

Nico Bruining,, Fesc

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

7,160
citations

94269

37
h-index

56606

83
g-index

136
all docs

136
docs citations

136
times ranked

5471
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Intelligence and Transcatheter Interventions for Structural Heart Disease: A glance at the (near) future. <i>Trends in Cardiovascular Medicine</i> , 2022, 32, 153-159.	2.3	15
2	Telemedical monitoring by an implanted loop recorder: gateway to personalized medicine? Results of the SMART-MI study. <i>Cardiovascular Research</i> , 2022, 118, e45-e47.	1.8	2
3	Critical appraisal of artificial intelligence-based prediction models for cardiovascular disease. <i>European Heart Journal</i> , 2022, 43, 2921-2930.	1.0	50
4	The post-pandemic legacy: the breakthrough of digital health and telemedicine. <i>Cardiovascular Research</i> , 2021, 117, e118-e119.	1.8	10
5	The 12-lead surface electrocardiogram: a sheet of paper or a realm of concealed information asking for deep learning analysis. <i>European Heart Journal Digital Health</i> , 2021, 2, 356-357.	0.7	4
6	Will Artificial Intelligence Deliver Precision Medicine for Patients With Aortic Stenosis?. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 2141-2143.	1.1	1
7	The European Society of Cardiology - A Digital Educator. <i>Journal of European CME</i> , 2021, 10, 2014039.	0.6	4
8	The 1-year anniversary of the <i>European Heart Journal â€“ Digital Health</i>. <i>European Heart Journal Digital Health</i> , 2021, 2, 548-549.	0.7	1
9	Reply. <i>JACC: Cardiovascular Interventions</i> , 2020, 13, 2581-2582.	1.1	3
10	Timing of pulmonary valve replacement in patients with corrected Fallot to prevent QRS prolongation. <i>European Journal of Cardio-thoracic Surgery</i> , 2020, 58, 559-566.	0.6	6
11	Addressing interventional periprocedural anxiety with virtual reality. <i>EuroIntervention</i> , 2020, 16, e963-e965.	1.4	1
12	Welcome on behalf of the Editors! Letter from the editor. <i>European Heart Journal Digital Health</i> , 2020, 1, 1-2.	0.7	3
13	International feasibility trial on the use of an interactive mobile health platform for cardiac rehabilitation: protocol of the Diversity 1 study. <i>BMJ Health and Care Informatics</i> , 2019, 26, e100042.	1.4	1
14	Identifying cardiac pathologies with coronary wave intensity analysis: an enrichment to the ever-expanding coronary haemodynamics armamentarium?. <i>European Heart Journal</i> , 2018, 39, 1815-1817.	1.0	1
15	Coronary calcification as a mechanism of plaque/media shrinkage in vessels treated with bioresorbable vascular scaffold: A multimodality intracoronary imaging study. <i>Atherosclerosis</i> , 2018, 269, 6-13.	0.4	10
16	CORONARY CALCIFICATION AS A MECHANISM OF PLAQUE/MEDIA SHRINKAGE: A MULTIMODALITY INTRACORONARY IMAGING STUDY. <i>Journal of the American College of Cardiology</i> , 2017, 69, 52.	1.2	4
17	Serial Assessment of Tissue Precursors andÂProgression of Coronary Calcification Analyzed by Fusion of IVUS and OCT. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 1151-1161.	2.3	31
18	The future of computers in cardiology: â€“the connected patientâ€™?. <i>European Heart Journal</i> , 2017, 38, 1781-1794.	1.0	5

