

CITATION REPORT

List of articles citing

Diagnostic performance of noninvasive fractional flow reserve derived from coronary computed tomography angiography in suspected coronary artery disease: the NXT trial (Analysis of Coronary Blood Flow Using CT Angiography: Next Steps)

DOI: 10.1016/j.jacc.2013.11.043

Journal of the American College of Cardiology, 2014, 63, 1145-1155.

Source: <https://exaly.com/paper-pdf/58895760/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1112	IEEE Power Electronics Society publication information. 1991 , 6, c2-c2		
1111	Strain compensated InGaAs/GaAsP/InGaP 980 nm lasers with 90% fiber coupling efficiency.		0
1110	Computationally efficient high resolution DOA estimation algorithm. 2001 , 37, 795		1
1109	Interference with MCP-1 gene expression by vector generated triple helix-forming RNA oligonucleotides. 2005 , 62, 362-76		3
1108	Response to letter regarding article, "Noninvasive fractional flow reserve derived from computed tomography angiography for coronary lesions of intermediate stenosis severity: results from the DeFACTO study". 2014 , 7, 571		
1107	President's page: coronary CT angiography as a gatekeeper to the catheterization laboratory. 2014 , 8, 480-2		6
1106	Commentary: The bird-beak stent-graft configuration: the end of aortic arch endograft collapse?. 2014 , 21, 803-4		0
1105	Coronary calcium scoring and computed tomography angiography: current indications, future applications. 2014 , 25, 529-39		4
1104	A New Approach in Risk Stratification by Coronary CT Angiography. 2014 , 2014, 278039		2
1103	Combined anatomy and physiology on coronary computed tomography angiography: a step or two in the right direction. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1913-5	15.1	7
1102	The game changer?. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1156-1158	15.1	10
1101	Assessing bioresorbable coronary devices: methods and parameters. 2014 , 7, 1130-48		50
1100	Patterns of Opacification in Coronary CT Angiography: Contrast Differences and Gradients. 2014 , 7, 9291		3
1099	Fractional flow reserve derived from coronary CT angiography: variation of repeated analyses. 2014 , 8, 307-14		39
1098	Physiologic evaluation of ischemia using cardiac CT: current status of CT myocardial perfusion and CT fractional flow reserve. 2014 , 8, 272-81		9
1097	Appropriate use criteria: lessons from Japan. 2014 , 7, 1010-3		6
1096	Computational fluid dynamics in coronary artery disease. 2014 , 38, 651-63		27

1095	Comparison of diagnostic value of a novel noninvasive coronary computed tomography angiography method versus standard coronary angiography for assessing fractional flow reserve. 2014 , 114, 1303-8	147
1094	[Cardiac CT: new applications]. 2014 , 63, 362-8	0
1093	Noninvasive imaging in coronary artery disease. 2014 , 44, 398-409	23
1092	Role of computed tomography for diagnosis and risk stratification of patients with suspected or known coronary artery disease. 2014 , 34, 1144-54	14
1091	SCCT guidelines on the use of coronary computed tomographic angiography for patients presenting with acute chest pain to the emergency department: a report of the Society of Cardiovascular Computed Tomography Guidelines Committee. 2014 , 8, 254-71	95
1090	Imaging. Can FFRCT replace old indices of coronary stenosis severity?. 2014 , 11, 252-4	2
1089	The present and future of fractional flow reserve. 2014 , 78, 1048-54	21
1088	Cardiac single-photon emission computed tomography using ultrafast cadmium zinc telluride gamma camera with thallium-201 yields high-diagnostic performance despite lower radiation dose and shorter acquisition time. 2014 , 78, 2635-6	
1087	Computed tomography-based fractional flow reserve (FFR-CT) [an attractive concept, but still lacking proof of clinical utility. 2015 , 79, 300-2	7
1086	Fast CT-FFR Analysis Method for the Coronary Artery Based on 4D-CT Image Analysis and Structural and Fluid Analysis. 2015 ,	5
1085	Noninvasive and Invasive Assessments of the Functional Significance of Intermediate Coronary Artery Stenosis: Is This a Matter of Right or Wrong?. 2014 , 2, 52-6	1
1084	. 2015 ,	3
1083	Curriculum kardiale Computertomographie. 2015 , 9, 363-374	0
1082	Noncalcified Plaque in Cardiac CT: Quantification and Clinical Implications. 2015 , 8, 1	1
1081	Commentary on highlighted late breaking trials in interventional cardiology at ESC, VIVA, TCT, and AHA 2013. 2015 , 85, 95-103	
1080	Measurement and modeling of coronary blood flow. 2015 , 7, 335-56	11
1079	Research highlights in interventional cardiology. 2015 , 7, 427-430	
1078	Ischaemic heart disease - a selected review of recent developments. 2015 , 30, 657-62	5

