

Gerhard Pichler

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

3,595
citations

201674

27
h-index

161849

54
g-index

120
all docs

120
docs citations

120
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-invasive versus invasive respiratory support in preterm infants at birth: systematic review and meta-analysis. <i>BMJ, The</i> , 2013, 347, f5980-f5980.	6.0	431
2	Heart Rate Assessment Immediately after Birth. <i>Neonatology</i> , 2016, 109, 130-138.	2.0	376
3	Cerebral near infrared spectroscopy oximetry in extremely preterm infants: phase II randomised clinical trial. <i>BMJ, The</i> , 2015, 350, g7635-g7635.	6.0	224
4	Reference Ranges for Regional Cerebral Tissue Oxygen Saturation and Fractional Oxygen Extraction in Neonates during Immediate Transition after Birth. <i>Journal of Pediatrics</i> , 2013, 163, 1558-1563.	1.8	155
5	Transitional Changes in Cerebral Blood Volume at Birth. <i>Neonatology</i> , 2015, 108, 253-258.	2.0	105
6	The SafeBoosC Phase II Randomised Clinical Trial: A Treatment Guideline for Targeted Near-Infrared-Derived Cerebral Tissue Oxygenation versus Standard Treatment in Extremely Preterm Infants. <i>Neonatology</i> , 2013, 104, 171-178.	2.0	99
7	Regional Oxygen Saturation of the Brain and Peripheral Tissue during Birth Transition of Term Infants. <i>Journal of Pediatrics</i> , 2010, 157, 740-744.	1.8	89
8	Sustained inflation versus positive pressure ventilation at birth: a systematic review and meta-analysis. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015, 100, F361-F368.	2.8	84
9	Cerebral Oxygen Saturation to Guide Oxygen Delivery in Preterm Neonates for the Immediate Transition after Birth: A Center Randomized Controlled Pilot Feasibility Trial. <i>Journal of Pediatrics</i> , 2016, 170, 73-78.e4.	1.8	80
10	Regional Oxygen Saturation of the Brain during Birth Transition of Term Infants: Comparison between Elective Cesarean and Vaginal Deliveries. <i>Journal of Pediatrics</i> , 2011, 159, 404-408.	1.8	75
11	Reference Ranges for Cerebral Tissue Oxygen Saturation Index in Term Neonates during Immediate Neonatal Transition after Birth. <i>Neonatology</i> , 2015, 108, 283-286.	2.0	72
12	Cerebral haemorrhage in preterm neonates: does cerebral regional oxygen saturation during the immediate transition matter?. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015, 100, F422-F427.	2.8	67
13	The SafeBoosC II randomized trial: treatment guided by near-infrared spectroscopy reduces cerebral hypoxia without changing early biomarkers of brain injury. <i>Pediatric Research</i> , 2016, 79, 528-535.	2.3	63
14	Regional tissue oxygen saturation: comparability and reproducibility of different devices. <i>Journal of Biomedical Optics</i> , 2011, 16, 057004.	2.6	52
15	How to Monitor the Brain during Immediate Neonatal Transition and Resuscitation: A Systematic Qualitative Review of the Literature. <i>Neonatology</i> , 2014, 105, 205-210.	2.0	49
16	Cerebral near-infrared spectroscopy monitoring versus treatment as usual for extremely preterm infants: a protocol for the SafeBoosC randomised clinical phase III trial. <i>Trials</i> , 2019, 20, 811.	1.6	48
17	Reduced Forearm Blood Flow in Children and Adolescents With Type 1 Diabetes (Measured by Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	8.6	46
18	Exhaled carbon dioxide can be used to guide respiratory support in the delivery room. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2014, 103, 796-806.	1.5	46

