

# Patrick J Cahill

## List of Publications by Year in descending order

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116  
papers

1,499  
citations

430874

18  
h-index

395702

33  
g-index

118  
all docs

118  
docs citations

118  
times ranked

1098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inter- and intra-rater reliability and accuracy of Sanders Skeletal Maturity Staging System when used by surgeons performing vertebral body tethering. <i>Spine Deformity</i> , 2022, 10, 97-106.	1.5	2
2	Does nutrition consultation in the year leading up to neuromuscular scoliosis surgery result in significant weight gain, or just a larger magnitude curve?. <i>Spine Deformity</i> , 2022, 10, 151-158.	1.5	3
3	A Minimally Interactive Method for Labeling Respiratory Phases in Free-Breathing Thoracic Dynamic MRI for Constructing 4D Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1424-1434.	4.2	0
4	“Will I Need a Brace?” likelihood of curve progression to bracing range in adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2022, 10, 537-542.	1.5	3
5	Pelvic fixation is not always necessary in children with cerebral palsy scoliosis treated with growth-friendly instrumentation. <i>Spine Deformity</i> , 2022, , 1.	1.5	2
6	Does ventilator use status correlate with quality of life in patients with early-onset scoliosis treated with rib-based growing system implantation?. <i>Spine Deformity</i> , 2022, 10, 943-950.	1.5	1
7	Does the presence of programmable implanted devices in patients with early onset scoliosis alter typical operative and postoperative practices? A survey of spine surgeons. <i>Spine Deformity</i> , 2022, , 1.	1.5	3
8	Surgical and Nonsurgical Factors Associated with Salvaging Exposed Vertical Expandable Prosthetic Titanium Rib Hardware. <i>Plastic and Reconstructive Surgery</i> , 2022, 149, 485e-495e.	1.4	0
9	The classification of scoliosis braces developed by SOSORT with SRS, ISPO, and POSNA and approved by ESPRM. <i>European Spine Journal</i> , 2022, 31, 980-989.	2.2	15
10	Thoracic Curve Correction Ratio: An Objective Measure to Guide against Overcorrection of a Main Thoracic Curve in the Setting of a Structural Proximal Thoracic Curve. <i>Journal of Clinical Medicine</i> , 2022, 11, 1545.	2.4	1
11	To tether or fuse? Significant equipoise remains in treatment recommendations for idiopathic scoliosis. <i>Spine Deformity</i> , 2022, 10, 763-773.	1.5	8
12	Preoperative factors associated with optimal outcomes of selective thoracic fusion at 5 years. <i>Spine Deformity</i> , 2022, 10, 1117-1122.	1.5	2
13	Weight gain and gastrostomy tube safety during serial body casting for early onset scoliosis. <i>Spine Deformity</i> , 2022, 10, 1197-1201.	1.5	1
14	Development of a Finite Element Model of the Pediatric Thoracic and Lumbar Spine, Ribcage, and Pelvis With Orthotropic Region-Specific Vertebral Growth. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	5
15	American football is the youth sporting activity most commonly associated with acute vertebral fractures. <i>Physician and Sportsmedicine</i> , 2021, 49, 348-354.	2.1	3
16	Morphology and growth of the pediatric lumbar vertebrae. <i>Spine Journal</i> , 2021, 21, 682-697.	1.3	8
17	Thoracic Quantitative Dynamic MRI to Understand Developmental Changes in Normal Ventilatory Dynamics. <i>Chest</i> , 2021, 159, 712-723.	0.8	8
18	Interobserver and intraobserver reliability of determining the deformity angular ratio in severe pediatric deformity curves. <i>Spine Deformity</i> , 2021, 9, 435-440.	1.5	2

