A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis

#	Paper	IF	Citations
60	Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis: A Solid Basis for Future Work. *Circulation: Cardiovascular Imaging*, **2019**, 12, e009759	3.9	5
59	Repeatability of Cardiac Magnetic Resonance Radiomics: A Multi-Centre Multi-Vendor Test-Retest Study. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 586236	5.4	4
58	Editorial: Current and Future Role of Artificial Intelligence in Cardiac Imaging. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 137	5.4	3
57	In Reply to the Letter to the Editor Regarding "Predicting Clinical Outcome After Mechanical Thrombectomy: The GADIS (Gender, Age, Diabetes Mellitus History, Infarct Volume, and Sex) Score". *World Neurosurgery*, **2020**, 138, 589-590	2.1	
56	A population-based phenome-wide association study of cardiac and aortic structure and function. *Nature Medicine*, **2020**, 26, 1654-1662	50.5	23
55	Cardiovascular Magnetic Resonance for the Differentiation of Left Ventricular Hypertrophy. *Current Heart Failure Reports*, **2020**, 17, 192-204	2.8	5
54	Fully Automated Cardiac Assessment for Diagnostic and Prognostic Stratification Following Myocardial Infarction. *Journal of the American Heart Association*, **2020**, 9, e016612	6	11
53	Reference ranges ("normal values") for cardiovascular magnetic resonance (CMR) in adults and children: 2020 update. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 87	6.9	53
52	Deep learning to diagnose cardiac amyloidosis from cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 84	6.9	10
51	The Role of Artificial Intelligence in Cardiovascular Imaging: State of the Art Review. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 618849	5.4	10
50	MRI Manufacturer Shift and Adaptation: Increasing the Generalizability of Deep Learning Segmentation for MR Images Acquired with Different Scanners. *Radiology: Artificial Intelligence*, **2020**, 2, e190195	8.7	12
49	Cardiac MRI-Update 2020. *Der Radiologe*, **2020**, 60, 33-40	1.5	6
48	Deep learning in congenital heart disease imaging: hope but not haste. *Heart*, **2020**, 106, 960-961	5.1	3
47	Artificial Intelligence for Cardiac Imaging-Genetics Research. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 195	5.4	9
46	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence-Based Approach Using Perfusion Mapping. *Circulation*, **2020**, 141, 1282-1291	16.7	51
45	Artificial intelligence and the cardiologist: what you need to know for 2020. *Heart*, **2020**, 106, 399-400	5.1	18
44	Integration of artificial intelligence into clinical patient management: focus on cardiac imaging. *Revista Espanola De Cardiologia (English Ed)*, **2021**, 74, 72-80	0.7	1

43	Intelligence artificielle et imagerie cardiovasculaire. *Archives Des Maladies Du Coeur Et Des Vaisseaux - Pratique*, **2021**, 2021, 16-21	0	
42	Diagnosis and risk stratification in hypertrophic cardiomyopathy using machine learning wall thickness measurement: a comparison with human test-retest performance. *The Lancet Digital Health*, **2021**, 3, e20-e28	14.4	19
41	Automated analysis and detection of abnormalities in transaxial anatomical cardiovascular magnetic resonance images: a proof of concept study with potential to optimize image acquisition. *International Journal of Cardiovascular Imaging*, **2021**, 37, 1033-1042	2.5	4
40	Computational analysis of cardiac structure and function in congenital heart disease: Translating discoveries to clinical strategies. *Journal of Computational Science*, **2021**, 52,	3.4	1
39	Development, validation, and implementation of biomarker testing in cardiovascular medicine state-of-the-art: proceedings of the European Society of Cardiology-Cardiovascular Round Table. *Cardiovascular Research*, **2021**, 117, 1248-1256	9.9	1
38	Role of cardiovascular magnetic resonance imaging in cardio-oncology. *European Heart Journal Cardiovascular Imaging*, **2021**, 22, 383-396	4.1	6
37	The year in cardiovascular medicine 2020: imaging. *European Heart Journal*, **2021**, 42, 740-749	9.5	3
36	La integración de la inteligencia artificial en el abordaje clínico del paciente: enfoque en la imagen cardiaca. *Revista Espanola De Cardiologia*, **2021**, 74, 72-80	1.5	5
35	Entwicklung kardiovaskuläre Medizin 2020: Kardiale Magnetresonanztomographie. *Kardiologe*, **2021**, 15, 147-152	0.6	
34	Applications of artificial intelligence in cardiovascular imaging. *Nature Reviews Cardiology*, **2021**, 18, 600-609	60.9	23
33	Left atrial 4D flow cardiovascular magnetic resonance: a reproducibility study in sinus rhythm and atrial fibrillation. *Journal of Cardiovascular Magnetic Resonance*, **2021**, 23, 29	6.9	5
32	The year in cardiovascular medicine 2020: imaging. *Cardiologia Croatica*, **2021**, 16, 117-131	0	
31	Noninvasive rapid cardiac magnetic resonance for the assessment of cardiomyopathies in low-middle income countries. *Expert Review of Cardiovascular Therapy*, **2021**, 19, 387-398	2.5	1
30	Applications of artificial intelligence/machine learning approaches in cardiovascular medicine: a systematic review with recommendations. *European Heart Journal Digital Health*, **2021**, 2, 424-436	2.3	6
29	Machine learning with convolutional neural networks for clinical cardiologists. *Heart*, **2021**,	5.1	3
28	Artificial intelligence in the diagnosis and management of arrhythmias. *European Heart Journal*, **2021**, 42, 3904-3916	9.5	13
27	Automated Noncontrast Myocardial Tissue Characterization for Hypertrophic Cardiomyopathy: Holy Grail or False Prophet?. *Circulation*, **2021**, 144, 600-603	16.7	1
26	Effects of Spironolactone and Chlorthalidone on Cardiovascular Structure and Function in Chronic Kidney Disease: A Randomized, Open-Label Trial. *Clinical Journal of the American Society of Nephrology: CJASN*, **2021**, 16, 1491-1501	6.9	2

