## Frans H Rutten

List of Publications by Year in descending order

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133 papers

29,655 citations

28 h-index

186265

128 g-index

143 all docs 143 docs citations

times ranked

143

28357 citing authors

#	Article	IF	Citations
1	2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Heart Journal, 2016, 37, 2129-2200.	2.2	13,008
2	2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Journal of Heart Failure, 2016, 18, 891-975.	7.1	5,272
3	2020 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. European Heart Journal, 2021, 42, 1289-1367.	2.2	3,048
4	ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure 2012. European Journal of Heart Failure, 2012, 14, 803-869.	7.1	2,307
5	Epidemiology of heart failure. European Journal of Heart Failure, 2020, 22, 1342-1356.	7.1	948
6	How to diagnose heart failure with preserved ejection fraction: the HFA–PEFF diagnostic algorithm: a consensus recommendation from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC). European Heart Journal, 2019, 40, 3297-3317.	2.2	944
7	Epidemiology of heart failure: the prevalence of heart failure and ventricular dysfunction in older adults over time. A systematic review. European Journal of Heart Failure, 2016, 18, 242-252.	7.1	510
8	Unrecognized heart failure in elderly patients with stable chronic obstructive pulmonary disease. European Heart Journal, 2005, 26, 1887-1894.	2.2	378
9	$\hat{l}^2$ -Blockers May Reduce Mortality and Risk of Exacerbations in Patients With Chronic Obstructive Pulmonary Disease. Archives of Internal Medicine, 2010, 170, 880.	3.8	261
10	Right heart dysfunction and failure in heart failure with preserved ejection fraction: mechanisms and management. Position statement on behalf of the Heart Failure Association of the European Society of Cardiology. European Journal of Heart Failure, 2018, 20, 16-37.	7.1	239
11	Heart failure and chronic obstructive pulmonary disease: An ignored combination?. European Journal of Heart Failure, 2006, 8, 706-711.	7.1	238
12	How to diagnose heart failure with preserved ejection fraction: the HFA–PEFF diagnostic algorithm: a consensus recommendation from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC). European Journal of Heart Failure, 2020, 22, 391-412.	7.1	193
13	Prevalence of unrecognized heart failure in older persons with shortness of breath on exertion. European Journal of Heart Failure, 2014, 16, 772-777.	7.1	191
14	Selfâ€care of heart failure patients: practical management recommendations from the Heart Failure Association of the European Society of Cardiology. European Journal of Heart Failure, 2021, 23, 157-174.	7.1	181
15	Differences between general practitioners and cardiologists in diagnosis and management of heart failure: a survey in everyâ€day practice. European Journal of Heart Failure, 2003, 5, 337-344.	7.1	122
16	Yield of screening for atrial fibrillation in primary care with a hand-held, single-lead electrocardiogram device during influenza vaccination. Europace, 2016, 18, 1514-1520.	1.7	104
17	Sex Differences in Symptom Presentation in Acute Coronary Syndromes: A Systematic Review and Metaâ€analysis. Journal of the American Heart Association, 2020, 9, e014733.	3.7	96
18	The prevalence of left ventricular diastolic dysfunction and heart failure with preserved ejection fraction in men and women with type 2 diabetes: A systematic review and meta-analysis. Diabetes and Vascular Disease Research, 2018, 15, 477-493.	2.0	88