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19	Robot-assisted telestenting: brightening the light of science. <i>EuroIntervention</i> , 2017, 12, 1561-1563.	1.4	4
20	Progression of coronary artery calcification at the crossroads: sign of progression or stabilization of coronary atherosclerosis?. <i>Cardiovascular Diagnosis and Therapy</i> , 2016, 6, 250-258.	0.7	29
21	Differences in Frame Geometry Between Balloon-expandable and Self-expanding Transcatheter Heart Valves and Association With Aortic Regurgitation. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2016, 69, 392-400.	0.4	10
22	Serial Coronary Imaging of Early Atherosclerosis Development in Fast-Food-Fed Diabetic and Nondiabetic Swine. <i>JACC Basic To Translational Science</i> , 2016, 1, 449-460.	1.9	6
23	Patient-Specific Computer Modeling to Predict Aortic Regurgitation After Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, 508-512.	1.1	91
24	Mobile health in cardiology: a review of currently available medical apps and equipment for remote monitoring. <i>Expert Review of Medical Devices</i> , 2016, 13, 823-830.	1.4	30
25	Mobile health in adults with congenital heart disease: current use and future needs. <i>Netherlands Heart Journal</i> , 2016, 24, 647-652.	0.3	23
26	Defining the non-vulnerable and vulnerable patients with computed tomography coronary angiography: evaluation of atherosclerotic plaque burden and composition. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 481-491.	0.5	39
27	e-Health: a position statement of the European Society of Cardiology. <i>European Heart Journal</i> , 2016, 37, 63-66.	1.0	131
28	Patient-specific image-based computer simulation for the prediction of valve morphology and calcium displacement after TAVI with the Medtronic CoreValve and the Edwards SAPIEN valve. <i>EuroIntervention</i> , 2016, 11, 1044-1052.	1.4	67
29	Does frame geometry play a role in aortic regurgitation after Medtronic CoreValve implantation?. <i>EuroIntervention</i> , 2016, 12, 519-525.	1.4	11
30	CardioPulse Articles. <i>European Heart Journal</i> , 2015, 36, 832-836.	1.0	0
31	Electrocardiographic imaging-based recognition of possible induced bundle branch blocks during transcatheter aortic valve implantations. <i>Europace</i> , 2014, 16, 750-757.	0.7	7
32	Acquisition and analysis of cardiovascular signals on smartphones: potential, pitfalls and perspectives. <i>European Journal of Preventive Cardiology</i> , 2014, 21, 4-13.	0.8	74
33	The impact of Fourier-Domain optical coherence tomography catheter induced motion artefacts on quantitative measurements of a PLLA-based bioresorbable scaffold. <i>International Journal of Cardiovascular Imaging</i> , 2014, 30, 1013-1026.	0.7	17
34	Coronary Plaque Quantification by Multi-slice Computed Tomography. , 2014, , 3-19.		0
35	How clinically effective is intravascular ultrasound in interventional cardiology? Present and future perspectives. <i>Expert Review of Medical Devices</i> , 2013, 10, 735-749.	1.4	5
36	Reproducibility of qualitative assessment of stent struts coverage by optical coherence tomography. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 5-11.	0.7	16

