Steven D Colan

List of Publications by Year in descending order

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42291 57631 9,229 130 44 92 citations h-index g-index papers 137 137 137 7416 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Pediatric and adult dilated cardiomyopathy are distinguished by distinct biomarker profiles. Pediatric Research, 2022, 92, 206-215.	1.1	2
2	Cardiac responses in paediatric Pompe disease in the ADVANCE patient cohort. Cardiology in the Young, 2022, 32, 364-373.	0.4	7
3	The genetic architecture of pediatric cardiomyopathy. American Journal of Human Genetics, 2022, 109, 282-298.	2.6	21
4	Assessment of Exercise Function in Children and Young Adults with Hypertrophic Cardiomyopathy and Correlation with Transthoracic Echocardiographic Parameters. Pediatric Cardiology, 2022, , .	0.6	2
5	Matching Donor and Recipient Size in Pediatric Heart Transplantation. Transplant International, 2022, 36, 10226.	0.8	7
6	Variability in Longitudinal Early Diastolic Strain Rate in Children. Journal of the American Society of Echocardiography, 2022, , .	1.2	0
7	Comparison of Intraoperative and Discharge Residual Lesion Severity in Congenital Heart Surgery. Annals of Thoracic Surgery, 2022, 114, 1731-1737.	0.7	14
8	Associations Between Female Sex, Sarcomere Variants, and Clinical Outcomes in Hypertrophic Cardiomyopathy. Circulation Genomic and Precision Medicine, 2021, 14, e003062.	1.6	38
9	Disease-specific variant pathogenicity prediction significantly improves variant interpretation in inherited cardiac conditions. Genetics in Medicine, 2021, 23, 69-79.	1.1	39
10	Pediatric Heart Network Echocardiographic Z Scores: Comparison with Other Published Models. Journal of the American Society of Echocardiography, 2021, 34, 185-192.	1.2	26
11	Technical Performance Score's Association With Arterial Switch Operation Outcomes. Annals of Thoracic Surgery, 2021, 111, 1367-1373.	0.7	9
12	Myocardial fibrosis in patients with a history of Kawasaki disease. IJC Heart and Vasculature, 2021, 32, 100713.	0.6	4
13	Clinical characteristics and outcomes in childhood-onset hypertrophic cardiomyopathy. European Heart Journal, 2021, 42, 1988-1996.	1.0	69
14	Computational prediction of protein subdomain stability in MYBPC3 enables clinical risk stratification in hypertrophic cardiomyopathy and enhances variant interpretation. Genetics in Medicine, 2021, 23, 1281-1287.	1.1	11
15	Height Versus Body Surface Area to Normalize Cardiovascular Measurements in Children Using the Pediatric Heart Network Echocardiographic Z-Score Database. Pediatric Cardiology, 2021, 42, 1284-1292.	0.6	6
16	Effect of Losartan or Atenolol on Children and Young Adults With Bicuspid Aortic Valve and Dilated Aorta. American Journal of Cardiology, 2021, 144, 111-117.	0.7	7
17	Genetic Causes of Cardiomyopathy in Children: First Results From the Pediatric Cardiomyopathy Genes Study. Journal of the American Heart Association, 2021, 10, e017731.	1.6	29
18	Impact of Major Residual Lesions onÂOutcomes After Surgery for Congenital Heart Disease. Journal of the American College of Cardiology, 2021, 77, 2382-2394.	1.2	35

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19	Normal Left Ventricular Systolic and Diastolic Strain Rate Values in Children Derived from Two-Dimensional Speckle-Tracking Echocardiography. Journal of the American Society of Echocardiography, 2021, 34, 1303-1315.e3.	1.2	7
20	Nomenclature for Pediatric and Congenital Cardiac Care: Unification of Clinical and Administrative Nomenclature – The 2021 International Paediatric and Congenital Cardiac Code (IPCCC) and the Eleventh Revision of the International Classification of Diseases (ICD-11). World Journal for Pediatric & Congenital Heart Surgery, 2021, 12, E1-E18.	0.3	20
