

Near-infrared spectroscopy as an index of brain and tissue oxygenation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Introduction. British Journal of Anaesthesia, 2009, 103, i1-i2.	1.5	3
2	Monitoring of brain function in anesthesia and intensive care. Current Opinion in Anaesthesiology, 2010, 23, 759-764.	0.9	21
3	Optical Imaging: A New Window to the Adult Brain. Journal of Neuropsychiatry and Clinical Neurosciences, 2010, 22, iv-iv.	0.9	12
4	Noninvasive monitoring of cerebral oxygenation in traumatic brain injury: a mix of doubts and hope. Intensive Care Medicine, 2010, 36, 1283-1285.	3.9	18
5	Lactate flux during carotid endarterectomy under general anesthesia: correlation with various point-of-care monitors. Canadian Journal of Anaesthesia, 2010, 57, 903-912.	0.7	13
6	The influence of basic ventilation strategies on cerebral oxygenation in anesthetized patients without vascular disease. Journal of Clinical Monitoring and Computing, 2010, 24, 421-425.	0.7	17
7	Noninvasive cerebral oximetry: is there light at the end of the tunnel?. Current Opinion in Anaesthesiology, 2010, 23, 576-581.	0.9	81
8	Advances in Cardiopulmonary Bypass and Extracorporeal Membrane Oxygenation for the Neonate and Infant. World Journal for Pediatric & Congenital Heart Surgery, 2010, 1, 217-225.	0.3	0
9	Avoiding Stroke During Cardiac Surgery. Seminars in Cardiothoracic and Vascular Anesthesia, 2010, 14, 95-101.	0.4	28
10	Non-invasive oximetry for early detection of cerebral and somatic ischaemia during corrective surgery for aortic coarctation in paediatric patients. British Journal of Anaesthesia, 2010, 104, 780-782.	1.5	5
11	Investigation of spectral interferences on the accuracy of broadband CW-NIRS tissue SO <sub>2</sub> determination. Biomedical Optics Express, 2010, 1, 748.	1.5	12
12	Activation and Entrainment Mapping of Hemodynamically Unstable Ventricular Tachycardia Using a Percutaneous Left Ventricular Assist Device. Journal of the American College of Cardiology, 2011, 58, 1363-1371.	1.2	121
13	2011 ACCF/AHA Guideline for Coronary Artery Bypass Graft Surgery. Journal of the American College of Cardiology, 2011, 58, e123-e210.	1.2	665
14	Effects of fluid resuscitation on cerebral tissue oxygenation changes in a piglet model of hemorrhagic shock. Journal of the Chinese Medical Association, 2011, 74, 448-454.	0.6	6
15	Cerebral Oximetry-Guided Antegrade Cerebral Perfusion in Aortic Arch Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 591-592.	0.6	2
16	The Year in Cardiothoracic and Vascular Anesthesia: Selected Highlights From 2010. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 6-15.	0.6	6
17	Multimodal Brain Monitoring Reduces Major Neurologic Complications in Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 1076-1085.	0.6	32
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19	Cerebral blood flow and the injured brain: how should we monitor and manipulate it?. <i>Current Opinion in Anaesthesiology</i> , 2011, 24, 131-137.	0.9	50
20	Haemoglobin oxygen saturation as a biomarker: the problem and a solution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4407-4424.	1.6	95
21	Non-invasive optical imaging of stroke. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4470-4494.	1.6	36
23	Noninvasive tissue oxygen saturation determined by near-infrared spectroscopy following peripheral nerve block. <i>Acta Anaesthesiologica Scandinavica</i> , 2011, 55, 1239-1246.	0.7	24
24	Cerebral perfusion under pressure: is the autoregulatory "plateau" a level playing field for all?. <i>Anaesthesia</i> , 2011, 66, 968-972.	1.8	24
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26	Perioperative Management of the Hemodialysis Patient. <i>Seminars in Dialysis</i> , 2011, 24, 314-326.	0.7	65
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32	Cerebral oximetry desaturation during shoulder surgery performed in a sitting position under regional anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2011, 58, 986-992.	0.7	50
33	Shedding light on the adult brain: a review of the clinical applications of near-infrared spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4452-4469.	1.6	76
34	Continuous Surveillance of Lower Limb Perfusion During Aortic Surgery With Near-Infrared Spectroscopy: A Pilot Study. <i>Vascular and Endovascular Surgery</i> , 2011, 45, 407-411.	0.3	5
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39	Should We Monitor ScVO <sub>2</sub> in Critically Ill Patients?. <i>Cardiology Research and Practice</i> , 2012, 2012, 1-7.	0.5	21
