Arvind Sehgal

List of Publications by Citations

80 papers	1,673 citations	20 h-index	39 g-index
86 ext. papers	2,113 ext. citations	3.7 avg, IF	4.97 L-index

#	Paper	IF	Citations
80	Towards rational management of the patent ductus arteriosus: the need for disease staging. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2007**, 92, F424-7	4.7	234
79	Delayed versus Immediate Cord Clamping in Preterm Infants. *New England Journal of Medicine*, **2017**, 377, 2445-2455	59.2	156
78	Patent ductus arteriosus ligation is associated with impaired left ventricular systolic performance in premature infants weighing less than 1000 g. *Journal of Thoracic and Cardiovascular Surgery*, **2010**, 140, 150-7	1.5	108
77	A Patent Ductus Arteriosus Severity Score Predicts Chronic Lung Disease or Death before Discharge. *Journal of Pediatrics*, **2015**, 167, 1354-1361.e2	3.6	100
76	Use of targeted neonatal echocardiography to prevent postoperative cardiorespiratory instability after patent ductus arteriosus ligation. *Journal of Pediatrics*, **2012**, 160, 584-589.e1	3.6	99
75	Does echocardiography facilitate determination of hemodynamic significance attributable to the ductus arteriosus?. *European Journal of Pediatrics*, **2009**, 168, 907-14	4.1	90
74	Cardiac function and arterial biophysical properties in small for gestational age infants: postnatal manifestations of fetal programming. *Journal of Pediatrics*, **2013**, 163, 1296-300	3.6	68
73	Functional echocardiography in staging for ductal disease severity : role in predicting outcomes. *European Journal of Pediatrics*, **2013**, 172, 179-84	4.1	52
72	Application of Neonatologist Performed Echocardiography in the assessment and management of persistent pulmonary hypertension of the newborn. *Pediatric Research*, **2018**, 84, 68-77	3.2	40
71	The ductus arteriosus: a refined approach!. *Seminars in Perinatology*, **2012**, 36, 105-13	3.3	38
70	Sildenafil therapy in bronchopulmonary dysplasia-associated pulmonary hypertension: a retrospective study of efficacy and safety. *European Journal of Pediatrics*, **2015**, 174, 1109-15	4.1	36
69	Pulmonary hypertension associated with bronchopulmonary dysplasia in preterm infants. *Journal of Reproductive Immunology*, **2017**, 124, 21-29	4.2	30
68	Coronary artery perfusion and myocardial performance after patent ductus arteriosus ligation. *Journal of Thoracic and Cardiovascular Surgery*, **2012**, 143, 1271-8	1.5	25
67	Cardiovascular support in preterm infants: a survey of practices in Australia and New Zealand. *Journal of Paediatrics and Child Health*, **2012**, 48, 317-23	1.3	24
66	Reduced cardiac output and its correlation with coronary blood flow and troponin in asphyxiated infants treated with therapeutic hypothermia. *European Journal of Pediatrics*, **2012**, 171, 1511-7	4.1	24
65	Right Ventricular Function in Infants with Bronchopulmonary Dysplasia: Association with Respiratory Sequelae. *Neonatology*, **2016**, 109, 289-96	4	24
64	Preterm growth restriction and bronchopulmonary dysplasia: the vascular hypothesis and related physiology. *Journal of Physiology*, **2019**, 597, 1209-1220	3.9	23

