List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diagnostic Performance of Noninvasive Fractional Flow Reserve Derived From CoronaryÂComputed Tomography Angiography in Suspected Coronary Artery Disease. Journal of the American College of Cardiology, 2014, 63, 1145-1155.	1.2	1,240
2	Randomized Trial of Stents versus Bypass Surgery for Left Main Coronary Artery Disease. New England Journal of Medicine, 2011, 364, 1718-1727.	13.9	571
3	Mortality after coronary artery bypass grafting versus percutaneous coronary intervention with stenting for coronary artery disease: a pooled analysis of individual patient data. Lancet, The, 2018, 391, 939-948.	6.3	506
4	Duration of Dual Antiplatelet Therapy after Implantation of Drug-Eluting Stents. New England Journal of Medicine, 2010, 362, 1374-1382.	13.9	486
5	Impact of Intravascular Ultrasound Guidance on Long-Term Mortality in Stenting for Unprotected Left Main Coronary Artery Stenosis. Circulation: Cardiovascular Interventions, 2009, 2, 167-177.	1.4	452
6	Stents versus Coronary-Artery Bypass Grafting for Left Main Coronary Artery Disease. New England Journal of Medicine, 2008, 358, 1781-1792.	13.9	444
7	A Paclitaxel-Eluting Stent for the Prevention of Coronary Restenosis. New England Journal of Medicine, 2003, 348, 1537-1545.	13.9	429
8	Trial of Everolimus-Eluting Stents or Bypass Surgery for Coronary Disease. New England Journal of Medicine, 2015, 372, 1204-1212.	13.9	397
9	Sirolimus-eluting stent implantation for unprotected left main coronary artery stenosis. Journal of the American College of Cardiology, 2005, 45, 351-356.	1.2	388
10	Cryptogenic Stroke and High-Risk Patent Foramen Ovale. Journal of the American College of Cardiology, 2018, 71, 2335-2342.	1.2	388
11	Outcomes in Transcatheter Aortic Valve Replacement for Bicuspid Versus TricuspidÂAorticÂValve Stenosis. Journal of the American College of Cardiology, 2017, 69, 2579-2589.	1.2	356
12	In-Stent Neoatherosclerosis. Journal of the American College of Cardiology, 2012, 59, 2051-2057.	1.2	339
13	Randomized Trial of Stents VersusÂBypass Surgery for Left Main Coronary Artery Disease. Journal of the American College of Cardiology, 2015, 65, 2198-2206.	1.2	308
14	Long-term dual antiplatelet therapy for secondary prevention of cardiovascular events in the subgroup of patients with previous myocardial infarction: a collaborative meta-analysis of randomized trials. European Heart Journal, 2016, 37, ehv443.	1.0	293
15	Visual-Functional Mismatch Between Coronary Angiography and Fractional Flow Reserve. JACC: Cardiovascular Interventions, 2012, 5, 1029-1036.	1.1	262
16	Randomized Trial Evaluating Percutaneous Coronary Intervention for the Treatment of Chronic Total Occlusion. Circulation, 2019, 139, 1674-1683.	1.6	241
17	Incidence and Clinical Significance of Poststent Optical Coherence Tomography Findings. Circulation, 2015, 132, 1020-1029.	1.6	208
18	Meta-Analysis of Outcomes After Intravascular Ultrasound–Guided Versus Angiography-Guided Drug-Eluting Stent Implantation in 26,503 Patients Enrolled in Three Randomized Trials and 14 Observational Studies. American Journal of Cardiology, 2014, 113, 1338-1347.	0.7	193

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19	Transcatheter Aortic Valve Replacement With Early- and New-Generation Devices in Bicuspid Aortic Valve Stenosis. Journal of the American College of Cardiology, 2016, 68, 1195-1205.	1.2	177
20	Biodegradable-polymer drug-eluting stents vs. bare metal stents vs. durable-polymer drug-eluting stents: a systematic review and Bayesian approach network meta-analysis. European Heart Journal, 2014, 35, 1147-1158.	1.0	152
21	Left Main Coronary Artery Disease. Journal of the American College of Cardiology, 2016, 68, 1233-1246.	1.2	152
22	The East Asian Paradox: An Updated Position Statement on the Challenges to the Current Antithrombotic Strategy in Patients with Cardiovascular Disease. Thrombosis and Haemostasis, 2021, 121, 422-432.	1.8	149
23	Influence of Coronary Calcification on theÂDiagnostic Performance of CT Angiography Derived FFR in CoronaryÂArtery Disease. JACC: Cardiovascular Imaging, 2015, 8, 1045-1055.	2.3	145
24	Intravascular Ultrasound-Derived MinimalÂLumen Area Criteria for Functionally Significant Left Main CoronaryÂArtery Stenosis. JACC: Cardiovascular Interventions, 2014, 7, 868-874.	1.1	143
25	Fractional Flow Reserve and Cardiac Events in Coronary Artery Disease. Circulation, 2017, 135, 2241-2251.	1.6	143
26	Clinical Significance of Lipid-Rich PlaqueÂDetected by Optical CoherenceÂTomography. Journal of the American College of Cardiology, 2017, 69, 2502-2513.	1.2	142
27	Clinically Significant Bleeding With Ticagrelor Versus Clopidogrel in Korean Patients With Acute Coronary Syndromes Intended for Invasive Management. Circulation, 2019, 140, 1865-1877.	1.6	138
28	Ten-Year Outcomes After Drug-Eluting Stents Versus Coronary Artery Bypass Grafting for Left Main Coronary Disease. Circulation, 2020, 141, 1437-1446.	1.6	136
29	Continuum of Vasodilator Stress FromÂRest to Contrast Medium toÂAdenosine Hyperemia for FractionalÂFlow Reserve Assessment. JACC: Cardiovascular Interventions, 2016, 9, 757-767.	1.1	129
30	Drug-Eluting Stent for Left Main Coronary Artery Disease. JACC: Cardiovascular Interventions, 2012, 5, 718-727.	1.1	121
31	Paclitaxel-coated balloon angioplasty vs. drug-eluting stenting for the treatment of coronary in-stent restenosis: a comprehensive, collaborative, individual patient data meta-analysis of 10 randomized clinical trials (DAEDALUS study). European Heart Journal, 2020, 41, 3715-3728.	1.0	121
32	Redevelopment and validation of the SYNTAX score II to individualise decision making between percutaneous and surgical revascularisation in patients with complex coronary artery disease: secondary analysis of the multicentre randomised controlled SYNTAXES trial with external cohort validation. Lancet, The, 2020, 396, 1399-1412.	6.3	120
33	Stent Thrombosis With Drug-Eluting Stents and Bioresorbable Scaffolds. JACC: Cardiovascular Interventions, 2016, 9, 1203-1212.	1.1	118
34	Percutaneous coronary intervention with drug-eluting stents versus coronary artery bypass grafting in left main coronary artery disease: an individual patient data meta-analysis. Lancet, The, 2021, 398, 2247-2257.	6.3	115
35	Bleeding-Related Deaths in Relation to the Duration of Dual-Antiplatelet Therapy After Coronary Stenting. Journal of the American College of Cardiology, 2017, 69, 2011-2022.	1.2	109
36	Long-term (three-year) outcomes after stenting of unprotected left main coronary artery stenosis in patients with normal left ventricular function. American Journal of Cardiology, 2003, 91, 12-16.	0.7	108

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37	Racial Differences in Ischaemia/Bleeding Risk Trade-Off during Anti-Platelet Therapy: Individual Patient Level Landmark Meta-Analysis from Seven RCTs. Thrombosis and Haemostasis, 2019, 119, 149-162.	1.8	107
38	Optical coherence tomography in coronary atherosclerosis assessment and intervention. Nature Reviews Cardiology, 2022, 19, 684-703.	6.1	106
39	Duration of Dual Antiplatelet Therapy AfterÂCoronary Stenting. Journal of the American College of Cardiology, 2015, 66, 832-847.	1.2	105
40	Prognosis of Variant Angina Manifesting asÂAborted Sudden Cardiac Death. Journal of the American College of Cardiology, 2016, 68, 137-145.	1.2	102
41	Relation of Fragmented QRS Complex to Right Ventricular Fibrosis Detected by Late Gadolinium Enhancement Cardiac Magnetic Resonance in Adults With Repaired Tetralogy of Fallot. American Journal of Cardiology, 2012, 109, 110-115.	0.7	99
42	Outcomes After Percutaneous Coronary Intervention or Bypass Surgery in Patients With Unprotected Left Main Disease. Journal of the American College of Cardiology, 2016, 68, 999-1009.	1.2	95
43	Comparison of Stenting Versus Bypass Surgery According to the Completeness of Revascularization in Severe Coronary Artery Disease. JACC: Cardiovascular Interventions, 2017, 10, 1415-1424.	1.1	95
44	Drug-Coated Balloon Angioplasty Versus Drug-Eluting Stent Implantation in Patients With Coronary Stent Restenosis. Journal of the American College of Cardiology, 2020, 75, 2664-2678.	1.2	93
45	Compliance With Guideline-Directed Medical Therapy in Contemporary CoronaryÂRevascularization Trials. Journal of the American College of Cardiology, 2018, 71, 591-602.	1.2	92
46	Diagnostic performance of on-site CT-derived fractional flow reserve versus CT perfusion. European Heart Journal Cardiovascular Imaging, 2017, 18, 432-440.	0.5	90
47	Stroke Rates Following Surgical Versus Percutaneous Coronary Revascularization. Journal of the American College of Cardiology, 2018, 72, 386-398.	1.2	89
48	Long-Term Safety and Effectiveness of Unprotected Left Main Coronary Stenting With Drug-Eluting Stents Compared With Bare-Metal Stents. Circulation, 2009, 120, 400-407.	1.6	85
49	Trends in the outcomes of percutaneous coronary intervention with the routine incorporation of fractional flow reserve in real practice. European Heart Journal, 2013, 34, 3353-3361.	1.0	80
50	Clinical outcomes with percutaneous coronary revascularization vs coronary artery bypass grafting surgery in patients with unprotected left main coronary artery disease: A meta-analysis of 6 randomized trials and 4,686 patients. American Heart Journal, 2017, 190, 54-63.	1.2	78
51	Impact of the SYNTAX scores I and II in patients with diabetes and multivessel coronary disease: a pooled analysis of patient level data from the SYNTAX, PRECOMBAT, and BEST trials. European Heart Journal, 2017, 38, 1969-1977.	1.0	76
52	Long-Term Clinical Outcomes After Percutaneous Coronary Intervention for Ostial/Mid-Shaft Lesions Versus Distal Bifurcation Lesions in Unprotected LeftÂMain Coronary Artery. JACC: Cardiovascular Interventions, 2013, 6, 1242-1249.	1.1	75
53	Successful Recanalization of Native Coronary Chronic Total Occlusion IsÂNotÂAssociated With Improved Long-Term Survival. JACC: Cardiovascular Interventions, 2016, 9, 530-538.	1.1	75
54	Pancoronary plaque vulnerability in patients with acute coronary syndrome and ruptured culprit plaque: A 3-vessel optical coherence tomography study. American Heart Journal, 2014, 167, 59-67.	1.2	74