40	EQUIPMENT, MONITORING, AND ENGINEERING TECHNOLOGY. <i>British Journal of Anaesthesia</i> , 2012, 108, ii109-ii144.	1.5	1
41	In vivo optical spectroscopy monitoring in a new model of muscular compartment syndrome. <i>British Journal of Anaesthesia</i> , 2012, 109, 561-565.	1.5	5
42	Cerebral Hemodynamic Changes in Stroke During Sleep-Disordered Breathing. <i>Stroke</i> , 2012, 43, 1951-1953.	1.0	34
43	Studies of isolated global brain ischaemia: I. A new large animal model of global brain ischaemia and its baseline perfusion studies. <i>European Journal of Cardio-thoracic Surgery</i> , 2012, 41, 1138-1146.	0.6	26
44	The effect of tourniquet deflation on hemodynamics and regional cerebral oxygen saturation in aged patients undergoing total knee replacement surgery. <i>Korean Journal of Anesthesiology</i> , 2012, 63, 425.	0.9	6
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52	Biomedical applications of wireless continuous wave near infrared spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 205-222.	1.2	19
53	The Evolution of Wireless near Infrared Spectroscopy Applications in Urology and Rationale for Clinical Use. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 57-73.	0.8	15
54	Increased intrathoracic pressure affects cerebral oxygenation following cardiac surgery. <i>Clinical Physiology and Functional Imaging</i> , 2012, 32, 367-371.	0.5	5
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57	Respiratory effects, hemodynamic changes and cement leakage during multilevel cement balloon kyphoplasty. <i>European Spine Journal</i> , 2012, 21, 1860-1866.	1.0	14
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60	Brain damage in cardiac surgery patients. Current Opinion in Pharmacology, 2012, 12, 189-194.	1.7	7
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64	Impaired adaptability of in vivo mitochondrial energetics to acute oxidative insult in aged skeletal muscle. Mechanisms of Ageing and Development, 2012, 133, 620-628.	2.2	28
65	Effect of Anesthetic Methods on Cerebral Oxygen Saturation in Elderly Surgical Patients: Prospective, Randomized, Observational Study. World Journal of Surgery, 2012, 36, 2328-2334.	0.8	7
66	Exaggerated Vasopressor Response to Exercise and Cerebral Blood Flow Velocity. Clinical and Experimental Hypertension, 2012, 34, 370-376.	0.5	3
67	Near infrared spectroscopy (NIRS) of the thenar eminence in anesthesia and intensive care. Annals of Intensive Care, 2012, 2, 11.	2.2	79
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76	Cerebral regional oxygen saturation monitoring in pediatric malfunctioning shunt patients. American Journal of Emergency Medicine, 2013, 31, 365-374.	0.7	6

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77	Intraoperative assessment of human spinal cord perfusion using near infrared spectroscopy with indocyanine green tracer technique. <i>Spine Journal</i> , 2013, 13, 1818-1825.	0.6	6
79	Cerebral oximetry in cardiovascular dialysis patients. <i>Hellenike Cheirurgike Acta Chirurgica Hellenica</i> , 2013, 85, 328-332.	0.1	0
80	What to Do When Your Brain Turns Blue? Considerations During Aortic Arch Surgery. <i>Seminars in Cardiothoracic and Vascular Anesthesia</i> , 2013, 17, 224-230.	0.4	0
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82	Acute Kidney Injury and Renal Regional Oxygen Saturation During Aortic Arch Reconstruction in Infants. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2013, 27, 1153-1157.	0.6	5
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84	A new method to detect cerebral blood flow waveform in synchrony with chest compression by near-infrared spectroscopy during CPR. <i>American Journal of Emergency Medicine</i> , 2013, 31, 1504-1508.	0.7	38
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86	Cerebral and Somatic Near-Infrared Spectroscopy Measurements During Fluid Challenge in Cardiac Surgery Patients: A Descriptive Pilot Study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2013, 27, 266-272.	0.6	21
87	Clinical Application of NIRS. , 2013, , 59-74.		2
88	Cardiac output measurement. <i>Anaesthesia and Intensive Care Medicine</i> , 2013, 14, 63-67.	0.1	1
89	Muscle oxygenation measurement in humans by noninvasive optical spectroscopy and Locally Weighted Regression. <i>Analytica Chimica Acta</i> , 2013, 785, 27-33.	2.6	12
90	Bilateral near-infrared spectroscopy for detecting traumatic vascular injury. <i>Journal of Surgical Research</i> , 2013, 184, 526-532.	0.8	7
91	Cerebral Oximetry and Cardiac Arrest. <i>Seminars in Cardiothoracic and Vascular Anesthesia</i> , 2013, 17, 269-275.	0.4	14