63	Global myocardial function is compromised in infants with pulmonary hypertension. *Acta Paediatrica, International Journal of Paediatrics*, **2012**, 101, 410-3	3.1	23
62	Speckle tracking derived strain in infants with severe perinatal asphyxia: a comparative case control study. *Cardiovascular Ultrasound*, **2013**, 11, 34	2.4	21
61	Indomethacin impairs coronary perfusion in infants with hemodynamically significant ductus arteriosus. *Neonatology*, **2012**, 101, 20-7	4	21
60	Altered cardiovascular function at birth in growth-restricted preterm lambs. *Pediatric Research*, **2016**, 80, 538-46	3.2	20
59	Cardiac function and arterial indices in infants born small for gestational age: analysis by speckle tracking. *Acta Paediatrica, International Journal of Paediatrics*, **2014**, 103, e49-54	3.1	20
58	Cardiac Morphology and Function in Preterm Growth Restricted Infants: Relevance for Clinical Sequelae. *Journal of Pediatrics*, **2017**, 188, 128-134.e2	3.6	20
57	A new look at bronchopulmonary dysplasia: postcapillary pathophysiology and cardiac dysfunction. *Pulmonary Circulation*, **2016**, 6, 508-515	2.7	20
56	Haemodynamically unstable preterm infant: an unresolved management conundrum. *European Journal of Pediatrics*, **2011**, 170, 1237-45	4.1	19
55	Haemodynamic changes after delivery room surfactant administration to very low birth weight infants. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2010**, 95, F345-51	4.7	19
54	Cardiac sonography by the neonatologist: clinical usefulness and educational perspective. *Journal of Ultrasound in Medicine*, **2014**, 33, 1401-6	2.9	18
53	Interparametric correlation between echocardiographic markers in preterm infants with patent ductus arteriosus. *Pediatric Cardiology*, **2013**, 34, 1212-7	2.1	18
52	Use of milrinone in the management of haemodynamic instability following duct ligation. *European Journal of Pediatrics*, **2011**, 170, 115-9	4.1	18
51	Targeted neonatal echocardiography services: need for standardized training and quality assurance. *Journal of Ultrasound in Medicine*, **2014**, 33, 1833-41	2.9	16
50	Patent ductus arteriosus ligation and post-operative hemodynamic instability: case report and framework for enhanced neonatal care. *Indian Journal of Pediatrics*, **2010**, 77, 905-7	3	15
49	Measurement of the lateral ventricles in the neonatal head: comparison of 2-D and 3-D techniques. *Ultrasound in Medicine and Biology*, **2012**, 38, 2051-7	3.5	14
48	Ventilation-induced lung injury is not exacerbated by growth restriction in preterm lambs. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L213-23	5.8	14
47	Oral Paracetamol for Patent Ductus Arteriosus Rescue Closure. *Pediatric Cardiology*, **2018**, 39, 183-190	2.1	11
46	Bronchopulmonary dysplasia associated pulmonary hypertension: Making the best use of bedside echocardiography. *Progress in Pediatric Cardiology*, **2017**, 46, 39-43	0.4	10

45	International perspective on management of a patent ductus arteriosus: Lessons learned. *Seminars in Fetal and Neonatal Medicine*, **2018**, 23, 278-284	3.7	10
44	Vasopressin as an adjunct therapy for pulmonary hypertension: a case report. *European Journal of Pediatrics*, **2014**, 173, 1651-4	4.1	10
43	Placental histopathology in preterm fetal growth restriction. *Journal of Paediatrics and Child Health* , **2019**, 55, 582-587	1.3	10
42	Cyclooxygenase inhibitors in preterm infants with patent ductus arteriosus: effects on cardiac and vascular indices. *Pediatric Cardiology*, **2014**, 35, 1429-36	2.1	9
41	Pulmonary hypertension in an infant treated with ibuprofen. *Indian Journal of Pediatrics*, **2013**, 80, 697-93		9
40	Doppler manifestations of ductal steal: role in decision making. *European Journal of Pediatrics*, **2011** , 170, 795-8	4.1	9
39	Fetal Growth Restriction and Hypertension in the Offspring: Mechanistic Links and Therapeutic Directions. *Journal of Pediatrics*, **2020**, 224, 115-123.e2	3.6	9
38	Effects of Maternal Sildenafil Treatment on Vascular Function in Growth-Restricted Fetal Sheep. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 731-740	9.4	8
37	Indomethacin vs ibuprofen: comparison of efficacy in the setting of conservative therapeutic approach. *European Journal of Pediatrics*, **2015**, 174, 615-20	4.1	8
36	Use of inhaled nitric oxide in preterm infants: a regional survey of practices. *Heart and Lung: Journal of Acute and Critical Care*, **2014**, 43, 347-50	2.6	8
35	Cerebral oxygenation during subclinical seizures in neonatal hypoxic-ischaemic encephalopathy. *European Journal of Paediatric Neurology*, **2012**, 16, 304-7	3.8	8
34	Surfactant and patent ductus arteriosus. *Indian Journal of Pediatrics*, **2010**, 77, 51-5	3	8
33	Impact of Skin-to-Skin Parent-Infant Care on Preterm Circulatory Physiology. *Journal of Pediatrics*, **2020**, 222, 91-97.e2	3.6	7
32	Nitric therapy in preterm infants: rationalised approach based on functional neonatal echocardiography. *Acta Paediatrica, International Journal of Paediatrics*, **2016**, 105, 165-71	3.1	7
31	Cardiorespiratory Physiology following Minimally Invasive Surfactant Therapy in Preterm Infants. *Neonatology*, **2019**, 116, 278-285	4	6
30	Diuretic use in infants with developing or established chronic lung disease: A practice looking for evidence. *Journal of Paediatrics and Child Health*, **2020**, 56, 1189-1193	1.3	6
29	The Left Heart, Systemic Circulation, and Bronchopulmonary Dysplasia: Relevance to Pathophysiology and Therapeutics. *Journal of Pediatrics*, **2020**, 225, 13-22.e2	3.6	5
28	Three-dimensional ultrasound cranial imaging and early neurodevelopment in preterm growth-restricted infants. *Journal of Paediatrics and Child Health*, **2018**, 54, 420-425	1.3	5

