

# Anne R Synnes

## List of Publications by Year in descending order

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124  
papers

7,062  
citations

71102

41  
h-index

62596

80  
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126  
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126  
docs citations

126  
times ranked

5267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Family integrated care: very preterm neurodevelopmental outcomes at 18 months. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 76-81.	2.8	20
2	Head circumference, total cerebral volume and neurodevelopment in preterm neonates. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 181-187.	2.8	13
3	Mortality and significant neurosensory impairment in preterm infants: an international comparison. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 317-323.	2.8	6
4	Parental perspective on important health outcomes of extremely preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 495-500.	2.8	17
5	Lower Maternal Chronic Physiological Stress and Better Child Behavior at 18 Months: Follow-Up of a Cluster Randomized Trial of Neonatal Intensive Care Unit Family Integrated Care. Journal of Pediatrics, 2022, 243, 107-115.e4.	1.8	12
6	Neurodevelopmental Outcomes of Infants at <29 Weeks of Gestation Born in Canada Between 2009 and 2016. Journal of Pediatrics, 2022, 247, 60-66.e1.	1.8	5
7	Ventricular Volume in Infants Born Very Preterm: Relationship with Brain Maturation and Neurodevelopment at Age 4.5 Years. Journal of Pediatrics, 2022, 248, 51-58.e2.	1.8	3
8	Maternal High-Dose DHA Supplementation and Neurodevelopment at 18-22 Months of Preterm Children. Pediatrics, 2022, 150, .	2.1	12
9	Neonatal pain, thalamic development and sensory processing behaviour in children born very preterm. Early Human Development, 2022, 170, 105617.	1.8	9
10	MRI based radiomics enhances prediction of neurodevelopmental outcome in very preterm neonates. Scientific Reports, 2022, 12, .	3.3	0
11	Impact of Differing Language Background Exposures on Bayley-III Language Assessment in a National Cohort of Children Born Less than 29 Weeksâ€™ Gestation. Children, 2022, 9, 1048.	1.5	1
12	Neonatal follow-up programs in Canada: A national survey. Paediatrics and Child Health, 2021, 26, e46-e51.	0.6	11
13	Neurodevelopmental and growth outcomes of extremely preterm infants with necrotizing enterocolitis or spontaneous intestinal perforation. Journal of Pediatric Surgery, 2021, 56, 309-316.	1.6	24
14	Risk factors for re-hospitalization following neonatal discharge of extremely preterm infants in Canada. Paediatrics and Child Health, 2021, 26, e96-e104.	0.6	6
15	Neurodevelopmental outcomes of singleton large for gestational age infants <29 weeksâ€™ gestation: a retrospective cohort study. Journal of Perinatology, 2021, 41, 1313-1321.	2.0	2
16	Parent-reported health status of preterm survivors in a Canadian cohort. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2021, , fetalneonatal-2021-321635.	2.8	2
17	Coached, Coordinated, Enhanced Neonatal Transition (CCENT): protocol for a multicentre pragmatic randomised controlled trial of transition-to-home support for parents of high-risk infants. BMJ Open, 2021, 11, e046706.	1.9	4
18	Neurodevelopmental outcomes of preterm infants conceived by assisted reproductive technology. American Journal of Obstetrics and Gynecology, 2021, 225, 276.e1-276.e9.	1.3	11

