

John Mark Ansermino

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1642102/john-mark-ansermino-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

250
papers

4,598
citations

36
h-index

56
g-index

274
ext. papers

5,666
ext. citations

3.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
250	Prediction of adverse maternal outcomes in pre-eclampsia: development and validation of the fullPIERS model. <i>Lancet, The</i> , 2011 , 377, 219-27	4.0	306
249	Multiparameter respiratory rate estimation from the photoplethysmogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1946-53	5	226
248	Consensus-based recommendations for standardizing terminology and reporting adverse events for emergency department procedural sedation and analgesia in children. <i>Annals of Emergency Medicine</i> , 2009 , 53, 426-435.e4	2.1	148
247	Predicting fluid responsiveness in children: a systematic review. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1380-92	3.9	142
246	A risk prediction model for the assessment and triage of women with hypertensive disorders of pregnancy in low-resourced settings: the miniPIERS (Pre-eclampsia Integrated Estimate of RiSk) multi-country prospective cohort study. <i>PLoS Medicine</i> , 2014 , 11, e1001589	11.6	117
245	Propofol and ketamine in combination versus ketamine or propofol alone for procedural sedation in children outside of the operating room. <i>The Cochrane Library</i> , 2017 ,	5.2	78
244	Development of a screening tool for sleep disordered breathing in children using the phone Oximeter. <i>PLoS ONE</i> , 2014 , 9, e112959	3.7	77
243	Emergence delirium in children: a randomized trial to compare total intravenous anesthesia with propofol and remifentanyl to inhalational sevoflurane anesthesia. <i>Paediatric Anaesthesia</i> , 2013 , 23, 309-15	1.8	75
242	Anesthetic considerations in the management of Wilms' tumor. <i>Paediatric Anaesthesia</i> , 2006 , 16, 504-13	1.8	75
241	Photoplethysmogram signal quality estimation using repeated Gaussian filters and cross-correlation. <i>Physiological Measurement</i> , 2012 , 33, 1617-29	2.9	71
240	Estimating respiratory and heart rates from the correntropy spectral density of the photoplethysmogram. <i>PLoS ONE</i> , 2014 , 9, e86427	3.7	69
239	Design and Clinical Evaluation of Robust PID Control of Propofol Anesthesia in Children. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 491-501	4.8	66
238	Individualized closed-loop control of propofol anesthesia: A preliminary study. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 500-508	4.9	63
237	Pediatric post-discharge mortality in resource poor countries: a systematic review. <i>PLoS ONE</i> , 2013 , 8, e66698	3.7	63
236	Robust closed-loop control of induction and maintenance of propofol anesthesia in children. <i>Paediatric Anaesthesia</i> , 2013 , 23, 712-9	1.8	61
235	Closed-loop control of anesthesia: a primer for anesthesiologists. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1130-8	3.9	60
234	Capillary refill time: is it still a useful clinical sign?. <i>Anesthesia and Analgesia</i> , 2011 , 113, 120-3	3.9	56

233	Development of mHealth applications for pre-eclampsia triage. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1857-64	7.2	55
232	Prediction of adverse maternal outcomes from pre-eclampsia and other hypertensive disorders of pregnancy: A systematic review. <i>Pregnancy Hypertension</i> , 2018 , 11, 115-123	2.6	53
231	Total intravenous anesthesia and spontaneous respiration for airway endoscopy in children--a prospective evaluation. <i>Paediatric Anaesthesia</i> , 2010 , 20, 434-8	1.8	52
230	Usability and Feasibility of PIERS on the Move: An mHealth App for Pre-Eclampsia Triage. <i>JMIR MHealth and UHealth</i> , 2015 , 3, e37	5.5	51
229	Relationship between age and spontaneous ventilation during intravenous anesthesia in children. <i>Paediatric Anaesthesia</i> , 2007 , 17, 948-55	1.8	49
228	An evaluation of a vibro-tactile display prototype for physiological monitoring. <i>Anesthesia and Analgesia</i> , 2005 , 101, 1719-1724	3.9	48
227	Design and evaluation of a low-cost smartphone pulse oximeter. <i>Sensors</i> , 2013 , 13, 16882-93	3.8	46
226	Improving the accuracy and efficiency of respiratory rate measurements in children using mobile devices. <i>PLoS ONE</i> , 2014 , 9, e99266	3.7	45
225	Adaptive pulse segmentation and artifact detection in photoplethysmography for mobile applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3131-4	0.9	45
224	Assessment of a Mobile Game ("MobileKids Monster Manor") to Promote Physical Activity Among Children. <i>Games for Health Journal</i> , 2015 , 4, 149-58	4.2	43
223	A framework for evaluating usability of clinical monitoring technology. <i>Journal of Clinical Monitoring and Computing</i> , 2007 , 21, 323-30	2	43
222	Skin conductance fluctuations correlate poorly with postoperative self-report pain measures in school-aged children. <i>Anesthesiology</i> , 2010 , 113, 175-82	4.3	42
221	Pediatric sepsis in the developing world: challenges in defining sepsis and issues in post-discharge mortality. <i>Clinical Epidemiology</i> , 2012 , 4, 319-25	5.9	41
220	Adaptive change detection in heart rate trend monitoring in anesthetized children. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2211-9	5	38
219	PIERS proteinuria: relationship with adverse maternal and perinatal outcome. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2011 , 33, 588-597	1.3	37
218	Identification by families of pediatric adverse events and near misses overlooked by health care providers. <i>Cmaj</i> , 2012 , 184, 29-34	3.5	37
217	A Systematic Review of Tools to Measure Respiratory Rate in Order to Identify Childhood Pneumonia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1116-1127	10.2	36
216	Identifying a rapid bolus dose of dexmedetomidine (ED50) with acceptable hemodynamic outcomes in children. <i>Paediatric Anaesthesia</i> , 2014 , 24, 1260-7	1.8	36

