Raphael Twerenbold

List of Publications by Citations

185 papers	8,007 citations	47 h-index	86 g-index
198 ext. papers	9,892 ext. citations	6.8 avg, IF	5.53 L-index

#	Paper	IF	Citations
185	Early diagnosis of myocardial infarction with sensitive cardiac troponin assays. *New England Journal of Medicine*, **2009**, 361, 858-67	59.2	1199
184	One-hour rule-out and rule-in of acute myocardial infarction using high-sensitivity cardiac troponin T. *Archives of Internal Medicine*, **2012**, 172, 1211-8		350
183	Utility of absolute and relative changes in cardiac troponin concentrations in the early diagnosis of acute myocardial infarction. *Circulation*, **2011**, 124, 136-45	16.7	333
182	SARS-CoV2: should inhibitors of the renin-angiotensin system be withdrawn in patients with COVID-19?. *European Heart Journal*, **2020**, 41, 1801-1803	9.5	276
181	Validation of high-sensitivity troponin I in a 2-hour diagnostic strategy to assess 30-day outcomes in emergency department patients with possible acute coronary syndrome. *Journal of the American College of Cardiology*, **2013**, 62, 1242-1249	15.1	228
180	Early diagnosis of acute myocardial infarction in the elderly using more sensitive cardiac troponin assays. *European Heart Journal*, **2011**, 32, 1379-89	9.5	218
179	Multicenter Evaluation of a 0-Hour/1-Hour Algorithm in the Diagnosis of Myocardial Infarction With High-Sensitivity Cardiac Troponin T. *Annals of Emergency Medicine*, **2016**, 68, 76-87.e4	2.1	214
178	Rapid Rule-out of Acute Myocardial Infarction With a Single High-Sensitivity Cardiac Troponin T Measurement Below the Limit of Detection: A Collaborative Meta-analysis. *Annals of Internal Medicine*, **2017**, 166, 715-724	8	163
177	Prospective validation of a 1-hour algorithm to rule-out and rule-in acute myocardial infarction using a high-sensitivity cardiac troponin T assay. *Cmaj*, **2015**, 187, E243-E252	3.5	153
176	High-sensitive troponin T measurements: what do we gain and what are the challenges?. *European Heart Journal*, **2012**, 33, 579-86	9.5	150
175	Rapid rule out of acute myocardial infarction using undetectable levels of high-sensitivity cardiac troponin. *International Journal of Cardiology*, **2013**, 168, 3896-901	3.2	150
174	One-hour rule-in and rule-out of acute myocardial infarction using high-sensitivity cardiac troponin I. *American Journal of Medicine*, **2015**, 128, 861-870.e4	2.4	137
173	Application of High-Sensitivity Troponin in Suspected Myocardial Infarction. *New England Journal of Medicine*, **2019**, 380, 2529-2540	59.2	134
172	Optimal Cutoff Levels of More Sensitive Cardiac Troponin Assays for the Early Diagnosis of Myocardial Infarction in Patients With Renal Dysfunction. *Circulation*, **2015**, 131, 2041-50	16.7	133
171	Direct comparison of high-sensitivity-cardiac troponin I vs. T for the early diagnosis of acute myocardial infarction. *European Heart Journal*, **2014**, 35, 2303-11	9.5	128
170	High-sensitivity cardiac troponin in the distinction of acute myocardial infarction from acute cardiac noncoronary artery disease. *Circulation*, **2012**, 126, 31-40	16.7	122
169	Clinical Use of High-Sensitivity Cardiac Troponin in Patients With Suspected Myocardial Infarction. *Journal of the American College of Cardiology*, **2017**, 70, 996-1012	15.1	121

168	Association of High-Sensitivity Cardiac Troponin I Concentration With Cardiac Outcomes in Patients With Suspected Acute Coronary Syndrome. *JAMA - Journal of the American Medical Association*, **2017**, 318, 1913-1924	27.4	117
167	Direct Comparison of 4 Very Early Rule-Out Strategies for Acute Myocardial Infarction Using High-Sensitivity Cardiac Troponin I. *Circulation*, **2017**, 135, 1597-1611	16.7	107