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19	Sinister! The high pre-op left shoulder is less likely to be radiographically balanced at 2 years post-op. Spine Deformity, 2021, 9, 451-460.	1.5	5
20	Results of Conservative and Surgical Management in Children with Idiopathic and Nonidiopathic Os Odontoideum. World Neurosurgery, 2021, 147, e324-e333.	1.3	1
21	Impact of growth friendly interventions on spine and pulmonary outcomes of patients with spinal muscular atrophy. European Spine Journal, 2021, 30, 768-774.	2.2	12
22	Concomitant procedures with early-onset scoliosis rib-based surgeries. Spine Deformity, 2021, 9, 1161-1167.	1.5	0
23	Part 2. Review and meta-analysis of studies on modulation of longitudinal bone growth and growth plate activity: A micro-scale perspective. Journal of Orthopaedic Research, 2021, 39, 919-928.	2.3	8
24	Complications, Reoperations, and Mid-Term Outcomes Following Anterior Vertebral Body Tethering Versus Posterior Spinal Fusion. JBJS Open Access, 2021, 6, .	1.5	23
25	A seat at the table: an invitation to the SRS podium via the study group. Spine Deformity, 2021, 9, 905-911.	1.5	3
26	Part 1. Review and meta-analysis of studies on modulation of longitudinal bone growth and growth plate activity: A macro-scale perspective. Journal of Orthopaedic Research, 2021, 39, 907-918.	2.3	15
27	Growth-friendly surgery results in more growth but a higher complication rate and unplanned returns to the operating room compared to single fusion in neuromuscular early-onset scoliosis: a multicenter retrospective cohort study. Spine Deformity, 2021, 9, 851-858.	1.5	9
28	Could have tethered: predicting the proportion of scoliosis patients most appropriate for thoracic anterior spinal tethering. Spine Deformity, 2021, 9, 1005-1012.	1.5	10
29	Lung parenchymal characterization via thoracic dynamic MRI in normal children and pediatric patients with TIS. , 2021, 11598, .		2
30	Estimation of the dynamic volume of each lung via rapid limited-slice dynamic MRI. , 2021, 11595, .		1
31	Residual lumbar hyperlordosis is associated with worsened hip status 5 years after scoliosis correction in non-ambulant patients with cerebral palsy. Spine Deformity, 2021, 9, 1125-1136.	1.5	1
32	Complete paraplegia 36â€‰h after attempted posterior spinal fusion for severe adolescent idiopathic scoliosis: a case report. Spinal Cord Series and Cases, 2021, 7, 33.	0.6	4
33	Quantifying lung and diaphragm morphology using radiographs in normative pediatric subjects, and predicting CT-derived lung volume. Pediatric Pulmonology, 2021, 56, 2177-2185.	2.0	2
34	Outcomes and Complications in Management of Congenital Myopathy Early-Onset Scoliosis. Journal of Pediatric Orthopaedics, 2021, Publish Ahead of Print, 531-536.	1.2	1
35	Myelopathic Patients Undergoing Severe Pediatric Spinal Deformity Surgery Can Improve Neurologic Function to That of Non-Myelopathic Patients by 1-Year Postoperative. Global Spine Journal, 2021, , 219256822110348.	2.3	1
36	Evaluation of shoulder balance in early onset scoliosis after definitive fusion and comparison with adolescent idiopathic scoliosis shoulder balance. Spine Deformity, 2021, , 1.	1.5	0