1077	Computed Tomography-Derived Fractional Flow Reserve in the Detection of Lesion-Specific Ischemia: An Integrated Analysis of 3 Pivotal Trials. 2015 , 94, e1963	9
1076	Diagnosis of ischemia in hypertrophic cardiomyopathy: role of computed tomography and nuclear stress testing. 2015 , 30, 483-92	2
1075	A novel approach for fractional flow reserve derivation from coronary computed tomographic angiography. 2015 , 26, 279-80	1
1074	Advances in three-dimensional coronary imaging and computational fluid dynamics: is virtual fractional flow reserve more than just a pretty picture?. 2015 , 26 Suppl 1, e43-54	8
1073	Functional relevance of coronary artery disease by cardiac magnetic resonance and cardiac computed tomography: myocardial perfusion and fractional flow reserve. 2015 , 2015, 297696	25
1072	Noninvasive physiologic assessment of coronary stenoses using cardiac CT. 2015 , 2015, 435737	7
1071	Coronary CT Angiography and the Napkin-ring Sign Indicates High-Risk Atherosclerotic Lesions. 2015 ,	
1070	Fractional flow reserve-guided management in stable coronary disease and acute myocardial infarction: recent developments. 2015 , 36, 3155-64	45
1069	The year in cardiology 2014: imaging. 2015 , 36, 206-13	1
1068	Non-invasive prediction of hemodynamically significant coronary artery stenoses by contrast density difference in coronary CT angiography. 2015 , 84, 1502-1508	28
1067	Diagnostic value of quantitative stenosis predictors with coronary CT angiography compared to invasive fractional flow reserve. 2015 , 84, 1509-1515	54
1066	Beyond stenosis detection: computed tomography approaches for determining the functional relevance of coronary artery disease. 2015 , 53, 317-34	17
1065	CT myocardial perfusion imaging. 2015 , 204, 487-97	59
1064	Fractional flow reserve modeled from resting coronary CT angiography: state of the science. 2015 , 204, W243-8	9
1063	Cardiac CT Angiography Manual. 2015 ,	2
1062	Specific Applications of Cardiac Computed Tomographic Angiography. 2015 , 191-286	
1061	Noninvasive Fractional Flow Reserve for the Diagnosis of Lesion-specific Ischemia: A Case Example. 2015 , 5, 3	1
1060	Functional Evaluation of Coronary Disease by CT Angiography. 2015 , 8, 1322-35	21

1059	Diagnosis of Coronary Disease and Icing on the Cake. 2015 , 8, 1117-1120	2
1058	Noninvasive hemodynamic assessment using coronary computed tomography angiography: the present and future. 2015 , 7, 77-88	1
1057	Fractional flow reserve: conundrums, controversies and challenges. 2015 , 7, 543-552	3
1056	FFRCT: Solid PLATFORM or Thin Ice?. <i>Journal of the American College of Cardiology</i> , 2015 , 66, 2324-2328 15.1	5
1055	The Essentials of Cardiac Computerized Tomography. 2015 , 4, 117-29	2
1054	Endless validation of diagnostic imaging modalities to assess acute coronary syndrome: has the time finally come for computed tomography angiography?. 2015 , 68, 1-3	
1053	La interminable validaci3n de las t3cnicas de imagen diagn3sticas para evaluar el s3ndrome coronario agudo: ¿ha llegado finalmente la hora de la angiograf3 por tomograf3 computarizada?. 2015 , 68, 1-3	1
1052	Fractional flow reserve derived from coronary CT angiography in stable coronary disease: a new standard in non-invasive testing?. 2015 , 25, 2282-90	19
1051	Non-invasive assessment of low risk acute chest pain in the emergency department: A comparative meta-analysis of prospective studies. 2015 , 187, 565-80	17
1050	Novedades en imagen cardiaca 2014. 2015 , 68, 129-135	5
1049	Diagnostic coronary angiography is 'getting old!. 2015 , 8, 11-13	4
1048	Non-invasive computed fractional flow reserve from computed tomography (CT) for diagnosing coronary artery disease □ Japanese results from NXT trial (Analysis of Coronary Blood Flow Using CT Angiography: Next Steps). 2015 , 79, 406-12	20
1047	The diagnostic performance of CT-derived fractional flow reserve for evaluation of myocardial ischaemia confirmed by invasive fractional flow reserve: a meta-analysis. 2015 , 70, 476-86	27
1046	Comparative efficacy testing - fractional flow reserve by coronary computed tomography for the evaluation of patients with stable chest pain. 2015 , 183, 173-7	13
1045	Hemodynamic analysis of patient-specific coronary artery tree. 2015 , 31, e02708	29
1044	Can coronary computed tomography angiography replace invasive angiography? Yes: it is all about finding the right test for the right person at the right time. 2015 , 131, 410-6; discussion 417	4
1043	Update on cardiac imaging techniques 2014. 2015 , 68, 129-35	1
1042	Fractional flow reserve computed from noninvasive CT angiography data: diagnostic performance of an on-site clinician-operated computational fluid dynamics algorithm. 2015 , 274, 674-83	173