166	Assessment of microRNAs in patients with unstable angina pectoris. *European Heart Journal*, **2014**, 35, 2106-14	9.5	100
165	Two-hour algorithm for triage toward rule-out and rule-in of acute myocardial infarction using high-sensitivity cardiac troponin T. *American Journal of Medicine*, **2015**, 128, 369-79.e4	2.4	99
164	Comparison of the Efficacy and Safety of Early Rule-Out Pathways for Acute Myocardial Infarction. *Circulation*, **2017**, 135, 1586-1596	16.7	96
163	Impact of high-sensitivity cardiac troponin on use of coronary angiography, cardiac stress testing, and time to discharge in suspected acute myocardial infarction. *European Heart Journal*, **2016**, 37, 3324-3332	9.5	94
162	A systematic review and collaborative meta-analysis to determine the incremental value of copeptin for rapid rule-out of acute myocardial infarction. *American Journal of Cardiology*, **2014**, 113, 1581-91	3	90
161	Misdiagnosis of Myocardial Infarction Related to Limitations of the Current Regulatory Approach to Define Clinical Decision Values for Cardiac Troponin. *Circulation*, **2015**, 131, 2032-40	16.7	88
160	Sex-specific chest pain characteristics in the early diagnosis of acute myocardial infarction. *JAMA Internal Medicine*, **2014**, 174, 241-9	11.5	84
159	Prospective Validation of the 0/1-h Algorithm for Early Diagnosis of Myocardial Infarction. *Journal of the American College of Cardiology*, **2018**, 72, 620-632	15.1	82
158	Early diagnosis of acute myocardial infarction in patients with pre-existing coronary artery disease using more sensitive cardiac troponin assays. *European Heart Journal*, **2012**, 33, 988-97	9.5	81
157	One-hour rule-in and rule-out of acute myocardial infarction using high-sensitivity cardiac troponin I. *American Heart Journal*, **2016**, 171, 92-102.e1-5	4.9	79
156	Two-Hour Algorithm for Triage toward Rule-Out and Rule-In of Acute Myocardial Infarction by Use of High-Sensitivity Cardiac Troponin I. *Clinical Chemistry*, **2016**, 62, 494-504	5.5	78
155	FC 047COMPARISON OF THE CHARACTERISTICS AND MORTALITY OF ACUTE KIDNEY INJURY IN PATIENTS WITH COVID-19 AND OTHER RESPIRATORY INFECTIONS: A PROSPECTIVE COHORT STUDY. *Nephrology Dialysis Transplantation*, **2021**, 36,	4.3	78
154	Risk stratification in patients with acute chest pain using three high-sensitivity cardiac troponin assays. *European Heart Journal*, **2014**, 35, 365-75	9.5	71
153	Effect of Definition on Incidence and Prognosis of Type 2 Myocardial Infarction. *Journal of the American College of Cardiology*, **2017**, 70, 1558-1568	15.1	70
152	Heart-type fatty acid-binding protein in the early diagnosis of acute myocardial infarction. *Heart*, **2013**, 99, 708-14	5.1	67
151	0/1-Hour Triage Algorithm for Myocardial Infarction in Patients With Renal Dysfunction. *Circulation*, **2018**, 137, 436-451	16.7	66

150	Clinical Validation of a Novel High-Sensitivity Cardiac Troponin I Assay for Early Diagnosis of Acute Myocardial Infarction. *Clinical Chemistry*, **2018**, 64, 1347-1360	5.5	66
149	Comparison of conventional and high-sensitivity troponin in patients with chest pain: a collaborative meta-analysis. *American Heart Journal*, **2015**, 169, 6-16.e6	4.9	64
148	Outcome of Applying the ESC 0/1-hour Algorithm in Patients With Suspected Myocardial Infarction. *Journal of the American College of Cardiology*, **2019**, 74, 483-494	15.1	64
147	Characterization of the observe zone of the ESC 2015 high-sensitivity cardiac troponin 0h/1h-algorithm for the early diagnosis of acute myocardial infarction. *International Journal of Cardiology*, **2016**, 207, 238-45	3.2	63