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19	Interaction between Preterm White Matter Injury and Childhood Thalamic Growth. <i>Annals of Neurology</i> , 2021, 90, 584-594.	5.3	4
20	Sensory processing and cortisol at age 4 years: Procedural pain-related stress in children born very preterm. <i>Developmental Psychobiology</i> , 2021, 63, 915-930.	1.6	14
21	Outcomes and resource usage of infants born at <math>\leq 25</math> weeks gestation in Canada. <i>Paediatrics and Child Health</i> , 2020, 25, 207-215.	0.6	6
22	Effect of Maternal Docosahexaenoic Acid Supplementation on Bronchopulmonary Dysplasia-Free Survival in Breastfed Preterm Infants. <i>JAMA - Journal of the American Medical Association</i> , 2020, 324, 157.	7.4	43
23	Family Integrated Care (FICare): Positive impact on behavioural outcomes at 18 months. <i>Early Human Development</i> , 2020, 151, 105196.	1.8	25
24	Association of early skin breaks and neonatal thalamic maturation. <i>Neurology</i> , 2020, 95, e3420-e3427.	1.1	17
25	Location and Size of Preterm Cerebellar Hemorrhage and Childhood Development. <i>Annals of Neurology</i> , 2020, 88, 1095-1108.	5.3	20
26	Neurodevelopmental outcomes after neonatal caffeine therapy. <i>Seminars in Fetal and Neonatal Medicine</i> , 2020, 25, 101160.	2.3	7
27	More than meets the eye: Parental perspectives on the health of their extremely preterm children when they reach 18 months, 5 and 7 years. <i>Paediatrics and Child Health</i> , 2020, 25, e9-e9.	0.6	0
28	Mechanical Ventilation Duration, Brainstem Development, and Neurodevelopment in Children Born Preterm: A Prospective Cohort Study. <i>Journal of Pediatrics</i> , 2020, 226, 87-95.e3.	1.8	26
29	Association between Transport Risk Index of Physiologic Stability in Extremely Premature Infants and Mortality or Neurodevelopmental Impairment at 18 to 24 Months. <i>Journal of Pediatrics</i> , 2020, 224, 51-56.e5.	1.8	5
30	Longitudinal neurodevelopmental outcomes in preterm twins. <i>Pediatric Research</i> , 2020, 90, 593-599.	2.3	1
31	White matter injury in term neonates with congenital heart diseases: Topology & comparison with preterm newborns. <i>NeuroImage</i> , 2019, 185, 742-749.	4.2	60
32	Predictive connectome subnetwork extraction with anatomical and connectivity priors. <i>Computerized Medical Imaging and Graphics</i> , 2019, 71, 67-78.	5.8	9
33	Outcomes after Neonatal Seizures in Infants Less Than 29 Weeks' Gestation: A Population-Based Cohort Study. <i>American Journal of Perinatology</i> , 2019, 36, 191-199.	1.4	7
34	Comparing Standardized and Parent-Reported Motor Outcomes of Extremely Preterm Infants. <i>Children</i> , 2019, 6, 90.	1.5	2
35	Preterm children with suspected cerebral palsy at 19 months corrected age in the Canadian neonatal follow-up network. <i>Early Human Development</i> , 2019, 136, 7-13.	1.8	1
36	Extensive cardiopulmonary resuscitation of preterm neonates at birth and mortality and developmental outcomes. <i>Resuscitation</i> , 2019, 135, 57-65.	3.0	14