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37	V-GelÂ® Guided Endotracheal Intubation in Rabbits. <i>Frontiers in Veterinary Science</i> , 2021, 8, 684624.	2.2	6
38	OFx: A method of 4D image construction from free-breathing non-gated MRI slice acquisitions of the thorax via optical flux. <i>Medical Image Analysis</i> , 2021, 72, 102088.	11.6	4
39	Evidence Behind Upper Instrumented Vertebra Selection in Adolescent Idiopathic Scoliosis. <i>JBJS Reviews</i> , 2021, 9, .	2.0	1
40	Improvement of Pulmonary Function Measured by Patient-reported Outcomes in Patients With Spinal Muscular Atrophy After Growth-friendly Instrumentation. <i>Journal of Pediatric Orthopaedics</i> , 2021, 41, 1-5.	1.2	7
41	Outcomes of Operatively Managed Lumbar and Sacral Facet Fractures in Pediatric Athletes. <i>Journal of Pediatric Orthopaedics</i> , 2021, Publish Ahead of Print, e45-e49.	1.2	0
42	Long-term Patient Perception Following Surgery for Adolescent Idiopathic Scoliosis if Dissatisfied at 2-year Follow-up. <i>Spine</i> , 2021, 46, 507-511.	2.0	3
43	Hand Bone Age Radiography: Comparison Between Slot-scanning and Conventional Techniques. <i>Journal of Pediatric Orthopaedics</i> , 2021, 41, e167-e173.	1.2	0
44	Improving Health-related Quality of Life for Patients With Nonambulatory Cerebral Palsy: Who Stands to Gain From Scoliosis Surgery?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e186-e192.	1.2	21
45	Expert Consensus for Early Onset Scoliosis Surgery. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e621-e628.	1.2	19
46	Prolonged Postoperative Intubation After Spinal Fusion in Cerebral Palsy: Are There Modifiable Risk Factors and Associated Consequences?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, 431-437.	1.2	4
47	The Impact of Posterior Spinal Fusion (PSF) on Coronal Balance in Adolescent Idiopathic Scoliosis (AIS): A New Classification and Trends in the Postoperative Period. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e788-e793.	1.2	10
48	Evaluation and Treatment of Early-Onset Scoliosis. <i>JBJS Reviews</i> , 2020, 8, e20.00040-e20.00040.	2.0	4
49	Prophylactic Decompression for Cervical Stenosis in Jeune Syndrome. <i>Spine</i> , 2020, 45, E781-E786.	2.0	1
50	Major complications following surgical correction of spine deformity in 257 patients with cerebral palsy. <i>Spine Deformity</i> , 2020, 8, 1305-1312.	1.5	17
51	Do seizures compromise correction maintenance after spinal fusion in cerebral palsy scoliosis?. <i>Journal of Pediatric Orthopaedics Part B</i> , 2020, 29, 538-541.	0.6	2
52	Lengthening Less Than 7 Months Leads to Greater Spinal Height Gain With Rib-based Distraction. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e747-e752.	1.2	3
53	Whatâ€™s Important: Managing the Impact of Coronavirus on Pediatric Spine Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e94.	3.0	5
54	Serial Casting in Neuromuscular and Syndromic Early-onset Scoliosis (EOS) Can Delay Surgery Over 2 Years. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e772-e779.	1.2	9

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55	Thoracic vertebral morphology in normal and scoliosis deformity in skeletally immature rabbits: A Longitudinal study. JOR Spine, 2020, 3, e1118.	3.2	6
56	Awake serial body casting for the management of infantile idiopathic scoliosis: is general anesthesia necessary?. Spine Deformity, 2020, 8, 1109-1115.	1.5	13
57	BMI change following spinal fusion for neuromuscular scoliosis surgery. Spine Deformity, 2020, 8, 1081-1087.	1.5	6
58	Unplanned return to OR (UPROR) for children with early onset scoliosis (EOS): a comprehensive evaluation of all diagnoses and instrumentation strategies. Spine Deformity, 2020, 8, 295-302.	1.5	17
59	Correlation between surgical site infection and classification of early onset scoliosis (C-EOS) in patients managed by rib-based distraction instrumentation. Spine Deformity, 2020, 8, 787-792.	1.5	6
60	4D image construction from free-breathing MRI slice acquisitions of the thorax based on a concept of flux. , 2020, 11312, .		5
61	Automatic labeling of respiratory phases and detection of abnormal respiratory signals in free-breathing thoracic dynamic MR image acquisitions based on deep learning. , 2020, 11315, .		1
62	Restoration of Thoracic Kyphosis in Adolescent Idiopathic Scoliosis Over a Twenty-year Period: Are We Getting Better?. Spine, 2020, 45, 1625-1633.	2.0	9
63	Factors associated with surgical approach and outcomes in cerebral palsy scoliosis. European Spine Journal, 2019, 28, 567-580.	2.2	5
64	Surgeon and Caregiver Agreement on the Goals and Indications for Scoliosis Surgery in Children With Cerebral Palsy. Spine Deformity, 2019, 7, 304-311.	1.5	13
65	Hemoglobin Levels Pre- and Posttreatment as a Surrogate for Disease Severity in Early-Onset Scoliosis. Spine Deformity, 2019, 7, 641-646.	1.5	4
66	L3 translation predicts when L3 is not distal enough for an "ideal" result in Lenke 5 curves. European Spine Journal, 2019, 28, 1349-1355.	2.2	11
67	The Effect of the Level of Training of the First Assistant on the Outcomes of Adolescent Idiopathic Scoliosis Surgery. Journal of Bone and Joint Surgery - Series A, 2019, 101, e23.	3.0	6
68	The Role of Cross-Links in Posterior Spinal Fusion for Cerebral Palsy-Related Scoliosis. Spine, 2019, 44, E1256-E1263.	2.0	5
69	Utility of Perioperative Laboratory Tests in Pediatric Patients Undergoing Spinal Fusion for Scoliosis. Spine Deformity, 2019, 7, 875-882.	1.5	2
70	Thoracic Lordosis, Especially in Males, Increases Blood Loss in Adolescent Idiopathic Scoliosis. Journal of Pediatric Orthopaedics, 2019, 39, e201-e204.	1.2	7
71	Comprehensive Wound Risk Stratification of Rib-Based Distraction Instrumentation Procedures. Spine Deformity, 2019, 7, 971-978.	1.5	3
72	Ten-Year Outcomes of Selective Fusions for Adolescent Idiopathic Scoliosis. Journal of Bone and Joint Surgery - Series A, 2019, 101, 761-770.	3.0	37