146	Clinical Effect of Sex-Specific Cutoff Values of High-Sensitivity Cardiac Troponin T in Suspected Myocardial Infarction. *JAMA Cardiology*, **2016**, 1, 912-920	16.2	58
145	Heart failure therapy-induced early ST2 changes may offer long-term therapy guidance. *Journal of Cardiac Failure*, **2013**, 19, 821-8	3.3	57
144	Worldwide Survey of COVID-19-Associated Arrhythmias. *Circulation: Arrhythmia and Electrophysiology*, **2021**, 14, e009458	6.4	54
143	Diurnal Rhythm of Cardiac Troponin: Consequences for the Diagnosis of Acute Myocardial Infarction. *Clinical Chemistry*, **2016**, 62, 1602-1611	5.5	53
142	Safety and efficacy of the 0 h/3 h protocol for rapid rule out of myocardial infarction. *American Heart Journal*, **2016**, 181, 16-25	4.9	52
141	Direct comparison of three natriuretic peptides for prediction of short- and long-term mortality in patients with community-acquired pneumonia. *Chest*, **2012**, 141, 974-982	5.3	51
140	Prognostic value and link to atrial fibrillation of soluble Klotho and FGF23 in hemodialysis patients. *PLoS ONE*, **2014**, 9, e100688	3.7	49
139	Impact of haemoconcentration during acute heart failure therapy on mortality and its relationship with worsening renal function. *European Journal of Heart Failure*, **2017**, 19, 226-236	12.3	48
138	Proenkephalin, Renal Dysfunction, and Prognosis in Patients With Acute Heart Failure: A GREAT Network Study. *Journal of the American College of Cardiology*, **2017**, 69, 56-69	15.1	47
137	Accelerated diagnostic protocol using high-sensitivity cardiac troponin T in acute chest pain patients. *International Journal of Cardiology*, **2015**, 184, 208-215	3.2	43
136	Impact of age on the performance of the ESC 0/1h-algorithms for early diagnosis of myocardial infarction. *European Heart Journal*, **2018**, 39, 3780-3794	9.5	43
135	Sensitive troponins--which suits better for hemodialysis patients? Associated factors and prediction of mortality. *PLoS ONE*, **2012**, 7, e47610	3.7	42
134	Early Diagnosis of Myocardial Infarction With Point-of-Care High-Sensitivity Cardiac Troponin I. *Journal of the American College of Cardiology*, **2020**, 75, 1111-1124	15.1	41
133	Direct Comparison of Cardiac Myosin-Binding Protein C With Cardiac Troponins for the Early Diagnosis of Acute Myocardial Infarction. *Circulation*, **2017**, 136, 1495-1508	16.7	40

132	Comprehensive biomarker profiling in patients with obstructive sleep apnea. *Clinical Biochemistry*, **2015**, 48, 340-6	3.5	38
131	Clinical benefit of high-sensitivity cardiac troponin I in the detection of exercise-induced myocardial ischemia. *American Heart Journal*, **2016**, 173, 8-17	4.9	37
130	High-Sensitivity Cardiac Troponin I Assay for Early Diagnosis of Acute Myocardial Infarction. *Clinical Chemistry*, **2019**, 65, 893-904	5.5	36
129	Combining High-Sensitivity Cardiac Troponin I and Cardiac Troponin T in the Early Diagnosis of Acute Myocardial Infarction. *Circulation*, **2018**, 138, 989-999	16.7	34
128	Incremental value of copeptin to highly sensitive cardiac Troponin I for rapid rule-out of myocardial infarction. *International Journal of Cardiology*, **2015**, 190, 170-6	3.2	31
127	Clinical Use of a New High-Sensitivity Cardiac Troponin I Assay in Patients with Suspected Myocardial Infarction. *Clinical Chemistry*, **2019**, 65, 1426-1436	5.5	30
126	Direct Comparison of the 0/1h and 0/3h Algorithms for Early Rule-Out of Acute Myocardial Infarction. *Circulation*, **2018**, 137, 2536-2538	16.7	29
125	Serum Neurofilament Light Chain Levels in the Intensive Care Unit: Comparison between Severely Ill Patients with and without Coronavirus Disease 2019. *Annals of Neurology*, **2021**, 89, 610-616	9.4	29