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37	144 An Alternative Approach to Developing Guidelines for the Management of Infants Born at the Threshold of Viability. <i>Paediatrics and Child Health</i> , 2019, 24, e57-e58.	0.6	0
38	Neurologic Examination Findings Associated With Small Cerebellar Volumes After Prematurity. <i>Journal of Child Neurology</i> , 2019, 34, 586-592.	1.4	14
39	Association of Socioeconomic Status and Brain Injury With Neurodevelopmental Outcomes of Very Preterm Children. <i>JAMA Network Open</i> , 2019, 2, e192914.	5.9	120
40	Maternal smoking and neurodevelopmental outcomes in infants <29 weeks gestation: a multicenter cohort study. <i>Journal of Perinatology</i> , 2019, 39, 791-799.	2.0	2
41	Anticoagulation therapy and the risk of perioperative brain injury in neonates with congenital heart disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 157, 2406-2413.e2.	0.8	8
42	Hippocampus, Amygdala, and Thalamus Volumes in Very Preterm Children at 8 Years: Neonatal Pain and Genetic Variation. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 51.	2.0	82
43	Morphine biotransformation genes and neonatal clinical factors predicted behaviour problems in very preterm children at 18 months. <i>EBioMedicine</i> , 2019, 40, 655-662.	6.1	23
44	Temporal trends in neonatal mortality and morbidity following spontaneous and clinician-initiated preterm birth in Washington State, USA: a population-based study. <i>BMJ Open</i> , 2019, 9, e023004.	1.9	23
45	Temporal Trends in Preterm Birth, Neonatal Mortality, and Neonatal Morbidity Following Spontaneous and Clinician-Initiated Delivery in Canada, 2009-2016. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2019, 41, 1742-1751.e6.	0.7	9
46	Antenatal magnesium sulphate and adverse neonatal outcomes: A systematic review and meta-analysis. <i>PLoS Medicine</i> , 2019, 16, e1002988.	8.4	46
47	Concurrent Validity of the Bayley-III and the Peabody Developmental Motor Scales-2 at 18 Months. <i>Physical and Occupational Therapy in Pediatrics</i> , 2019, 39, 514-524.	1.3	5
48	Early Caffeine Administration and Neurodevelopmental Outcomes in Preterm Infants. <i>Pediatrics</i> , 2019, 143, .	2.1	59
49	Sustained quality improvement in outcomes of preterm neonates with a gestational age less than 29 weeks: results from the Evidence-based Practice for Improving Quality Phase 3. <i>Canadian Journal of Physiology and Pharmacology</i> , 2019, 97, 213-221.	1.4	31
50	Does the Movement Assessment Battery for Children-2 at 3 years of age predict developmental coordination disorder at 4.5 years of age in children born very preterm?. <i>Research in Developmental Disabilities</i> , 2019, 84, 36-42.	2.2	16
51	Predicting developmental outcomes in preterm infants. <i>Neurology</i> , 2019, 93, e1231-e1240.	1.1	32
52	Association of Antibiotic Utilization and Neurodevelopmental Outcomes among Extremely Low Gestational Age Neonates without Proven Sepsis or Necrotizing Enterocolitis. <i>American Journal of Perinatology</i> , 2018, 35, 972-978.	1.4	35
53	Severe Neurodevelopmental Impairment in Neonates Born Preterm: Impact of Varying Definitions in a Canadian Cohort. <i>Journal of Pediatrics</i> , 2018, 197, 75-81.e4.	1.8	35
54	Multiple Postnatal Infections in Newborns Born Preterm Predict Delayed Maturation of Motor Pathways at Term-Equivalent Age with Poorer Motor Outcomes at 3 Years. <i>Journal of Pediatrics</i> , 2018, 196, 91-97.e1.	1.8	21