215	Spontaneous ventilation with remifentanyl in children. <i>Paediatric Anaesthesia</i> , 2005 , 15, 115-21	1.8	36
214	Robust closed-loop control of hypnosis with propofol using WAVCNS index as the controlled variable. <i>Biomedical Signal Processing and Control</i> , 2012 , 7, 517-524	4.9	35
213	An audit of pain management following pediatric day surgery at British Columbia Children's Hospital. <i>Pain Research and Management</i> , 2012 , 17, 328-34	2.6	35
212	Quantification of the variability in response to propofol administration in children. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2521-9	5	34
211	A double-blind comparison of intravenous ondansetron and placebo for preventing postoperative emesis in 1- to 24-month-old pediatric patients after surgery under general anesthesia. <i>Anesthesia and Analgesia</i> , 2005 , 101, 356-361	3.9	34
210	Canadian pediatric anesthesiologists prefer inhalational anesthesia to manage difficult airways. <i>Canadian Journal of Anaesthesia</i> , 2005 , 52, 285-90	3	34
209	Usability testing of a prototype Phone Oximeter with healthcare providers in high- and low-medical resource environments. <i>Anaesthesia</i> , 2012 , 67, 957-67	6.6	33
208	At-a-glance monitoring: covert observations of anesthesiologists in the operating room. <i>Anesthesia and Analgesia</i> , 2010 , 111, 653-8	3.9	33
207	A novel vibrotactile display to improve the performance of anesthesiologists in a simulated critical incident. <i>Anesthesia and Analgesia</i> , 2008 , 106, 1182-8, table of contents	3.9	33
206	Predictors of Mortality in Neonates and Infants Hospitalized With Sepsis or Serious Infections in Developing Countries: A Systematic Review. <i>Frontiers in Pediatrics</i> , 2018 , 6, 277	3.4	33
205	A direct dynamic dose-response model of propofol for individualized anesthesia care. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 571-8	5	31
204	Postdischarge mortality in children with acute infectious diseases: derivation of postdischarge mortality prediction models. <i>BMJ Open</i> , 2015 , 5, e009449	3	30
203	The effect of age on the dose of remifentanyl for tracheal intubation in infants and children. <i>Paediatric Anaesthesia</i> , 2010 , 20, 19-27	1.8	30
202	Pulse rate variability compared with Heart Rate Variability in children with and without sleep disordered breathing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6543-6	0.9	29
201	Defining the reliability of sonoanatomy identification by novices in ultrasound-guided pediatric ilioinguinal and iliohypogastric nerve blockade. <i>Anesthesia and Analgesia</i> , 2009 , 109, 1793-8	3.9	29
200	Prevalence of Toll-like receptor signalling defects in apparently healthy children who developed invasive pneumococcal infection. <i>Clinical Immunology</i> , 2007 , 122, 271-8	9	29
199	Design and Evaluation of a Closed-Loop Anesthesia System With Robust Control and Safety System. <i>Anesthesia and Analgesia</i> , 2018 , 127, 883-894	3.9	29
198	A smartphone version of the Faces Pain Scale-Revised and the Color Analog Scale for postoperative pain assessment in children. <i>Paediatric Anaesthesia</i> , 2015 , 25, 1264-73	1.8	28