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55	Randomized Comparisons Between Different Stenting Approaches for Bifurcation Coronary Lesions With orÂWithout Side Branch Stenosis. JACC: Cardiovascular Interventions, 2015, 8, 550-560.	1.1	74
56	10-Year Outcomes of Stents Versus Coronary Artery Bypass Grafting for LeftÂMainÂCoronaryÂArtery Disease. Journal of the American College of Cardiology, 2018, 72, 2813-2822.	1.2	69
57	Clinical features, predictors, and longâ€ŧerm prognosis of pacingâ€induced cardiomyopathy. European Journal of Heart Failure, 2019, 21, 643-651.	2.9	69
58	Clinical Outcomes Following TranscatheterÂAortic Valve ReplacementÂinÂAsian Population. JACC: Cardiovascular Interventions, 2016, 9, 926-933.	1.1	67
59	Integrated Myocardial Perfusion Imaging Diagnostics Improve Detection of Functionally Significant Coronary Artery Stenosis by ¹³ N-ammonia Positron Emission Tomography. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	67
60	Impact of design of coronary stents and length of dual antiplatelet therapies on ischaemic and bleeding events: a network meta-analysis of 64 randomized controlled trials and 102 735 patients. European Heart Journal, 2017, 38, 3160-3172.	1.0	66
61	Differential Rates and Clinical Significance of Periprocedural Myocardial Infarction After Stenting or Bypass Surgery forÂMultivessel Coronary Disease According to Various Definitions. JACC: Cardiovascular Interventions, 2017, 10, 1498-1507.	1.1	64
62	Deep learning segmentation of major vessels in X-ray coronary angiography. Scientific Reports, 2019, 9, 16897.	1.6	64
63	Effect of Statin Treatment on ModifyingÂPlaque Composition. Journal of the American College of Cardiology, 2016, 67, 1772-1783.	1.2	63
64	Technical feasibility, safety, and clinical outcome of stenting of unprotected left main coronary artery bifurcation narrowing. American Journal of Cardiology, 2002, 90, 374-378.	0.7	60
65	Rationale and design of the Fractional Flow Reserve versus Angiography for Multivessel Evaluation (FAME) 3 Trial: A comparison of fractional flow reserve–guided percutaneous coronary intervention and coronary artery bypass graft surgery in patients with multivessel coronary artery disease. American Heart Journal 2015, 170, 619-626, e2	1.2	58
66	Percutaneous Coronary Intervention With Stent Implantation Versus Coronary Artery Bypass Surgery for Treatment of Left Main Coronary Artery Disease. Circulation: Cardiovascular Interventions, 2009, 2, 59-68.	1.4	57
67	Meta-Analysis of the Duration of Dual Antiplatelet Therapy in Patients Treated With Second-Generation Drug-Eluting Stents. American Journal of Cardiology, 2016, 117, 1714-1723.	0.7	57
68	Stress Myocardial Perfusion CT in Patients Suspected of Having Coronary Artery Disease: Visual and Quantitative Analysis—Validation by Using Fractional Flow Reserve. Radiology, 2015, 276, 715-723.	3.6	56
69	Prevalence and Clinical Implications of Newly Revealed, Asymptomatic Abnormal Ankle-Brachial Index in Patients With Significant Coronary Artery Disease. JACC: Cardiovascular Interventions, 2013, 6, 1303-1313.	1.1	54
70	Long-Term Mortality After Coronary Revascularization in Nondiabetic Patients With Multivessel Disease. Journal of the American College of Cardiology, 2016, 68, 29-36.	1.2	52
71	Long-term outcomes of minor plaque prolapsed within stents documented with intravascular ultrasound. Catheterization and Cardiovascular Interventions, 2000, 51, 22-26.	0.7	51
72	Determinants and Prognostic Significance of Periprocedural Myocardial Injury in Patients With Successful Percutaneous Chronic Total Occlusion Interventions. JACC: Cardiovascular Interventions, 2016, 9, 2220-2228.	1.1	50

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73	Predictive factors of discordance between the instantaneous waveâ€free ratio and fractional flow reserve. Catheterization and Cardiovascular Interventions, 2019, 94, 356-363.	0.7	49
74	Comparison of Outcome of Coronary Artery Bypass Grafting Versus Drug-Eluting Stent Implantation for Non–ST-Elevation Acute Coronary Syndrome. American Journal of Cardiology, 2017, 120, 380-386.	0.7	48
75	Model for Assessing Cardiovascular Risk in a Korean Population. Circulation: Cardiovascular Quality and Outcomes, 2014, 7, 944-951.	0.9	45
76	Long-Term Clinical Outcomes After Percutaneous Coronary Intervention Versus Coronary Artery Bypass Grafting for Ostial/Midshaft Lesions in Unprotected Left Main Coronary Artery From the DELTA Registry. JACC: Cardiovascular Interventions, 2014, 7, 354-361.	1.1	45
77	Individual Long-Term Mortality PredictionÂFollowing Either Coronary Stenting orÂBypass Surgery in PatientsÂWith Multivessel and/or Unprotected Left MainÂDisease. JACC: Cardiovascular Interventions, 2016, 9, 1564-1572.	1.1	45
78	Validation of Functional State of Coronary Tandem Lesions Using Computational Flow Dynamics. American Journal of Cardiology, 2012, 110, 1578-1584.	0.7	44
79	Comparison of gold-coated NIR stents with uncoated NIR stents in patients with coronary artery disease. American Journal of Cardiology, 2002, 89, 872-875.	0.7	43
80	Prevalence, Management, and Long-Term (6-Year) Outcomes of AtrialÂFibrillation Among Patients Receiving Drug-Eluting Coronary Stents. JACC: Cardiovascular Interventions, 2017, 10, 1075-1085.	1.1	43
81	Agreement of the Resting Distal toÂAorticÂCoronary Pressure With theÂInstantaneous Wave-Free Ratio. Journal of the American College of Cardiology, 2017, 70, 2105-2113.	1.2	43
82	Paradigm Shift to Functional Angioplasty. Circulation, 2011, 124, 951-957.	1.6	42
83	Coronary Computed Tomographic Angiographic Findings in Asymptomatic Patients With Type 2 Diabetes Mellitus. American Journal of Cardiology, 2014, 113, 765-771.	0.7	42
84	Coronary Artery Bypass Surgery VersusÂDrug-Eluting Stent Implantation forÂLeftÂMain or Multivessel Coronary ArteryÂDisease. JACC: Cardiovascular Interventions, 2016, 9, 2481-2489.	1.1	42
85	Transvenous Extraction of Pacemaker and Defibrillator Leads and the RiskÂofÂTricuspid Valve Regurgitation. JACC: Clinical Electrophysiology, 2018, 4, 1421-1428.	1.3	42
86	Prognostic Significance of Cerebral Metabolic Abnormalities in Patients With Congestive Heart Failure. Circulation, 2001, 103, 2784-2787.	1.6	41
87	Temporal Trends in Revascularization Strategy and Outcomes in Left Main Coronary Artery Stenosis. Circulation: Cardiovascular Interventions, 2015, 8, e001846.	1.4	38
88	Deferred vs. performed revascularization for coronary stenosis with grey-zone fractional flow reserve values: data from the IRIS-FFR registry. European Heart Journal, 2018, 39, 1610-1619.	1.0	38
89	Safety and Effectiveness of Second-Generation Drug-Eluting Stents inÂPatients With Left Main CoronaryÂArteryÂDisease. Journal of the American College of Cardiology, 2018, 71, 832-841. 	1.2	37
90	Edoxaban Versus Dual Antiplatelet Therapy for Leaflet Thrombosis and Cerebral Thromboembolism After TAVR: The ADAPT-TAVR Randomized Clinical Trial. Circulation, 2022, 146, 466-479.	1.6	37