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95	Textile integrated sensors and actuators for near-infrared spectroscopy. <i>Optics Express</i> , 2013, 21, 3213.	1.7	40

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97	Effect of phenylephrine on the haemodynamic state and cerebral oxygen saturation during anaesthesia in the upright position. <i>British Journal of Anaesthesia</i> , 2013, 111, 229-234.	1.5	45
98	Postoperative cognitive dysfunction after cardiac surgery. <i>Continuing Education in Anaesthesia, Critical Care &amp; Pain</i> , 2013, 13, 218-223.	0.6	18
99	Impact of Different Surgical Strategies on Perioperative Protein S100 $\beta$ Release in Elderly Patients Undergoing Coronary Artery Bypass Grafting. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2013, 8, 230-236.	0.4	6
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101	Intraoperative tissue oxygenation and postoperative outcomes after major non-cardiac surgery: an observational study. <i>British Journal of Anaesthesia</i> , 2013, 110, 241-249.	1.5	48
102	Normothermic cardiopulmonary bypass increases cerebral tissue oxygenation during combined valve surgery: a single-centre, randomized trial. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2013, 16, 595-601.	0.5	10
103	Cerebral oximetry values in dialyzed surgical patients: a comparison between hemodialysis and peritoneal dialysis. <i>Renal Failure</i> , 2013, 35, 855-859.	0.8	16
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105	Monitoring the Brain to Save the Kidneys*. <i>Critical Care Medicine</i> , 2013, 41, 671-672.	0.4	2
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108	NIRS-measured prefrontal cortex activity in neuroergonomics: strengths and weaknesses. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 583.	1.0	48
109	Serial changes in values of cerebral regional saturation of oxygen (rSO <sub>2</sub> ) during resuscitation in patients with out-of-hospital cardiac arrest. <i>Nihon Kyukyū Igakukai Zasshi</i> , 2013, 24, 774-780.	0.0	6
110	Cerebral oxygen desaturation monitored by intraoperative near-infrared spectroscopy, and incidence of post-operative cognitive dysfunction: a systematic review protocol. <i>JBI Database of Systematic Reviews and Implementation Reports</i> , 2013, 11, 146-158.	1.7	1
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112	Systematic review of near-infrared spectroscopy determined cerebral oxygenation during non-cardiac surgery. <i>Frontiers in Physiology</i> , 2014, 5, 93.	1.3	104
113	Cerebral Oximetry to Reduce Perioperative Morbidity. <i>Anaesthesia and Intensive Care</i> , 2014, 42, 310-314.	0.2	13

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115	Monitoring Cerebral Oxygenation during Balloon Occlusion with Multichannel NIRS. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 347-356.	2.4	17
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117	Cerebral hemodynamics of the aging brain: risk of Alzheimer disease and benefit of aerobic exercise. <i>Frontiers in Physiology</i> , 2014, 5, 6.	1.3	29
118	Photon path depth in tissue phantoms: a comparison of visible and near-infrared (NIR) wavelengths. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
119	Cerebral Oxygenation in Patients With OSA. <i>Chest</i> , 2014, 146, 299-308.	0.4	40
120	Clarification of the circulatory patho-physiology of anaesthesia – Implications for high-risk surgical patients. <i>International Journal of Surgery</i> , 2014, 12, 1348-1356.	1.1	17
121	Multi-modal causality analysis of eyes-open and eyes-closed data from simultaneously recorded EEG and MEG. , 2014, 2014, 2825-8.		5
122	Poor agreement between transcranial Doppler and near-infrared spectroscopy-based estimates of cerebral blood flow changes in sepsis. <i>Clinical Physiology and Functional Imaging</i> , 2014, 34, 405-409.	0.5	14
123	5.4L: <i>Late News Paper</i>: ALA Mediated Metronomic Photodynamic Therapy in Mouse Gliomas Model using Organic Light Emitting Diode. <i>Digest of Technical Papers SID International Symposium</i> , 2014, 45, 42-45.	0.1	1
124	Near-infrared spectroscopy: exposing the dark (venous) side of the circulation. <i>Paediatric Anaesthesia</i> , 2014, 24, 74-88.	0.6	92
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127	A Micro-Raman Study of Live, Single Red Blood Cells (RBCs) Treated with AgNO3 Nanoparticles. <i>PLoS ONE</i> , 2014, 9, e103493.	1.1	40
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129	Effect of head rotation during surgery in the prone position on regional cerebral oxygen saturation. <i>European Journal of Anaesthesiology</i> , 2014, 31, 98-103.	0.7	10