25	Balancing Speed and Accuracy in Cardiac Magnetic Resonance Function Post-Processing: Comparing 2 Levels of Automation in 3 Vendors to Manual Assessment. *Diagnostics*, **2021**, 11,	3.8	1
24	Landmark Detection in Cardiac MRI by Using a Convolutional Neural Network. *Radiology: Artificial Intelligence*, **2021**, 3, e200197	8.7	4
23	Systematic Comparison of Left Ventricular Geometry Between 3D-Echocardiography and Cardiac Magnetic Resonance Imaging. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 728205	5.4	1
22	Artificial intelligence in cardiology: the debate continues. *European Heart Journal Digital Health*,	2.3	1
21	AI Based CMR Assessment of Biventricular Function: Clinical Significance of Intervendor Variability and Measurement Errors. *JACC: Cardiovascular Imaging*, **2021**, 15, 413-413	8.4	1
20	Interinstitutional Portability of a Deep Learning Brain MRI Lesion Segmentation Algorithm.. *Radiology: Artificial Intelligence*, **2022**, 4, e200152	8.7	5
19	Genomic insights in ascending aortic size and distensibility.. *EBioMedicine*, **2021**, 75, 103783	8.8	1
18	Deep Learning Analysis of Cardiac MRI in Legacy Datasets: Multi-Ethnic Study of Atherosclerosis.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 807728	5.4	0
17	Automated In-Line Artificial Intelligence Measured Global Longitudinal Shortening and Mitral Annular Plane Systolic Excursion: Reproducibility and Prognostic Significance.. *Journal of the American Heart Association*, **2022**, 11, e023849	6	0
16	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning.. *Journal of Cardiovascular Magnetic Resonance*, **2022**, 24, 16	6.9	2
15	Artificial Intelligence: A Shifting Paradigm in Cardio-Cerebrovascular Medicine. *Journal of Clinical Medicine*, **2021**, 10,	5.1	1
14	Table_1.DOCX. **2020**,		
13	Table_2.DOCX. **2020**,		
12	Clinical Manifestations, Monitoring, and Prognosis: A Review of Cardiotoxicity After Antitumor Strategy. *Frontiers in Cardiovascular Medicine*, 9,	5.4	0
11	Improved Productivity Using Deep Learning-assisted Reporting for Lumbar Spine MRI. *Radiology*,	20.5	1
10	Performance of artificial intelligence for biventricular cardiovascular magnetic resonance volumetric analysis in the clinical setting. *International Journal of Cardiovascular Imaging*,		1
9	The role of cardiac magnetic resonance imaging in the assessment of heart failure with preserved ejection fraction. *Frontiers in Cardiovascular Medicine*, 9,	5.4	0
8	Artificial intelligence and cardiovascular magnetic resonance imaging in myocardial infarction patients. **2022**, 101330		0

7	Towards automatic classification of cardiovascular magnetic resonance Task Force Criteria for diagnosis of arrhythmogenic right ventricular cardiomyopathy.	0
6	Artificial intelligence in cardiology: Hope for the future and power for the present. 9,	0
5	Artificial intelligence in cardiac imaging: where we are and what we want.	0
4	MITEA: A dataset for machine learning segmentation of the left ventricle in 3D echocardiography using subject-specific labels from cardiac magnetic resonance imaging. 9,	0
3	Deep Learning-Based Computed Tomography Image Standardization to Improve Generalizability of Deep Learning-Based Hepatic Segmentation. **2023**, 24, 294	0
2	Machine Learning Approaches in Diagnosis, Prognosis and Treatment Selection of Cardiac Amyloidosis. **2023**, 24, 5680	0
1	Single-Site Experience with an Automated Artificial Intelligence Application for Left Ventricular Ejection Fraction Measurement in Echocardiography. **2023**, 13, 1298	0