1041	New insights from major prospective cohort studies with cardiac CT. 2015 , 17, 19	1
1040	Big data, big knowledge: big data for personalized healthcare. 2015 , 19, 1209-15	168
1039	Cardiac computed tomography in patients with acute chest pain. 2015 , 36, 906-14	18
1038	Cost analysis of non-invasive fractional flow reserve derived from coronary computed tomographic angiography in Japan. 2015 , 30, 38-44	33
1037	Is my model good enough? Best practices for verification and validation of musculoskeletal models and simulations of movement. 2015 , 137, 020905	288
1036	Fast Computation of Hemodynamic Sensitivity to Lumen Segmentation Uncertainty. 2015 , 34, 2562-71	22
1035	Current and Novel Imaging Techniques in Coronary CT. 2015 , 35, 991-1010	67
1034	Fractional flow reserve versus angiography for guiding percutaneous coronary intervention: a meta-analysis. 2015 , 101, 455-62	53
1033	President's page--The definition of cardiac CT = resilience. 2015 , 9, 370-2	
1032	Computed tomography. 2015 , 97-125	4
1031	Noninvasive coronary angiography. 2015 , 173-202	
1030	Myocardial ischemia. 2015 , 227-270	
1029	State-of-the-Art Updates on Cardiac Computed Tomographic Angiography for Assessing Coronary Artery Disease. 2015 , 17, 398	3
1028	Non-invasive Correlation of Invasive Imaging. 2015 , 203-224	
1027	Coronary computed tomography angiography for the assessment of chest pain: current status and future directions. 2015 , 31 Suppl 2, 125-43	4
1026	Cardiac CT vs. Stress Testing in Patients with Suspected Coronary Artery Disease: Review and Expert Recommendations. 2015 , 8, 1	15
1025	Coupled Simulation of Heart Valves: Applications to Clinical Practice. 2015 , 43, 1626-39	5
1024	"Virtual" (Computed) Fractional Flow Reserve: Current Challenges and Limitations. 2015 , 8, 1009-1017	74

1023	Molecular and Multimodality Imaging in Cardiovascular Disease. 2015,	
1022	What is ischemia and how should this be defined based on modern imaging?. 2015, 57, 537-54	5
1021	Automated Quantitative Plaque Burden from Coronary CT Angiography Noninvasively Predicts Hemodynamic Significance by using Fractional Flow Reserve in Intermediate Coronary Lesions. 2015, 276, 408-15	52
1020	Diagnostic accuracy of noninvasive testing: necessary but insufficient. 2015, 8,	
1019	Interventional Cardiology Imaging. 2015,	
1018	Microvascular angina: an update on diagnosis and treatment. 2015, 11, 229-42	10
1017	Multi-modality imaging: Bird's-eye view from the 2014 American Heart Association Scientific Sessions. 2015, 22, 364-71	5
1016	Incremental Value of Hybrid PET/CT in Patients with Coronary Artery Disease. 2015, 8, 1	1
1015	Diagnostic performance of transluminal attenuation gradient and fractional flow reserve by coronary computed tomographic angiography (FFR(CT)) compared to invasive FFR: a sub-group analysis from the DISCOVER-FLOW and DeFACTO studies. 2015, 31, 1251-9	21
1014	Diagnostic performance of noninvasive fractional flow reserve derived from coronary computed tomography angiography in coronary artery disease: A systematic review and meta-analysis. 2015, 184, 703-709	18
1013	CT Assessment of Myocardial Perfusion and Fractional Flow Reserve. 2015, 57, 623-31	11
1012	Computed tomography segmental calcium score (SCS) to predict stenosis severity of calcified coronary lesions. 2015, 31, 1663-75	1
1011	FFR Derived From Coronary CT Angiography: Solving the Calcification Dilemma of Coronary CT Angiography. 2015, 8, 1056-1058	2
1010	Rationale and design of the Prospective Longitudinal Trial of FFRCT: Outcome and Resource IMpacts study. 2015, 170, 438-46.e44	13
1009	Noninvasive Fractional Flow Reserve Derived from Coronary Computed Tomography Angiography for the Diagnosis of Lesion-specific Ischemia. 2015, 4, 481-489	
1008	Computed tomography: The optimal imaging method for differentiation of ischemic vs non-ischemic cardiomyopathy. 2015, 22, 961-7	1
1007	Comparison of quantitative stenosis characteristics at routine coronary computed tomography angiography with invasive fractional flow reserve for assessing lesion-specific ischemia. 2015, 9, 546-52	16
1006	Quantifying Plaque Burden and Morphology Using Coronary Computed Tomography Angiography to Predict Coronary Physiology: Helpful But Is It Sufficient?. 2015, 8, e004058	