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132	Lower limb peripheral NIRS parameters during a vascular occlusion test: An experimental study in healthy volunteers. <i>Annales Francaises D'Anesthesie Et De Reanimation</i> , 2014, 33, e9-e14.	1.4	31
134	Cerebral oximetry with blood volume index in asystolic pediatric cerebrospinal fluid malfunctioning shunt patients. <i>American Journal of Emergency Medicine</i> , 2014, 32, 1439.e1-1439.e7.	0.7	10
135	Functional near-infrared spectroscopy for the measurement of propofol effects in conscious sedation during outpatient elective colonoscopy. <i>NeuroImage</i> , 2014, 85, 626-636.	2.1	15
136	Perioperative transesophageal echocardiography for aortic dissection. <i>Canadian Journal of Anaesthesia</i> , 2014, 61, 362-378.	0.7	11
137	Splanchnic Oxygen Saturation Immediately After Weaning From Cardiopulmonary Bypass Can Predict Early Postoperative Outcomes in Children Undergoing Congenital Heart Surgery. <i>Pediatric Cardiology</i> , 2014, 35, 587-595.	0.6	13
138	Intraoperative Renal Regional Oxygen Desaturation Can Be a Predictor for Acute Kidney Injury after Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014, 28, 564-571.	0.6	57
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142	Global brain hypoperfusion and oxygenation in amnesic mild cognitive impairment. <i>Alzheimer's and Dementia</i> , 2014, 10, 162-170.	0.4	62
143	Light Propagation in NIR Spectroscopy of the Human Brain. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 289-298.	1.9	40
144	Practical Use of Near-Infrared Spectroscopy in Carotid Surgery. <i>Angiology</i> , 2014, 65, 769-772.	0.8	23
145	Taking the pulse of aging: Mapping pulse pressure and elasticity in cerebral arteries with optical methods. <i>Psychophysiology</i> , 2014, 51, 1072-1088.	1.2	63
146	Monitoring Tissue Blood Flow and Oxygenation. <i>Critical Care Nursing Clinics of North America</i> , 2014, 26, 345-356.	0.4	8
147	Infrared-based quantification of clinical parameters. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 93-105.	5.8	48
148	Relationship between intraoperative regional cerebral oxygen saturation trends and cognitive decline after total knee replacement: a post-hoc analysis. <i>BMC Anesthesiology</i> , 2014, 14, 58.	0.7	19
149	Dynamic Cerebral Autoregulation and Tissue Oxygenation in Amnesic Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 765-778.	1.2	113
150	Cerebral oxygenation and hemodynamic measurements during craniostomy surgery with near-infrared spectroscopy. <i>Child's Nervous System</i> , 2014, 30, 1367-1374.	0.6	20

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152	Anesthetic Management for Cardiopulmonary Bypass. <i>Seminars in Cardiothoracic and Vascular Anesthesia</i> , 2014, 18, 101-116.	0.4	4
153	A pilot study of cerebral tissue oxygenation and postoperative cognitive dysfunction among patients undergoing coronary artery bypass grafting randomised to surgery with or without cardiopulmonary bypass*. <i>Anaesthesia</i> , 2014, 69, 613-622.	1.8	57
154	Frontal hemodynamic changes precede EEG onset of temporal lobe seizures. <i>Clinical Neurophysiology</i> , 2014, 125, 442-448.	0.7	28
155	Cerebral oximetry and cerebral blood flow monitoring in 2 pediatric survivors with out-of-hospital cardiac arrest. <i>American Journal of Emergency Medicine</i> , 2014, 32, 394.e5-394.e10.	0.7	8
156	Detection of cerebral arterial gas embolism using regional cerebral oxygen saturation, quantitative electroencephalography, and brain oxygen tension in the swine. <i>Journal of Neuroscience Methods</i> , 2014, 228, 79-85.	1.3	3
157	Duration and magnitude of blood pressure below cerebral autoregulation threshold during cardiopulmonary bypass is associated with major morbidity and operative mortality. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 483-489.	0.4	178
158	Cerebral oxygen saturation monitoring in pediatric altered mental status patients. <i>American Journal of Emergency Medicine</i> , 2014, 32, 356-362.	0.7	9
159	The Effect of Optimising Cerebral Tissue Oxygen Saturation on Markers of Neurological Injury during Coronary Artery Bypass Graft Surgery. <i>Heart Lung and Circulation</i> , 2014, 23, 68-74.	0.2	37
161	Brain Perfusion and Oxygenation. <i>Critical Care Nursing Clinics of North America</i> , 2014, 26, 389-398.	0.4	9
162	NIRS in clinical neurology – a “promising” tool?. <i>NeuroImage</i> , 2014, 85, 535-546.	2.1	200
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