21	Nomenclature for Pediatric and Congenital Cardiac Care: Unification of Clinical and Administrative Nomenclature – The 2021 International Paediatric and Congenital Cardiac Code (IPCCC) and the Eleventh Revision of the International Classification of Diseases (ICD-11). Cardiology in the Young, 2021, 31, 1057-1188.	0.4	42
22	Valsartan in early-stage hypertrophic cardiomyopathy: a randomized phase 2 trial. Nature Medicine, 2021, 27, 1818-1824.	15.2	51
23	Association of Obesity With Adverse Long-term Outcomes in Hypertrophic Cardiomyopathy. JAMA Cardiology, 2020, 5, 65.	3.0	78
24	Left ventricular diastolic dysfunction in HIV-uninfected infants exposed in utero to antiretroviral therapy. Aids, 2020, 34, 529-537.	1.0	13
25	The Pediatric Heart Network Residual Lesion Score Study: Design and objectives. Journal of Thoracic and Cardiovascular Surgery, 2020, 160, 218-223.e1.	0.4	32
26	Association of Race With Disease Expression and Clinical Outcomes Among Patients With Hypertrophic Cardiomyopathy. JAMA Cardiology, 2020, 5, 83.	3.0	60
27	Longitudinal Variation in Presence and Severity of Cardiac Valve Regurgitation in Healthy Children. Journal of the American Society of Echocardiography, 2020, 33, 1400-1406.	1.2	6
28	Spatial and Functional Distribution of <i>MYBPC3</i> Pathogenic Variants and Clinical Outcomes in Patients With Hypertrophic Cardiomyopathy. Circulation Genomic and Precision Medicine, 2020, 13, 396-405.	1.6	47
29	A Validated Model for Sudden Cardiac Death Risk Prediction in Pediatric Hypertrophic Cardiomyopathy. Circulation, 2020, 142, 217-229.	1.6	129
30	Comparison of tissue Doppler imaging and conventional echocardiography to discriminate rejection from nonâ€rejection after pediatric heart transplantation. Pediatric Transplantation, 2020, 24, e13738.	0.5	3
31	Value of Exercise Stress Echocardiography in Children with Hypertrophic Cardiomyopathy. Journal of the American Society of Echocardiography, 2020, 33, 888-894.e2.	1.2	18
32	Challenges and lessons learned from the Pediatric Heart Network Normal Echocardiogram Database study. Cardiology in the Young, 2020, 30, 456-461.	0.4	3
33	Hypertrophic Cardiomyopathy With Left Ventricular Systolic Dysfunction. Circulation, 2020, 141, 1371-1383.	1.6	108
34	Dexrazoxane and heart function among long-term childhood cancer survivors: A Children's Oncology Group study Journal of Clinical Oncology, 2020, 38, 10513-10513.	0.8	2
35	Is Doppler echocardiography useful for estimating left ventricular filling pressures in pediatric heart transplant recipients?. Pediatric Transplantation, 2019, 23, e13543.	0.5	0
36	How Well Does the Neonatal Heart Measure Up?. Journal of the American Society of Echocardiography, 2019, 32, 906-908.	1.2	1

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37	Challenges With Left Ventricular Functional Parameters: The Pediatric Heart Network Normal Echocardiogram Database. Journal of the American Society of Echocardiography, 2019, 32, 1331-1338.e1.	1.2	20
38	Comparison of echocardiographic measurements to invasive measurements of diastolic function in infants with single ventricle physiology: a report from the Pediatric Heart Network Infant Single Ventricle Trial. Cardiology in the Young, 2019, 29, 1248-1256.	0.4	7
39	Quantitative approaches to variant classification increase the yield and precision of genetic testing in Mendelian diseases: the case of hypertrophic cardiomyopathy. Genome Medicine, 2019, 11, 5.	3.6	90
40	Response by Ho et al to Letter Regarding Article, "Genotype and Lifetime Burden of Disease in Hypertrophic Cardiomyopathy: Insights From the Sarcomeric Human Cardiomyopathy Registry (SHaRe)― Circulation, 2019, 139, 1559-1560.	1.6	4
41	Normal Values for Left Ventricular Strain and Synchrony in Children Based on Speckle Tracking Echocardiography. American Journal of Cardiology, 2019, 123, 1546-1554.	0.7	13