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91	Novel application of breath-hold turbo spin-echo T2 MRI for detection of acute myocardial infarction. Journal of Magnetic Resonance Imaging, 1997, 7, 996-1001.	1.9	36
92	Nutritional status and risk of all-cause mortality in patients undergoing transcatheter aortic valve replacement assessment using the geriatric nutritional risk index and the controlling nutritional status score. Clinical Research in Cardiology, 2020, 109, 161-171.	1.5	36
93	Electrophysiologic Results After Thoracoscopic Ablation for Chronic Atrial Fibrillation. Annals of Thoracic Surgery, 2015, 100, 1595-1603.	0.7	34
94	Machine learning assessment of myocardial ischemia using angiography: Development and retrospective validation. PLoS Medicine, 2018, 15, e1002693.	3.9	34
95	Comparison of Biolimus A9–Eluting (Nobori) and Everolimus-Eluting (Promus Element) Stents in Patients With De Novo Native Long Coronary Artery Lesions. Circulation: Cardiovascular Interventions, 2014, 7, 322-329.	1.4	32
96	Short- and long-term outcomes depending on electrical dyssynchrony markers in patients presenting with acute heart failure. American Heart Journal, 2013, 165, 57-64.e2.	1.2	31
97	Comparison of Aortic Root Anatomy and Calcification Distribution Between Asian and Caucasian Patients Who Underwent Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2015, 116, 1566-1573.	0.7	31
98	Geographical Difference of the Interaction of Sex With Treatment Strategy in Patients With Multivessel Disease and Left Main Disease. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	31
99	Efficacy and Safety of Stents in ST-Segment Elevation Myocardial Infarction. Journal of the American College of Cardiology, 2019, 74, 2572-2584.	1.2	31
100	Revascularization Deferral of Nonculprit Stenoses on the Basis of Fractional Flow Reserve. JACC: Cardiovascular Interventions, 2020, 13, 1894-1903.	1.1	31
101	Predictors of diffuse-type in-stent restenosis after coronary stent implantation. Catheterization and Cardiovascular Interventions, 1999, 47, 406-409.	0.7	30
102	Fragmented QRS Complex in Adult Patients With Ebstein Anomaly and Its Association With Arrhythmic Risk and the Severity of the Anomaly. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 1148-1155.	2.1	30
103	Relationship Between Serum Inflammatory Marker Levels and the Dynamic Changes in Coronary Plaque Characteristics After Statin Therapy. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	30
104	Comparison of drug-eluting stents and drug-coated balloon for the treatment of drug-eluting coronary stent restenosis: A randomized RESTORE trial. American Heart Journal, 2018, 197, 35-42.	1.2	30
105	Intravascular ultrasound-based machine learning for predicting fractional flow reserve in intermediate coronary artery lesions. Atherosclerosis, 2020, 292, 171-177.	0.4	30
106	Stent placement for ostial left anterior descending coronary artery stenosis: Acute and long-term (2-year) results. Catheterization and Cardiovascular Interventions, 2000, 49, 267-271.	0.7	29
107	Meta-Analysis of Oral Anticoagulant Monotherapy as an Antithrombotic Strategy in Patients With Stable Coronary Artery Disease and Nonvalvular Atrial Fibrillation. American Journal of Cardiology, 2019, 124, 879-885.	0.7	29
108	Complete versus incomplete revascularization in patients with multivessel coronary artery disease treated with drug-eluting stents. American Heart Journal, 2016, 179, 157-165.	1.2	28

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109	Feasibility of dynamic stress 201Tl/rest 99mTc-tetrofosmin single photon emission computed tomography for quantification of myocardial perfusion reserve in patients with stable coronary artery disease. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 2173-2180.	3.3	28
110	Optimal Stenting Technique for ComplexÂCoronary Lesions. JACC: Cardiovascular Interventions, 2020, 13, 1403-1413.	1.1	28
111	Fractional flow reserve and pressure-bounded coronary flow reserve to predict outcomes in coronary artery disease. European Heart Journal, 2017, 38, 1980-1989.	1.0	27
112	Coronary CT angiography characteristics of OCT-defined thin-cap fibroatheroma: a section-to-section comparison study. European Radiology, 2018, 28, 833-843.	2.3	27
113	Diagnostic and Prognostic Value of Ergonovine Echocardiography for Noninvasive Diagnosis of Coronary Vasospasm. JACC: Cardiovascular Imaging, 2020, 13, 1875-1887.	2.3	27
114	Computing Methods for Composite ClinicalÂEndpoints in Unprotected Left Main Coronary Artery Revascularization. JACC: Cardiovascular Interventions, 2016, 9, 2280-2288.	1.1	26
115	Incremental Value of Subtended Myocardial Mass for Identifying FFR-Verified Ischemia Using QuantitativeÂCT Angiography. JACC: Cardiovascular Imaging, 2019, 12, 707-717.	2.3	26
116	Prediction of Coronary Stent Underexpansion by Pre-Procedural IntravascularÂUltrasound–Based DeepÂLearning. JACC: Cardiovascular Interventions, 2021, 14, 1021-1029.	1.1	26
117	Comparison of Outcomes of Coronary Artery Bypass Grafting Versus Drug-Eluting Stent Implantation in Patients With Severe Left Ventricular Dysfunction. American Journal of Cardiology, 2017, 120, 69-74.	0.7	24
118	Impact of Coronary Lesion Geometry on Fractional Flow Reserve. Circulation: Cardiovascular Imaging, 2018, 11, e007087.	1.3	24
119	Revascularization in Patients With Left Main Coronary Artery Disease and Left Ventricular Dysfunction. Journal of the American College of Cardiology, 2020, 76, 1395-1406.	1.2	24
120	Percutaneous Coronary Intervention of Left Main Disease. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	23
121	Impact of Valve Replacement on Long-Term Survival in Asymptomatic Patients With Severe Aortic Stenosis. American Journal of Cardiology, 2019, 123, 1321-1328.	0.7	23
122	Intravascular ultrasound-based deep learning for plaque characterization in coronary artery disease. Atherosclerosis, 2021, 324, 69-75.	0.4	23
123	Thalidomide as a Potent Inhibitor of Neointimal Hyperplasia After Balloon Injury in Rat Carotid Artery. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 885-891.	1.1	22
124	Association of Lipoprotein(a) With Recurrent Ischemic Events Following Percutaneous Coronary Intervention. JACC: Cardiovascular Interventions, 2021, 14, 2059-2068.	1.1	22
125	Unprotected Left Main Percutaneous Coronary Intervention: Integrated Use of Fractional Flow Reserve and Intravascular Ultrasound. Journal of the American Heart Association, 2012, 1, e004556.	1.6	21
126	Prognostic value of comprehensive intracoronary physiology assessment early after heart transplantation. European Heart Journal, 2021, 42, 4918-4929.	1.0	21

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127	Characteristics of Earlier Versus Delayed Presentation of Very Late Drugâ€Eluting Stent Thrombosis: An Optical Coherence Tomographic Study. Journal of the American Heart Association, 2017, 6, .	1.6	20
128	Long-Term Outcomes After PCI or CABC for Left Main Coronary Artery Disease According to Lesion Location. JACC: Cardiovascular Interventions, 2020, 13, 2825-2836.	1.1	20
129	Impact of SYNTAX Score on 10-Year Outcomes After Revascularization for Left Main Coronary Artery Disease. JACC: Cardiovascular Interventions, 2020, 13, 361-371.	1.1	20
130	Comparison of Plain Balloon and Cutting Balloon Angioplasty for the Treatment of Restenosis With Drug-Eluting Stents vs Bare Metal Stents. Circulation Journal, 2010, 74, 1837-1845.	0.7	19
131	Asymptomatic ventricular premature depolarizations are not necessarily benign. Europace, 2016, 18, 881-887.	0.7	19
132	Risk factor algorithm used to predict frequent premature ventricular contraction-induced cardiomyopathy. International Journal of Cardiology, 2017, 233, 37-42.	0.8	19
133	Coronary bypass surgery versus stenting in multivessel disease involving the proximal left anterior descending coronary artery. Heart, 2017, 103, 428-433.	1.2	19
134	Full Metal Jacket With Drug-Eluting Stents for Coronary Chronic Total Occlusion. JACC: Cardiovascular Interventions, 2017, 10, 1405-1412.	1.1	19
135	Computed Tomography Features of Cuspal Thrombosis and Subvalvular Tissue Ingrowth after Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2020, 125, 597-606.	0.7	19
136	Current Status of Percutaneous Coronary Intervention With Drug-Eluting Stents in Asia. Circulation, 2008, 118, 2730-2737.	1.6	18
137	Comparison of Neoatherosclerosis and Neovascularization Between Patients WithÂand Without Diabetes. JACC: Cardiovascular Interventions, 2015, 8, 1044-1052.	1.1	18
138	Differential Event Rates and Independent Predictors of Long-Term Major Cardiovascular Events and Death in 5795 Patients With Unprotected Left Main Coronary Artery Disease Treated With Stents, Bypass Surgery, or Medication. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	18
139	Incidence, Predictors, Management, and Clinical Significance of New-Onset Atrial Fibrillation After Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2019, 123, 1127-1133.	0.7	18
140	Subclinical Atrial Fibrillation Burden and Adverse Clinical Outcomes in Patients With Permanent Pacemakers. Stroke, 2021, 52, 1299-1308.	1.0	18
141	Long-term outcomes after renal denervation in an Asian population: results from the Global SYMPLICITY Registry in South Korea (GSR Korea). Hypertension Research, 2021, 44, 1099-1104.	1.5	18
142	Sex difference in clinical outcomes after percutaneous coronary intervention in Korean population. American Heart Journal, 2014, 167, 743-752.	1.2	17
143	Sex differences in left main coronary artery stenting: Different characteristics but similar outcomes for women compared with men. International Journal of Cardiology, 2018, 253, 50-54.	0.8	17
144	Percutaneous Coronary Intervention forÂLeft Main Coronary Artery Disease. JACC Asia, 2022, 2, 119-138.	0.5	17