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37	Interstudy reproducibility of the second generation, Fourier domain optical coherence tomography in patients with coronary artery disease and comparison with intravascular ultrasound: a study applying automated contour detection. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 39-51.	0.7	24
38	TCT-557 IVUS Echogenicity Analysis of the Paclitaxel-Eluting Absorbable Magnesium Scaffold (DREAMS). <i>Journal of the American College of Cardiology</i> , 2013, 62, B168.	1.2	0
39	The diabetes conundrum: despite increasing incidences of coronary disease in diabetic type II patients, their first cathlab presentation is later than expected. <i>European Heart Journal</i> , 2013, 34, 715-718.	1.0	2
40	Serial Observation of Drug-Eluting Absorbable Metal Scaffold. <i>Circulation: Cardiovascular Interventions</i> , 2013, 6, 644-653.	1.4	26
41	Tools & Techniques: Analysis of clustered data in interventional cardiology: current practice and methodological advice. <i>EuroIntervention</i> , 2013, 9, 162-164.	1.4	13
42	Quantification of scientific output in cardiovascular medicine: a perspective based on global data. <i>EuroIntervention</i> , 2013, 9, 975-978.	1.4	4
43	Invasive Imaging of Bioresorbable Coronary Scaffolds â€“ A Review. <i>Interventional Cardiology Review</i> , 2013, 8, 23.	0.7	2
44	Long-Term (>10 Years) Clinical Outcomes of First-in-Human Biodegradable Poly-L-lactic Acid Coronary Stents. <i>Circulation</i> , 2012, 125, 2343-2353.	1.6	209
45	Endothelial-dependent vasomotion in a coronary segment treated by ABSORB everolimus-eluting bioresorbable vascular scaffold system is related to plaque composition at the time of bioresorption of the polymer: indirect finding of vascular reparative therapy?. <i>European Heart Journal</i> , 2012, 33, 1325-1333.	1.0	138
46	CardioPulse Articles. <i>European Heart Journal</i> , 2012, 33, 1417-1425.	1.0	4
47	Quantitative Optical Frequency Domain Imaging Assessment of In-Stent Structures in Patients With ST-Segment Elevation Myocardial Infarction. <i>Circulation Journal</i> , 2012, 76, 2822-2831.	0.7	9
48	Expert review document part 2: methodology, terminology and clinical applications of optical coherence tomography for the assessment of interventional procedures. <i>European Heart Journal</i> , 2012, 33, 2513-2520.	1.0	349
49	Consensus Standards for Acquisition, Measurement, and Reporting of Intravascular Optical Coherence Tomography Studies. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1058-1072.	1.2	1,530
50	Optical Coherence Tomography: Potential Clinical Applications. <i>Current Cardiovascular Imaging Reports</i> , 2012, 5, 206-220.	0.4	36
51	AS-067 Endothelial-Dependent Vasomotion in Coronary Segment Treated by ABSORB Everolimus-Eluting Bioresorbable Vascular Scaffold System is Related to Plaque Composition at the Time of Bioresorption of the Polymer: Indirect Finding of Vascular Reparative Therapy?. <i>American Journal of Cardiology</i> , 2012, 109, S33-S34.	0.7	1
52	Morphological and functional evaluation of the bioresorption of the bioresorbable everolimus-eluting vascular scaffold using IVUS, echogenicity and vasomotion testing at two year follow-up: a patient level insight into the ABSORB A clinical trial. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 51-58.	0.7	19
53	High-speed intracoronary optical frequency domain imaging: implications for three-dimensional reconstruction and quantitative analysis. <i>EuroIntervention</i> , 2012, 7, 1216-1226.	1.4	37
54	Head to head comparison of optical coherence tomography, intravascular ultrasound echogenicity and virtual histology for the detection of changes in polymeric struts over time: insights from the ABSORB trial. <i>EuroIntervention</i> , 2012, 8, 352-358.	1.4	5