42	Strategies to prevent anthracycline-induced cardiotoxicity in cancer survivors. Cardio-Oncology, 2019, 5, 18.	0.8	87
43	Baseline Characteristics of the VANISH Cohort. Circulation: Heart Failure, 2019, 12, e006231.	1.6	10
44	Characterization of Left Ventricular Dysfunction by Myocardial Strain in Critical Pulmonary Stenosis and Pulmonary Atresia After Neonatal Pulmonary Valve Balloon Dilation. American Journal of Cardiology, 2019, 123, 454-459.	0.7	4
45	Long-Term Outcomes of Childhood Left Ventricular Noncompaction Cardiomyopathy. Circulation, 2018, 138, 367-376.	1.6	38
46	Long-Term Outcomes of Hypertrophic Cardiomyopathy Diagnosed During Childhood. Circulation, 2018, 138, 29-36.	1.6	74
47	Obstacles to prediction of outcome in pediatric cardiomyopathy. Progress in Pediatric Cardiology, 2018, 49, 9-11.	0.2	0
48	Adjunct Targeted Biologic Inhibition Agents to Treat Aggressive Multivessel Intraluminal Pediatric Pulmonary Vein Stenosis. Journal of Pediatrics, 2018, 198, 29-35.e5.	0.9	69
49	Prevalence and Progression of Late Gadolinium Enhancement in Children and Adolescents With Hypertrophic Cardiomyopathy. Circulation, 2018, 138, 782-792.	1.6	72
50	No Obesity Paradox in Pediatric Patients With Dilated Cardiomyopathy. JACC: Heart Failure, 2018, 6, 222-230.	1.9	14
51	Technical Performance Score Predicts Partial/Transitional Atrioventricular Septal Defect Outcomes. Annals of Thoracic Surgery, 2018, 105, 1461-1468.	0.7	18
52	Left Atrial Volumes and Strain in Healthy Children Measured by Three-Dimensional Echocardiography: Normal Values and Maturational Changes. Journal of the American Society of Echocardiography, 2018, 31, 187-193.e1.	1.2	29
53	Cardiac and inflammatory biomarkers in perinatally HIV-infected and HIV-exposed uninfected children. Aids, 2018, 32, 1267-1277.	1.0	14
54	Longitudinal Assessment of the Doppler-Estimated Maximum Gradient in Patients With Congenital Valvar Aortic Stenosis Pre- and Post-Balloon Valvuloplasty. Circulation: Cardiovascular Imaging, 2018, 11, e006708.	1.3	5

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55	Influence of Aortic Stiffness on Aortic-Root Growth Rate and Outcome in Patients With the Marfan Syndrome. American Journal of Cardiology, 2018, 121, 1094-1101.	0.7	30
56	Cardiac status of perinatally HIV-infected children. Aids, 2018, 32, 2337-2346.	1.0	8
57	Genotype and Lifetime Burden of Disease in Hypertrophic Cardiomyopathy. Circulation, 2018, 138, 1387-1398.	1.6	468
58	Classification of Ventricular Septal DefectsÂforÂthe Eleventh Iteration of the International Classification of Diseasesâ€"Striving for Consensus: A Report From the International Society for Nomenclature of Paediatric and Congenital Heart Disease. Annals of Thoracic Surgery, 2018, 106, 1578-1589.	0.7	97
59	Incident Atrial Fibrillation Is Associated With <i>MYH7</i> Sarcomeric Gene Variation in Hypertrophic Cardiomyopathy. Circulation: Heart Failure, 2018, 11, e005191.	1.6	46
60	Normal Values and Growth-Related Changes of Left Ventricular Volumes, Stress, and Strain in Healthy Children Measured by 3-Dimensional Echocardiography. American Journal of Cardiology, 2018, 122, 331-339.	0.7	11
61	Impact of Ventricular Morphology on Fiber Stress and Strain in Fontan Patients. Circulation: Cardiovascular Imaging, 2018, 11, e006738.	1.3	42
62	Left Atrial Size and Function in Patients With Congenital Aortic Valve Stenosis. American Journal of Cardiology, 2018, 122, 1541-1545.	0.7	7
63	Development and impact of arrhythmias after the Norwood procedure: A report from the Pediatric Heart Network. Journal of Thoracic and Cardiovascular Surgery, 2017, 153, 638-645.e2.	0.4	16
64	The Design of the Valsartan for Attenuating Disease Evolution in Early Sarcomeric Hypertrophic Cardiomyopathy (VANISH) Trial. American Heart Journal, 2017, 187, 145-155.	1.2	41