1005	Nicht invasive Ischämiediagnostik [Wie ist der Stand seit den ESC-Leitlinien 2013?]. 2015 , 11, 177-187	
1004	A novel CT-FFR method for the coronary artery based on 4D-CT image analysis and structural and fluid analysis. 2015 ,	5
1003	Noninvasive Fractional Flow Reserve Derived From Coronary CT Angiography: Clinical Data and Scientific Principles. 2015 , 8, 1209-1222	144
1002	Influence of Coronary Calcification on the Diagnostic Performance of CT Angiography Derived FFR in Coronary Artery Disease: A Substudy of the NXT Trial. 2015 , 8, 1045-1055	102
1001	Computed Tomography in the Concurrent Assessment of Coronary Morphology and Myocardial Perfusion. 2015 , 175-194	
1000	Clinical outcomes of fractional flow reserve by computed tomographic angiography-guided diagnostic strategies vs. usual care in patients with suspected coronary artery disease: the prospective longitudinal trial of FFR(CT): outcome and resource impacts study. 2015 , 36, 3359-67	340
999	Meta-Analysis of Diagnostic Performance of Coronary Computed Tomography Angiography, Computed Tomography Perfusion, and Computed Tomography-Fractional Flow Reserve in Functional Myocardial Ischemia Assessment Versus Invasive Fractional Flow Reserve. 2015 , 116, 1469-78	83
998	President's Page. 2015 , 9, 472-3	
997	Impact of geometric uncertainty on hemodynamic simulations using machine learning. 2015 , 297, 167-190	32
996	FFR(CT): a new technology in search of a clinical application. 2015 , 36, 3368-9	3
995	Coronary CT angiography-derived fractional flow reserve correlated with invasive fractional flow reserve measurements--initial experience with a novel physician-driven algorithm. 2015 , 25, 1201-7	54
994	Cardiovascular OCT Imaging. 2015 ,	4
993	Coronary microvascular dysfunction: mechanisms and functional assessment. 2015 , 12, 48-62	262
992	Choosing the Appropriate Examination for Diagnosis of Stable Ischemic Heart Disease. 2016 , 2, 167-173	3
991	Diagnostic performance of non-invasive fractional flow reserve derived from coronary computed tomography angiography: current perspectives. 2016 , 1	
990	Diagnostic one-stop-shop in suspected coronary artery disease gets closer. Coronary computed tomography angiography based fractional flow reserve. 2016 , 12, 93-5	
989	Fractional Flow Reserve Measurement by Coronary Computed Tomography Angiography: A Review with Future Directions. 2016 , 2, 125-135	1
988	The fractional flow reserve gray zone has never been so narrow. 2016 , 8, E1537-E1539	1

987	Cardiac magnetic resonance imaging and computed tomography in ischemic cardiomyopathy: an update. 2016 , 49, 26-34	10
986	The clinical utility of new cardiac imaging modalities in Australasian clinical practice. 2016 , 205, 134-9	2
985	Physiologic Assessment of Coronary Artery Disease: Focus on Fractional Flow Reserve. 2016 , 17, 307-20	7
984	The role of MRI and CT for diagnosis and work-up in suspected ACS. 2016 , 3, 143-154	3
983	Noninvasive FFR derived from coronary CT angiography in the management of coronary artery disease: technology and clinical update. 2016 , 12, 269-78	21
982	Three-dimensional modeling and numerical analysis of fractional flow reserve in human coronary arteries. 2016 , 12, 25-31	6
981	Multimodality Imaging in Coronary Artery Disease: Focus on Computed Tomography. 2016 , 24, 7-17	8
980	Recent Advances in Noninvasive Cardiac Imaging. 2016 , 2, 1-3	
979	Novel Approaches for the Use of Cardiac/Coronary Computed Tomography Angiography. 2016 , 2, 111-123	1
978	Noninvasive imaging modalities to visualize atherosclerotic plaques. 2016 , 6, 340-53	5
977	Fractional Flow Reserve Assessment of Coronary Artery Stenosis. 2016 , 11, 77-82	4
976	Clinical recommendations on Cardiac-CT in 2015: a position paper of the Working Group on Cardiac-CT and Nuclear Cardiology of the Italian Society of Cardiology. 2016 , 17, 73-84	15
975	A machine-learning approach for computation of fractional flow reserve from coronary computed tomography. 2016 , 121, 42-52	192
974	Automatic coronary lumen segmentation with partial volume modeling improves lesionsN hemodynamic significance assessment. 2016 ,	2
973	The Use of Biomarkers for the Early Detection of Vulnerable Atherosclerotic Plaques and Vulnerable Patients. A Review. 2016 , 2, 106-113	8
972	The influence of vessel segmentation threshold on the accuracy of patient-specific coronary blood flow simulations. 2016 ,	
971	Coronary CT Angiography-Derived Fractional Flow Reserve. 2016 , 4, 1	1
970	Defining the relationship between atherosclerotic plaque, ischaemia, and risk-the story unfolds. 2017 , 18, 508-509	1