124	Early diagnosis of acute myocardial infarction in patients with mild elevations of cardiac troponin. *Clinical Research in Cardiology*, **2017**, 106, 457-467	6.1	26
123	Early rule-out and rule-in of myocardial infarction using sensitive cardiac Troponin I. *International Journal of Cardiology*, **2015**, 195, 163-70	3.2	26
122	Direct Comparison of 2 Rule-Out Strategies for Acute Myocardial Infarction: 2-h Accelerated Diagnostic Protocol vs 2-h Algorithm. *Clinical Chemistry*, **2017**, 63, 1227-1236	5.5	25
121	Incremental value of a single high-sensitivity cardiac troponin I measurement to rule out myocardial ischemia. *American Journal of Medicine*, **2015**, 128, 638-46	2.4	25
120	Characterization of a Pan-Immunoglobulin Assay Quantifying Antibodies Directed against the Receptor Binding Domain of the SARS-CoV-2 S1-Subunit of the Spike Protein: A Population-Based Study. *Journal of Clinical Medicine*, **2020**, 9,	5.1	25
119	B-Type Natriuretic Peptides and Cardiac Troponins for Diagnosis and Risk-Stratification of Syncope. *Circulation*, **2019**,	16.7	24
118	Multi-organ assessment in mainly non-hospitalized individuals after SARS-CoV-2 infection: The Hamburg City Health Study COVID programme.. *European Heart Journal*, **2022**,	9.5	21
117	Two-Hour Algorithm for Rapid Triage of Suspected Acute Myocardial Infarction Using a High-Sensitivity Cardiac Troponin I Assay. *Clinical Chemistry*, **2019**, 65, 1437-1447	5.5	20
116	Incidence and outcomes of unstable angina compared with non-ST-elevation myocardial infarction. *Heart*, **2019**, 105, 1423-1431	5.1	20
115	Prediction of mortality using quantification of renal function in acute heart failure. *International Journal of Cardiology*, **2015**, 201, 650-7	3.2	20

114	Prospective Validation of a Biomarker-Based Rule Out Strategy for Functionally Relevant Coronary Artery Disease. *Clinical Chemistry*, **2018**, 64, 386-395	5.5	20
113	External Validation of the MEESSI Acute Heart Failure Risk Score: A Cohort Study. *Annals of Internal Medicine*, **2019**, 170, 248-256	8	19
112	Comparison of fourteen rule-out strategies for acute myocardial infarction. *International Journal of Cardiology*, **2019**, 283, 41-47	3.2	19
111	Clinical Utility of Procalcitonin in the Diagnosis of Pneumonia. *Clinical Chemistry*, **2019**, 65, 1532-1542	5.5	18
110	Diagnostic and prognostic value of cystatin C in acute heart failure. *Clinical Biochemistry*, **2017**, 50, 1007-1013	3.5	18
109	How acute changes in cardiac troponin concentrations help to handle the challenges posed by troponin elevations in non-ACS-patients. *Clinical Biochemistry*, **2015**, 48, 218-22	3.5	17
108	Direct comparison of cardiac troponin I and cardiac troponin T in the detection of exercise-induced myocardial ischemia. *Clinical Biochemistry*, **2016**, 49, 421-432	3.5	17
107	Prevalence of Pulmonary Embolism in Patients With Syncope. *Journal of the American College of Cardiology*, **2019**, 74, 744-754	15.1	17
106	Prevalence, characteristics and outcome of non-cardiac chest pain and elevated copeptin levels. *Heart*, **2014**, 100, 1708-14	5.1	17
105	Incremental value of heart-type fatty acid-binding protein in suspected acute myocardial infarction early after symptom onset. *European Heart Journal: Acute Cardiovascular Care*, **2016**, 5, 185-92	4.3	16
104	Development and clinical implementation of tailored image analysis tools for COVID-19 in the midst of the pandemic: The synergetic effect of an open, clinically embedded software development platform and machine learning. *European Journal of Radiology*, **2020**, 131, 109233	4.7	16