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19	Integration of a palliative approach into heart failure care: a <scp>European Society of Cardiology Heart Failure Association</scp> position paper. European Journal of Heart Failure, 2020, 22, 2327-2339.	7.1	88
20	Comparison of Bâ€ŧype natriuretic peptide assays for identifying heart failure in stable elderly patients with a clinical diagnosis of chronic obstructive pulmonary disease. European Journal of Heart Failure, 2007, 9, 651-659.	7.1	77
21	Routine primary care data for scientific research, quality of care programs and educational purposes: the Julius General Practitioners' Network (JGPN). BMC Health Services Research, 2018, 18, 735.	2.2	57
22	Effectiveness of the European Society of Cardiology/Heart Failure Association website â€~heartfailurematters.org' and an eâ€health adjusted care pathway in patients with stable heart failure: results of the â€~eâ€Vita HF' randomized controlled trial. European Journal of Heart Failure, 2019, 21, 238-246.	7.1	56
23	European Primary Care Cardiovascular Society (EPCCS) consensus guidance on stroke prevention in atrial fibrillation (SPAF) in primary care. European Journal of Preventive Cardiology, 2016, 23, 460-473.	1.8	54
24	Overdiagnosis of heart failure in primary care: a cross-sectional study. British Journal of General Practice, 2016, 66, e587-e592.	1.4	44
25	Integrated management of atrial fibrillation in primary care: results of the ALL-IN cluster randomized trial. European Heart Journal, 2020, 41, 2836-2844.	2.2	43
26	Unrecognized Heart Failure and Chronic Obstructive Pulmonary Disease (COPD) in Frail Elderly Detected Through a Near-Home Targeted Screening Strategy. Journal of the American Board of Family Medicine, 2014, 27, 811-821.	1.5	37
27	2020 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. Revista Espanola De Cardiologia (English Ed ), 2021, 74, 544.	0.6	33
28	Primary care patients with heart failure in the last year of their life. Family Practice, 2012, 29, 36-42.	1.9	32
29	Opportunistic screening versus usual care for diagnosing atrial fibrillation in general practice: a cluster randomised controlled trial. British Journal of General Practice, 2020, 70, e427-e433.	1.4	30
30	Prospective Randomized Open-label Trial to evaluate risk faCTor management in patients with Unruptured intracranial aneurysms: Study protocol. International Journal of Stroke, 2018, 13, 992-998.	5.9	29
31	Gender differences in pre-hospital time delay and symptom presentation in patients suspected of acute coronary syndrome in primary care. Family Practice, 2012, 29, 332-337.	1.9	28
32	Therapeutic inertia in the management of hypertension in primary care. Journal of Hypertension, 2021, 39, 1238-1245.	0.5	25
33	Cardiovascular magnetic resonance imaging to identify left-sided chronic heart failure in stable patients with chronic obstructive pulmonary disease. American Heart Journal, 2008, 156, 506-512.	2.7	24
34	Diagnostic Accuracy of the Explicit Diagnostic Criteria for Transient Ischemic Attack. Stroke, 2019, 50, 2080-2085.	2.0	24
35	Incidence of superficial venous thrombosis in primary care and risk of subsequent venous thromboembolic sequelae: a retrospective cohort study performed with routine healthcare data from the Netherlands. BMJ Open, 2018, 8, e019967.	1.9	23
36	Midâ€regional proâ€atrial natriuretic peptide for the early detection of nonâ€acute heart failure. European Journal of Heart Failure, 2019, 21, 1219-1227.	7.1	23