197	Estimation of respiratory rate from photoplethysmographic imaging videos compared to pulse oximetry. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1331-8	7.2	27
196	Design challenges for camera oximetry on a mobile phone. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2448-51	0.9	27
195	Paediatric postdischarge mortality in developing countries: a systematic review. <i>BMJ Open</i> , 2018 , 8, e023445		27
194	Extracting Instantaneous Respiratory Rate From Multiple Photoplethysmogram Respiratory-Induced Variations. <i>Frontiers in Physiology</i> , 2018 , 9, 948	4.6	27
193	The effect of a target controlled infusion of propofol on predictability of recovery from anesthesia in children. <i>Paediatric Anaesthesia</i> , 2010 , 20, 56-62	1.8	25
192	Acceleromyography improves detection of residual neuromuscular blockade in children. <i>Canadian Journal of Anaesthesia</i> , 1996 , 43, 589-94	3	25
191	Assessing the incremental value of blood oxygen saturation (SpO ₂) in the miniPIERS (Pre-eclampsia Integrated Estimate of RiSk) Risk Prediction Model. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2015 , 37, 16-24	1.3	24
190	The PAediatric Risk Assessment (PARA) Mobile App to Reduce Postdischarge Child Mortality: Design, Usability, and Feasibility for Health Care Workers in Uganda. <i>JMIR MHealth and UHealth</i> , 2016 , 4, e16	5.5	24
189	Placental Growth Factor as a Prognostic Tool in Women With Hypertensive Disorders of Pregnancy: A Systematic Review. <i>Hypertension</i> , 2017 , 70, 1228-1237	8.5	23
188	Sequential allocation trial design in anesthesia: an introduction to methods, modeling, and clinical applications. <i>Paediatric Anaesthesia</i> , 2017 , 27, 240-247	1.8	22
187	Slower administration of propofol preserves adequate respiration in children. <i>Paediatric Anaesthesia</i> , 2010 , 20, 1001-8	1.8	22
186	A knowledge authoring tool for clinical decision support. <i>Journal of Clinical Monitoring and Computing</i> , 2008 , 22, 189-98	2	22
185	A wavelet approach to detecting electrocautery noise in the ECG. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2006 , 25, 76-82		22
184	Increased tidal volume variability in children is a better marker of opioid-induced respiratory depression than decreased respiratory rate. <i>Journal of Clinical Monitoring and Computing</i> , 2004 , 18, 171-8		22
183	The Usefulness of the APACHE II Score in Obstetric Critical Care: A Structured Review. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2016 , 38, 909-918	1.3	21
182	Assessment of the fullPIERS Risk Prediction Model in Women With Early-Onset Preeclampsia. <i>Hypertension</i> , 2018 , 71, 659-665	8.5	20
181	A systematic review and meta-analysis of caudal blockade versus alternative analgesic strategies for pediatric inguinal hernia repair. <i>Journal of Pediatric Surgery</i> , 2013 , 48, 1077-85	2.6	20
180	Application of Sepsis Definitions to Pediatric Patients Admitted With Suspected Infections in Uganda. <i>Pediatric Critical Care Medicine</i> , 2016 , 17, 400-5	3	19

179	Spontaneous respiration during intravenous anesthesia in children. <i>Current Opinion in Anaesthesiology</i> , 2009 , 22, 383-7	2.9	19
178	An evaluation of a novel software tool for detecting changes in physiological monitoring. <i>Anesthesia and Analgesia</i> , 2009 , 108, 873-80	3.9	19
177	Intravenous nalbuphine 50 µg/kg(-1) is ineffective for opioid-induced pruritus in pediatrics. <i>Canadian Journal of Anaesthesia</i> , 2006 , 53, 1103-10	3	19
176	Determining predictors of sepsis at triage among children under 5 years of age in resource-limited settings: A modified Delphi process. <i>PLoS ONE</i> , 2019 , 14, e0211274	3.7	19
175	. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1758-1770	4.8	19
174	Development and internal validation of a multivariable model to predict perinatal death in pregnancy hypertension. <i>Pregnancy Hypertension</i> , 2015 , 5, 315-21	2.6	18
173	Visual cueing with context relevant information for reducing change blindness. <i>Journal of Clinical Monitoring and Computing</i> , 2009 , 23, 223-32	2	17
172	The Community-Level Interventions for Pre-eclampsia (CLIP) cluster randomised trials in Mozambique, Pakistan, and India: an individual participant-level meta-analysis. <i>Lancet, The</i> , 2020 , 396, 553-563	4.0	17
171	Evaluation of cardiac modulation in children in response to apnea/hypopnea using the Phone Oximeter. <i>Physiological Measurement</i> , 2016 , 37, 187-202	2.9	16
170	Pulse oximetry recorded from the Phone Oximeter for detection of obstructive sleep apnea events with and without oxygen desaturation in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7692-5	0.9	16
169	Changes in cardiac index and blood pressure on positioning children prone for scoliosis surgery. <i>Anaesthesia</i> , 2013 , 68, 742-6	6.6	16
168	Scheduled Follow-Up Referrals and Simple Prevention Kits Including Counseling to Improve Post-Discharge Outcomes Among Children in Uganda: A Proof-of-Concept Study. <i>Global Health, Science and Practice</i> , 2016 , 4, 422-34	2.8	16
167	Respiratory rate and pulse oximetry derived information as predictors of hospital admission in young children in Bangladesh: a prospective observational study. <i>BMJ Open</i> , 2016 , 6, e011094	3	16
166	Developing an objective method for analyzing vital signs changes in neonates during general anesthesia. <i>Paediatric Anaesthesia</i> , 2016 , 26, 1071-1081	1.8	15
165	Evaluation of a Novel Mobile Exergame in a School-Based Environment. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2016 , 19, 186-92	4.4	15
164	Oxygen saturation in children with and without obstructive sleep apnea using the phone-oximeter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2531-4	0.9	15
163	Closed-loop anesthetic drug concentration estimation using clinical-effect feedback. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 3-6	5	15
162	Variation in blood pressure as a guide to volume loading in children following cardiopulmonary bypass. <i>Journal of Clinical Monitoring and Computing</i> , 2007 , 21, 1-6	2	15