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73	Os Odontoideum in Children. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 1750-1760.	3.0	18
74	Do All Patients With Cerebral Palsy Require Postoperative Intensive Care Admission After Spinal Fusion?. <i>Spine Deformity</i> , 2019, 7, 112-117.	1.5	8
75	Pediatric Cervical Spine Clearance. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, e1.	3.0	42
76	Adolescent Scoliosis. , 2019, , 439-454.		0
77	Relationships Between the Axial Derotation of the Lower Instrumented Vertebra and Uninstrumented Lumbar Curve Correction: Radiographic Outcome in Lenke 1 Adolescent Idiopathic Scoliosis With a Minimum 2-Year Follow-up. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e194-e201.	1.2	18
78	Reciprocal Changes in Sagittal Alignment With Operative Treatment of Adolescent Scheuermann Kyphosisâ€”Prospective Evaluation of 96 Patients. <i>Spine Deformity</i> , 2018, 6, 177-184.	1.5	18
79	Youth and Experience: The Effect of Surgeon Experience on Outcomes in Cerebral Palsy Scoliosis Surgery. <i>Spine Deformity</i> , 2018, 6, 54-59.	1.5	17
80	Factors Predictive of Outcomes in Vertebral Body Stapling for Idiopathic Scoliosis. <i>Spine Deformity</i> , 2018, 6, 28-37.	1.5	10
81	Assessment of Proximal Junctional Kyphosis and Shoulder Balance With Proximal Screws versus Hooks in Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2018, 43, E1322-E1328.	2.0	17
82	Intraoperative Traction May Be a Viable Alternative to Anterior Surgery in Cerebral Palsy Scoliosis â‰¥100 Degrees. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e278-e284.	1.2	12
83	Evolution of Surgery for Adolescent Idiopathic Scoliosis Over 20 Years. <i>Spine</i> , 2018, 43, 402-410.	2.0	52
84	Whatâ€™s New in Pediatric Orthopaedic Quality, Safety, and Value? A Systematic Review With Results of the 2016 POSNA Quality, Safety, and Value Initiative (QSVI) Challenge. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e646-e651.	1.2	3
85	Agreement Between Manual and Computerized Designation of Neutral Vertebra in Idiopathic Scoliosis. <i>Spine Deformity</i> , 2018, 6, 644-650.	1.5	7
86	Quality of Life Improvement Following Surgery in Adolescent Spinal Deformity Patients: A Comparison Between Scheuermann Kyphosis and Adolescent Idiopathic Scoliosis*. <i>Spine Deformity</i> , 2018, 6, 676-683.	1.5	18
87	Releasing the tether: Weight normalization following corrective spinal fusion in cerebral palsy. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901878255.	1.0	6
88	How Often Do You Lengthen? A Physician Survey on Lengthening Practice for Prosthetic Rib Devices. <i>Spine Deformity</i> , 2018, 6, 473-477.	1.5	6
89	Two for One: A Change in Hand Positioning During Low-Dose Spinal Stereoradiography Allows for Concurrent, Reliable Sanders Skeletal Maturity Staging. <i>Spine Deformity</i> , 2018, 6, 391-396.	1.5	13
90	Intra-operative computed tomography guided navigation for pediatric pelvic instrumentation: A technique guide. <i>World Journal of Orthopedics</i> , 2018, 9, 185-189.	1.8	5