103	Clinical impact of the 2010-2012 low-end shift of high-sensitivity cardiac troponin T. *European Heart Journal: Acute Cardiovascular Care*, **2016**, 5, 399-408	4.3	16
102	Impact of the US Food and Drug Administration-Approved Sex-Specific Cutoff Values for High-Sensitivity Cardiac Troponin T to Diagnose Myocardial Infarction. *Circulation*, **2018**, 137, 1867-1869	16.7	15
101	Amyloid-β(1-40) and Mortality in Patients With Non-ST-Segment Elevation Acute Coronary Syndrome: A Cohort Study. *Annals of Internal Medicine*, **2018**, 168, 855-865	8	15
100	B-type natriuretic peptide and clinical judgment in the detection of exercise-induced myocardial ischemia. *American Journal of Medicine*, **2014**, 127, 427-35	2.4	15
99	High-sensitive cardiac troponin: friend or foe?. *Swiss Medical Weekly*, **2011**, 141, w13202	3.1	15
98	Characterisation of cardiac pathology in 23 autopsies of lethal COVID-19. *Journal of Pathology: Clinical Research*, **2021**, 7, 326-337	5.3	15
97	An algorithm for rule-in and rule-out of acute myocardial infarction using a novel troponin I assay. *Heart*, **2017**, 103, 125-131	5.1	14

96	Prospective validation of current quantitative electrocardiographic criteria for ST-elevation myocardial infarction. *International Journal of Cardiology*, **2019**, 292, 1-12	3.2	14
95	Comparison of high-sensitivity cardiac troponin I and T for the prediction of cardiac complications after non-cardiac surgery. *American Heart Journal*, **2018**, 203, 67-73	4.9	14
94	Incremental value of copeptin in suspected acute myocardial infarction very early after symptom onset. *European Heart Journal: Acute Cardiovascular Care*, **2016**, 5, 407-15	4.3	14
93	Diagnosis of acute myocardial infarction in the presence of left bundle branch block. *Heart*, **2019**, 105, 1559-1567	5.1	13
92	Predicting Major Adverse Events in Patients With Acute Myocardial Infarction. *Journal of the American College of Cardiology*, **2019**, 74, 842-854	15.1	13
91	Prevalence and outcome of dysnatremia in patients with COVID-19 compared to controls. *European Journal of Endocrinology*, **2021**, 184, 409-418	6.5	13
90	Intersubject variability and intrasubject reproducibility of 12-lead ECG metrics: Implications for human verification. *Journal of Electrocardiology*, **2016**, 49, 784-789	1.4	13
89	Gender-specific uncertainties in the diagnosis of acute coronary syndrome. *Clinical Research in Cardiology*, **2017**, 106, 28-37	6.1	12
88	Plasma concentrations of the vasoactive peptide fragments mid-regional pro-adrenomedullin, C-terminal pro-endothelin 1 and copeptin in hemodialysis patients: associated factors and prediction of mortality. *PLoS ONE*, **2014**, 9, e86148	3.7	12
87	Risk prediction of in-hospital mortality in patients with venoarterial extracorporeal membrane oxygenation for cardiopulmonary support: The ECMO-ACCEPTS score. *Journal of Critical Care*, **2020**, 56, 100-105	4	12
86	Early Diagnosis of Myocardial Infarction with Sensitive Cardiac Troponin Assays. *Clinical Chemistry*, **2019**, 65, 490-491	5.5	12
85	Diagnostic and prognostic values of the V-index, a novel ECG marker quantifying spatial heterogeneity of ventricular repolarization, in patients with symptoms suggestive of non-ST-elevation myocardial infarction. *International Journal of Cardiology*, **2017**, 236, 23-29	3.2	11
84	Diagnostic and Prognostic Utility of Circulating Cytochrome c in Acute Myocardial Infarction. *Circulation Research*, **2016**, 119, 1339-1346	15.7	11