161	Temporal and external validation of the fullPIERS model for the prediction of adverse maternal outcomes in women with pre-eclampsia. <i>Pregnancy Hypertension</i> , 2019 , 15, 42-50	2.6	15
160	A smartphone oximeter with a fingertip probe for use during exercise training: usability, validity and reliability in individuals with chronic lung disease and healthy controls. <i>Physiotherapy</i> , 2019 , 105, 297-306	3	14
159	An evaluation of an expert system for detecting critical events during anesthesia in a human patient simulator: a prospective randomized controlled study. <i>Anesthesia and Analgesia</i> , 2013 , 117, 380-389	3.9	14
158	Robust control of depth of anesthesia. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008 , 23, n/a-n/a	2.8	14
157	A vibro-tactile display for clinical monitoring: real-time evaluation. <i>Anesthesia and Analgesia</i> , 2012 , 115, 588-94	3.9	14
156	Monitoring nociception during general anesthesia with cardiorespiratory coherence. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 551-60	2	13
155	Improving maternal and perinatal outcomes in the hypertensive disorders of pregnancy: a vision of a community-focused approach. <i>International Journal of Gynecology and Obstetrics</i> , 2012 , 119 Suppl 1, S30-4	4	13
154	A retrospective audit to examine the effectiveness of preoperative warming on hypothermia in spine deformity surgery patients. <i>Paediatric Anaesthesia</i> , 2013 , 23, 1054-61	1.8	13
153	Sensor fusion using a hybrid median filter for artifact removal in intraoperative heart rate monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2009 , 23, 75-83	2	13
152	Pediatric pulse oximetry-based OSA screening at different thresholds of the apnea-hypopnea index with an expression of uncertainty for inconclusive classifications. <i>Sleep Medicine</i> , 2019 , 60, 45-52	4.6	13
151	Community-level interventions for pre-eclampsia (CLIP) in Mozambique: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 21, 96-105	2.6	12
150	Identifying individual sleep apnea/hypoapnea epochs using smartphone-based pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3195-3198	0.9	12
149	Development and Internal Validation of a Predictive Model Including Pulse Oximetry for Hospitalization of Under-Five Children in Bangladesh. <i>PLoS ONE</i> , 2015 , 10, e0143213	3.7	12
148	Clinical evaluation of algorithms for context-sensitive physiological monitoring in children. <i>British Journal of Anaesthesia</i> , 2009 , 102, 686-91	5.4	12
147	A human factors and survey methodology-based design of a web-based adverse event reporting system for families. <i>International Journal of Medical Informatics</i> , 2010 , 79, 339-48	5.3	12
146	In-hospital usability and feasibility evaluation of Panda, an app for the management of pain in children at home. <i>Paediatric Anaesthesia</i> , 2018 , 28, 897-905	1.8	12
145	Optimizing Robust PID Control of Propofol Anesthesia for Children: Design and Clinical Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2918-2923	5	11
144	Community level interventions for pre-eclampsia (CLIP) in India: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 21, 166-175	2.6	11

143	A Procedural Electroencephalogram Simulator for Evaluation of Anesthesia Monitors. <i>Anesthesia and Analgesia</i> , 2016 , 123, 1136-1140	3.9	11
142	Rethinking management of neonates at risk of sepsis. <i>Lancet, The</i> , 2019 , 394, 279-281	4.0	11
141	Changes in QTc associated with a rapid bolus dose of dexmedetomidine in patients receiving TIVA: a retrospective study. <i>Paediatric Anaesthesia</i> , 2015 , 25, 1287-93	1.8	11
140	Universal access to essential vital signs monitoring. <i>Anesthesia and Analgesia</i> , 2013 , 117, 883-890	3.9	11
139	Evaluation of non-invasive continuous physiological monitoring devices for neonates in Nairobi, Kenya: a research protocol. <i>BMJ Open</i> , 2020 , 10, e035184	3	11
138	Pediatric out-of-hospital deaths following hospital discharge: a mixed-methods study. <i>African Health Sciences</i> , 2016 , 16, 883-891	1.1	10
137	Critical incidents related to opioid infusions in children: a five-year review and analysis. <i>Canadian Journal of Anaesthesia</i> , 2014 , 61, 312-21	3	10
136	Respiratory rate estimation using respiratory sinus arrhythmia from photoplethysmography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1201-4	0.9	10
135	Individualized PID control of depth of anesthesia based on patient model identification during the induction phase of anesthesia 2011 ,		10
134	Wavelet transform cardiorespiratory coherence detects patient movement during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6114-7	0.9	10
133	Community-level interventions for pre-eclampsia (CLIP) in Pakistan: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 22, 109-118	2.6	10
132	A semi-adaptive control approach to closed-loop medication infusion. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 240-254	2.8	9
131	Clinician-Driven Design of -An Intelligent Monitoring and Communication Device to Improve Patient Safety in the Intensive Care Unit. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 3000114	3	9
130	A naloxone admixture to prevent opioid-induced pruritus in children: a randomized controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2015 , 62, 891-900	3	9
129	Two-stage vs mixed-effect approach to pharmacodynamic modeling of propofol in children using state entropy. <i>Paediatric Anaesthesia</i> , 2011 , 21, 691-8	1.8	9
128	An adaptive Cusum test based on a hidden semi-Markov model for change detection in non-invasive mean blood pressure trend. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3395-8		9
127	A synthesis method for automatic handling of inter-patient variability in closed-loop anesthesia 2016 ,		9
126	Development and internal validation of the multivariable CIPHER (Collaborative Integrated Pregnancy High-dependency Estimate of Risk) clinical risk prediction model. <i>Critical Care</i> , 2018 , 22, 278	10.8	9