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19	Do Sustained Lung Inflations during Neonatal Resuscitation Affect Cerebral Blood Volume in Preterm Infants? A Randomized Controlled Pilot Study. PLoS ONE, 2015, 10, e0138964.	2.5	46
20	Impact of bradycardia on cerebral oxygenation and cerebral blood volume during apnoea in preterm infants. Physiological Measurement, 2003, 24, 671-680.	2.1	44
21	No neurodevelopmental benefit of cerebral oximetry in the first randomised trial (SafeBoosC) Tj ETQq1 1 0.784314 rgBT /Overlock 10 of Paediatrics, 2019, 108, 275-281.	1.5	44
22	Cerebral and Peripheral Regional Oxygen Saturation during Postnatal Transition in Preterm Neonates. Journal of Pediatrics, 2013, 163, 394-399.	1.8	40
23	Early biomarkers of brain injury and cerebral hypo- and hyperoxia in the SafeBoosC II trial. PLoS ONE, 2017, 12, e0173440.	2.5	37
24	aEEG and NIRS during transition and resuscitation after birth: Promising additional tools; an observational study. Resuscitation, 2013, 84, 974-978.	3.0	34
25	Observing the resuscitation of very preterm infants: Are we able to follow the oxygen saturation targets?. Resuscitation, 2013, 84, 1108-1113.	3.0	33
26	Plasma Concentrations after Intravenous Administration of Phylloquinone (vitamin K1) in Preterm and Sick Neonates. Thrombosis Research, 2000, 99, 467-472.	1.7	32
27	Regional cerebral oxygen saturation in newborn infants in the first 15 min of life after vaginal delivery. Physiological Measurement, 2012, 33, 95-102.	2.1	31
28	A Left-to-Right Shunt via the Ductus Arteriosus Is Associated with Increased Regional Cerebral Oxygen Saturation during Neonatal Transition. Neonatology, 2013, 103, 259-263.	2.0	30
29	Cerebral regional tissue Oxygen Saturation to Guide Oxygen Delivery in preterm neonates during immediate transition after birth (COSGOD III): an investigator-initiated, randomized, multi-center, multi-national, clinical trial on additional cerebral tissue oxygen saturation monitoring combined with defined treatment guidelines versus standard monitoring and treatment as usual in premature infants during immediate transition: study protocol for a randomized controlled trial. Trials, 2019, 20, 178.	1.6	29
30	Time Course Study of Blood Pressure in Term and Preterm Infants Immediately after Birth. PLoS ONE, 2014, 9, e114504.	2.5	27
31	Brain injury in the international multicenter randomized SafeBoosC phase II feasibility trial: cranial ultrasound and magnetic resonance imaging assessments. Pediatric Research, 2016, 79, 466-472.	2.3	27
32	Tactile stimulation during neonatal transition and its effect on vital parameters in neonates during neonatal transition. Acta Paediatrica, International Journal of Paediatrics, 2018, 107, 952-957.	1.5	26
33	Right Ventricular Performance in Preterm and Term Neonates: Reference Values of the Tricuspid Annular Peak Systolic Velocity Measured by Tissue Doppler Imaging. Neonatology, 2013, 103, 281-286.	2.0	25
34	Protective Ventilation of Preterm Lambs Exposed to Acute Chorioamnionitis Does Not Reduce Ventilation-Induced Lung or Brain Injury. PLoS ONE, 2014, 9, e112402.	2.5	25
35	Even mild respiratory distress alters tissue oxygenation significantly in preterm infants during neonatal transition. Physiological Measurement, 2014, 35, 2085-2099.	2.1	24
36	Tidal Volumes in Spontaneously Breathing Preterm Infants Supported with Continuous Positive Airway Pressure. Journal of Pediatrics, 2014, 165, 702-706.e1.	1.8	24