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37	Resting Heart Rate Is a Risk Factor for Mortality in Chronic Obstructive Pulmonary Disease, but Not for Exacerbations or Pneumonia. PLoS ONE, 2014, 9, e105152.	2.5	22
38	Tinkering and overruling the computer decision support system: Working strategies of telephone triage nurses who assess the urgency of callers suspected of having an acute cardiac event. Journal of Clinical Nursing, 2020, 29, 1175-1186.	3.0	22
39	heartfailurematters.org', an educational website for patients and carers from the Heart Failure Association of the European Society of Cardiology: objectives, use and future directions. European Journal of Heart Failure, 2017, 19, 1447-1454.	7.1	21
40	Debate: Prasugrel rather than ticagrelor is the preferred treatment for NSTE-ACS patients who proceed to PCI and pretreatment should not be performed in patients planned for an early invasive strategy. European Heart Journal, 2021, 42, 2973-2985.	2.2	21
41	COPD detected with screening: impact on patient management and prognosis. European Respiratory Journal, 2014, 44, 1571-1578.	6.7	20
42	Interpretability of the European Heart Failure Self-care Behaviour scale. Patient Preference and Adherence, 2017, Volume 11, 1841-1849.	1.8	20
43	The evidence for pharmacist care in outpatients with heart failure: a systematic review and metaâ€analysis. ESC Heart Failure, 2021, 8, 3566-3576.	3.1	20
44	Diagnosis and management of heart failure: a questionnaire among general practitioners and cardiologists. European Journal of Heart Failure, 2003, 5, 345-348.	7.1	19
45	Effectiveness of an interactive platform, and the ESC/HFA heartfailurematters.org website in patients with heart failure: design of the multicentre randomized eâ€√ita heart failure trial. European Journal of Heart Failure, 2015, 17, 1310-1316.	7.1	19
46	Efficient selective screening for heart failure in elderly men and women from the community: A diagnostic individual participant data meta-analysis. European Journal of Preventive Cardiology, 2018, 25, 437-446.	1.8	19
47	A nomogram was developed to enhance the use of multinomial logistic regression modeling in diagnostic research. Journal of Clinical Epidemiology, 2016, 71, 51-57.	5.0	18
48	Practical guidance on heart failure diagnosis and management in primary care: recent EPCCS recommendations. British Journal of General Practice, 2017, 67, 326-327.	1.4	18
49	Heart failure with preserved, midâ€range, and reduced ejection fraction across health care settings: an observational study. ESC Heart Failure, 2022, 9, 363-372.	3.1	17
50	Prevalence of left ventricular systolic dysfunction and heart failure with reduced ejection fraction in men and women with type 2 diabetes mellitus: a systematic review and meta-analysis. Cardiovascular Diabetology, 2018, 17, 58.	6.8	16
51	Optimisation of telephone triage of callers with symptoms suggestive of acute cardiovascular disease in out-of-hours primary care: observational design of the Safety First study. BMJ Open, 2019, 9, e027477.	1.9	16
52	Opportunistic screening models for high-risk men and women to detect diastolic dysfunction and heart failure with preserved ejection fraction in the community. European Journal of Preventive Cardiology, 2019, 26, 613-623.	1.8	16
53	Measurement of ECG abnormalities and cardiovascular risk classification: a cohort study of primary care patients in the Netherlands. British Journal of General Practice, 2015, 65, e1-e8.	1.4	15
54	Candidate Biomarkers for the Diagnosis of Transient Ischemic Attack: A Systematic Review. Cerebrovascular Diseases, 2019, 47, 207-216.	1.7	15

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55	Accuracy of telephone triage in primary care patients with chest discomfort: a cross-sectional study. Open Heart, 2020, 7, e001376.	2.3	14
56	Evaluation of the cardiac amyloidosis clinical pathway implementation: a real-world experience. European Heart Journal Open, 2022, 2, .	2.3	13
57	B-type natriuretic peptide assays for detecting heart failure in the elderly: Same value as those in the younger?. International Journal of Cardiology, 2008, 125, 161-165.	1.7	12
58	Safety of switching from vitamin K antagonist to non-vitamin K antagonist oral anticoagulant in frail elderly with atrial fibrillation: rationale and design of the FRAIL-AF randomised controlled trial. BMJ Open, 2019, 9, e032488.	1.9	12
59	Sex-specific microRNAs in women with diabetes and left ventricular diastolic dysfunction or HFpEF associate with microvascular injury. Scientific Reports, 2020, 10, 13945.	3.3	12
60	What the General Practitioner Needs to Know About Their Chronic Heart Failure Patientt. Cardiac Failure Review, 2016, 2, 79-84.	3.0	12
61	The Impending Epidemic of Chronic Cardiopulmonary Disease and Multimorbidity. Chest, 2015, 148, 865-869.	0.8	11
62	Diagnostic and prognostic utility of mid-expiratory flow rate in older community-dwelling persons with respiratory symptoms, but without chronic obstructive pulmonary disease. BMC Pulmonary Medicine, 2015, 15, 83.	2.0	11
63	Opportunistic screening for heart failure with natriuretic peptides in patients with atrial fibrillation: a meta-analysis of individual participant data of four screening studies. Heart, 2018, 104, 1236.1-1237.	2.9	11
64	Patient delay in TIA: a systematic review. Journal of Neurology, 2019, 266, 1051-1058.	3.6	11
65	Questions and answers on workup diagnosis and risk stratification: a companion document of the 2020 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. European Heart Journal, 2021, 42, 1379-1386.	2.2	11
66	Serum biomarkers for the early diagnosis of TIA: The MIND-TIA study protocol. BMC Neurology, 2015, 15, 119.	1.8	10
67	How big a problem is heart failure with a normal ejection fraction?. BMJ, The, 2016, 353, i1706.	6.0	10
68	Cost-effectiveness of screening strategies to detect heart failure in patients with type 2 diabetes. Cardiovascular Diabetology, 2016, 15, 48.	6.8	10
69	Serum biomarkers in patients suspected of transient ischaemic attack in primary care: a diagnostic accuracy study. BMJ Open, 2019, 9, e031774.	1.9	10
70	Is treatment of atrial fibrillation in primary care based on thromboembolic risk assessment?. Family Practice, 2003, 20, 16-21.	1.9	9
71	Sex-Specific Relations of Cardiovascular Risk Factors With Left Ventricular Diastolic Dysfunction/Heart Failure With Preserved Ejection Fraction Are Underreported: A Call for Action. Journal of Cardiac Failure, 2018, 24, 412-414.	1.7	9
72	Risk of cardiac and non-cardiac adverse events in community-dwelling older patients with atrial fibrillation: a prospective cohort study in the Netherlands. BMJ Open, 2018, 8, e021681.	1.9	9