125	Moving beyond silos: How do we provide distributed personalized medicine to pregnant women everywhere at scale? Insights from PRE-EMPT. <i>International Journal of Gynecology and Obstetrics</i> , 2015 , 131 Suppl 1, S10-5	4	8
124	Closed-Loop Anesthesia in Children using a PID controller: A Pilot Study. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 317-322		8
123	Selecting candidate predictor variables for the modelling of post-discharge mortality from sepsis: a protocol development project. <i>African Health Sciences</i> , 2016 , 16, 162-9	1.1	8
122	How Uncertain Is Our Reference Standard for Respiratory Rate Measurement?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1036-1037	10.2	7
121	Respiratory rates observed over 15 and 30 s compared with rates measured over 60 s: practice-based evidence from an observational study of acutely ill adult medical patients during hospital admission. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2019 , 112, 513-517	2.7	7
120	Feasibility of continuous sedation monitoring in critically ill intensive care unit patients using the NeuroSENSE WAV index. <i>Journal of Clinical Monitoring and Computing</i> , 2018 , 32, 1081-1091	2	7
119	A Multi-Week Assessment of a Mobile Exergame Intervention in an Elementary School. <i>Games for Health Journal</i> , 2018 , 7, 1-8	4.2	7
118	2013 ,		7
117	A Formally-Verified Safety System for Closed-Loop Anesthesia. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4424-4429	0.7	7
116	The Performance of a Mobile Phone Respiratory Rate Counter Compared to the WHO ARI Timer. <i>Journal of Healthcare Engineering</i> , 2015 , 6, 691-703	3.7	7
115	System identification and closed-loop control of end-tidal CO ₂ in mechanically ventilated patients. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 1176-84		7
114	Detection of the optimal region of interest for camera oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2263-6	0.9	7
113	Mobile Patient Monitoring for the Pediatric Intensive Care Unit Work Domain Analysis and Rapid Prototyping Results 2013 ,		7
112	Comparison between a dorsal and a belt tactile display prototype for decoding physiological events in the operating room. <i>Journal of Clinical Monitoring and Computing</i> , 2009 , 23, 137-47	2	7
111	Pediatric in-Hospital Death from Infectious Disease in Uganda: Derivation of Clinical Prediction Models. <i>PLoS ONE</i> , 2016 , 11, e0150683	3.7	7
110	The evaluation of smartphone versions of the visual analogue scale and numeric rating scale as postoperative pain assessment tools: a prospective randomized trial. <i>Canadian Journal of Anaesthesia</i> , 2019 , 66, 706-715	3	6
109	A cohort study of morbidity, mortality and health seeking behavior following rural health center visits by children under 12 in southwestern Uganda. <i>PLoS ONE</i> , 2015 , 10, e0118055	3.7	6
108	Estimating instantaneous respiratory rate from the photoplethysmogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6150-3	0.9	6

