

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	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
2	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
3	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
4	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
5	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
6	pFOE or pFTOE as an Early Marker for Impaired Peripheral Microcirculation in Neonates. <i>Children</i> , 2022, 9, 898.	1.5	1
7	Accuracy of Pulse Oximetry in the Presence of Fetal Hemoglobin – A Systematic Review. <i>Children</i> , 2021, 8, 361.	1.5	6
8	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
9	Successful Postnatal Cardiopulmonary Resuscitation Due to Defibrillation. <i>Children</i> , 2021, 8, 421.	1.5	4
10	Cardiac Output and Cerebral Oxygenation in Term Neonates during Neonatal Transition. <i>Children</i> , 2021, 8, 439.	1.5	7
11	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
12	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
13	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
14	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
15	Normal regional tissue oxygen saturation in neonates: a systematic qualitative review. <i>Pediatric Research</i> , 2021, , .	2.3	10
16	Precision of time-resolved near-infrared spectroscopy-based measurements of cerebral oxygenation in preterm infants. <i>Neurophotonics</i> , 2021, 8, 045001.	3.3	2
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	Feasibility of Transcutaneous pCO ₂ Monitoring During Immediate Transition After Birth – A Prospective Observational Study. <i>Frontiers in Pediatrics</i> , 2020, 8, 11.	1.9	12
25	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
26	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
27	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
28	No neurodevelopmental benefit of cerebral oximetry in the first randomised trial (SafeBoosC) of Paediatrics, 2019, 108, 275-281.	1.5	44
29	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
30	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
31	Cerebral Oxygenation in Neonates Immediately after Cesarean Section and Mode of Maternal Anesthesia. <i>Neonatology</i> , 2019, 116, 132-139.	2.0	4
32	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. <i>Trials</i> , 2019, 20, 178.	1.6	29
33	The SURVIVE trial – 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
34	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
35	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
36	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

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37	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
38	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
39	Tactile stimulation during neonatal transition and its effect on vital parameters in neonates during neonatal transition. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2018, 107, 952-957.	1.5	26
40	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
41	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
42	Reducing Brain Injury of Preterm Infants in the Delivery Room. <i>Frontiers in Pediatrics</i> , 2018, 6, 290.	1.9	9
43	Blood Glucose and Cerebral Tissue Oxygenation Immediately after Birth—An Observational Study. <i>Journal of Pediatrics</i> , 2018, 200, 19-23.	1.8	18
44	Avoiding Arterial Hypotension in Preterm Neonates (AHIP)—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
45	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
46	Cerebral hypoxia during immediate transition after birth and short term neurological outcome. <i>Early Human Development</i> , 2017, 110, 13-15.	1.8	10
47	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
48	Antenatal Consultation and Postnatal Stress in Mothers of Preterm Neonates (A Two-Center) <i>Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 302</i>	1.9	4
49	Peripheral Intravenous Access in Preterm Neonates during Postnatal Stabilization: Feasibility and Safety. <i>Frontiers in Pediatrics</i> , 2017, 5, 171.	1.9	17
50	Early biomarkers of brain injury and cerebral hypo- and hyperoxia in the SafeBoosC II trial. <i>PLoS ONE</i> , 2017, 12, e0173440.	2.5	37
51	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
52	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
53	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
54	Does cerebral vasoconstriction following delivery protect against hyperoxia?. <i>Journal of Pediatrics</i> , 2016, 173, 266.	1.8	5

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55	Maternal stress after preterm birth: Impact of length of antepartum hospital stay. <i>Women and Birth</i> , 2016, 29, e105-e109.	2.0	20
56	Foramen ovale (FO) – The underestimated sibling of ductus arteriosus (DA): Relevance during neonatal transition. <i>Early Human Development</i> , 2016, 103, 137-140.	1.8	12
57	Heart Rate Assessment Immediately after Birth. <i>Neonatology</i> , 2016, 109, 130-138.	2.0	376
58	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
59	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
60	Brain injury in the international multicenter randomized SafeBoosC phase II feasibility trial: cranial ultrasound and magnetic resonance imaging assessments. <i>Pediatric Research</i> , 2016, 79, 466-472.	2.3	27
61	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
62	Cerebral tissue oxygen saturation is associated with N-terminal pro-brain 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
63	Do Sustained Lung Inflations during Neonatal Resuscitation Affect Cerebral Blood Volume in Preterm Infants? A Randomized Controlled Pilot Study. <i>PLoS ONE</i> , 2015, 10, e0138964.	2.5	46
64	Cerebral near infrared spectroscopy oximetry in extremely preterm infants: phase II randomised clinical trial. <i>BMJ</i> , 2015, 350, g7635-g7635.	6.0	224
65	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
66	Transitional Changes in Cerebral Blood Volume at Birth. <i>Neonatology</i> , 2015, 108, 253-258.	2.0	105
67	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
68	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
69	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
70	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
71	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
72	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