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55	Diagnosis and management of congenital diaphragmatic hernia: a clinical practice guideline. Cmaj, 2018, 190, E103-E112.	2.0	161
56	The Canadian Preterm Birth Network: a study protocol for improving outcomes for preterm infants and their families. CMAJ Open, 2018, 6, E44-E49.	2.4	24
57	Early Procedural Pain Is Associated with Regionally-Specific Alterations in Thalamic Development in Preterm Neonates. Journal of Neuroscience, 2018, 38, 878-886.	3.6	168
58	Neurodevelopmental Outcomes of Infants Born at <29 Weeks of Gestation Admitted to Canadian Neonatal Intensive Care Units Based on Location of Birth. Journal of Pediatrics, 2018, 196, 31-37.e1.	1.8	59
59	The minimally effective dose of sucrose for procedural pain relief in neonates: a randomized controlled trial. BMC Pediatrics, 2018, 18, 85.	1.7	63
60	Neonatal Brain Injury and Timing of Neurodevelopmental Assessment in Patients With Congenital Heart Disease. Journal of the American College of Cardiology, 2018, 71, 1986-1996.	2.8	83
61	Association of Histologic Chorioamnionitis With Perinatal Brain Injury and Early Childhood Neurodevelopmental Outcomes Among Preterm Neonates. JAMA Pediatrics, 2018, 172, 534.	6.2	55
62	Invasive Fungal Infections in Neonates in Canada. Pediatric Infectious Disease Journal, 2018, 37, 1154-1159.	2.0	19
63	MAGnesium sulphate for fetal neuroprotection to prevent Cerebral Palsy (MAG-CP)â€™ implementation of a national guideline in Canada. Implementation Science, 2018, 13, 8.	6.9	28
64	Neonatal outcomes of preterm twins according to mode of birth and presentation. Journal of Maternal-Fetal and Neonatal Medicine, 2018, 31, 682-688.	1.5	7
65	Postnatal polyunsaturated fatty acids associated with larger preterm brain tissue volumes and better outcomes. Pediatric Research, 2018, 83, 93-101.	2.3	19
66	Intrapartum magnesium sulfate is associated with neuroprotection in growth-restricted fetuses. American Journal of Obstetrics and Gynecology, 2018, 219, 606.e1-606.e8.	1.3	15
67	CHIPS-Child: Testing the developmental programming hypothesis in the offspring of the CHIPS trial. Pregnancy Hypertension, 2018, 14, 15-22.	1.4	4
68	Association of admission temperature and death or adverse neurodevelopmental outcomes in extremely low-gestational age neonates. Journal of Perinatology, 2018, 38, 844-849.	2.0	21
69	Neurodevelopmental Outcomes of Preterm Children at School Age and Beyond. Clinics in Perinatology, 2018, 45, 393-408.	2.1	55
70	Activated protein C as disease-modifying therapy in antenatal preeclampsia: An open-label, single arm safety and efficacy trial. Pregnancy Hypertension, 2018, 13, 121-126.	1.4	5
71	Quantitative assessment of white matter injury in preterm neonates. Neurology, 2017, 88, 614-622.	1.1	117
72	Clinical Risk Factors for Punctate White Matter Lesions on Early Magnetic Resonance Imaging in Preterm Newborns. Journal of Pediatrics, 2017, 182, 34-40.e1.	1.8	36