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91	Serial Casting for Infantile Idiopathic Scoliosis: Radiographic Outcomes and Factors Associated With Response to Treatment. <i>Journal of Pediatric Orthopaedics</i> , 2017, 37, 311-316.	1.2	34
92	Factors affecting the outcome in appearance of AIS surgery in terms of the minimal clinically important difference. <i>European Spine Journal</i> , 2017, 26, 1782-1788.	2.2	8
93	Timing of Changes in Three-Dimensional Spinal Parameters After Selective Thoracic Fusion in Lenke 1 Adolescent Idiopathic Scoliosis: Two-Year Follow-up. <i>Spine Deformity</i> , 2017, 5, 409-415.	1.5	11
94	Post-operative fever in orthopaedic surgery: How effective is the "fever workup"? <i>Journal of Orthopaedic Surgery</i> , 2017, 25, 230949901772795.	1.0	15
95	Concussion in Sports: What Do Orthopaedic Surgeons Need to Know?. <i>Instructional Course Lectures</i> , 2017, 66, 557-566.	0.2	0
96	Report of the 2015 SRS Traveling Fellowship. <i>Spine Deformity</i> , 2016, 4, 173-181.	1.5	0
97	Factors associated with spinal fusion after posterior fossa decompression in pediatric patients with Chiari I malformation and scoliosis. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 18, 737-743.	1.3	17
98	Reversible Intraoperative Neurophysiologic Monitoring Alerts in Patients Undergoing Arthrodesis for Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1478-1483.	3.0	27
99	Management and outcomes of scoliosis in children with congenital diaphragmatic hernia. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1921-1925.	1.6	5
100	Characterizing the differences between the 2D and 3D measurements of spine in adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2016, 25, 3137-3145.	2.2	47
101	Multicenter Comparison of 3D Spinal Measurements Using Surface Topography With Those From Conventional Radiography. <i>Spine Deformity</i> , 2016, 4, 98-103.	1.5	70
102	Bi-planar spinal stereoradiography of adolescent idiopathic scoliosis: considerations in 3D alignment and functional balance. <i>European Spine Journal</i> , 2016, 25, 3234-3241.	2.2	23
103	Thoracic Insufficiency Syndrome. <i>Current Problems in Pediatric and Adolescent Health Care</i> , 2016, 46, 72-97.	1.7	38
104	Major perioperative complications after spine surgery in patients with cerebral palsy: assessment of risk factors. <i>European Spine Journal</i> , 2016, 25, 795-800.	2.2	52
105	Concussion in Sports. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2016, 24, e193-e201.	2.5	3
106	Do Ponte Osteotomies Enhance Correction in Adolescent Idiopathic Scoliosis? An Analysis of 191 Lenke 1A and 1B Curves. <i>Spine Deformity</i> , 2015, 3, 483-488.	1.5	36
107	Vertebral Body Stapling versus Bracing for Patients with High-Risk Moderate Idiopathic Scoliosis. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	22
108	Minimally Invasive Lateral Interbody Fusion in the Treatment of Scoliosis Associated with Myelomeningocele. <i>Surgical Technology International</i> , 2015, 26, 371-5.	0.2	3

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109	Is There a Role for the 5-Degree Rule in Adolescent Idiopathic Scoliosis?. Journal of Pediatric Orthopaedics, 2014, 34, 194-201.	1.2	2
110	The Use of Finite Element Models to Assist Understanding and Treatment For Scoliosis: A Review Paper. Spine Deformity, 2014, 2, 10-27.	1.5	44
111	The Effect of Surgeon Experience on Outcomes of Surgery for Adolescent Idiopathic Scoliosis. Journal of Bone and Joint Surgery - Series A, 2014, 96, 1333-1339.	3.0	114
112	Surgical aspects of spinal growth modulation in scoliosis correction. Instructional Course Lectures, 2014, 63, 335-44.	0.2	21
113	Sagittal Spinopelvic Parameters of Young Children With Scoliosis. Spine Deformity, 2013, 1, 343-347.	1.5	10
114	Unplanned Return to the Operating Room in Patients With Adolescent Idiopathic Scoliosis. Spine, 2013, 38, 1842-1847.	2.0	35
115	Autofusion in the Immature Spine Treated With Growing Rods. Spine, 2010, 35, E1199-E1203.	2.0	155
116	Risk of ventriculoperitoneal shunt malfunction in operatively treated early onset spinal deformity. Spine Deformity, 0, , .	1.5	0