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145	Impact of the Angiographic Mechanisms Underlying Periprocedural Myocardial Infarction After Drug-Eluting Stent Implantation. American Journal of Cardiology, 2014, 113, 1105-1110.	0.7	16
146	Impact of exercise-based cardiac rehabilitation on long-term clinical outcomes in patients with left main coronary artery stenosis. European Journal of Preventive Cardiology, 2016, 23, 1804-1813.	0.8	16
147	Comparison of Accuracy of One-Use Methods for Calculating Fractional Flow Reserve by Intravascular Optical Coherence Tomography to That Determined by the Pressure-Wire Method. American Journal of Cardiology, 2017, 120, 1920-1925.	0.7	16
148	Prediction of coronary thin-cap fibroatheroma by intravascular ultrasound-based machine learning. Atherosclerosis, 2019, 288, 168-174.	0.4	16
149	Percutaneous coronary intervention in left main disease: SYNTAX, PRECOMBAT, EXCEL and NOBLE—combined cardiology and cardiac surgery perspective. Annals of Cardiothoracic Surgery, 2018, 7, 521-526.	0.6	15
150	Diabetes in Myocardial Revascularization for Left Main Coronary Artery Disease. Journal of the American College of Cardiology, 2019, 73, 1629-1632.	1.2	15
151	Comparison of Percutaneous Coronary Intervention (With Drug-Eluting Stents) Versus Coronary Artery Bypass Grafting in Women With Severe Narrowing of the Left Main Coronary Artery (from the) Tj ETQq1 1 Cardiology 2014 113 1348-1355	0.784314	rgBT /Overlo
152	Efficacy of Dronedarone Versus Propafenone in the Maintenance of Sinus Rhythm in Patients With Atrial Fibrillation After Electrical Cardioversion. Clinical Therapeutics, 2014, 36, 1169-1175.	1.1	14
153	Long-term Prognosis of Paroxysmal Atrial Fibrillation and Predictors for Progression to Persistnt or Chronic Atrial Fibrillation in the Korean Population. Journal of Korean Medical Science, 2015, 30, 895.	1.1	14
154	Coronary Artery Bypass Grafting Versus Drug-Eluting Stents Implantation for Previous Myocardial Infarction. American Journal of Cardiology, 2016, 118, 17-22.	0.7	14
155	Paced QT interval as a risk factor for new-onset left ventricular systolic dysfunction and cardiac death after permanent pacemaker implantation. International Journal of Cardiology, 2016, 203, 158-163.	0.8	14
156	Coronary Artery Bypass Grafting vs. Drug-Eluting Stent Implantation for Multivessel Disease in Patients with Chronic Kidney Disease. Korean Circulation Journal, 2017, 47, 354.	0.7	14
157	Which antiarrhythmic drug to choose after electrical cardioversion: A study on non-valvular atrial fibrillation patients. PLoS ONE, 2018, 13, e0197352.	1.1	14
158	Prognostic Value of Baseline Sarcopenia on 1-year Mortality in Patients Undergoing Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2021, 139, 79-86.	0.7	14
159	Long-Term Clinical Impact of Intravascular Ultrasound Guidance in Stenting for Left Main Coronary Artery Disease. Circulation: Cardiovascular Interventions, 2021, 14, e011011.	1.4	14
160	Side-branch occlusion after rotational atherectomy of in-stent restenosis: Incidence, predictors, and clinical significance. Catheterization and Cardiovascular Interventions, 2000, 50, 406-410.	0.7	13
161	Should we be using fractional flow reserve more routinely to select stable coronary patients for percutaneous coronary intervention?. Current Opinion in Cardiology, 2012, 27, 675-681.	0.8	13
162	Impact of participation in phase I and phase II cardiac rehabilitation on long-term survival after coronary artery bypass graft surgery. International Journal of Cardiology, 2014, 176, 1429-1432.	0.8	13

#	Article	IF	CITATIONS
163	Early Parasympathetic Reinnervation Is Not Related to Reconnection of Major Branches of the Vagus Nerve after Heart Transplantation. Korean Circulation Journal, 2016, 46, 197.	0.7	13
164	Similar Impact of Clopidogrel or Ticagrelor on Carotid Atherosclerotic Plaque Inflammation. Clinical Cardiology, 2016, 39, 646-652.	0.7	13
165	Risk of New Native-Vessel Occlusion After Coronary Artery Bypass Grafting. American Journal of Cardiology, 2017, 119, 7-13.	0.7	13
166	Comparison of 1-Year Outcomes of Triple (Aspirin + Clopidogrel + Cilostazol) Versus Dual Antip Therapy (Aspirin + Clopidogrel + Placebo) After Implantation of Second-Generation Drug-Eluting into One or More Coronary Arteries: from the DECREASE-PCI Trial. American Journal of Cardiology, 2018, 121, 423-429.	latelet g Stents 0.7	13
167	Effect of Age and Sex on Outcomes After Stenting or Bypass Surgery in Left Main Coronary Artery Disease. American Journal of Cardiology, 2019, 124, 678-687.	0.7	13
168	Exploring unknowns in cardiology. Nature Reviews Cardiology, 2014, 11, 664-670.	6.1	12
169	Benefit of Final Kissing Balloon Inflation Mandatory After Simple Crossover Stenting for Left Main Bifurcation Narrowing. American Journal of Cardiology, 2017, 119, 528-534.	0.7	12
170	Hemodynamic parameters and baroreflex sensitivity during headâ€up tilt test in patients with neurally mediated syncope. PACE - Pacing and Clinical Electrophysiology, 2017, 40, 1454-1461.	0.5	12
171	Sex Differences in Adenosine-Free Coronary Pressure Indexes. JACC: Cardiovascular Interventions, 2018, 11, 1454-1463.	1.1	12
172	Impact of Subtended Myocardial Mass Assessed by Coronary Computed Tomographic Angiography-Based Myocardial Segmentation. American Journal of Cardiology, 2019, 123, 757-763.	0.7	12
173	Impact of coronary calcium score and lesion characteristics on the diagnostic performance of machine-learning-based computed tomography-derived fractional flow reserve. European Heart Journal Cardiovascular Imaging, 2021, 22, 998-1006.	0.5	12
174	Differential cutoff points and clinical impact of stent parameters of various drug-eluting stents for predicting major adverse clinical events: An individual patient data pooled analysis of seven stent-specific registries and 17,068 patients. International Journal of Cardiology, 2019, 282, 17-23.	0.8	12
175	Readmission Rate After Coronary Artery Bypass Grafting Versus Percutaneous Coronary Intervention for Unprotected Left Main Coronary Artery Narrowing. American Journal of Cardiology, 2014, 113, 1639-1646.	0.7	11
176	Heart rate turbulence for predicting new-onset atrial fibrillation in patients undergoing coronary artery bypass grafting. International Journal of Cardiology, 2014, 174, 579-585.	0.8	11
177	Cardiac Resynchronization Therapy and QRS Duration: Systematic Review, Meta-analysis, and Meta-regression. Journal of Korean Medical Science, 2015, 30, 24.	1.1	11
178	Stent fracture and longitudinal compression detected on coronary CT angiography in the first- and new-generation drug-eluting stents. International Journal of Cardiovascular Imaging, 2016, 32, 637-646.	0.7	11
179	Outcomes of Coronary Artery Bypass Graft Surgery Versus Drugâ€Eluting Stents in Older Adults. Journal of the American Geriatrics Society, 2017, 65, 625-630.	1.3	11
180	Impact of Multivessel Coronary Artery Disease With Versus Without Left Main Coronary Artery Disease on Long-Term Mortality After Coronary Bypass Grafting Versus Drug-Eluting Stent Implantation. American Journal of Cardiology, 2017, 119, 225-230.	0.7	11

