agreement between the Bispectral Index, qCON and the Entropy Module's State Entropy during flexible bronchoscopy. <i>Minerva Anestesiologica</i> , 2017, 83, 563-573.	0.6	26
51	Permutation Entropy: Too Complex a Measure for EEG Time Series?. <i>Entropy</i> , 2017, 19, 692.	1.1	43
52	Propofol and Sevoflurane Differentially Modulate Cortical Depolarization following Electric Stimulation of the Ventrobasal Thalamus. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 109.	1.2	13
53	The validity of linear and non-linear heart rate metrics as workload indicators of emergency physicians. <i>PLoS ONE</i> , 2017, 12, e0188635.	1.1	16
54	Self-confidence and knowledge of German ICU physicians in palliative care – a multicentre prospective study. <i>BMC Palliative Care</i> , 2017, 16, 57.	0.8	16

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55	Surgery for Infratentorial Mass. , 2017, , 385-394.		0
56	Intraoperative Multimodal Evoked Potential Monitoring During Carotid Endarterectomy. Survey of Anesthesiology, 2016, 60, 40.	0.1	0
57	Intraoperative Multimodal Evoked Potential Monitoring During Carotid Endarterectomy. Anesthesia and Analgesia, 2015, 120, 1352-1360.	1.1	32
58	Differences between state entropy and bispectral index during analysis of identical electroencephalogram signals. European Journal of Anaesthesiology, 2015, 32, 354-365.	0.7	19
59	Comparison of Enk Fiberoptic Atomizer with translaryngeal injection for topical anaesthesia for awake fiberoptic intubation in patients at risk of secondary cervical injury. European Journal of Anaesthesiology, 2015, 32, 615-623.	0.7	21
60	BIS and state entropy of the EEG - comparing apples and oranges. British Journal of Anaesthesia, 2015, 115, 164-166.	1.5	10
61	Bispectral index aware or minimum alveolar concentration aware?. European Journal of Anaesthesiology, 2015, 32, 301-302.	0.7	2
62	Capnographic monitoring of midazolam and propofol sedation during ERCP: a randomized controlled study (EndoBreath Study). Endoscopy, 2015, 48, 42-50.	1.0	28
63	Transcranial motor evoked potentials during anesthesia with desflurane versus propofol â€” A prospective randomized trial. Clinical Neurophysiology, 2015, 126, 1825-1832.	0.7	43
64	Restrict relaxants, be aware, and know the limitations of your depth of anaesthesia monitor. British Journal of Anaesthesia, 2015, 115, i11-i12.	1.5	2
65	Fronto-Parietal Connectivity Is a Non-Static Phenomenon with Characteristic Changes during Unconsciousness. PLoS ONE, 2014, 9, e87498.	1.1	32
66	Comparison of Aintree and Fastrach techniques for low-skill fiberoptic intubation in patients at risk of secondary cervical injury. European Journal of Anaesthesiology, 2014, 31, 153-158.	0.7	10
67	The influence of anaesthetistsâ€™ experience on workload, performance and visual attention during simulated critical incidents. Journal of Clinical Monitoring and Computing, 2014, 28, 475-480.	0.7	14
68	Non-stationarity of EEG during wakefulness and anaesthesia: advantages of EEG permutation entropy monitoring. Journal of Clinical Monitoring and Computing, 2014, 28, 573-580.	0.7	42
69	Burst suppression-MAC and burst suppression-CP50 as measures of cerebral effects of anaesthetics. British Journal of Anaesthesia, 2014, 112, 1067-1074.	1.5	51
70	Monitoring Depth of Anesthesia Utilizing a Combination of Electroencephalographic and Standard Measures. Anesthesiology, 2014, 120, 819-828.	1.3	60
71	Brain Electrical Activity Obeys Benfordâ€™s Law. Anesthesia and Analgesia, 2014, 118, 183-191.	1.1	13
72	Sevoflurane-induced loss of consciousness is paralleled by a prominent modification of neural activity during cortical down-states. Neuroscience Letters, 2013, 548, 149-154.	1.0	6