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55	Serial In Vivo Intravascular Ultrasound-Based Echogenicity Changes of Everolimus-Eluting Bioresorbable Vascular Scaffold During the First 12 Months After Implantation. <i>JACC: Cardiovascular Interventions</i> , 2011, 4, 1281-1289.	1.1	19
56	IVUS-based imaging modalities for tissue characterization: similarities and differences. <i>International Journal of Cardiovascular Imaging</i> , 2011, 27, 215-224.	0.7	158
57	The diagnostic value of intracoronary optical coherence tomography. <i>Herz</i> , 2011, 36, 417-429.	0.4	48
58	Long-term application of vitamin K antagonists, more harm than good? The additional value of imaging. <i>European Heart Journal</i> , 2011, 32, 2473-2475.	1.0	2
59	Intravascular ultrasound radiofrequency analysis after optimal coronary stenting with initial quantitative coronary angiography guidance: an ATHEROREMO sub-study. <i>EuroIntervention</i> , 2011, 6, 977-984.	1.4	11
60	Retrospective image-based gating of intracoronary optical coherence tomography: implications for quantitative analysis. <i>EuroIntervention</i> , 2011, 6, 1098-1103.	1.4	7
61	Comparison between the first and second generation bioresorbable vascular scaffolds: a six month virtual histology study. <i>EuroIntervention</i> , 2011, 6, 1110-1116.	1.4	16
62	Clinical expert consensus document on standards for acquisition, measurement and reporting of intravascular ultrasound regression/progression studies. <i>EuroIntervention</i> , 2011, 6, 1123-1130.	1.4	137
63	Impact factors: scientific and career assessment by numbers. <i>EuroIntervention</i> , 2011, 7, 143-147.	1.4	7
64	Lumen enhancement influences absolute noncalcific plaque density on multislice computed tomography coronary angiography: ex-vivo validation and in-vivo demonstration. <i>Journal of Cardiovascular Medicine</i> , 2010, 11, 337-344.	0.6	21
65	Monitoring In Vivo Absorption of a Drug-Eluting Bioabsorbable Stent With Intravascular Ultrasound-Derived Parameters. <i>JACC: Cardiovascular Interventions</i> , 2010, 3, 449-456.	1.1	35
66	Automatic Detection of Bioabsorbable Coronary Stents in IVUS Images Using a Cascade of Classifiers. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 535-537.	3.6	14
67	Reproducibility of coronary Fourier domain optical coherence tomography: quantitative analysis of in vivo stented coronary arteries using three different software packages. <i>EuroIntervention</i> , 2010, 6, 371-379.	1.4	57
68	A Histological "Fly-Through" of a Diseased Coronary Artery. <i>Circulation: Cardiovascular Imaging</i> , 2009, 2, e8-9.	1.3	2
69	Fully automatic three-dimensional quantitative analysis of intracoronary optical coherence tomography. <i>Catheterization and Cardiovascular Interventions</i> , 2009, 74, 1058-1065.	0.7	47
70	Quantitative Ex Vivo and In Vivo Comparison of Lumen Dimensions Measured by Optical Coherence Tomography and Intravascular Ultrasound in Human Coronary Arteries. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2009, 62, 615-624.	0.4	54
71	A bioabsorbable everolimus-eluting coronary stent system (ABSORB): 2-year outcomes and results from multiple imaging methods. <i>Lancet, The</i> , 2009, 373, 897-910.	6.3	755
72	Intravascular Ultrasound Registration/Integration with Coronary Angiography. <i>Cardiology Clinics</i> , 2009, 27, 531-540.	0.9	9