65	The Burden of Early Phenotypes and the Influence of Wall Thickness in Hypertrophic Cardiomyopathy Mutation Carriers. JAMA Cardiology, 2017, 2, 419.	3.0	50
66	Differences in Presentation and Outcomes Between Children With Familial Dilated Cardiomyopathy and Children With Idiopathic Dilated Cardiomyopathy. Circulation: Heart Failure, 2017, 10, .	1.6	30
67	Longitudinal Outcomes of PatientsÂWithÂSingle Ventricle AfterÂtheÂFontanÂProcedure. Journal of the American College of Cardiology, 2017, 69, 2735-2744.	1.2	200
68	Cardiac Effects of Highly Active Antiretroviral Therapy in Perinatally HIV-Infected Children. Journal of the American College of Cardiology, 2017, 70, 2240-2247.	1.2	24
69	Pediatric Cardiomyopathies. Circulation Research, 2017, 121, 855-873.	2.0	207
70	Biomarkers of cardiovascular stress and fibrosis in preclinical hypertrophic cardiomyopathy. Open Heart, 2017, 4, e000615.	0.9	22
71	Reproducibility of Left Ventricular Dimension Versus Area Versus Volume Measurements in Pediatric Patients With Dilated Cardiomyopathy. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	16
72	Survival Without Cardiac Transplantation Among Children With DilatedÂCardiomyopathy. Journal of the American College of Cardiology, 2017, 70, 2663-2673.	1.2	59

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73	Relationship of Echocardiographic <i>Z</i> Scores Adjusted for Body Surface Area to Age, Sex, Race, and Ethnicity. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	195
74	Effects of commonly used inotropes on myocardial function and oxygen consumption under constant ventricular loading conditions. Journal of Applied Physiology, 2016, 121, 7-14.	1.2	23
75	Systolic-diastolic functional coupling in healthy children and in those with dilated cardiomyopathy. Journal of Applied Physiology, 2016, 120, 1301-1318.	1.2	10
76	Evolution of hypertrophic cardiomyopathy in sarcomere mutation carriers. Heart, 2016, 102, 1805-1812.	1.2	37
77	Progressive intermediate-term improvement in ventricular and atrioventricular interaction after transcatheter pulmonary valve replacement in patients with right ventricular outflow tract obstruction. American Heart Journal, 2016, 179, 87-98.	1.2	5
78	Implementation of a Quality Improvement Bundle Improves Echocardiographic Imaging after Congenital Heart Surgery in Children. Journal of the American Society of Echocardiography, 2016, 29, 1163-1170.e3.	1.2	11
79	Rationale and design of the Children's Oncology Group (COG) study ALTE1621: a randomized, placebo-controlled trial to determine if low-dose carvedilol can prevent anthracycline-related left ventricular remodeling in childhood cancer survivors at high risk for developing heart failure. BMC Cardiovascular Disorders. 2016. 16. 187.	0.7	32
80	Multidimensional structure-function relationships in human \hat{l}^2 -cardiac myosin from population-scale genetic variation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6701-6706.	3.3	98
81	Aortic Stiffness in Youth with Hypertrophic Cardiomyopathy Genotype. Pediatric Cardiology, 2016, 37, 932-937.	0.6	0
82	Health-Related Quality of Life and Functional Status Are Associated with Cardiac Status and Clinical Outcome in Children with Cardiomyopathy. Journal of Pediatrics, 2016, 170, 173-180.e4.	0.9	15
83	Coronary Artery Aneurysm Measurement and Z Score Variability in Kawasaki Disease. Journal of the American Society of Echocardiography, 2016, 29, 150-157.	1.2	44
84	Left Atrial structure and function in hypertrophic cardiomyopathy sarcomere mutation carriers with and without left ventricular hypertrophy. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 107.	1.6	37
85	Review of the International Society for Heart and Lung Transplantation Practice guidelines for management of heart failure in children. Cardiology in the Young, 2015, 25, 154-159.	0.4	4