83	Prospective validation of prognostic and diagnostic syncope scores in the emergency department. *International Journal of Cardiology*, **2018**, 269, 114-121	3.2	11
82	Direct Comparison of Cardiac Troponin T and I Using a Uniform and a Sex-Specific Approach in the Detection of Functionally Relevant Coronary Artery Disease. *Clinical Chemistry*, **2018**, 64, 1596-1606	5.5	11
81	Prohormones in the Early Diagnosis of Cardiac Syncope. *Journal of the American Heart Association*, **2017**, 6,	6	11
80	Combining high-sensitivity cardiac troponin and B-type natriuretic peptide in the detection of inducible myocardial ischemia. *Clinical Biochemistry*, **2018**, 52, 33-40	3.5	11
79	Diagnostic Accuracy of a High-Sensitivity Cardiac Troponin Assay with a Single Serum Test in the Emergency Department. *Clinical Chemistry*, **2019**, 65, 1006-1014	5.5	10

78	How to best use high-sensitivity cardiac troponin in patients with suspected myocardial infarction. *Clinical Biochemistry*, **2018**, 53, 143-155	3.5	10
77	Effect of the FDA Regulatory Approach on the 0/1-h Algorithm for Rapid Diagnosis of MI. *Journal of the American College of Cardiology*, **2017**, 70, 1532-1534	15.1	10
76	Drug-coated balloon versus drug-eluting stent in small coronary artery lesions: angiographic analysis from the BASKET-SMALL 2 trial. *Clinical Research in Cardiology*, **2020**, 109, 1114-1124	6.1	9
75	Delayed release of brain natriuretic peptide to identify myocardial ischaemia. *European Journal of Clinical Investigation*, **2015**, 45, 1175-83	4.6	9
74	Using High-Sensitivity Cardiac Troponin for the Exclusion of Inducible Myocardial Ischemia in Symptomatic Patients: A Cohort Study. *Annals of Internal Medicine*, **2020**, 172, 175-185	8	9
73	Proenkephalin and prognosis in heart failure with preserved ejection fraction: a GREAT network study. *Clinical Research in Cardiology*, **2019**, 108, 940-949	6.1	9
72	Rhabdomyolysis: A Noncardiac Source of Increased Circulating Concentrations of Cardiac Troponin T?. *Journal of the American College of Cardiology*, **2018**, 72, 2936-2937	15.1	9
71	Diagnostic and Prognostic Value of Lead aVR During Exercise Testing in Patients Suspected of Having Myocardial Ischemia. *American Journal of Cardiology*, **2017**, 119, 959-966	3	8
70	Procedural volume and outcomes in patients undergoing VA-ECMO support. *Critical Care*, **2020**, 24, 291	10.8	8
69	Performance of the ESC 0/1-h and 0/3-h Algorithm for the Rapid Identification of Myocardial Infarction Without ST-Elevation in Patients With Diabetes. *Diabetes Care*, **2020**, 43, 460-467	14.6	8
68	Inter-lead correlation analysis for automated detection of cable reversals in 12/16-lead ECG. *Computer Methods and Programs in Biomedicine*, **2016**, 134, 31-41	6.9	7
67	Utility of C-terminal proendothelin in the early diagnosis and risk stratification of patients with suspected acute myocardial infarction. *Canadian Journal of Cardiology*, **2014**, 30, 195-203	3.8	7
66	Clinical application of sensitive cardiac troponin assays: potential and limitations. *Biomarkers in Medicine*, **2010**, 4, 395-401	2.3	7
65	Clinical risk assessment of biotin interference with a high-sensitivity cardiac troponin T assay. *Clinical Chemistry and Laboratory Medicine*, **2020**, 58, 1931-1940	5.9	7
64	Biomarkers in cardiovascular medicine: towards precision medicine. *Swiss Medical Weekly*, **2019**, 149, w20125	3.1	7
63	Clinical utility of circulating interleukin-6 concentrations in the detection of functionally relevant coronary artery disease. *International Journal of Cardiology*, **2019**, 275, 20-25	3.2	7