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73	Coronary calcium significantly affects quantitative analysis of coronary ultrasound: importance for atherosclerosis progression/regression studies. <i>Coronary Artery Disease</i> , 2009, 20, 409-414.	0.3	27
74	Re-examining minimal luminal diameter relocation and quantitative coronary angiography " intravascular ultrasound correlations in stented saphenous vein grafts: methodological. <i>EuroIntervention</i> , 2009, 4, 633-640.	1.4	4
75	Compositional volumetry of non-calcified coronary plaques by multislice computed tomography: an ex vivo feasibility study. <i>EuroIntervention</i> , 2009, 5, 558-564.	1.4	2
76	Invasive Coronary Imaging. <i>Medical Radiology</i> , 2009, , 25-98.	0.0	0
77	Coronary plaque composition as assessed by greyscale intravascular ultrasound and radiofrequency spectral data analysis. <i>International Journal of Cardiovascular Imaging</i> , 2008, 24, 811-818.	0.7	15
78	A novel approach for quantitative analysis of intracoronary optical coherence tomography: High interobserver agreement with computer-assisted contour detection. <i>Catheterization and Cardiovascular Interventions</i> , 2008, 72, 228-235.	0.7	63
79	Late Stent Recoil of the Bioabsorbable Everolimus-Eluting Coronary Stent and its Relationship With Plaque Morphology. <i>Journal of the American College of Cardiology</i> , 2008, 52, 1616-1620.	1.2	88
80	Quantification of Coronary Plaque by 64-slice Computed Tomography: A Comparison with Quantitative Intracoronary Ultrasound. <i>Investigative Radiology</i> , 2008, 43, 314-321.	3.5	83
81	Quantitative multi-modality imaging analysis of "bioabsorbable poly-L-lactic acid stent design in the acute phase: a comparison between 2- and 3D-QCA, QCU and QMSCT-CA. <i>EuroIntervention</i> , 2008, 4, 285-291.	1.4	43
82	Effect of perindopril on coronary remodelling: insights from a multicentre, randomized study. <i>European Heart Journal</i> , 2007, 28, 2326-2331.	1.0	37
83	Non-invasive visualization of coronary atherosclerosis: state-of-art. <i>Journal of Cardiovascular Medicine</i> , 2007, 8, 129-137.	0.6	23
84	Reproducible coronary plaque quantification by multislice computed tomography. <i>Catheterization and Cardiovascular Interventions</i> , 2007, 69, 857-865.	0.7	29
85	Three-dimensional and quantitative analysis of atherosclerotic plaque composition by automated differential echogenicity. <i>Catheterization and Cardiovascular Interventions</i> , 2007, 70, 968-978.	0.7	56
86	Meta-Analysis of the Studies Assessing Temporal Changes in Coronary Plaque Volume Using Intravascular Ultrasound. <i>American Journal of Cardiology</i> , 2007, 99, 5-10.	0.7	44
87	Two-Year Serial Coronary Angiographic and Intravascular Ultrasound Analysis of In-Stent Angiographic Late Lumen Loss and Ultrasonic Neointimal Volume from the TAXUS II Trial. <i>American Journal of Cardiology</i> , 2007, 99, 607-615.	0.7	36
88	Intravascular Ultrasound Comparison of Sirolimus-Eluting Stent Versus Bare Metal Stent Implantation in Diseased Saphenous Vein Grafts (from the RRISC [Reduction of Restenosis In Saphenous) Tj ETQq0,0,0 rgBT /Overlock 18 52-58.	0.7	18
89	Long-Term Effect of Perindopril on Coronary Atherosclerosis Progression (from the PERindopril"™s) Tj ETQq1 1 0.784314 rgBT /Overdo	0.7	59
90	Influence of convolution filtering on coronary plaque attenuation values: observations in an ex vivo model of multislice computed tomography coronary angiography. <i>European Radiology</i> , 2007, 17, 1842-1849.	2.3	62

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91	Noninvasive Detection of Subclinical Coronary Atherosclerosis Coupled With Assessment of Changes in Plaque Characteristics Using Novel Invasive Imaging Modalities. <i>Journal of the American College of Cardiology</i> , 2006, 47, 1134-1142.	1.2	112
92	Randomized Double-Blind Comparison of Sirolimus-Eluting Stent Versus Bare-Metal Stent Implantation in Diseased Saphenous Vein Grafts. <i>Journal of the American College of Cardiology</i> , 2006, 48, 2423-2431.	1.2	243
93	In vivo Variability in Quantitative Coronary Ultrasound and Tissue Characterization Measurements with Mechanical and Phased-array Catheters. <i>International Journal of Cardiovascular Imaging</i> , 2006, 22, 47-53.	0.7	20
94	Revisiting late loss and neointimal volumetric measurements in a drug-eluting stent trial: Analysis from the SPIRIT FIRST trial. <i>Catheterization and Cardiovascular Interventions</i> , 2006, 67, 188-197.	0.7	26
95	Multislice Spiral Computed Tomography for the Evaluation of Stent Patency After Left Main Coronary Artery Stenting. <i>Circulation</i> , 2006, 114, 645-653.	1.6	155
96	Influence of intracoronary attenuation on coronary plaque measurements using multislice computed tomography: observations in an ex vivo model of coronary computed tomography angiography. <i>European Radiology</i> , 2005, 15, 1426-1431.	2.3	263
97	Geometrical validation of intravascular ultrasound radiofrequency data analysis (Virtual Histology) acquired with a 30 MHz boston scientific corporation imaging catheter. <i>Catheterization and Cardiovascular Interventions</i> , 2005, 66, 514-518.	0.7	21
98	Rationale and methods of the integrated biomarker and imaging study (IBIS): combining invasive and non-invasive imaging with biomarkers to detect subclinical atherosclerosis and assess coronary lesion biology. <i>International Journal of Cardiovascular Imaging</i> , 2005, 21, 425-441.	0.7	36
99	Incomplete Stent Apposition After Implantation of Paclitaxel-Eluting Stents or Bare Metal Stents. <i>Circulation</i> , 2005, 111, 900-905.	1.6	180
100	Evaluation of Four-Year Coronary Artery Response After Sirolimus-Eluting Stent Implantation Using Serial Quantitative Intravascular Ultrasound and Computer-Assisted Grayscale Value Analysis for Plaque Composition in Event-Free Patients. <i>Journal of the American College of Cardiology</i> , 2005, 46, 1670-1676.	1.2	87
101	Influence of increasing convolution kernel filtering on plaque imaging with multislice CT using an ex-vivo model of coronary angiography. <i>Radiologia Medica</i> , 2005, 110, 234-40.	4.7	11
102	Adjustment method for mechanical Boston scientific corporation 30 MHz intravascular ultrasound catheters connected to a Clearview® console. <i>International Journal of Cardiovascular Imaging</i> , 2004, 20, 83-91.	0.7	17
103	Retrospective image-based gating of intracoronary ultrasound images for improved quantitative analysis: The intelligate method. <i>Catheterization and Cardiovascular Interventions</i> , 2004, 61, 84-94.	0.7	81
104	Quantitative Coronary Ultrasound (QCU). <i>Medical Radiology</i> , 2004, , 79-86.	0.0	0
105	Evaluation of coronary remodeling after Sirolimus-Eluting stent implantation by serial Three-Dimensional intravascular ultrasound. <i>American Journal of Cardiology</i> , 2003, 91, 1046-1050.	0.7	33
106	Effects of Septal Pacing on P Wave Characteristics: The Value of Three-Dimensional Echocardiography. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003, 26, 253-256.	0.5	5
107	3D ICUS. , 2003, , 106-120.		0
108	Local intracoronary administration of antisense oligonucleotide against c-myc for the prevention of in-stent restenosis. <i>Journal of the American College of Cardiology</i> , 2002, 39, 281-287.	1.2	89