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73	Are there gender disparities in symptom presentation or triage of patients with chest discomfort at primary care out-of-hours services? An observational study. BMJ Open, 2019, 9, e031613.	1.9	9
74	Incidence of atrial fibrillation, ischaemic heart disease and heart failure in patients with diabetes. Cardiovascular Diabetology, 2021, 20, 123.	6.8	9
75	Changes in the Diagnosis of Stroke and Cardiovascular Conditions in Primary Care During the First 2 COVID-19 Waves in the Netherlands. Neurology, 2022, 98, e564-e572.	1.1	9
76	Integrated management of atrial fibrillation including tailoring of anticoagulation in primary care: study design of the ALL-IN cluster randomised trial. BMJ Open, 2017, 7, e015510.	1.9	8
77	Misclassification of Both Chronic Obstructive Pulmonary Disease and Heart Failure. JAMA Network Open, 2018, 1, e185486.	5.9	8
78	Discovery of biomarkers for the presence and progression of left ventricular diastolic dysfunction and HEart faiLure with Preserved ejection Fraction in patients at risk for cardiovascular disease: rationale and design of the HELPFul case-cohort study in a Dutch cardiology outpatient clinic. BMJ Open, 2019, 9, e028408.	1.9	8
79	Validation and impact of a simplified clinical decision rule for diagnosing pulmonary embolism in primary care: design of the PECAN prospective diagnostic cohort management study. BMJ Open, 2019, 9, e031639.	1.9	8
80	Interactional implications of either/or-questions during telephone triage of callers with chest discomfort in out-of-hours primary care: A conversation analysis. Patient Education and Counseling, 2021, 104, 308-314.	2.2	8
81	$\hat{l}^2$ -Blockers and All-Cause Mortality in Adults with Episodes of Acute Bronchitis: An Observational Study. PLoS ONE, 2013, 8, e67122.	2.5	8
82	Sex- and age specific association of new-onset atrial fibrillation with in-hospital mortality in hospitalised COVID-19 patients. IJC Heart and Vasculature, 2022, 39, 100970.	1.1	8
83	A systematic review and meta-analysis of diagnostic delay in pulmonary embolism. European Journal of General Practice, 2022, 28, 165-172.	2.0	8
84	Reasons for non-adherence to practice guidelines on stroke prevention in patients with atrial fibrillation: A cross-sectional study in primary care. International Journal of Cardiology, 2015, 187, 525-526.	1.7	7
85	Prognosis of screen-detected heart failure with reduced and preserved ejection fraction in patients with type 2 diabetes. International Journal of Cardiology, 2015, 185, 162-164.	1.7	7
86	Design and rationale of DUTCH-AF: a prospective nationwide registry programme and observational study on long-term oral antithrombotic treatment in patients with atrial fibrillation. BMJ Open, 2020, 10, e036220.	1.9	7
87	Proactive screening for symptoms: A simple method to improve early detection of unrecognized cardiovascular disease in primary care. Results from the Lifelines Cohort Study. Preventive Medicine, 2020, 138, 106143.	3.4	7
88	Gender-stratified analyses of symptoms associated with acute coronary syndrome in telephone triage: a cross-sectional study. BMJ Open, 2021, 11, e042406.	1.9	7
89	Electrocardiographic Features of Left Ventricular Diastolic Dysfunction and Heart Failure With Preserved Ejection Fraction: A Systematic Review. Frontiers in Cardiovascular Medicine, 2021, 8, 772803.	2.4	7
90	Quality of drug label information on QT interval prolongation. International Journal of Risk and Safety in Medicine, 2014, 26, 89-98.	0.6	6