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73	Errors in Palliative Care: Kinds, Causes, and Consequences: A Pilot Survey of Experiences and Attitudes of Palliative Care Professionals. <i>Journal of Palliative Medicine</i> , 2013, 16, 74-81.	0.6	22
74	Effects of Propofol, Sevoflurane, Remifentanyl, and (S)-Ketamine in Subanesthetic Concentrations on Visceral and Somatosensory Pain-evoked Potentials. <i>Anesthesiology</i> , 2013, 118, 308-317.	1.3	20
75	Simultaneous Electroencephalographic and Functional Magnetic Resonance Imaging Indicate Impaired Cortical Top-down Processing in Association with Anesthetic-induced Unconsciousness. <i>Anesthesiology</i> , 2013, 119, 1031-1042.	1.3	153
76	Sevoflurane-induced Epileptiform Electroencephalographic Activity and Generalized Tonic-Clonic Seizures in a Volunteer Study. <i>Anesthesiology</i> , 2013, 119, 447-447.	1.3	24
77	Capnographic Monitoring Reduces the Incidence of Arterial Oxygen Desaturation and Hypoxemia During Propofol Sedation for Colonoscopy: A Randomized, Controlled Study (ColoCap Study). <i>American Journal of Gastroenterology</i> , 2012, 107, 1205-1212.	0.2	131
78	Spatiotemporal Reconfiguration of Large-Scale Brain Functional Networks during Propofol-Induced Loss of Consciousness. <i>Journal of Neuroscience</i> , 2012, 32, 12832-12840.	1.7	175
79	Time Delay of Monitors of the Hypnotic Component of Anesthesia. <i>Anesthesia and Analgesia</i> , 2012, 115, 315-319.	1.1	37
80	Mortality after surgery in Europe: a 7 day cohort study. <i>Lancet, The</i> , 2012, 380, 1059-1065.	6.3	1,614
81	Surgery for Infratentorial Mass. , 2012, , 417-431.		0
82	Eye tracking for assessment of workload: a pilot study in an anaesthesia simulator environment. <i>British Journal of Anaesthesia</i> , 2011, 106, 44-50.	1.5	64
83	A tool for immediate and automated assessment of resuscitation skills for a full-scale simulator. <i>BMC Research Notes</i> , 2011, 4, 550.	0.6	4
84	Assessment of subjective workload in an anaesthesia simulator environment: reliability and validity. <i>European Journal of Anaesthesiology</i> , 2011, 28, 502-505.	0.7	10
85	Does the Cerebral State Index Separate Consciousness from Unconsciousness?. <i>Anesthesia and Analgesia</i> , 2011, 113, 1403-1410.	1.1	16
86	Visual attention of anaesthetists during simulated critical incidents. <i>British Journal of Anaesthesia</i> , 2011, 106, 807-813.	1.5	67
87	Cross-approximate entropy of cortical local field potentials quantifies effects of anesthesia - a pilot study in rats. <i>BMC Neuroscience</i> , 2010, 11, 122.	0.8	28
88	Monitoring anesthetic depth. , 2010, , 114-130.		14
89	A Program for Computing the Prediction Probability and the Related Receiver Operating Characteristic Graph. <i>Anesthesia and Analgesia</i> , 2010, 111, 1416-1421.	1.1	39
90	Medical Errors and Patient Safety in Palliative Care: A Review of Current Literature. <i>Journal of Palliative Medicine</i> , 2010, 13, 1469-1474.	0.6	27

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91	Anaesthesia Monitoring by Recurrence Quantification Analysis of EEG Data. PLoS ONE, 2010, 5, e8876.	1.1	37
92	Time delay of electroencephalogram index calculation: analysis of cerebral state, bispectral, and Narcotrend indices using perioperatively recorded electroencephalographic signals. British Journal of Anaesthesia, 2009, 103, 394-399.	1.5	96
93	Adapted variable precision rough set approach for EEG analysis. Artificial Intelligence in Medicine, 2009, 47, 239-261.	3.8	42
94	A Combination of Electroencephalogram and Auditory Evoked Potentials Separates Different Levels of Anesthesia in Volunteers. Anesthesia and Analgesia, 2009, 108, 1512-1521.	1.1	29
95	General anaesthesia versus local anaesthesia for carotid surgery (GALA): a multicentre, randomised controlled trial. Lancet, The, 2008, 372, 2132-2142.	6.3	514
96	Electroencephalographic Order Pattern Analysis for the Separation of Consciousness and Unconsciousness. Anesthesiology, 2008, 109, 1014-1022.	1.3	117
97	NeuMonD: a tool for the development of new indicators of anaesthetic effect. Biomedizinische Technik, 2007, 52, 96-101.	0.9	11
98	Teletherapeutic drug administration by long distance closed-loop control of propofol \hat{a} . British Journal of Anaesthesia, 2007, 98, 189-195.	1.5	18
99	Auditory evoked potentials for the assessment of depth of anaesthesia: different configurations of artefact detection algorithms. Biomedizinische Technik, 2007, 52, 90-95.	0.9	3
100	The Search for Structures and Mechanisms Controlling Anesthesia-induced Unconsciousness. Anesthesiology, 2007, 107, 195-198.	1.3	13
101	Construction of the Electroencephalogram Player: A Device to Present Electroencephalogram Data to Electroencephalogram-Based Anesthesia Monitors. Anesthesia and Analgesia, 2007, 104, 135-139.	1.1	23
102	The Narcotrend \hat{a} , c Monitor and the Electroencephalogram in Propofol-Induced Sedation. Anesthesia and Analgesia, 2007, 105, 982-992.	1.1	6
103	Evaluation of M-AID \hat{a} , a first aid application for mobile phones. Resuscitation, 2007, 74, 487-494.	1.3	60
104	Median Frequency Revisited. Anesthesiology, 2007, 107, 397-405.	1.3	22
105	The Discriminant Power of Simultaneous Monitoring of Spontaneous Electroencephalogram and Evoked Potentials as a Predictor of Different Clinical States of General Anesthesia. Anesthesia and Analgesia, 2006, 103, 894-901.	1.1	23
106	Time Delay of Index Calculation. Anesthesiology, 2006, 104, 488-494.	1.3	156
107	The Effect of Electroencephalogram-Targeted High- and Low-Dose Propofol Infusion on Histopathological Damage After Traumatic Brain Injury in the Rat. Anesthesia and Analgesia, 2006, 103, 1527-1533.	1.1	17
108	The Influence of Wavelets on Multiscale Analysis and Parametrization of Midlatency Auditory Evoked Potentials. Biological Cybernetics, 2006, 95, 193-203.	0.6	2