107	Ultra-low-cost clinical pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2874-7	0.9	6
106	Smart triage: triage and management of sepsis in children using the point-of-care Pediatric Rapid Sepsis Trigger (PRST) tool. <i>BMC Health Services Research</i> , 2020 , 20, 493	2.9	5
105	A monitor-decoupled pharmacodynamic model of propofol in children using state entropy as clinical endpoint. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 736-43	5	5
104	Simulated mid-ranging control of propofol and remifentanyl using EEG-measured hypnotic depth of anesthesia 2012 ,		5
103	Total intravenous anesthesia and spontaneous ventilation for foreign body removal in children: how much drug?. <i>Anesthesia and Analgesia</i> , 2010 , 111, 1566; author reply 1566	3.9	5
102	A Cusum-based multilevel alerting method for physiological monitoring. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1046-52		5
101	Defining rules for the identification of critical ventilatory events. <i>Canadian Journal of Anaesthesia</i> , 2008 , 55, 702-14	3	5
100	Measuring the quality of pediatric day surgery care. <i>Journal for Healthcare Quality: Official Publication of the National Association for Healthcare Quality</i> , 2007 , 29, 36-44, 49	1	5
99	A Postoperative Pain Management Mobile App (Panda) for Children at Home After Discharge: Usability and Feasibility. <i>JMIR Perioperative Medicine</i> , 2019 , 2, e12305	1.5	5
98	A formalized safety system for closed-loop anesthesia with pharmacokinetic and pharmacodynamic constraints. <i>Control Engineering Practice</i> , 2019 , 84, 23-31	3.9	5
97	Symbolic dynamics to enhance diagnostic ability of portable oximetry from the phone oximeter in the detection of paediatric sleep apnoea. <i>Physiological Measurement</i> , 2018 ,	2.9	5
96	Variability in estimating shunt from single pulse oximetry measurements. <i>Physiological Measurement</i> , 2015 , 36, 967-81	2.9	4
95	Placental growth factor for the prognosis of women with preeclampsia (fullPIERS model extension): context matters. <i>BMC Pregnancy and Childbirth</i> , 2020 , 20, 668	3.2	4
94	The use of the Panda-Nerve Block pain app in single-shot peripheral nerve block patients: a feasibility study. <i>Canadian Journal of Anaesthesia</i> , 2020 , 67, 1140-1151	3	4
93	Model-invariant safety-preserving control 2016 ,		4
92	Respiratory rate assessment from photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5397-400	0.9	4
91	Recognition of correct finger placement for photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7480-3	0.9	4
90	An allometric model to estimate fluid requirements in children following burn injury. <i>Paediatric Anaesthesia</i> , 2010 , 20, 305-12	1.8	4

89	Design of Rhythm-Based Vibrotactile Stimuli Around the Waist: Evaluation of Two Encoding Parameters. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2009 , 39, 1062-1073		4
88	Augmented intelligence in pediatric anesthesia and pediatric critical care. <i>Current Opinion in Anaesthesiology</i> , 2020 , 33, 404-410	2.9	4
87	Exploring healthcare providers' perspectives of the paediatric discharge process in Uganda: a qualitative exploratory study. <i>BMJ Open</i> , 2019 , 9, e029526	3	4
86	Predictor variables for post-discharge mortality modelling in infants: a protocol development project. <i>African Health Sciences</i> , 2018 , 18, 1214-1225	1.1	4
85	The effect of cardiac output on the pharmacokinetics and pharmacodynamics of propofol during closed-loop induction of anesthesia. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 192, 105406	6.9	3
84	Activated protein C as disease-modifying therapy in antenatal preeclampsia: An open-label, single arm safety and efficacy trial. <i>Pregnancy Hypertension</i> , 2018 , 13, 121-126	2.6	3
83	Closed-Loop Control of Total Intravenous Anesthesia During Significant Intraoperative Blood Loss: A Case Report. <i>A & A Case Reports</i> , 2017 , 9, 239-243		3
82	Correntropy-Based Pulse Rate Variability Analysis in Children with Sleep Disordered Breathing. <i>Entropy</i> , 2017 , 19, 282	2.8	3
81	Safety-preserving closed-loop control of anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 454-7	0.9	3
80	Oxygen saturation resolution influences regularity measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2257-60	0.9	3
79	Using machine-to-machine / Internet of Things communication to simplify medical device information exchange 2014 ,		3
78	Pharmacodynamic modeling of propofol-induced tidal volume depression in children. <i>Journal of Clinical Monitoring and Computing</i> , 2011 , 25, 275-84	2	3
77	Real-time cardiorespiratory coherence detects antinociception during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3813-6	0.9	3
76	Introduction of new monitors into clinical anesthesia. <i>Current Opinion in Anaesthesiology</i> , 2009 , 22, 775-81	1.9	3
75	Evaluation of a digital triage platform in Uganda: A quality improvement initiative to reduce the time to antibiotic administration. <i>PLoS ONE</i> , 2020 , 15, e0240092	3.7	3
74	Development and Implementation of the Portable Operating Room Tracker App With Vital Signs Streaming Infrastructure: Operational Feasibility Study. <i>JMIR Perioperative Medicine</i> , 2019 , 2, e13559	1.5	3
73	Sleep/Wake Classification Using Cardiorespiratory Features Extracted from Photoplethysmogram		3
72	The effect of ketamine on depth of hypnosis indices during total intravenous anesthesia-a comparative study using a novel electroencephalography case replay system. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 1027-1036	2	3