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91	Effect of training general practitioners in drug treatment of newly detected heart failure patients with reduced or preserved ejection fraction: A cluster randomized trial. International Journal of Cardiology, 2016, 217, 174-182.	1.7	6
92	Accounting for timeâ€dependent treatment use when developing a prognostic model from observational data: A review of methods. Statistica Neerlandica, 2020, 74, 38-51.	1.6	6
93	Nearâ€home heart failure care. European Journal of Heart Failure, 2019, 21, 110-111.	7.1	6
94	Sodium–glucose coâ€transporter 2 inhibitors and acute heart failure. European Journal of Heart Failure, 2020, 22, 723-725.	7.1	6
95	Chest discomfort at night and risk of acute coronary syndrome: cross-sectional study of telephone conversations. Family Practice, 2020, 37, 473-478.	1.9	6
96	Safety information on QT-interval prolongation: comparison of European Union and United States drug labeling. Drug Discovery Today, 2014, 19, 1294-1297.	6.4	5
97	Extended prediction rule to optimise early detection of heart failure in older persons with non-acute shortness of breath: a cross-sectional study. BMJ Open, 2016, 6, e008225.	1.9	5
98	Vascular extracellular vesicles in comorbidities of heart failure with preserved ejection fraction in men and women: The hidden players. A mini review. Vascular Pharmacology, 2018, 111, 1-6.	2.1	5
99	Delay in patients suspected of transient ischaemic attack: a cross-sectional study. BMJ Open, 2019, 9, e027161.	1.9	5
100	Persistent Symptoms and Health Needs of Women and Men With Non-Obstructed Coronary Arteries in the Years Following Coronary Angiography. Frontiers in Cardiovascular Medicine, 2021, 8, 670843.	2.4	5
101	Representativeness of Participants in Heart Failure E-Health Trials: A Report From the E-Vita HF Study. Journal of Cardiac Failure, 2017, 23, 88-89.	1.7	4
102	Age at menarche and heart failure risk: The EPIC-NL study. Maturitas, 2020, 131, 34-39.	2.4	4
103	Accuracy of telephone triage in patients suspected of transient ischaemic attack or stroke: a cross-sectional study. BMC Family Practice, 2020, 21, 256.	2.9	4
104	Improving early diagnosis of cardiovascular disease in patients with type 2 diabetes and COPD: protocol of the RED-CVD cluster randomised diagnostic trial. BMJ Open, 2021, 11, e046330.	1.9	4
105	Improving the quality and clinical relevance of diagnostic studies. BMJ: British Medical Journal, 2006, 332, 1129.	2.3	3
106	$\hat{l}^2$ -blockers and their mortality benefits: underprescribed in heart failure and chronic obstructive pulmonary disease. Future Cardiology, 2011, 7, 43-53.	1.2	3
107	blockers for adults with chronic obstructive pulmonary disease. BMJ, The, 2013, 347, f7050-f7050.	6.0	3
108	Rationale, design and baseline results of the Treatment Optimisation in Primary care of Heart failure in the Utrecht region (TOPHU) study: a cluster randomised controlled trial. BMC Family Practice, 2015, 16, 130.	2.9	3