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37	Cardiocirculatory Monitoring during Immediate Fetal-to-Neonatal Transition: A Systematic Qualitative Review of the Literature. <i>Neonatology</i> , 2015, 107, 100-107.	2.0	24
38	Body position-dependent changes in cerebral hemodynamics during apnea in preterm infants. <i>Brain and Development</i> , 2001, 23, 395-400.	1.1	22
39	Monitoring Lung Aeration during Respiratory Support in Preterm Infants at Birth. <i>PLoS ONE</i> , 2014, 9, e102729.	2.5	22
40	Respiratory Function and Near Infrared Spectroscopy Recording during Cardiopulmonary Resuscitation in an Extremely Preterm Newborn. <i>Neonatology</i> , 2014, 105, 200-204.	2.0	22
41	Low cerebral activity and cerebral oxygenation during immediate transition in term neonates – A prospective observational study. <i>Resuscitation</i> , 2016, 103, 49-53.	3.0	22
42	Combination of different noninvasive measuring techniques: a new approach to increase accuracy of peripheral near infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 014014.	2.6	21
43	Peripheral Muscle Near-Infrared Spectroscopy in Neonates: Ready for Clinical Use? A Systematic Qualitative Review of the Literature. <i>Neonatology</i> , 2015, 108, 233-245.	2.0	21
44	Spontaneously Breathing Preterm Infants Change in Tidal Volume to Improve Lung Aeration Immediately after Birth. <i>Journal of Pediatrics</i> , 2015, 167, 274-278.e1.	1.8	21
45	Parental Stress Experience and Age of Mothers and Fathers After Preterm Birth and Admission of Their Neonate to Neonatal Intensive Care Unit; A Prospective Observational Pilot Study. <i>Frontiers in Pediatrics</i> , 2019, 7, 439.	1.9	21
46	Two decades – experience of renal replacement therapy in paediatric patients with acute renal failure. <i>European Journal of Pediatrics</i> , 2006, 166, 139-144.	2.7	20
47	Human or monitor feedback to improve mask ventilation during simulated neonatal cardiopulmonary resuscitation. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2014, 99, F120-F123.	2.8	20
48	Maternal stress after preterm birth: Impact of length of antepartum hospital stay. <i>Women and Birth</i> , 2016, 29, e105-e109.	2.0	20
49	Cord clamping time in spontaneously breathing preterm neonates in the first minutes after birth: impact on cerebral oxygenation – a prospective observational study. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 1570-1572.	1.5	20
50	Impact of Smoking during Pregnancy on Peripheral Tissue Oxygenation in Term Neonates. <i>Neonatology</i> , 2008, 93, 132-137.	2.0	19
51	Cerebral Blood Volume During Neonatal Transition in Term and Preterm Infants With and Without Respiratory Support. <i>Frontiers in Pediatrics</i> , 2018, 6, 132.	1.9	19
52	Oxygen Saturation and Heart Rate Ranges in Very Preterm Infants Requiring Respiratory Support at Birth. <i>Journal of Pediatrics</i> , 2017, 182, 41-46.e2.	1.8	18
53	Blood Glucose and Cerebral Tissue Oxygenation Immediately after Birth – An Observational Study. <i>Journal of Pediatrics</i> , 2018, 200, 19-23.	1.8	18
54	Extremely Preterm Infant Admissions Within the SafeBoosC-III Consortium During the COVID-19 Lockdown. <i>Frontiers in Pediatrics</i> , 2021, 9, 647880.	1.9	18