#	Article	IF	CITATIONS
181	Left main stenting: is it a different animal?. EuroIntervention, 2010, 6, J112-J117.	1.4	11
182	Intravascular ultrasound analysis of beta radiation therapy for diffuse in-stent restenosis to inhibit intimal hyperplasia. Catheterization and Cardiovascular Interventions, 2001, 54, 169-173.	0.7	10
183	Clinical Characteristics and Features of Frequent Idiopathic Ventricular Premature Complexes in the Korean Population. Korean Circulation Journal, 2015, 45, 391.	0.7	10
184	Coupling Interval Ratio Is Associated with Ventricular Premature Complex-Related Symptoms. Korean Circulation Journal, 2015, 45, 294.	0.7	10
185	Practical based approach to left main bifurcation stenting. BMC Cardiovascular Disorders, 2016, 16, 49.	0.7	10
186	Long-term outcomes of bypass grafting versus drug-eluting stenting for left main coronary artery disease: Results from the IRIS-MAIN registry. American Heart Journal, 2017, 193, 76-83.	1.2	10
187	Staged hybrid procedure versus radiofrequency catheter ablation in the treatment of atrial fibrillation. PLoS ONE, 2018, 13, e0205431.	1.1	10
188	Relation of Body Mass Index to Risk of Death or Stroke in Patients Who Underwent Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2019, 123, 638-643.	0.7	10
189	Gender differences of in-hospital outcomes in patients undergoing percutaneous coronary intervention in the drug-eluting stent era. Medicine (United States), 2019, 98, e15557.	0.4	10
190	Usefulness of Postprocedural Electrophysiological Confirmation Upon Totally Thoracoscopic Ablation in Persistent Atrial Fibrillation. American Journal of Cardiology, 2020, 125, 1054-1062.	0.7	10
191	Impact of Cardiac Rehabilitation on Angiographic Outcomes After Drug-Eluting Stents in Patients With De Novo Long Coronary Artery Lesions. American Journal of Cardiology, 2014, 113, 1977-1985.	0.7	9
192	Trends in Outcomes of Revascularization for Left Main Coronary Disease or Three-Vessel Disease With the Routine Incorporation of Fractional Flow Reserve in Real Practice. American Journal of Cardiology, 2015, 116, 1163-1171.	0.7	9
193	Anatomic or Functional Evaluation as an Initial Test for Stable Coronary Artery Disease: A Propensity Score Analysis. Journal of Nuclear Medicine, 2016, 57, 1364-1369.	2.8	9
194	Multimodality imaging of attenuated plaque using grayscale and virtual histology intravascular ultrasound and optical coherent tomography. Catheterization and Cardiovascular Interventions, 2016, 88, E1-E11.	0.7	9
195	Impact of coronary lumen reconstruction on the estimation of endothelial shear stress: in vivo comparison of three-dimensional quantitative coronary angiography and three-dimensional fusion combining optical coherent tomography. European Heart Journal Cardiovascular Imaging, 2018, 19, 1134-1141	0.5	9
196	Comparison of Fimasartan and Amlodipine Therapy on Carotid Atherosclerotic Plaque Inflammation. Clinical Cardiology, 2018, 42, 241-246.	0.7	9
197	Percutaneous Coronary Intervention and Coronary Artery Bypass Grafting for the Treatment of Left Main Coronary Artery Disease. Korean Circulation Journal, 2019, 49, 369.	0.7	9
198	Semi-quantitative versus quantitative assessments of late gadolinium enhancement extent for predicting spontaneous ventricular tachyarrhythmia events in patients with hypertrophic cardiomyopathy. Scientific Reports, 2020, 10, 2920.	1.6	9

#	Article	IF	CITATIONS
199	Rationale and design of the ADAPT-TAVR trial: a randomised comparison of edoxaban and dual antiplatelet therapy for prevention of leaflet thrombosis and cerebral embolisation after transcatheter aortic valve replacement. BMJ Open, 2021, 11, e042587.	0.8	9
200	Association of aortic valvular complex calcification burden with procedural and long-term clinical outcomes after transcatheter aortic valve replacement. European Heart Journal Cardiovascular Imaging, 2022, 23, 1502-1510.	0.5	9
201	Racial Differences in the Incidence and Impact of Prosthesis-Patient MismatchÂAfter Transcatheter AorticÂValve Replacement. JACC: Cardiovascular Interventions, 2021, 14, 2670-2681.	1.1	9
202	Microcirculatory Resistance Predicts Allograft Rejection and Cardiac Events After Heart Transplantation. Journal of the American College of Cardiology, 2021, 78, 2425-2435.	1.2	9
203	Predictive Factors for Restenosis after Drug-Eluting Stent Implantation. Korean Circulation Journal, 2007, 37, 97.	0.7	8
204	Optimal management of platelet function after coronary stenting. Current Treatment Options in Cardiovascular Medicine, 2007, 9, 37-45.	0.4	8
205	Tissue plasminogen activator on admission is an important predictor of 30-day mortality in patients with acute myocardial infarction undergoing primary angioplasty. Atherosclerosis, 2008, 196, 327-332.	0.4	8
206	Dual antiplatelet therapy after drug-eluting stents. Coronary Artery Disease, 2014, 25, 83-89.	0.3	8
207	Role of Baroreflex Sensitivity in Predicting Tilt Training Response in Patients with Neurally Mediated Syncope. Yonsei Medical Journal, 2016, 57, 313.	0.9	8
208	Impact of moderate to severe renal impairment on long-term clinical outcomes in patients with atrial fibrillation. Journal of Cardiology, 2017, 69, 577-583.	0.8	8
209	Identification of pathogenic variants in genes related to channelopathy and cardiomyopathy in Korean sudden cardiac arrest survivors. Journal of Human Genetics, 2017, 62, 615-620.	1.1	8
210	Completeness of Revascularization as a Determinant of Outcome: A Contemporary Review and Clinical Perspectives. Canadian Journal of Cardiology, 2019, 35, 948-958.	0.8	8
211	Comparison of optical coherence tomography–guided versus intravascular ultrasound–guided percutaneous coronary intervention: Rationale and design of a randomized, controlled OCTIVUS trial. American Heart Journal, 2020, 228, 72-80.	1.2	8
212	Atrial Fibrillation in Hypertrophic Cardiomyopathy: Is the Extent of Septal Hypertrophy Important?. PLoS ONE, 2016, 11, e0156410.	1.1	8
213	SYNTAX Score and SYNTAX Score II Can Predict the Clinical Outcomes of Patients with Left Main and/or 3-Vessel Disease Undergoing Percutaneous Coronary Intervention in the Contemporary Cobalt-Chromium Everolimus-Eluting Stent Era. Korean Circulation Journal, 2020, 50, 22.	0.7	8
214	Percutaneous coronary intervention as an alternative to bypass surgery for unprotected LMCA stenosis. Expert Review of Cardiovascular Therapy, 2008, 6, 1107-1114.	0.6	7
215	Percutaneous Coronary Intervention for Unprotected Left Main Coronary Artery Stenosis. Cardiology Clinics, 2010, 28, 81-95.	0.9	7
216	Transforming growth factor Î ² 1-mediated atrial fibrotic activity and the recovery of atrial mechanical contraction after surgical maze procedure. International Journal of Cardiology, 2013, 164, 232-237.	0.8	7

#	Article	IF	CITATIONS
217	Effect of Left Atrial Activity After the Maze Procedure on Clinical and Echocardiographic Outcomes. Circulation Journal, 2014, 78, 1584-1592.	0.7	7
218	Benefit of implantable cardioverter-defibrillator therapy after generator replacement in patients with Brugada syndrome. International Journal of Cardiology, 2015, 187, 340-344.	0.8	7
219	Recanalization of Organized Thrombi Demonstrated by Coronary CT Angiography Compared With OCT. JACC: Cardiovascular Imaging, 2016, 9, 887-890.	2.3	7
220	Predictors of longâ€ŧerm outcomes after bypass grafting versus drugâ€eluting stent implantation for left main or multivessel coronary artery disease. Catheterization and Cardiovascular Interventions, 2017, 90, 177-185.	0.7	7
221	Intravascular Ultrasound–Guided Percutaneous Coronary Intervention for Left Main Disease. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	7
222	Quantified degree of eccentricity of aortic valve calcification predicts risk of paravalvular regurgitation and response to balloon post-dilation after self-expandable transcatheter aortic valve replacement. International Journal of Cardiology, 2018, 259, 60-68.	0.8	7
223	Comparison of Resolute zotarolimus-eluting and Xience everolimus-eluting stents in patients with de novo long coronary artery lesions. Coronary Artery Disease, 2019, 30, 59-66.	0.3	7
224	ls transjugular insertion of a temporary pacemaker a safe and effective approach?. PLoS ONE, 2020, 15, e0233129.	1.1	7
225	Outcomes of left ventricular unloading with a transseptal cannula during extracorporeal membrane oxygenation in adults. Artificial Organs, 2021, 45, 390-398.	1.0	7
226	Comparison of simple versus complex stenting in patients with true distal left main bifurcation lesions. Catheterization and Cardiovascular Interventions, 2021, 97, 776-785.	0.7	7
227	Pragmatic trial comparing routine versus no routine functional testing in high-risk patients who underwent percutaneous coronary intervention: Rationale and design of POST-PCI trial. American Heart Journal, 2020, 224, 156-165.	1.2	7
228	Sinus of Valsalva Thrombosis Detected on Computed Tomography after Transcatheter Aortic Valve Replacement. Korean Circulation Journal, 2020, 50, 572.	0.7	7
229	Meta-Analysis of Percutaneous Coronary Intervention Versus Coronary Artery Bypass Grafting for Left Main Narrowing. American Journal of Cardiology, 2022, 173, 39-47.	0.7	7
230	Initial Experience with Left Bundle Branch Area Pacing with Conventional Stylet-Driven Extendable Screw-In Leads and New Pre-Shaped Delivery Sheaths. Journal of Clinical Medicine, 2022, 11, 2483.	1.0	7
231	Left Main Stenting - Now and Future Circulation Journal, 2011, 75, 749-755.	0.7	6
232	Mid-Term Outcomes in Patients Implanted with Cardiac Resynchronization Therapy. Journal of Korean Medical Science, 2014, 29, 1651.	1.1	6
233	Role of Coronary Artery Calcium Scoring in Detection of Coronary Artery Disease according to Framingham Risk Score in Populations with Low to Intermediate Risks. Journal of Korean Medical Science, 2016, 31, 902.	1.1	6
234	Comparison of second- and first-generation drug eluting stent for percutaneous coronary chronic total occlusion intervention. International Journal of Cardiology, 2016, 206, 7-11.	0.8	6