71	A Comparative Data-Based Modeling Study on Respiratory CO2 Gas Exchange during Mechanical Ventilation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 8	5.8	3
70	Falsified Model-Invariant Safety-Preserving Control With Application to Closed-Loop Anesthesia. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 617-625	4.8	3
69	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 254-263	4.8	3
68	Effect of ketamine on the NeuroSENSE WAV during propofol anesthesia; a randomized feasibility trial. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 557-567	2	3
67	Semi-adaptive feedback control of opioid infusion 2016 ,		2
66	From the Journal archives: Improving patient outcomes in the era of big data. 1992. <i>Canadian Journal of Anaesthesia</i> , 2014 , 61, 959-62	3	2
65	2015 ,		2
64	Telephone and web-based pediatric day surgery questionnaires. <i>International Journal of Health Care Quality Assurance</i> , 2010 , 23, 339-51	1.3	2
63	Automated Validation of Capillary Refill Time Measurements Using Photo-Plethysmogram from a Portable Device for Effective Triage in Children 2011 ,		2
62	A current landscape of provincial perinatal data collection in Canada. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2009 , 31, 236-246	1.3	2
61	iAssist: a software framework for intelligent patient monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 3790-3		2
60	Multivariate analysis in clinical monitoring: detection of intraoperative hemorrhage and light anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6216-9		2
59	Adaptive change point detection for respiratory variables. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2006, 780-3		2
58	Identification of thresholds for accuracy comparisons of heart rate and respiratory rate in neonates. <i>Gates Open Research</i> , 5, 93	2.4	2
57	Evidence and Transparency are Needed to Develop a Frontline Health Worker mHealth Assessment Platform. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019 , 101, 948	3.2	2
56	A transformation of oxygen saturation (the saturation virtual shunt) to improve clinical prediction model calibration and interpretation		2
55	Evaluating NeuroSENSE for assessing depth of hypnosis during desflurane anesthesia: an adaptive, randomized-controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2020 , 67, 324-335	3	2
54	Are respiratory rate counters really so bad? Throwing the baby out with the bath water. <i>EClinicalMedicine</i> , 2019 , 16, 14	11.3	2

53	Night to night pulse oximetry variability in children with suspected sleep apnea. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 179-182</i>	0.9	2
52	Blood pressure thresholds in pregnancy for identifying maternal and infant risk: a secondary analysis of Community-Level Interventions for Pre-eclampsia (CLIP) trial data. <i>The Lancet Global Health, 2021, 9, e1119-e1128</i>	13.6	2
51	Intelligent Patient Monitoring and Clinical Decision Making 2014 , 401-407		2
50	Detecting obstructive sleep apnea in children by self-affine visualization of oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 3757-3760</i>	0.9	1
49	A transformation of oxygen saturation (the saturation virtual shunt) to improve clinical prediction model calibration and interpretation. <i>Pediatric Research, 2019, 86, 732-737</i>	3.2	1
48	Efficiency of respiratory rate measurements: Comment on Black et al., 2015: "Can simple mobile phone applications provide reliable counts of respiratory rates in sick infants and children? An initial evaluation of three new applications". <i>International Journal of Nursing Studies, 2015, 52, 1279-80</i>	5.8	1
47	A likelihood-based approach for multivariate one-sided tests with missing data. <i>Journal of Applied Statistics, 2017, 44, 2000-2016</i>	1	1
46	Neonatal Anesthesia. <i>Canadian Journal of Anaesthesia, 2015, 62, 1359-1360</i>	3	1
45	A novel approach to the design of an artificial bionic baroreflex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 3813-6</i>	0.9	1
44	The effectiveness of standard pediatric daycare surgery discharge communication: A quality improvement gap analysis. <i>Journal of Communication in Healthcare, 2011, 4, 260-270</i>	0.9	1
43	Robust closed-loop control of propofol administration using WAVCNS index as the controlled variable. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 6038-41</i>	0.9	1
42	Clinical decision support in physiological monitoring. <i>International Journal of Biomedical Engineering and Technology, 2010, 3, 264</i>	1.3	1
41	Target controlled infusion for kids: trials and simulations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 5818-21</i>	0.9	1
40	How often do anesthesiologists really check their monitors?. <i>Canadian Journal of Anaesthesia, 2007, 54, 44522-44522</i>	3	1
39	A Wavelet Approach to Detecting Electrocautery Noise in the ECG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2005, 2005, 3876-80</i>		1
38	Multiparameter Continuous Physiological Monitoring Technologies in Neonates Among Health Care Providers and Caregivers at a Private Tertiary Hospital in Nairobi, Kenya: Feasibility, Usability, and Acceptability Study (Preprint)		1
37	Qualitative study exploring the feasibility, usability and acceptability of neonatal continuous monitoring technologies at a public tertiary hospital in Nairobi, Kenya.. <i>BMJ Open, 2022, 12, e053486</i>	3	1
36	Derivation and internal validation of a data-driven prediction model to guide frontline health workers in triaging children under-five in Nairobi, Kenya. <i>Wellcome Open Research, 2019, 4, 121</i>	4.8	1