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73	Early Onset Invasive Candidiasis in Extremely Low Birth Weight Infants: Perinatal Acquisition Predicts Poor Outcome. <i>Clinical Infectious Diseases</i> , 2017, 64, cix001.	5.8	26
74	Determinants of developmental outcomes in a very preterm Canadian cohort. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2017, 102, F235-F234.	2.8	196
75	Severe retinopathy of prematurity predicts delayed white matter maturation and poorer neurodevelopment. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2017, 102, F532-F537.	2.8	59
76	Survival, Short-Term, and Long-Term Morbidities of Neonates with Birth Weight <math>\leq 500</math> g. <i>American Journal of Perinatology</i> , 2017, 34, 1333-1339.	1.4	7
77	Association between corpus callosum development on magnetic resonance imaging and diffusion tensor imaging, and neurodevelopmental outcome in neonates born very preterm. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 433-440.	2.1	34
78	Antenatal exposure to antidepressants is associated with altered brain development in very preterm-born neonates. <i>Neuroscience</i> , 2017, 342, 252-262.	2.3	29
79	Head Growth Trajectory and Neurodevelopmental Outcomes in Preterm Neonates. <i>Pediatrics</i> , 2017, 140, .	2.1	66
80	Narcotics and Sedative Use in Preterm Neonates. <i>Journal of Pediatrics</i> , 2017, 180, 92-98.e1.	1.8	35
81	Fetal, Infant and Maternal Outcomes among Women with Prolapsed Membranes Admitted before 29 Weeks Gestation. <i>PLoS ONE</i> , 2016, 11, e0168285.	2.5	7
82	Low plasma magnesium is associated with impaired brain metabolism in neonates with hypoxic-ischaemic encephalopathy. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, 1067-1073.	1.5	4
83	Midazolam dose correlates with abnormal hippocampal growth and neurodevelopmental outcome in preterm infants. <i>Annals of Neurology</i> , 2016, 79, 548-559.	5.3	129
84	Neonatal Outcomes of Very Low Birth Weight and Very Preterm Neonates: An International Comparison. <i>Journal of Pediatrics</i> , 2016, 177, 144-152.e6.	1.8	184
85	Maternal morbidity and perinatal outcomes among women in rural versus urban areas. <i>Cmaj</i> , 2016, 188, E456-E465.	2.0	65
86	Screening for Neonatal Hypoglycemia After Fetal Exposure to $\beta$ -Blockers. <i>Pediatrics</i> , 2016, 138, .	2.1	3
87	Association Between Antibiotic Use and Neonatal Mortality and Morbidities in Very Low-Birth-Weight Infants Without Culture-Proven Sepsis or Necrotizing Enterocolitis. <i>JAMA Pediatrics</i> , 2016, 170, 1181.	6.2	183
88	Early postnatal docosahexaenoic acid levels and improved preterm brain development. <i>Pediatric Research</i> , 2016, 79, 723-730.	2.3	84
89	Smaller Cerebellar Growth and Poorer Neurodevelopmental Outcomes in Very Preterm Infants Exposed to Neonatal Morphine. <i>Journal of Pediatrics</i> , 2016, 172, 81-87.e2.	1.8	156
90	Sensory Processing Patterns in Children Born Very Preterm. <i>American Journal of Occupational Therapy</i> , 2016, 70, 7001220050p1-7001220050p7.	0.3	43

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91	ISDN2014_0066: Frontal brain activation, systemic cardiovascular and behavioral responses to heel lance in very preterm infants. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 15-15.	1.6	0
92	Maternal and Perinatal Outcomes of Pregnancies Delivered at 23 Weeksâ€™ Gestation. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2015, 37, 214-224.	0.7	21
93	Predicting severe motor impairment in preterm children at age 5 years. <i>Archives of Disease in Childhood</i> , 2015, 100, 748-753.	1.9	13
94	Magnesium Sulphate for Eclampsia and Fetal Neuroprotection: A Comparative Analysis of Protocols Across Canadian Tertiary Perinatal Centres. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2015, 37, 975-987.	0.7	9
95	Oxygen Therapy for Preterm Neonates. <i>JAMA Pediatrics</i> , 2015, 169, 311.	6.2	12
96	Stress in parents of children born very preterm is predicted by child externalising behaviour and parent coping at age 7â€™ years. <i>Archives of Disease in Childhood</i> , 2015, 100, 554-558.	1.9	18
97	Automatic segmentation of the hippocampus for preterm neonates from early-in-life to term-equivalent age. <i>NeuroImage: Clinical</i> , 2015, 9, 176-193.	2.7	32
98	Neonatal Pain and Infection Relate to Smaller Cerebellum inâ€™Veryâ€™Pretermâ€™Children at School Age. <i>Journal of Pediatrics</i> , 2015, 167, 292-298.e1.	1.8	115
99	Intrapartum magnesium sulfate and need for intensive delivery room resuscitation. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015, 100, F59-F65.	2.8	26
100	Cortisol levels in former preterm children at school age are predicted by neonatal procedural pain-related stress. <i>Psychoneuroendocrinology</i> , 2015, 51, 151-163.	2.7	146
101	Association of a quality improvement program with neonatal outcomes in extremely preterm infants: a prospective cohort study. <i>Cmaj</i> , 2014, 186, E485-E494.	2.0	62
102	Invasive Procedures in Preterm Children: Brain and Cognitive Development at School Age. <i>Pediatrics</i> , 2014, 133, 412-421.	2.1	204
103	Effect of Magnesium Sulphate on Fetal Heart Rate Parameters: A Systematic Review. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2014, 36, 1055-1064.	0.7	18
104	Neonatal pain-related stress, functional cortical activity and visual-perceptual abilities in school-age children born at extremely low gestational age. <i>Pain</i> , 2013, 154, 1946-1952.	4.2	178
105	Parent behaviors moderate the relationship between neonatal pain and internalizing behaviors at 18 months corrected age in children born very prematurely. <i>Pain</i> , 2013, 154, 1831-1839.	4.2	103
106	Abnormal brain maturation in preterm neonates associated with adverse developmental outcomes. <i>Neurology</i> , 2013, 81, 2082-2089.	1.1	183
107	Score for Neonatal Acute Physiologyâ€™II and Neonatal Pain Predict Corticospinal Tract Development in Premature Newborns. <i>Pediatric Neurology</i> , 2013, 48, 123-129.e1.	2.1	108
108	Slower Postnatal Growth Is Associated with Delayed Cerebral Cortical Maturation in Preterm Newborns. <i>Science Translational Medicine</i> , 2013, 5, 168ra8.	12.4	156