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55	Effect of Tilting on Cerebral Hemodynamics in Preterm and Term Infants. <i>Neonatology</i> , 2001, 80, 179-185.	2.0	17
56	Peripheral Intravenous Access in Preterm Neonates during Postnatal Stabilization: Feasibility and Safety. <i>Frontiers in Pediatrics</i> , 2017, 5, 171.	1.9	17
57	Avoiding Arterial Hypotension in Preterm Neonates (AHIP)â€”A Single Center Randomised Controlled Study Investigating Simultaneous Near Infrared Spectroscopy Measurements of Cerebral and Peripheral Regional Tissue Oxygenation and Dedicated Interventions. <i>Frontiers in Pediatrics</i> , 2018, 6, 15.	1.9	17
58	C reactive protein: impact on peripheral tissue oxygenation and perfusion in neonates. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2012, 97, F444-F448.	2.8	16
59	The SafeBoosC phase II clinical trial: an analysis of the interventions related with the oximeter readings. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2016, 101, F333-F338.	2.8	16
60	The SURVIVE trialâ€”sustained inflation and chest compression versus 3:1 chest compression-to-ventilation ratio during cardiopulmonary resuscitation of asphyxiated newborns: study protocol for a cluster randomized controlled trial. <i>Trials</i> , 2019, 20, 139.	1.6	16
61	â€”Multi-associationsâ€™: predisposed to misinterpretation of peripheral tissue oxygenation and circulation in neonates. <i>Physiological Measurement</i> , 2011, 32, 1025-1034.	2.1	15
62	Near-infrared spectroscopy monitoring during immediate transition after birth: time to obtain cerebral tissue oxygenation. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 465-469.	1.6	15
63	Near-Infrared Spectroscopy for Objectifying Cerebral Effects of Laser Acupuncture in Term and Preterm Neonates. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-6.	1.2	14
64	Borderline hypotension: how does it influence cerebral regional tissue oxygenation in preterm infants?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 2341-2346.	1.5	14
65	Detection of Psychic Ear Acupuncture Points in a Newborn Infant with Neonatal Abstinence Syndrome. <i>Journal of Alternative and Complementary Medicine</i> , 2010, 16, 345-346.	2.1	13
66	Tilting the Head Changes Cerebral Haemodynamics in Neonates. <i>Neonatology</i> , 2011, 100, 253-259.	2.0	13
67	NIRS in the fetal to neonatal transition and immediate postnatal period. <i>Seminars in Fetal and Neonatal Medicine</i> , 2020, 25, 101079.	2.3	13
68	Is bladder voiding in sleeping preterm infants accompanied by arousals?. <i>Sleep Medicine</i> , 2008, 9, 137-141.	1.6	12
69	Is renal tissue oxygen desaturation during severe hypoxia underestimated? An observational study in term newborn piglets. <i>Nephrology</i> , 2015, 20, 107-109.	1.6	12
70	Foramen ovale (FO) â€” The underestimated sibling of ductus arteriosus (DA): Relevance during neonatal transition. <i>Early Human Development</i> , 2016, 103, 137-140.	1.8	12
71	Oxygen Saturation Targeting During Delivery Room Stabilization: What Does This Mean for Regional Cerebral Oxygenation?. <i>Frontiers in Pediatrics</i> , 2019, 7, 274.	1.9	12
72	Feasibility of Transcutaneous pCO ₂ Monitoring During Immediate Transition After Birthâ€”A Prospective Observational Study. <i>Frontiers in Pediatrics</i> , 2020, 8, 11.	1.9	12