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109	Frequency and prognostic impact of mid-expiratory flow reduction in stable patients six months after hospitalisation for heart failure with reduced ejection fraction. International Journal of Cardiology, 2017, 227, 727-733.	1.7	3
110	Time trends in the use and appropriateness of natriuretic peptide testing in primary care: an observational study. BJGP Open, 2020, 4, bjgpopen20X101074.	1.8	3
111	Real-life impact of clinical prediction rules for venous thromboembolism in primary care: a cross-sectional cohort study. BMJ Open, 2020, 10, e039913.	1.9	3
112	Cardiovascular vulnerability predicts hospitalisation in primary care clinically suspected and confirmed COVID-19 patients: A model development and validation study. PLoS ONE, 2022, 17, e0266750.	2.5	3
113	Determinants of Patient Delay in Transient Ischemic Attack. European Neurology, 2019, 81, 139-144.	1.4	2
114	Clinical research study implementation of case-finding strategies for heart failure and chronic obstructive pulmonary disease in the elderly with reduced exercise tolerance or dyspnea: A cluster randomized trial. American Heart Journal, 2020, 220, 73-81.	2.7	2
115	The new Primary Care and Risk Factor Management (PCRFM) nucleus of the European Association of Preventive Cardiology: A call for action. European Journal of Preventive Cardiology, 2020, 27, 1328-1330.	1.8	2
116	Limited reliability of experts' assessment of telephone triage in primary care patients with chest discomfort. Journal of Clinical Epidemiology, 2020, 127, 117-124.	5.0	2
117	Natriuretic peptide tests in suspected acute heart failure. BMJ, The, 2015, 350, h1164-h1164.	6.0	1
118	The role of betaâ€blockers in outcomes of patients hospitalized for heart failure and chronic obstructive pulmonary disease. European Journal of Heart Failure, 2016, 18, 849-850.	7.1	1
119	Decelerating trends in heart failure survival. European Journal of Heart Failure, 2019, 21, 1326-1328.	7.1	1
120	Missed acute coronary syndrome during telephone triage at out-of-hours primary care: lessons from a case-control study. British Journal of General Practice, 2020, 70, bjgp20X711329.	1.4	1
121	Disease management with home telemonitoring aimed at substitution of usual care in the Netherlands: Post-hoc analyses of the e-Vita HF study. Journal of Cardiology, 2022, 79, 1-5.	1.9	1
122	Unequal prescription of anticoagulants among females and males with atrial fibrillation and similar stroke risk: Should we omit sex category from the CHA2DS2-VASc score?. Heart Rhythm, 2022, 19, 860-861.	0.7	1
123	Highlights of the 2011 Scientific Sessions of the Congress of the Heart Failure Association of the European Society of Cardiology. Future Cardiology, 2011, 7, 739-743.	1.2	0
124	Health status of older patients with type 2 diabetes and screen-detected heart failure is significantly lower than those without. International Journal of Cardiology, 2016, 211, 79-83.	1.7	0
125	Hartfalen en COPD. Bijblijven (Amsterdam, Netherlands), 2018, 34, 448-455.	0.0	0
126	Response by Dolmans et al to Letter Regarding Article, "Diagnostic Accuracy of the Explicit Diagnostic Criteria for Transient Ischemic Attack: A Validation Study― Stroke, 2019, 50, e336.	2.0	0

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127	Stroke Rate Variation and Anticoagulation Benefit in Atrial Fibrillation. Annals of Internal Medicine, 2019, 170, 816.	3.9	0
128	MO446THE ASSOCIATION BETWEEN RENAL FUNCTION AND LEFT VENTRICULAR DIASTOLIC DYSFUNCTION AND HEART FAILURE WITH PRESERVED EJECTION FRACTION. Nephrology Dialysis Transplantation, 2021, 36, .	0.7	0
129	Call Characteristics of Patients Suspected of Transient Ischemic Attack (TIA) or Stroke During Out-of-Hours Service: A Comparison Between Men and Women. Frontiers in Neurology, 2021, 12, 669090.	2.4	0
130	Chest discomfort at night and risk of acute coronary syndrome: cross-sectional study of telephone conversations. British Journal of General Practice, 2020, 70, bjgp20X711317.	1.4	0
131	Missed Acute Coronary Syndrome During Telephone Triage at Out-of-Hours Primary Care. Journal of Patient Safety, 2020, Publish Ahead of Print, .	1.7	O
132	Is the time of calling helpful for differentiating transient ischaemic attack and stroke from mimics in primary care out-of-hours services? A cross-sectional study. BMJ Open, 2020, 10, e041408.	1.9	0
133	Optimising telephone triage of patients calling for acute shortness of breath during out-of-hours primary care: protocol of a multiple methods study (Opticall). BMJ Open, 2022, 12, e059549.	1.9	O