62	Incremental diagnostic and prognostic value of the QRS-T angle, a 12-lead ECG marker quantifying heterogeneity of depolarization and repolarization, in patients with suspected non-ST-elevation myocardial infarction. *International Journal of Cardiology*, **2019**, 277, 8-15	3.2	7
61	Diagnostic value of ST-segment deviations during cardiac exercise stress testing: Systematic comparison of different ECG leads and time-points. *International Journal of Cardiology*, **2017**, 238, 166-172	3.2	6

60	Relative hypochromia and mortality in acute heart failure. *International Journal of Cardiology*, **2019**, 286, 104-110	3.2	6
59	Novel insights into the pathophysiology of different forms of stress testing. *Clinical Biochemistry*, **2014**, 47, 338-43	3.5	6
58	Daytime variation of perioperative myocardial injury in non-cardiac surgery and effect on outcome. *Heart*, **2019**, 105, 826-833	5.1	6
57	Cardiovascular Biomarkers in the Early Discrimination of Type 2 Myocardial Infarction. *JAMA Cardiology*, **2021**, 6, 771-780	16.2	6
56	Predicting Acute Myocardial Infarction with a Single Blood Draw. *Clinical Chemistry*, **2019**, 65, 437-450	5.5	5
55	Cardiomyocyte injury induced by hemodynamic cardiac stress: Differential release of cardiac biomarkers. *Clinical Biochemistry*, **2015**, 48, 1225-9	3.5	5
54	Effects of hemolysis on the diagnostic accuracy of cardiac troponin I for the diagnosis of myocardial infarction. *International Journal of Cardiology*, **2015**, 187, 313-5	3.2	5
53	Diagnostic value of the cardiac electrical biomarker, a novel ECG marker indicating myocardial injury, in patients with symptoms suggestive of non-ST-elevation myocardial infarction. *Annals of Noninvasive Electrocardiology*, **2018**, 23, e12538	1.5	5
52	Complement activation products in acute heart failure: Potential role in pathophysiology, responses to treatment and impacts on long-term survival. *European Heart Journal: Acute Cardiovascular Care*, **2018**, 7, 348-357	4.3	5
51	Measurement of cardiac troponin for exclusion of myocardial infarction. *Lancet, The*, **2016**, 387, 2288	40	5
50	Early Diagnosis of Myocardial Infarction in Patients With a History of Coronary Artery Bypass Grafting. *Journal of the American College of Cardiology*, **2019**, 74, 587-589	15.1	5
49	Performance of the European Society of Cardiology 0/1-Hour, 0/2-Hour, and 0/3-Hour Algorithms for Rapid Triage of Acute Myocardial Infarction : An International Collaborative Meta-analysis. *Annals of Internal Medicine*, **2021**,	8	5
48	Advanced ECG in 2016: is there more than just a tracing?. *Swiss Medical Weekly*, **2016**, 146, w14303	3.1	5
47	Limitations of infrared ear temperature measurement in clinical practice. *Swiss Medical Weekly*, **2010**, 140, w13131	3.1	5
46	Long-Term Results After Drug-Eluting Versus Bare-Metal Stent Implantation in Saphenous Vein Grafts: Randomized Controlled Trial. *Journal of the American Heart Association*, **2020**, 9, e017434	6	5
45	Effect of a Proposed Modification of the Type 1 and Type 2 Myocardial Infarction Definition on Incidence and Prognosis. *Circulation*, **2020**, 142, 2083-2085	16.7	5
44	Prediction of Patient Management in COVID-19 Using Deep Learning-Based Fully Automated Extraction of Cardiothoracic CT Metrics and Laboratory Findings. *Korean Journal of Radiology*, **2021**, 22, 994-1004	6.9	5
43	Reassessment of cardiovascular parameters and comorbidities in implantable cardioverter-defibrillator patients at the time of first replacement. *Clinical Cardiology*, **2018**, 41, 57-62	3.3	4

42	Effect of Acute Coronary Syndrome Probability on Diagnostic and Prognostic Performance of High-Sensitivity Cardiac Troponin. *Clinical Chemistry*, **2018**, 64, 515-525	5.5	4