86	Summary of the 2015 International Paediatric Heart Failure Summit of Johns Hopkins All Children's Heart Institute. Cardiology in the Young, 2015, 25, 8-30.	0.4	9
87	Sudden Death in Childhood Cardiomyopathy. Journal of the American College of Cardiology, 2015, 65, 2302-2310.	1.2	106
88	Diltiazem Treatment for Pre-Clinical Hypertrophic Cardiomyopathy SarcomereÂMutation Carriers. JACC: Heart Failure, 2015, 3, 180-188.	1.9	137
89	Left Ventricular Strain and Myocardial Fibrosis inÂCongenital Aortic Stenosis. American Journal of Cardiology, 2015, 116, 1257-1262.	0.7	33
90	Cardiomyopathy Phenotypes and Outcomes for Children With Left Ventricular Myocardial Noncompaction: Results From the Pediatric Cardiomyopathy Registry. Journal of Cardiac Failure, 2015, 21, 877-884.	0.7	140

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91	Prevalence, predictors, and outcomes of cardiorenal syndrome in children with dilated cardiomyopathy: a report from the Pediatric Cardiomyopathy Registry. Pediatric Nephrology, 2015, 30, 2177-2188.	0.9	15
92	Correction of Doppler Gradients for Pressure Recovery Improves Agreement with Subsequent Catheterization Gradients in Congenital Aortic Stenosis. Journal of the American Society of Echocardiography, 2015, 28, 1410-1417.	1.2	14
93	Adrenergic receptor genotype influences heart failure severity and β-blocker response in children with dilated cardiomyopathy. Pediatric Research, 2015, 77, 363-369.	1.1	8
94	Carotid Artery Intima-Media Thickness Measurements in the Youth: Reproducibility and Technical Considerations. Journal of the American Society of Echocardiography, 2015, 28, 309-316.	1.2	14
95	Effect of L-type calcium channel blocker (amlodipine) on myocardial iron deposition in patients with thalassaemia with moderate-to-severe myocardial iron deposition: protocol for a randomised, controlled trial. BMJ Open, 2014, 4, e005360.	0.8	21
96	Technical Performance Scores are strongly associated with early mortality, postoperative adverse events, and intensive care unit length of stay—analysis of consecutive discharges for 2 years. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 389-396.e3.	0.4	60
97	Variability of M-Mode Versus Two-Dimensional Echocardiography Measurements in Children With Dilated Cardiomyopathy. Pediatric Cardiology, 2014, 35, 658-667.	0.6	32
98	Myocardial Extracellular Remodeling Is Associated With Ventricular Diastolic Dysfunction in Children and Young Adults With Congenital Aortic Stenosis. Journal of the American College of Cardiology, 2014, 63, 1778-1785.	1.2	79
99	Recovery of Echocardiographic Function in Children With Idiopathic Dilated Cardiomyopathy. Journal of the American College of Cardiology, 2014, 63, 1405-1413.	1.2	126
100	Ventricular mechanics in patients with aortic valve disease: longitudinal, radial, and circumferential components. Cardiology in the Young, 2014, 24, 105-112.	0.4	10
101	Vascular Health in Kawasaki Disease. Journal of the American College of Cardiology, 2013, 62, 1114-1121.	1.2	46
102	Risk stratification at diagnosis for children with hypertrophic cardiomyopathy: an analysis of data from the Pediatric Cardiomyopathy Registry. Lancet, The, 2013, 382, 1889-1897.	6.3	159
103	A Randomized, Double-Blind Trial of Lisinopril and Losartan for the Treatment of Cardiomyopathy in Duchenne Muscular Dystrophy. PLOS Currents, 2013, 5, .	1.4	42
104	Outcomes of Restrictive Cardiomyopathy in Childhood and the Influence of Phenotype. Circulation, 2012, 126, 1237-1244.	1.6	166
105	The Ventricular Volume Variability Study of the Pediatric Heart Network: Study Design and Impact of Beat Averaging and Variable Type on the Reproducibility of Echocardiographic Measurements in Children with Chronic Dilated Cardiomyopathy. Journal of the American Society of Echocardiography. 2012, 25, 842-854.e6.	1.2	93