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109	Limb length shortening associated with femoral arterial lines in the neonatal period. <i>Paediatrics and Child Health</i> , 2013, 18, 194-196.	0.6	3
110	Neonatal Pain-Related Stress Predicts Cortical Thickness at Age 7 Years in Children Born Very Preterm. <i>PLoS ONE</i> , 2013, 8, e76702.	2.5	213
111	Postnatal infection is associated with widespread abnormalities of brain development in premature newborns. <i>Pediatric Research</i> , 2012, 71, 274-279.	2.3	147
112	Procedural pain and brain development in premature newborns. <i>Annals of Neurology</i> , 2012, 71, 385-396.	5.3	531
113	Incidence and pattern of hearing impairment in children with <math>\leq 800</math> g birthweight in British Columbia, Canada. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2012, 101, e48-54.	1.5	12
114	Neonatal pain in relation to postnatal growth in infants born very preterm. <i>Pain</i> , 2012, 153, 1374-1381.	4.2	134
115	The Canadian Perinatal Network: A National Network Focused on Threatened Preterm Birth at 22 to 28 Weeksâ€™ Gestation. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2011, 33, 111-120.	0.7	10
116	Tractography-Based Quantitation of Corticospinal Tract Development in Premature Newborns. <i>Journal of Pediatrics</i> , 2010, 156, 882-888.e1.	1.8	66
117	School Entry Age Outcomes for Infants with Birth Weight <math>\leq 800</math> Grams. <i>Journal of Pediatrics</i> , 2010, 157, 989-994.e1.	1.8	53
118	Improving the quality of care for infants: a cluster randomized controlled trial. <i>Cmaj</i> , 2009, 181, 469-476.	2.0	103
119	Effect of chorioamnionitis on brain development and injury in premature newborns. <i>Annals of Neurology</i> , 2009, 66, 155-164.	5.3	156
120	Neonatal pain, parenting stress and interaction, in relation to cognitive and motor development at 8 and 18 months in preterm infants. <i>Pain</i> , 2009, 143, 138-146.	4.2	399
121	Neonatal Intensive Care Unit Characteristics Affect the Incidence of Severe Intraventricular Hemorrhage. <i>Medical Care</i> , 2006, 44, 754-759.	2.4	92
122	Current status of neonatal follow-up in Canada. <i>Paediatrics and Child Health</i> , 2006, 11, 271-4.	0.6	11
123	Infants with Congenital Anomalies Admitted to Neonatal Intensive Care Units. <i>American Journal of Perinatology</i> , 2004, 21, 199-207.	1.4	28
124	Variations in Practice and Outcomes in the Canadian NICU Network: 1996â€“1997. <i>Pediatrics</i> , 2000, 106, 1070-1079.	2.1	471