41	Growth differentiation factor-15 and all-cause mortality in patients with suspected myocardial infarction. *International Journal of Cardiology*, **2019**, 292, 241-245	3.2	3
40	Prospective validation of N-terminal pro B-type natriuretic peptide cut-off concentrations for the diagnosis of acute heart failure. *European Journal of Heart Failure*, **2019**, 21, 813-815	12.3	3
39	Incidence and timing of serious arrhythmias after early revascularization in non ST-elevation myocardial infarction. *European Heart Journal: Acute Cardiovascular Care*, **2015**, 4, 359-64	4.3	3
38	Incidence and Predictors of Cardiomyocyte Injury in Elective Coronary Angiography. *American Journal of Medicine*, **2016**, 129, 537.e1-8	2.4	3
37	Circadian, weekly, seasonal, and temperature-dependent patterns of syncope aetiology in patients at increased risk of cardiac syncope. *Europace*, **2019**, 21, 511-521	3.9	3
36	Optimising the early rule-out and rule-in of myocardial infarction using biomarkers. *Cardiovascular Medicine(Switzerland)*,		3
35	Direct Comparison of Clinical Characteristics, Outcomes, and Risk Prediction in Patients with COVID-19 and Controls-A Prospective Cohort Study. *Journal of Clinical Medicine*, **2021**, 10,	5.1	3
34	Effect of COVID-19 on acute treatment of ST-segment elevation and Non-ST-segment elevation acute coronary syndrome in northwestern Switzerland. *IJC Heart and Vasculature*, **2021**, 32, 100686	2.4	3
33	Direct comparison of high-sensitivity cardiac troponin T and I in the early differentiation of type 1 vs. type 2 myocardial infarction. *European Heart Journal: Acute Cardiovascular Care*, **2021**,	4.3	3
32	Automatically computed ECG algorithm for the quantification of myocardial scar and the prediction of mortality. *Clinical Research in Cardiology*, **2018**, 107, 824-835	6.1	2
31	Influence of Antihypertensive Treatment on RAAS Peptides in Newly Diagnosed Hypertensive Patients. *Cells*, **2021**, 10,	7.9	2
30	Incremental value of high-frequency QRS analysis for diagnosis and prognosis in suspected exercise-induced myocardial ischaemia. *European Heart Journal: Acute Cardiovascular Care*, **2020**, 9, 836-847	4.3	2
29	Response by Kaier et al to Letter Regarding Article, "Direct Comparison of Cardiac Myosin-Binding Protein C With Cardiac Troponins for the Early Diagnosis of Acute Myocardial Infarction". *Circulation*, **2018**, 138, 544-545	16.7	2
28	Novel Criteria for the Observe-Zone of the ESC 0/1h-hs-cTnT Algorithm. *Circulation*, **2021**, 144, 773-787	16.7	2
27	Association of Previous Myocardial Infarction and Time to Presentation With Suspected Acute Myocardial Infarction. *Journal of the American Heart Association*, **2021**, 10, e017829	6	2
26	Characteristics and Outcomes of Type 2 Myocardial Infarction.. *JAMA Cardiology*, **2022**,	16.2	2
25	B-type natriuretic peptide secretion without change in intra-cardiac pressure. *Clinical Biochemistry*, **2015**, 48, 318-21	3.5	1

24	Diagnostic and prognostic value of ST-segment deviation scores in suspected acute myocardial infarction. *European Heart Journal: Acute Cardiovascular Care*, **2020**, 9, 857-868	4.3	1
23	Proenkephalin for the early detection of acute kidney injury in hospitalized patients with chronic kidney disease. *European Journal of Clinical Investigation*, **2018**, 48, e12999	4.6	1
22	Incidence, characteristics, determinants, and prognostic impact of recurrent syncope. *Europace*, **2020**, 22, 1885-1895	3.9	1
21	External Validation and Extension of a Clinical Score for the Discrimination of Type 2 Myocardial Infarction. *Journal of Clinical Medicine*, **2021**, 10,	5.1	1
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