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73	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
74	Time Course Study of Blood Pressure in Term and Preterm Infants Immediately after Birth. <i>PLoS ONE</i> , 2014, 9, e114504.	2.5	27
75	Monitoring Lung Aeration during Respiratory Support in Preterm Infants at Birth. <i>PLoS ONE</i> , 2014, 9, e102729.	2.5	22
76	Even mild respiratory distress alters tissue oxygenation significantly in preterm infants during neonatal transition. <i>Physiological Measurement</i> , 2014, 35, 2085-2099.	2.1	24
77	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
78	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
79	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
80	Tidal Volumes in Spontaneously Breathing Preterm Infants Supported with Continuous Positive Airway Pressure. <i>Journal of Pediatrics</i> , 2014, 165, 702-706.e1.	1.8	24
81	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
82	Protective Ventilation of Preterm Lambs Exposed to Acute Chorioamnionitis Does Not Reduce Ventilation-Induced Lung or Brain Injury. <i>PLoS ONE</i> , 2014, 9, e112402.	2.5	25
83	Cerebral and Peripheral Regional Oxygen Saturation during Postnatal Transition in Preterm Neonates. <i>Journal of Pediatrics</i> , 2013, 163, 394-399.	1.8	40
84	The influence of perinatal asphyxia on peripheral oxygenation and perfusion in neonates. <i>Early Human Development</i> , 2013, 89, 483-486.	1.8	11
85	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
86	Observing the resuscitation of very preterm infants: Are we able to follow the oxygen saturation targets?. <i>Resuscitation</i> , 2013, 84, 1108-1113.	3.0	33
87	aEEG and NIRS during transition and resuscitation after birth: Promising additional tools; an observational study. <i>Resuscitation</i> , 2013, 84, 974-978.	3.0	34
88	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
89	A Left-to-Right Shunt via the Ductus Arteriosus Is Associated with Increased Regional Cerebral Oxygen Saturation during Neonatal Transition. <i>Neonatology</i> , 2013, 103, 259-263.	2.0	30
90	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

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91	Near-Infrared Spectroscopy for Objectifying Cerebral Effects of Laser Acupuncture in Term and Preterm Neonates. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-6.	1.2	14
92	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
93	Breast feeding is associated with decreased risk of sudden infant death syndrome. Evidence-Based Medicine, 2012, 17, 126-127.	0.6	2
94	C reactive protein: impact on peripheral tissue oxygenation and perfusion in neonates. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2012, 97, F444-F448.	2.8	16
95	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
96	Cerebral regional oxygen saturation (crSO ₂): are different sensors comparable?. Paediatric Anaesthesia, 2012, 22, 1132-1134.	1.1	8
97	Tilting the Head Changes Cerebral Haemodynamics in Neonates. Neonatology, 2011, 100, 253-259.	2.0	13
98	Regional Oxygen Saturation of the Brain during Birth Transition of Term Infants: Comparison between Elective Cesarean and Vaginal Deliveries. Journal of Pediatrics, 2011, 159, 404-408.	1.8	75
99	Prematurity: Influence on mother's locus of control. Wiener Klinische Wochenschrift, 2011, 123, 455-457.	1.9	7
100	Regional tissue oxygen saturation: comparability and reproducibility of different devices. Journal of Biomedical Optics, 2011, 16, 057004.	2.6	52
101	â€œMulti-associationsâ€™: predisposed to misinterpretation of peripheral tissue oxygenation and circulation in neonates. Physiological Measurement, 2011, 32, 1025-1034.	2.1	15
102	Regional Oxygen Saturation of the Brain and Peripheral Tissue during Birth Transition of Term Infants. Journal of Pediatrics, 2010, 157, 740-744.	1.8	89
103	Detection of Psychic Ear Acupuncture Points in a Newborn Infant with Neonatal Abstinence Syndrome. Journal of Alternative and Complementary Medicine, 2010, 16, 345-346.	2.1	13
104	Non-Nutritive Sucking Habits in Sleeping Infants. Neonatology, 2010, 97, 61-66.	2.0	11
105	Combination of different noninvasive measuring techniques: a new approach to increase accuracy of peripheral near infrared spectroscopy. Journal of Biomedical Optics, 2009, 14, 014014.	2.6	21
106	Unchanged heart rateâ€™respiratory frequency ratio in preterm infants during spontaneous arousals. Acta Paediatrica, International Journal of Paediatrics, 2009, 98, 47-51.	1.5	2
107	Is bladder voiding in sleeping preterm infants accompanied by arousals?. Sleep Medicine, 2008, 9, 137-141.	1.6	12
108	Impact of Smoking during Pregnancy on Peripheral Tissue Oxygenation in Term Neonates. Neonatology, 2008, 93, 132-137.	2.0	19

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109	Cerebral hemodynamics during arousals in preterm infants. <i>Early Human Development</i> , 2007, 83, 239-246.	1.8	6
110	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
111	Two decadesâ€™ 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
112	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
113	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
114	Reduced Forearm Blood Flow in Children and Adolescents With Type 1 Diabetes (Measured by Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	8.6	46
115	Impact of bradycardia on cerebral oxygenation and cerebral blood volume during apnoea in preterm infants. <i>Physiological Measurement</i> , 2003, 24, 671-680.	2.1	44
116	Body position-dependent changes in cerebral hemodynamics during apnea in preterm infants. <i>Brain and Development</i> , 2001, 23, 395-400.	1.1	22
117	Effect of Tilting on Cerebral Hemodynamics in Preterm and Term Infants. <i>Neonatology</i> , 2001, 80, 179-185.	2.0	17
118	Plasma Concentrations after Intravenous Administration of Phylloquinone (vitamin K1) in Preterm and Sick Neonates. <i>Thrombosis Research</i> , 2000, 99, 467-472.	1.7	32
119	Fetal to neonatal transition: what additional information can be provided by cerebral near infrared spectroscopy?. <i>Pediatric Research</i> , 0, , .	2.3	3