106	Outcomes in children with Noonan syndrome and hypertrophic cardiomyopathy: A study from the Pediatric Cardiomyopathy Registry. American Heart Journal, 2012, 164, 442-448.	1.2	149
107	Diastolic function in children with Kawasaki Disease. International Journal of Cardiology, 2011, 148, 309-312.	0.8	30
108	A Prospective Phase II Trial of Vinblastine and Methotrexate in Multivessel Intraluminal Pulmonary Vein Stenosis in Infants and Children. Congenital Heart Disease, 2011, 6, 608-623.	0.0	46

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109	Hypertrophic Cardiomyopathy in Childhood. Heart Failure Clinics, 2010, 6, 433-444.	1.0	57
110	The Pediatric Cardiomyopathy Registry and Heart Failure: Key Results from the First 15 Years. Heart Failure Clinics, 2010, 6, 401-413.	1.0	175
111	Clinical issues in the pediatric hypertrophic cardiomyopathies. Progress in Pediatric Cardiology, 2008, 25, 27-29.	0.2	9
112	Contemporary Outcomes After the Fontan Procedure. Journal of the American College of Cardiology, 2008, 52, 85-98.	1.2	401
113	Epidemiology and Cause-Specific Outcome of Hypertrophic Cardiomyopathy in Children. Circulation, 2007, 115, 773-781.	1.6	412
114	Validation and Re-Evaluation of a Discriminant Model Predicting Anatomic Suitability for Biventricular Repair in Neonates With Aortic Stenosis. Journal of the American College of Cardiology, 2006, 47, 1858-1865.	1.2	156
115	Incidence, Causes, and Outcomes of Dilated Cardiomyopathy in Children. JAMA - Journal of the American Medical Association, 2006, 296, 1867.	3.8	829
116	Factors Associated With Establishing a Causal Diagnosis for Children With Cardiomyopathy. Pediatrics, 2006, 118, 1519-1531.	1.0	109
117	Theoretical and empirical derivation of cardiovascular allometric relationships in children. Journal of Applied Physiology, 2005, 99, 445-457.	1.2	446
118	The Incidence of Pediatric Cardiomyopathy in Two Regions of the United States. New England Journal of Medicine, 2003, 348, 1647-1655.	13.9	722
119	The risk of having additional obstructive lesions in neonatal coarctation of the aorta. Cardiology in the Young, 2001, 11, 44-53.	0.4	34
120	Design and implementation of the North American Pediatric Cardiomyopathy Registry. American Heart Journal, 2000, 139, s86-s95.	1.2	108
121	Abnormal myocardial mechanics in Kawasaki disease: Rapid response to [gamma]-globulin. American Heart Journal, 2000, 139, 0217-0223.	1.2	71
122	Impaired Glucose Transporter Activity in Pressure-Overload Hypertrophy Is an Early Indicator of Progression to Failure. Circulation, 1999, 100, .	1.6	7
123	Verapamil therapy in infants with hypertrophic cardiomyopathy. Cardiology in the Young, 1998, 8, 310-319.	0.4	37
124	Multipolar Endocardial Mapping of the Right Heart Using a Basket Catheter: Acute and Chronic Animal Studies. PACE - Pacing and Clinical Electrophysiology, 1997, 20, 51-59.	0.5	22
125	Intra-Atrial Reentrant Tachycardia After Palliation of Congenital Heart Disease: Journal of Cardiovascular Electrophysiology, 1997, 8, 259-270.	0.8	108
126	Control Mechanisms for Physiological Hypertrophy of Pregnancy. Circulation, 1996, 94, 667-672.	1.6	138

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127	Individual pulmonary vein size and survival in infants with totally anomalous pulmonary venous connection. Journal of the American College of Cardiology, 1993, 22, 201-206.	1.2	93
128	Noninvasive assessment of myocardial mechanics—a review of analysis of stress-shortening and stress-velocity. Cardiology in the Young, 1992, 2, 1-13.	0.4	31
129	Developmental modulation of myocardial mechanics: Age- and growth-related alterations in afterload and contractility. Journal of the American College of Cardiology, 1992, 19, 619-629.	1.2	266
130	Hemodynamic Measurements. , 0, , 63-75.		1