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109	Interatrial septum pacing guided by three-dimensional intracardiac echocardiography. Journal of the American College of Cardiology, 2002, 40, 2139-2143.	1.2	18
110	Three-dimensional echocardiography paves the way toward virtual reality. Ultrasound in Medicine and Biology, 2000, 26, 1065-1074.	0.7	17
111	Three-Dimensional Echocardiography:.. Echocardiography, 1999, 16, 417-423.	0.3	9
112	Quantitative measurements of in-stent restenosis: A comparison between quantitative coronary ultrasound and quantitative coronary angiography. Catheterization and Cardiovascular Interventions, 1999, 48, 133-142.	0.7	28
113	ECG-gated versus nongated three-dimensional intracoronary ultrasound analysis: Implications for volumetric measurements. , 1998, 43, 254-260.		90
114	Dynamic imaging of coronary stent structures: an ECG-gated three-dimensional intracoronary ultrasound study in humans. Ultrasound in Medicine and Biology, 1998, 24, 631-637.	0.7	6
115	Simpson's rule for the volumetric ultrasound assessment of atherosclerotic coronary arteries. Coronary Artery Disease, 1997, 8, 363-370.	0.3	23
116	Electrocardiogram-Gated Intravascular Ultrasound Image Acquisition After Coronary Stent Deployment Facilitates On-Line Three-Dimensional Reconstruction and Automated Lumen Quantification. Journal of the American College of Cardiology, 1997, 30, 436-443.	1.2	76
117	ECG-Gated Three-dimensional Intravascular Ultrasound. Circulation, 1997, 96, 2944-2952.	1.6	160
118	Precordial Three-Dimensional Echocardiography With a Rotational Imaging Probe. Echocardiography, 1995, 12, 243-252.	0.3	51
119	Meet key Digital Health thought leaders. European Heart Journal Digital Health, 0, , .	0.7	0
120	Reviewers and Awards. European Heart Journal Digital Health, 0, , .	0.7	0
121	The Mayo clinic: Digital Health Center of Excellence. European Heart Journal Digital Health, 0, , .	0.7	0