#	Article	IF	CITATIONS
235	Rationale, design, and endpoints of the †DEvice-Detected CArdiac Tachyarrhythmic Events and Sleep-disordered Breathing (DEDiCATES)' study: Prospective multicenter observational study of device-detected tachyarrhythmia and sleep-disordered breathing. International Journal of Cardiology, 2019, 280, 69-73.	0.8	6
236	Longâ€ŧerm trends of treatment effect of stenting or bypass surgery in patients with ostial or shaft left main coronary artery disease. Catheterization and Cardiovascular Interventions, 2019, 94, 315-322.	0.7	6
237	Outcomes of cardiac resynchronization therapy in patients with atrial fibrillation accompanied by slow ventricular response. PLoS ONE, 2019, 14, e0210603.	1.1	6
238	Clinical outcomes of contemporary drugâ€eluting stents in patients with and without diabetes mellitus: Multigroup propensityâ€score analysis using data from stentâ€specific, multicenter, prospective registries. Catheterization and Cardiovascular Interventions, 2020, 96, 243-252.	0.7	6
239	Ten-Year Clinical Outcomes of Late-Acquired Stent Malapposition After Coronary Stent Implantation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 288-295.	1.1	6
240	Electrical Reverse Remodeling of the Native Cardiac Conduction System after Cardiac Resynchronization Therapy. Journal of Clinical Medicine, 2020, 9, 2152.	1.0	6
241	Effectiveness and safety of highâ€power and shortâ€duration ablation for cavotricuspid isthmus ablation in atrial flutter. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 941-946.	0.5	6
242	Electrocardiographic predictors of early recurrence of atrial fibrillation. Annals of Noninvasive Electrocardiology, 2021, 26, e12884.	0.5	6
243	When and how to perform the provisional approach for distal LM stenting. EuroIntervention, 2015, 11, V120-V124.	1.4	6
244	Percutaneous coronary intervention in patients with documented coronary vasospasm during long-term follow-up. Heart, 2022, 108, 1303-1309.	1.2	6
245	Prognostic Impact of Mildly Impaired Renal Function in Patients Undergoing Multivessel Coronary Revascularization. Journal of the American College of Cardiology, 2022, 79, 1270-1284.	1.2	6
246	Optical Coherence Tomographic Evaluation of the Effect of Cigarette Smoking on Vascular Healing After Sirolimus-Eluting Stent Implantation. American Journal of Cardiology, 2015, 115, 751-757.	0.7	5
247	Plaque structural stress assessed by virtual histology-intravascular ultrasound predicts dynamic changes in phenotype and composition of untreated coronary artery lesions. Atherosclerosis, 2016, 254, 85-92.	0.4	5
248	Everolimus- versus zotarolimus-eluting stent following percutaneous coronary chronic total occlusion intervention. International Journal of Cardiology, 2017, 241, 128-132.	0.8	5
249	Late outcome of percutaneous mitral commissurotomy: Randomized comparison of Inoue versus double-balloon technique. American Heart Journal, 2017, 194, 1-8.	1.2	5
250	Cardiac Resynchronization Therapy Device Implantation in a Patient with Cardiogenic Shock under Percutaneous Mechanical Circulatory Support. Korean Circulation Journal, 2017, 47, 132.	0.7	5
251	Comparison of a Simple Angiographic Approach With a Synergy Between Percutaneous Coronary Intervention With Taxus and Cardiac Surgery Score–Based Approach for Left Main Coronary Artery Stenting. Circulation: Cardiovascular Interventions, 2018, 11, e005374.	1.4	5
252	Comparison of longâ€term mortality according to obesity in patients with successful percutaneous chronic total occlusion interventions using drugâ€eluting stents. Catheterization and Cardiovascular Interventions, 2018, 91, 710-716.	0.7	5

#	Article	IF	CITATIONS
253	Long-term (10-year) outcomes of stenting or bypass surgery for acute coronary syndromes and stable ischemic heart disease with unprotected left main coronary artery disease. American Heart Journal, 2019, 218, 9-19.	1.2	5
254	Characteristics of symptomatic recurrent tachyarrhythmia after thoracoscopic ablation for persistent atrial fibrillation. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 686-693.	0.5	5
255	Bioresorbable Vascular Scaffolds Versus Drug-Eluting Stents for Diffuse Long Coronary Narrowings. American Journal of Cardiology, 2020, 125, 1624-1630.	0.7	5
256	Asian Pacific Society of Cardiology Consensus Recommendations on the Use of MitraClip for Mitral Regurgitation. European Cardiology Review, 2021, 16, e25.	0.7	5
257	Incremental Prognostic Value of Left Ventricular Global Longitudinal Strain in Patients with Preserved Ejection Fraction Undergoing Transcatheter Aortic Valve Implantation. Journal of the American Society of Echocardiography, 2022, 35, 947-955.e7.	1.2	5
258	Risk of infective endocarditis associated with invasive dental procedures in patients with cardiac rhythm devices. Europace, 2022, 24, 1967-1972.	0.7	5
259	Immediate and late clinical and angiographic outcomes after GFX coronary stenting: Is highâ€pressure balloon dilatation necessary?. Clinical Cardiology, 2000, 23, 595-599.	0.7	4
260	Stenting versus Bypass Surgery for the Treatment of Left Main Coronary Artery Disease. Yonsei Medical Journal, 2009, 50, 739.	0.9	4
261	Minimal withdrawal of dual antiplatelet agents under the guidance of a point-of-care platelet activity assay early after drug-eluting stent implantation for surgical removal of renal cell carcinoma. International Journal of Cardiology, 2011, 149, e85-e87.	0.8	4
262	New era of left main coronary artery treatment strategy. Cardiovascular Intervention and Therapeutics, 2012, 27, 1-7.	1.2	4
263	Progressive Increase in Peridevice Leakage After the Implantation of the Watchman Device on Long-term Serial Echocardiographic Follow-up. Canadian Journal of Cardiology, 2014, 30, 1461.e15-1461.e17.	0.8	4
264	New electrocardiographic criteria for predicting successful ablation of premature ventricular contractions from the right coronary cusp. International Journal of Cardiology, 2016, 224, 199-205.	0.8	4
265	Predictors of candesartan's effect on vascular reactivity in patients with coronary artery disease. Cardiovascular Therapeutics, 2017, 35, e12291.	1.1	4
266	Comparison of Supervised Hospital-based versus Educated Home-based Exercise Training in Korean Heart Failure Patients. Korean Circulation Journal, 2017, 47, 742.	0.7	4
267	Incidence and Impact of Thrombocytopenia in Patients Undergoing Percutaneous Coronary Intervention With Drug-Eluting Stents. American Journal of Cardiology, 2020, 134, 55-61.	0.7	4
268	Prognostic Value of Resting Distal-to-Aortic Coronary Pressure in Clinical Practice. Circulation: Cardiovascular Interventions, 2020, 13, e007868.	1.4	4
269	Electrocardiographic characteristics for successful radiofrequency ablation of right coronary cusp premature ventricular contractions. Medicine (United States), 2020, 99, e19398.	0.4	4
270	Rates and Independent Correlates of 10-Year Major Adverse Events and Mortality in Patients Undergoing Left Main Coronary Arterial Revascularization. American Journal of Cardiology, 2020, 125, 1148-1153.	0.7	4