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73	Non-Nutritive Sucking Habits in Sleeping Infants. <i>Neonatology</i> , 2010, 97, 61-66.	2.0	11
74	The influence of perinatal asphyxia on peripheral oxygenation and perfusion in neonates. <i>Early Human Development</i> , 2013, 89, 483-486.	1.8	11
75	Minor neurological dysfunction, cognitive development and somatic development at the age of 3 to 11 years in very-low-birthweight infants with transient periventricular echodensities. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 1577-1581.	1.5	10
76	Comparison of heart rate responses during cortical and subcortical arousals in term and preterm infants. <i>Early Human Development</i> , 2007, 83, 511-515.	1.8	10
77	Cerebral hypoxia during immediate transition after birth and short term neurological outcome. <i>Early Human Development</i> , 2017, 110, 13-15.	1.8	10
78	Normal regional tissue oxygen saturation in neonates: a systematic qualitative review. <i>Pediatric Research</i> , 2021, , .	2.3	10
79	Reducing Brain Injury of Preterm Infants in the Delivery Room. <i>Frontiers in Pediatrics</i> , 2018, 6, 290.	1.9	9
80	Early cerebral hypoxia in extremely preterm infants and neurodevelopmental impairment at 2 year of age: A post hoc analysis of the SafeBoosC II trial. <i>PLoS ONE</i> , 2022, 17, e0262640.	2.5	9
81	Does bladder voiding during sleep and wakefulness change the behavioural state of infants?. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 1644-1647.	1.5	8
82	Cerebral regional oxygen saturation (crSO ₂): are different sensors comparable?. <i>Paediatric Anaesthesia</i> , 2012, 22, 1132-1134.	1.1	8
83	Effect of Intrauterine Growth Restriction on Cerebral Regional Oxygen Saturation in Preterm and Term Neonates during Immediate Postnatal Transition. <i>Neonatology</i> , 2020, 117, 324-330.	2.0	8
84	Prematurity: Influence on mother's locus of control. <i>Wiener Klinische Wochenschrift</i> , 2011, 123, 455-457.	1.9	7
85	Comparison of frequency-domain and continuous-wave near-infrared spectroscopy devices during the immediate transition. <i>BMC Pediatrics</i> , 2020, 20, 94.	1.7	7
86	Cardiac Output and Cerebral Oxygenation in Term Neonates during Neonatal Transition. <i>Children</i> , 2021, 8, 439.	1.5	7
87	Cerebral hemodynamics during arousals in preterm infants. <i>Early Human Development</i> , 2007, 83, 239-246.	1.8	6
88	Detailed statistical analysis plan for the SafeBoosC III trial: a multinational randomised clinical trial assessing treatment guided by cerebral oxygenation monitoring versus treatment as usual in extremely preterm infants. <i>Trials</i> , 2019, 20, 746.	1.6	6
89	Fetal Inflammatory Response Syndrome and Cerebral Oxygenation During Immediate Postnatal Transition in Preterm Neonates. <i>Frontiers in Pediatrics</i> , 2020, 8, 401.	1.9	6
90	Blood Glucose and Lactate Levels and Cerebral Oxygenation in Preterm and Term Neonates – A Systematic Qualitative Review of the Literature. <i>Frontiers in Pediatrics</i> , 2020, 8, 361.	1.9	6