27	Hemodynamic effects of nasal continuous positive airway pressure in preterm infants with evolving chronic lung disease, a crossover randomized trial. *Journal of Pediatrics*, **2015**, 166, 477-9	3.6	5
26	ACE inhibition for severe bronchopulmonary dysplasia - an approach based on physiology. *Physiological Reports*, **2018**, 6, e13821	2.6	5
25	Cardiac function and its evolution with pulmonary vasodilator therapy: a myocardial deformation study. *Echocardiography*, **2014**, 31, E185-8	1.5	4
24	Vascular changes in fetal growth restriction: clinical relevance and future therapeutics. *Journal of Perinatology*, **2019**, 39, 366-374	3.1	4
23	Echocardiographic assessment of left ventricular outflow tract diameter in preterm infants. *Australasian Journal of Ultrasound in Medicine*, **2014**, 17, 146-149	0.6	3
22	Interstitial deletion of chromosome 1 (1p21.1p12) in an infant with congenital diaphragmatic hernia, hydrops fetalis, and interrupted aortic arch. *Clinical Case Reports (discontinued)*, **2017**, 5, 164-169	0.7	2
21	Fetal growth restriction is associated with an altered cardiopulmonary and cerebral hemodynamic response to surfactant therapy in preterm lambs. *Pediatric Research*, **2019**, 86, 47-54	3.2	2
20	Cardiovascular response and sequelae after minimally invasive surfactant therapy in growth-restricted preterm infants. *Journal of Perinatology*, **2020**, 40, 1178-1184	3.1	2
19	Cardiac Function Assessments in Left Bochdalek's Hernia: Clinical Relevance. *Pediatric Cardiology*, **2018**, 39, 829-836	2.1	2
18	Suprasternal optical window to Doppler the superior vena cava in neonates. *Journal of Echocardiography*, **2011**, 9, 121-2	1.6	2
17	Dry lung syndrome: a distinct clinical entity. *Indian Journal of Pediatrics*, **2010**, 77, 1029-31	3	2
16	Doctor please feel my pulses! An aid to diagnosis in the newborn. *Journal of Paediatrics and Child Health*, **2016**, 52, 983-990	1.3	2
15	Early detection of significant congenital heart disease: The contribution of fetal cardiac ultrasound and newborn pulse oximetry screening. *Journal of Paediatrics and Child Health*, **2021**, 57, 323-327	1.3	2
14	Hemodynamic optimization for neonates with neonatal encephalopathy caused by a hypoxic ischemic event: Physiological and therapeutic considerations. *Seminars in Fetal and Neonatal Medicine*, **2021**, 26, 101277	3.7	2
13	The Cerebral Hemodynamic Response to Pain in Preterm Infants With Fetal Growth Restriction. *Frontiers in Pediatrics*, **2020**, 8, 268	3.4	1
12	Toward rational management of patent ductus arteriosus: ductal disease staging and first line paracetamol. *Journal of Maternal-Fetal and Neonatal Medicine*, **2021**, 34, 3940-3945	2	1
11	Fifteen-minute consultation: How to spot serious heart disease in the newborn. *Archives of Disease in Childhood: Education and Practice Edition*, **2021**,	0.5	1
10	Type 2 immune polarization is associated with cardiopulmonary disease in preterm infants.. *Science Translational Medicine*, **2022**, 14, eaaz8454	17.5	1

9	Assessing pulmonary circulation in severe bronchopulmonary dysplasia using functional echocardiography. *Physiological Reports*, **2021**, 9, e14690	2.6	0
8	The often forgotten systemic effects of ductus arteriosus: impact on decision-making and future trials. *Journal of Perinatology*, **2021**, 41, 2363-2366	3.1	0
7	Vasopressin in perioperative management of congenital diaphragmatic hernia. *Annals of Pediatric Surgery*, **2017**, 13, 47-49	0.8	
6	Evaluation of the coronary arteries in the foetus and newborn and their physiologic significance. *Journal of Maternal-Fetal and Neonatal Medicine*, **2013**, 26, 1042-7	2	
5	Early neonatal sepsis with the extended spectrum β-lactomase producing: Morganella morgagni. *Journal of Neonatal-Perinatal Medicine*, **2009**, 2, 201-202	1.3	
4	Deviation of naso-gastric tube on frontal chest radiograph: A marker of left atria enlargement in babies with ductus arteriosus. *Journal of Neonatal-Perinatal Medicine*, **2009**, 2, 89-93	1.3	
3	Letter to the editor. *Journal of Paediatrics and Child Health*, **2019**, 55, 1512-1513	1.3	
2	Reply. *Journal of Pediatrics*, **2021**, 230, 275-276	3.6	
1	M-mode imaging of the diaphragm in phrenic nerve palsy due to birth trauma.. *Journal of Pediatrics*, **2022**,	3.6	