#	Article	IF	CITATIONS
271	Incidence, Predictors, and Prognostic Impact of Immediate Improvement in Left Ventricular Systolic Function After Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2021, 152, 99-105.	0.7	4
272	Prognostic impact of left ventricular mass regression after transcatheter aortic valve replacement in patients with left ventricular hypertrophy. International Journal of Cardiology, 2021, 332, 60-66.	0.8	4
273	Comparison of Long-Term Outcomes Following Coronary Revascularization in Men-vs-Women with Unprotected Left Main Disease. American Journal of Cardiology, 2021, 153, 9-19.	0.7	4
274	Early percutaneous mitral commissurotomy or conventional management for asymptomatic mitral stenosis: a randomised clinical trial. Heart, 2021, 107, heartjnl-2021-319857.	1.2	4
275	Long-term outcome of totally thoracoscopic surgical ablation in atrial fibrillation: A single-center experience. IJC Heart and Vasculature, 2021, 36, 100861.	0.6	4
276	Asia Pacific TAVI registry (an APSIC initiative): initial report of early outcomes. AsiaIntervention, 2021, 7, 54-59.	0.1	4
277	Thoracoscopic Implantation of Epicardial Left Ventricular Lead for Cardiac Resynchronization Therapy. Journal of Cardiovascular Development and Disease, 2022, 9, 160.	0.8	4
278	Change of QT Dispersion After PTCA in Angina Patients. Annals of Noninvasive Electrocardiology, 1999, 4, 195-199.	0.5	3
279	Determinants of coronary blood flow following primary angioplasty for acute myocardial infarction. Catheterization and Cardiovascular Interventions, 2000, 51, 402-406.	0.7	3
280	Rescue use of abciximab improves regional left ventricular function after early incomplete reperfusion in acute myocardial infarction. Clinical Cardiology, 2001, 24, 197-201.	0.7	3
281	Two Cases of Immediate Stent Fracture after Zotarolimus-Eluting Stent Implantation. Korean Circulation Journal, 2015, 45, 67.	0.7	3
282	Electrocardiogram PR Interval Is a Surrogate Marker to Predict New Occurrence of Atrial Fibrillation in Patients with Frequent Premature Atrial Contractions. Journal of Korean Medical Science, 2016, 31, 519.	1.1	3
283	Variants of Brugada Syndrome and Early Repolarization Syndrome: An Expanded Concept of Jâ€Wave Syndrome. PACE - Pacing and Clinical Electrophysiology, 2017, 40, 162-174.	0.5	3
284	Impact of Follow-Up Ischemia on Myocardial Perfusion Single-Photon Emission Computed Tomography in Patients with Coronary Artery Disease. Yonsei Medical Journal, 2017, 58, 934.	0.9	3
285	Additional cavotricuspid isthmus ablation may reduce recurrent atrial tachyarrhythmia after total thoracoscopic ablation for persistent atrial fibrillationâ€. Interactive Cardiovascular and Thoracic Surgery, 2019, 28, 177-182.	0.5	3
286	Atrial fibrillation occurring during head-up tilt testing: Once detected, atrial fibrillation should be monitored, regardless of how it is detected. Heart Rhythm, 2019, 16, 520-526.	0.3	3
287	Optical Coherence Tomography for Coronary Bioresorbable Vascular Scaffold Implantation. Circulation: Cardiovascular Interventions, 2020, 13, e008383.	1.4	3
288	Earliest activation time is a good predictor of successful ablation of idiopathic outflow tract ventricular arrhythmias. Clinical Cardiology, 2021, 44, 573-579.	0.7	3

#	Article	IF	CITATIONS
289	Safety of mechanical lung vibrator and highâ€frequency chest wall oscillation in patients with cardiac implantable electronic device. Clinical Cardiology, 2021, 44, 531-536.	0.7	3
290	Very Long-term Safety and Effectiveness of Drug-Eluting or Bare-Metal Stents for Left Main Coronary Disease. CJC Open, 2021, 3, 1199-1206.	0.7	3
291	Radiofrequency vs. Cryoballoon vs. Thoracoscopic Surgical Ablation for Atrial Fibrillation: A Single-Center Experience. Medicina (Lithuania), 2021, 57, 1023.	0.8	3
292	Efficacy of Cardiac Resynchronization Therapy Using Automated Dynamic Optimization and Left Ventricular-only Pacing. Journal of Korean Medical Science, 2019, 34, e187.	1.1	3
293	Percutaneous coronary intervention for unprotected left main coronary artery stenosis. World Journal of Cardiology, 2010, 2, 78.	0.5	3
294	The Absence of Atrial Contraction as a Predictor of Permanent Pacemaker Implantation after Maze Procedure with Cryoablation. Korean Journal of Thoracic and Cardiovascular Surgery, 2017, 50, 163-170.	0.6	3
295	Edoxaban-based long-term antithrombotic therapy in patients with atrial fibrillation and stable coronary disease: Rationale and design of the randomized EPIC-CAD trial. American Heart Journal, 2022, 247, 123-131.	1.2	3
296	Long-Term Efficacy and Anticoagulation Strategy of Left Atrial Appendage Occlusion During Total Thoracoscopic Ablation of Atrial Fibrillation to Prevent Ischemic Stroke. Frontiers in Cardiovascular Medicine, 2022, 9, 853299.	1.1	3
297	External Validation of the FREEDOM Score for Individualized Decision Making Between CABG and PCI. Journal of the American College of Cardiology, 2022, 79, 1458-1473.	1.2	3
298	The Usefulness of 2-Dimensional Longitudinal Strain for Prediction of the Postoperative Left Ventricular Systolic Function in Patients with Valvular Heart Disease Causing Volume Overloading. Korean Circulation Journal, 2006, 36, 272.	0.7	2
299	Drug-Eluting Stents for Left Main Coronary Artery Stenosis: Case Selection and Technical Issues. The American Heart Hospital Journal, 2008, 6, 21-29.	0.2	2
300	Response to Letter Regarding Article, "Impact of Intravascular Ultrasound Guidance on Long-Term Mortality in Stenting for Unprotected Left Main Coronary Artery Stenosis― Circulation: Cardiovascular Interventions, 2009, 2, .	1.4	2
301	Angiographic evidence of progressive lumen narrowing over 2years following drug-eluting stent implantation. International Journal of Cardiology, 2011, 153, 159-164.	0.8	2
302	Treatment of Patients with Left Main Coronary Artery Disease. Current Treatment Options in Cardiovascular Medicine, 2012, 14, 108-116.	0.4	2
303	Procedural Predictors of Angiographic Restenosis After Bifurcation Coronary Stenting (from the) Tj ETQq1 1 0.7	84314 rgB 0.7	T /Overlock 2
304	Intravascular Ultrasound for the Assessment of Coronary Lesion Severity and Optimization of Percutaneous Coronary Interventions. Interventional Cardiology Clinics, 2015, 4, 383-395.	0.2	2
305	Coronary artery bypass graft surgery versus drug-eluting stent implantation for high-surgical-risk patients with left main or multivessel coronary artery disease. European Journal of Cardio-thoracic Surgery, 2017, 51, 943-949.	0.6	2
306	Impact of left main coronary artery disease on long-term mortality in patients undergoing drug-eluting stent implantation. Clinical Research in Cardiology, 2017, 106, 953-959.	1.5	2

#	Article	IF	CITATIONS
307	Frequent atrial premature complexes during exercise: A potent predictor of atrial fibrillation. Clinical Cardiology, 2018, 41, 458-464.	0.7	2
308	Is the stroke volume during post-ectopic beat associated with ventricular premature complex-related symptoms?. Europace, 2018, 20, f204-f210.	0.7	2
309	Transseptal Transcatheter Mitral Valve-in-valve Replacement for a Failed Bioprosthetic Mitral Valve. Korean Circulation Journal, 2018, 48, 438.	0.7	2
310	Fate of Grafts Bypassing Nonischemic Versus Ischemic Inducing Coronary Stenosis. American Journal of Cardiology, 2018, 122, 1148-1154.	0.7	2
311	Cardiac resynchronization therapy in New York Heart Association classâ€IV patients dependent on intravenous drugs or invasive supportive treatments. ESC Heart Failure, 2020, 7, 3109-3118.	1.4	2
312	The Influence of Obesity on the Association of Obstructive Sleep Apnea and Atrial Fibrillation. Sleep Medicine Research, 2021, 12, 50-56.	0.2	2
313	Tenâ€year outcomes of early generation sirolimus†versus paclitaxelâ€eluting stents in patients with left main coronary artery disease. Catheterization and Cardiovascular Interventions, 2021, 98, E705-E714.	0.7	2
314	Total thoracoscopic ablation in patients with atrial fibrillation and left ventricular dysfunction. JTCVS Techniques, 2021, 8, 60-66.	0.2	2
315	Long-term outcomes of minor plaque prolapsed within stents documented with intravascular ultrasound. , 2000, 51, 22.		2
316	Early experience and favorable clinical outcomes of everolimus-eluting bioresorbable scaffolds for coronary artery disease in Korea. Korean Journal of Internal Medicine, 2018, 33, 922-932.	0.7	2
317	Effectiveness of the Early Staged Hybrid Approach for Treatment of Symptomatic Atrial Fibrillation: the Electrophysiology Study Could Be Deferred?. Journal of Korean Medical Science, 2021, 36, e276.	1.1	2
318	Electronic Medical Record–Based Machine Learning Approach to Predict the Risk of 30-Day Adverse Cardiac Events After Invasive Coronary Treatment: Machine Learning Model Development and Validation. JMIR Medical Informatics, 2022, 10, e26801.	1.3	2
319	Functional Angioplasty: Definitions, Historical Overview, and Future Perspectives. Korean Circulation Journal, 2022, 52, 34.	0.7	2
320	Relationship between Cardiovascular Calcium and Atrial Fibrillation. Journal of Clinical Medicine, 2022, 11, 371.	1.0	2
321	Inter-racial differences in patients undergoing transcatheter aortic valve implantation. Heart, 2022, 108, 1562-1570.	1.2	2
322	Transvenous lead extraction using the TightRail mechanical rotating dilator sheath for Asian patients. Scientific Reports, 2021, 11, 22251.	1.6	2
323	New Oral Anticoagulant Versus Vitamin K Antagonists for Thoracoscopic Ablation in Patients With Persistent Atrial Fibrillation: A Randomized Controlled Trial. Seminars in Thoracic and Cardiovascular Surgery, 2021, , .	0.4	2
324	Orthodromic and Antidromic Snare Techniques for Left Ventricular Lead Implantation in Cardiac Resynchronization Therapy. Journal of Clinical Medicine, 2022, 11, 2133.	1.0	2