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91	Accuracy of Pulse Oximetry in the Presence of Fetal Hemoglobinâ€”A Systematic Review. <i>Children</i> , 2021, 8, 361.	1.5	6
92	Impact of bradycardia and hypoxemia on oxygenation in preterm infants requiring respiratory support at birth. <i>Resuscitation</i> , 2021, 164, 62-69.	3.0	6
93	Does cerebral vasoconstriction following delivery protect against hyperoxia?. <i>Journal of Pediatrics</i> , 2016, 173, 266.	1.8	5
94	Delivery room interventions to prevent bronchopulmonary dysplasia in preterm infants: a protocol for a systematic review and network meta-analysis. <i>BMJ Open</i> , 2019, 9, e028066.	1.9	5
95	Cerebral and peripheral tissue oxygenation in stable neonates: Absent influence of cardiac function. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2020, 109, 1560-1569.	1.5	5
96	Exhaled Carbon Dioxide and Neonatal Breathing Patterns in Preterm Infants after Birth. <i>Journal of Pediatrics</i> , 2015, 167, 829-833.e1.	1.8	4
97	Antenatal Consultation and Postnatal Stress in Mothers of Preterm Neonates (A Two-Center) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.9	4
98	Cerebral Oxygenation in Neonates Immediately after Cesarean Section and Mode of Maternal Anesthesia. <i>Neonatology</i> , 2019, 116, 132-139.	2.0	4
99	Successful Postnatal Cardiopulmonary Resuscitation Due to Defibrillation. <i>Children</i> , 2021, 8, 421.	1.5	4
100	Novel algorithm to screen for heart murmurs using computer-aided auscultation in neonates: a prospective single center pilot observational study. <i>Minerva Pediatrica</i> , 2019, 71, 221-228.	2.7	4
101	Impact of Carbon Dioxide on Cerebral Oxygenation and Vital Parameters in Stable Preterm and Term Infants Immediately after Birth. <i>Neonatology</i> , 2022, 119, 10-17.	2.0	4
102	Cerebral tissue oxygen saturation is associated with N-terminal probrain natriuretic peptide in preterm infants on their first day of life. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2015, 104, 32-37.	1.5	3
103	Association between Regional Tissue Oxygenation and Body Temperature in Term and Preterm Infants Born by Caesarean Section. <i>Children</i> , 2020, 7, 205.	1.5	3
104	Sex related difference in cardiac output during neonatal transition in term neonates. <i>Cardiovascular Diagnosis and Therapy</i> , 2021, 11, 342-347.	1.7	3
105	Laser acupuncture versus oral glucose administration for pain prevention in term neonates: an observer-blinded non-inferiority randomized controlled clinical trial. <i>Acupuncture in Medicine</i> , 2021, 39, 589-595.	1.0	3
106	Fetal to neonatal transition: what additional information can be provided by cerebral near infrared spectroscopy?. <i>Pediatric Research</i> , 0, , .	2.3	3
107	Unchanged heart rateâ€“respiratory frequency ratio in preterm infants during spontaneous arousals. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2009, 98, 47-51.	1.5	2
108	Breast feeding is associated with decreased risk of sudden infant death syndrome. <i>Evidence-Based Medicine</i> , 2012, 17, 126-127.	0.6	2

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109	Neonatal Outcome After Hexoprenaline Compared with Atosiban After Preterm Premature Rupture of Membranes. <i>Journal of Fetal Medicine</i> , 2019, 6, 171-176.	0.1	2
110	Cerebral Doppler Resistance Index (RI) is associated with regional cerebral oxygenation. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2020, 109, 2299-2301.	1.5	2
111	Precision of time-resolved near-infrared spectroscopy-based measurements of cerebral oxygenation in preterm infants. <i>Neurophotonics</i> , 2021, 8, 045001.	3.3	2
112	Non-invasively Measured Venous Oxygen Saturation as Early Marker of Impaired Oxygen Delivery in Preterm Neonates. <i>Frontiers in Pediatrics</i> , 2022, 10, 834045.	1.9	2
113	Optimizing noninvasive respiratory support during postnatal stabilization: video-based analysis of airway maneuvers and their effects. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 3991-3997.	1.5	1
114	In Newborn Infants a New Intubation Method May Reduce the Number of Intubation Attempts: A Randomized Pilot Study. <i>Children</i> , 2021, 8, 553.	1.5	1
115	The Use of a Disposable Umbilical Clamp to Secure an Umbilical Venous Catheter in Neonatal Emergencies—An Experimental Feasibility Study. <i>Children</i> , 2021, 8, 1093.	1.5	1
116	Acid base and blood gas analysis in term neonates immediately after birth with uncomplicated neonatal transition. <i>BMC Pediatrics</i> , 2022, 22, 271.	1.7	1
117	pFOE or pFTOE as an Early Marker for Impaired Peripheral Microcirculation in Neonates. <i>Children</i> , 2022, 9, 898.	1.5	1
118	Does the Number of Fingers on the Bag Influence Volume Delivery? A Randomized Model Study of Bag-Valve-Mask Ventilation in Infants. <i>Children</i> , 2018, 5, 132.	1.5	0
119	Increased Risk for Cerebral Hypoxia During Immediate Neonatal Transition After Birth in Term Neonates Delivered by Caesarean Section With Prenatal Tobacco Exposure. <i>Frontiers in Pediatrics</i> , 2021, 9, 747509.	1.9	0