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109	EEG parameters and their combination as indicators of depth of anaesthesia / EEG-Parameter und deren Kombination für das Narkosemonitoring. Biomedizinische Technik, 2006, 51, 89-94.	0.9	20
110	Detection of Consciousness by Electroencephalogram and Auditory Evoked Potentials. Anesthesiology, 2005, 103, 934-943.	1.3	54
111	High-frequency Components of Auditory Evoked Potentials Are Detected in Responsive but Not in Unconscious Patients. Anesthesiology, 2005, 103, 944-950.	1.3	22
112	Concurrent recording of AEP, SSEP and EEG parameters during anaesthesia: a factor analysis. British Journal of Anaesthesia, 2005, 95, 197-206.	1.5	10
113	Awareness and the EEG power spectrum: analysis of frequencies. British Journal of Anaesthesia, 2004, 93, 806-809.	1.5	124
114	Does bispectral analysis add anything but complexity? BIS sub-components may be superior to BIS for detection of awareness. British Journal of Anaesthesia, 2004, 93, 596-597.	1.5	25
115	Patient State Index (PSI) measures depth of sedation in intensive care patients. Intensive Care Medicine, 2004, 30, 213-216.	3.9	47
116	Signal Verification of Middle Latency Auditory Evoked Potentials by Automated Detection of the Brainstem Response. Anesthesiology, 2004, 101, 321-326.	1.3	6
117	Narcotrend® Does Not Adequately Detect the Transition between Awareness and Unconsciousness in Surgical Patients. Anesthesiology, 2004, 101, 1105-1111.	1.3	46
118	Rough Set-Based Classification of EEG-Signals to Detect Intraoperative Awareness: Comparison of Fuzzy and Crisp Discretization of Real Value Attributes. Lecture Notes in Computer Science, 2004, , 825-834.	1.0	11
119	Detection of awareness in surgical patients with EEG-based indices – bispectral index and patient state index –. British Journal of Anaesthesia, 2003, 91, 329-335.	1.5	121
120	Early recovery after remifentanyl-pronounced compared with propofol-pronounced total intravenous anaesthesia for short painful procedures –. British Journal of Anaesthesia, 2003, 91, 580-582.	1.5	9
121	Quality of perioperative AEP – variability of expert ratings. British Journal of Anaesthesia, 2003, 91, 905-908.	1.5	10
122	Bispectral index-guided administration of anaesthesia: comparison between remifentanyl/propofol and remifentanyl/isoflurane. European Journal of Anaesthesiology, 2003, 20, 624-630.	0.7	2
123	Bispectral Index (BIS) May Not Predict Awareness Reaction to Intubation in Surgical Patients. Journal of Neurosurgical Anesthesiology, 2002, 14, 7-11.	0.6	78
124	Increasing isoflurane concentration may cause paradoxical increases in the EEG bispectral index in surgical patients. British Journal of Anaesthesia, 2000, 84, 33-37.	1.5	76
125	Esmolol Potentiates Reduction of Minimum Alveolar Isoflurane Concentration by Alfentanil. Anesthesia and Analgesia, 1998, 87, 671-676.	1.1	77
126	Effect of renal function on neuromuscular block induced by continuous infusion of mivacurium. British Journal of Anaesthesia, 1995, 74, 452-454.	1.5	13

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127	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. SSRN Electronic Journal, 0, , .	0.4	6
128	Brainstem infarction and locked in syndrome: A less recognized complication of atlantoaxial injury. American Journal of Case Reports, 0, 12, 90-94.	0.3	0