#	Article	IF	CITATIONS
325	Positional obstructive sleep apnea in patients with atrial fibrillation. Sleep and Breathing, 2023, 27, 487-494.	0.9	2
326	Lack of Association Between Low Density Lipoprotein Particle Size and On-Treatment Platelet Reactivity in Patients With Coronary Artery Disease. Korean Circulation Journal, 2012, 42, 551.	0.7	1
327	How to Optimize Left MainÂPercutaneous CoronaryÂIntervention. JACC: Cardiovascular Interventions, 2014, 7, 731-732.	1.1	1
328	No More Debate Over Left Main Stenting Versus Bypass Surgery. JACC: Cardiovascular Interventions, 2016, 9, 328-330.	1.1	1
329	The modified balloon crush technique. Medicine (United States), 2018, 97, e12808.	0.4	1
330	Association and Prognostic Implication of C-Reactive Protein with Risk of 1-Year Death or Disabling Stroke After Transcatheter Aortic Valve Replacement. Structural Heart, 2019, 3, 312-320.	0.2	1
331	Correlations between invasively measured aortic pressures and left ventricular end-diastolic pressure in patients undergoing coronary angiography. Blood Pressure Monitoring, 2019, 24, 241-247.	0.4	1
332	Right ventricle apex pacing identifies the presence of ventricular premature depolarizationsâ€induced cardiomyopathy. PACE - Pacing and Clinical Electrophysiology, 2019, 42, 31-37.	0.5	1
333	Response by Park and Park to Letter Regarding Article, "Clinically Significant Bleeding With Ticagrelor Versus Clopidogrel in Korean Patients With Acute Coronary Syndromes Intended for Invasive Management: A Randomized Clinical Trial― Circulation, 2020, 141, e741-e742.	1.6	1
334	Changes in cardiac conduction time following cardiac resynchronization therapy: rationale and design of the RECOVER study. Journal of Interventional Cardiac Electrophysiology, 2021, , 1.	0.6	1
335	Long-term evaluation of sensing variability of a floating atrial dipole in a single‑lead defibrillator: The mechanistic basis of long-term stability of amplified atrial electrogram. International Journal of Cardiology, 2021, 336, 67-72.	0.8	1
336	Ventricular activation patterns during intrinsic conduction and right ventricular pacing in cardiac resynchronization therapy patients. PACE - Pacing and Clinical Electrophysiology, 2021, 44, 1663-1670.	0.5	1
337	Prevalence, predictors, prognostic significance, and effect of techniques on outcomes of coronary lesion calcification following implantation of drug-eluting stents: a patient-level pooled analysis of stent-specific, multicenter, prospective IRIS-DES registries. Coronary Artery Disease, 2021, 32, 42-50.	0.3	1
338	Drug-Eluting Stent : Present and Future. Journal of the Korean Medical Association, 2008, 51, 299.	0.1	1
339	International variation in modality and outcomes of left main revascularisation: does it really matter?. EuroIntervention, 2022, 17, 1048-1049.	1.4	1
340	Predictors of permanent pacemaker implantation after sinus conversion of cavotricuspid isthmus-dependent atrial flutter. Scientific Reports, 2022, 12, 5336.	1.6	1
341	Spontaneous Resolution of Extensive latrogenic Type A Aortic Dissection After Transcatheter Aortic Valve Replacement. JACC: Case Reports, 2022, 4, 464-469.	0.3	1
342	Update on Percutaneous Intervention in Left Main Artery Stenosis. Journal of Interventional Cardiology, 1998, 11, S29-S35.	0.5	0

#	Article	IF	CITATIONS
343	Characteristics of Transplant Coronary Artery Disease after Heart Transplantation in Koreans: A Serial Intravascular UltraSound Analysis. Korean Circulation Journal, 2007, 37, 9.	0.7	0
344	Clinical Outcomes of Cobalt-Chromium Alloy ArthosPico Stent for Native Coronary Lesions. Korean Circulation Journal, 2007, 37, 22.	0.7	0
345	APSIC, ready to jump!. Catheterization and Cardiovascular Interventions, 2009, 74, 151-152.	0.7	0
346	Prognostic Implication of QRS Variability during Hospitalization in Patients with Acute Decompensated Heart Failure. Korean Circulation Journal, 2014, 44, 22.	0.7	0
347	Response to Letter Regarding Article, "Optimal Duration of Dual Antiplatelet Therapy After Drug-Eluting Stent Implantation: A Randomized, Controlled Trial― Circulation, 2014, 130, e161-2.	1.6	0
348	Can intravascular ultrasoundâ€derived minimal lumen area predict functional significance of coronary artery stenosis?. Catheterization and Cardiovascular Interventions, 2014, 84, 386-387.	0.7	0
349	Safety of dabigatran or rivaroxaban for thoracoscopic ablation in patients with atrial fibrillation. International Journal of Cardiology, 2015, 186, 213-215.	0.8	0
350	Chronic Total Occlusion Intervention. JACC: Cardiovascular Interventions, 2017, 10, 1022-1024.	1.1	0
351	Response by Ahn and Park to Letter Regarding Article, "Fractional Flow Reserve and Cardiac Events in Coronary Artery Disease: Data From a Prospective IRIS-FFR Registry (Interventional Cardiology) Tj ETQq1 1 0.784	314orgBT	/Overlock 10
352	Impact of Prior Cerebrovascular Disease on Decision-Making and Outcomes for Left Main Revascularization. JACC: Cardiovascular Interventions, 2018, 11, 2451-2452.	1.1	0
353	The authors reply: Treatment of patients with restenosis of drug-eluting stents. American Heart Journal, 2018, 205, 159.	1.2	0
354	Don't worry and measure FFR. Catheterization and Cardiovascular Interventions, 2018, 92, 28-29.	0.7	0
355	Editorial for "Declaration of the known facts in myopathy: Pacing in order to capture future occurrence of PVCâ€induced myopathy?â€: PACE - Pacing and Clinical Electrophysiology, 2019, 42, 487-488.	0.5	0
356	Fate of lumen size in distal coronary segment following successful chronic total occlusion recanalization. Journal of Cardiology, 2021, 77, 65-71.	0.8	0
357	Unplanned Coronary Intervention AfterÂTAVR. JACC: Cardiovascular Interventions, 2021, 14, 208-210.	1.1	0
358	Long-Term Outcomes After Percutaneous Coronary Intervention With Second-Generation Drug-Eluting Stents or Coronary Artery Bypass Grafting for Multivessel Coronary Disease. American Journal of Cardiology, 2021, 160, 21-30.	0.7	0
359	Left Atrial Spontaneous Echo Contrast in Mitral Stenosis: Before and Immediately After Percutaneous Mitral Valvuloplasty. Journal of the Korean Society of Echocardiography, 1994, 2, 53.	0.0	0
360	Intravenous Ergonovine Test with Two Dimensional Echocardiography for Diagmosis of Coronary Artery Spasm. Journal of the Korean Society of Echocardiography, 1994, 2, 1.	0.0	0

#	Article	IF	CITATIONS
361	How I became an FFR believer. EuroIntervention, 2020, 15, e1315-e1317.	1.4	0
362	Performance of Bleeding Risk Scores in Predicting Bleeding Complications in Korean Patients Who Are Receiving Dual Antiplatelet Therapy for Acute Coronary Syndrome. American Journal of Cardiology, 2022, 165, 131-132.	0.7	0
363	ls stenting a preferred option for unprotected left main coronary artery disease in the drug-eluting stent era?. Indian Heart Journal, 2007, 59, B105-12.	0.2	0
364	Abstract from the Ontario registry. EuroIntervention, 2008, 4 Suppl C, C45-6.	1.4	0
365	Left Ventricular Dysfunction in Outpatients with Frequent Ventricular Premature Complexes. Texas Heart Institute Journal, 2022, 49, .	0.1	0
366	Low QRS Voltage in Limb Leads Indicates Accompanying Precordial Voltage Attenuation Resulting in Underestimation of Left Ventricular Hypertrophy. International Journal of Environmental Research and Public Health, 2021, 18, 12867.	1.2	0
367	Clinical Significance of Ventricular Premature Contraction Provoked by the Treadmill Test. Medicina (Lithuania), 2022, 58, 556.	0.8	0
368	The efficacy of single-lead implantable cardioverter-defibrillator with atrial sensing dipole to detect atrial fibrillation and to reduce inappropriate therapy according to atrial sensing ON or OFF: Rationale and design of the SMART-CONTROL study, a prospective multicenter randomized trial. American Heart Journal, 2022, 251, 25-31.	1.2	0
369	Abstract 11935: The Index of Microcirculatory Resistance to Predict Subsequent Acute Cellular Rejection and Cardiac Events After Heart Transplantation. Circulation, 2021, 144, .	1.6	0
370	Design of <scp>Midâ€Q</scp> Response: A prospective, randomized trial of adaptive cardiac resynchronization therapy in Asian patients. Journal of Arrhythmia, 0, , .	0.5	0