35	Evaluation of a contactless neonatal physiological monitor in Nairobi, Kenya. <i>Archives of Disease in Childhood</i> , 2021 ,	2.2	1
34	Multiparameter Continuous Physiological Monitoring Technologies in Neonates Among Health Care Providers and Caregivers at a Private Tertiary Hospital in Nairobi, Kenya: Feasibility, Usability, and Acceptability Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e29755	7.6	1
33	Photoplethysmogram Processing Using an Adaptive Single Frequency Phase Vocoder Algorithm. <i>Communications in Computer and Information Science</i> , 2013 , 31-42	0.3	1
32	Derivation and internal validation of a data-driven prediction model to guide frontline health workers in triaging children under-five in Nairobi, Kenya. <i>Wellcome Open Research</i> , 2019 , 4, 121	4.8	1
31	Pregnancy Outcomes and Blood Pressure Visit-to-Visit Variability and Level in Three Less-Developed Countries. <i>Hypertension</i> , 2021 , 77, 1714-1722	8.5	1
30	Identification of thresholds for accuracy comparisons of heart rate and respiratory rate in neonates.. <i>Gates Open Research</i> , 2021 , 5, 93	2.4	1
29	An Ethnographic Observational Study to Evaluate and Optimize the Use of Respiratory Acoustic Monitoring in Children Receiving Postoperative Opioid Infusions. <i>Anesthesia and Analgesia</i> , 2016 , 122, 1132-40	3.9	1
28	The Effect of Low-Dose Intraoperative Ketamine on Closed-Loop-Controlled General Anesthesia: A Randomized Controlled Equivalence Trial. <i>Anesthesia and Analgesia</i> , 2021 , 133, 1215-1224	3.9	1
27	We need smarter trigger tools for diagnosing sepsis in children in Canada. <i>Cmaj</i> , 2018 , 190, E1060-E1061	3.5	1
26	Variability of respiratory rate measurements in neonates- every minute counts.. <i>BMC Pediatrics</i> , 2022 , 22, 16	2.6	0
25	Cost-effectiveness analysis protocol of the Smart Triage program: A point-of-care digital triage platform for pediatric sepsis in Eastern Uganda. <i>PLoS ONE</i> , 2021 , 16, e0260044	3.7	0
24	Clinical feasibility of a contactless multiparameter continuous monitoring technology for neonates in a large public maternity hospital in Nairobi, Kenya.. <i>Scientific Reports</i> , 2022 , 12, 3097	4.9	0
23	Assessment of neonatal respiratory rate variability.. <i>Journal of Clinical Monitoring and Computing</i> , 2022 , 1	2	0
22	In Response. <i>Anesthesia and Analgesia</i> , 2017 , 124, 1735-1736	3.9	
21	Real-time cardiorespiratory coherence is blind to changes in respiration during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5360-4	0.9	
20	Monitor-decoupled pharmacodynamics of propofol in children using State Entropy as the clinical end point. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 544-7	0.9	
19	An empirical model of end-tidal CO(2) response to minute ventilation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 524-7	0.9	
18	Can technology further improve the safety of anesthesia?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 1026-7	0.9	

- 17 Age and spontaneous respiration with remifentanyl. *Canadian Journal of Anaesthesia*, **2007**, 54, 44134-4434
- 16 Context sensitive physiological monitoring in children. *Canadian Journal of Anaesthesia*, **2008**, 55, 4721451-4721452
- 15 Defining rules for the identification of ventilatory events. *Canadian Journal of Anaesthesia*, **2008**, 55, 4755281-4755282 3
- 14 The timing of extubation in secundum-type ASD repairs in children. *Canadian Journal of Anaesthesia*, **2006**, 53, 26208-26208 3
- 13 A Wavelet Approach to Detecting Electrocautery Noise in the ECG. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2006, 788-92
- 12 Supervising fellows and residents in pediatric anesthesia. *Canadian Journal of Anaesthesia*, **2005**, 52, 547-8 3
- 11 Placebo equal to nalbuphine for pruritus in pediatrics. *Canadian Journal of Anaesthesia*, **2005**, 52, A147-A147 3
- 10 ASA classification in pediatric anesthesia. *Canadian Journal of Anaesthesia*, **2005**, 52, A154-A154 3
- 9 Poster to print: a 10-year review of pediatric abstracts at the CAS. *Canadian Journal of Anaesthesia*, **2005**, 52, A155-A155 3
- 8 Training in pediatric anesthesia: a Canadian survey. *Canadian Journal of Anaesthesia*, **2005**, 52, A158-A158 3
- 7 Whole blood genome-wide transcriptome profiling and metagenomics next-generation sequencing in young infants with suspected sepsis in low-and middle-income countries: A study protocol. *Gates Open Research*, **2020**, 4, 139 2.4
- 6 Feasibility of Using a Single Heart Rate-Based Measure for Real-time Feedback in a Voluntary Deep Breathing App for Children: Data Collection and Algorithm Development. *JMIR Perioperative Medicine*, **2020**, 3, e16639 1.5
- 5 Whole blood genome-wide transcriptome profiling and metagenomics next-generation sequencing in young infants with suspected sepsis in a low-and middle-income country: A study protocol. *Gates Open Research*, **2020**, 4, 139 2.4
- 4 Why Do Similar Studies Conclude Differently When They Are Performed with Nearly the Same Protocol and the Same Skin Conductance Technology and on the Same Population of Patients?. *Anesthesiology*, **2011**, 114, 465-466 4.3
- 3 Evaluating neonatal medical devices in Africa. *The Lancet Digital Health*, **2021**, 3, e211-e212 14.4
- 2 Using self-supervised feature learning to improve the use of pulse oximeter signals to predict paediatric hospitalization. *Wellcome Open Research*, **2021**, 6, 248 4.8
- 1 Fluid therapy 151-168