969	Rationale and Design of the CREDENCE Trial: computed Tomographic evaluation of atherosclerotic DEterminants of myocardial Ischemia. 2016 , 16, 190	15
968	Technical Innovations and Concepts in Coronary CT. 2016 , 713-727	
967	Computational fluid dynamics with application of different theoretical flow models for the evaluation of coronary artery stenosis on CT angiography: comparison with invasive fractional flow reserve. 2016 , 2, 065011	2
966	The Potential Role of Combined Highly Sensitive Troponin and Coronary Computed Tomography Angiography in the Evaluation of Patients with Suspected Acute Coronary Syndrome in the Emergency Department. 2016 , 9, 1	
965	Cardiovascular Magnetic Resonance Imaging: Overview of Clinical Applications in the Context of Cardiovascular CT. 2016 , 507-548	
964	Beyond Stenosis With Fractional Flow Reserve Via Computed Tomography and Advanced Plaque Analyses for the Diagnosis of Lesion-Specific Ischemia. 2016 , 32, 1315.e1-1315.e9	3
963	Value Based Imaging for Coronary Artery Disease: Implications for Nuclear Cardiology and Cardiac CT. 2016 , 349-380	
962	Coronary CT angiography derived morphological and functional quantitative plaque markers correlated with invasive fractional flow reserve for detecting hemodynamically significant stenosis. 2016 , 10, 199-206	48
961	Determining the haemodynamic significance of arterial stenosis: the relationship between CT angiography, computational fluid dynamics, and non-invasive fractional flow reserve. 2016 , 71, 750-7	7
960	From Newton to the Coronaries: Computational Fluid Dynamics Has Entered the Clinical Scene. 2016 , 9, 700-2	5
959	Cardiac CT Imaging. 2016 ,	4
958	Coronary plaque quantification and fractional flow reserve by coronary computed tomography angiography identify ischaemia-causing lesions. 2016 , 37, 1220-7	184
957	Coronary CT Angiography as a Diagnostic and Prognostic Tool: Perspective from a Multicenter Randomized Controlled Trial: PROMISE. 2016 , 18, 40	4
956	Recent developments in the use of computed tomography scanners in coronary artery imaging. 2016 , 13, 545-53	16
955	Fractional flow reserve based on computed tomography: an overview. 2016 , 18, E49-E56	8
954	Coronary Atherosclerosis: Pathophysiologic Basis for Diagnosis and Management. 2016 , 58, 676-92	41
953	Does the Routine Availability of CT-Derived FFR Influence Management of Patients With Stable Chest Pain Compared to CT Angiography Alone?: The FFR RIPCORD Study. 2016 , 9, 1188-1194	63
952	Potential impact of clinical use of noninvasive FFRCT on radiation dose exposure and downstream clinical event rate. 2016 , 40, 1055-60	7

951	Pulling the RIPCORDER: FFR to Improve Interpretation of Coronary CT Angiography. 2016 , 9, 1195-1197	2
950	Coronary Physiology Assessment for the Diagnosis and Treatment of Stable Ischemic Heart Disease. 2016 , 18, 62	2
949	Diagnostic Accuracy of Fast Computational Approaches to Derive Fractional Flow Reserve From Diagnostic Coronary Angiography: The International Multicenter FAVOR Pilot Study. 2016 , 9, 2024-2035	224
948	Computing Fractional Flow Reserve During Coronary Angiography: How Good Is Good Enough?. 2016 , 9, 2036-2038	0
947	Comparison of Coronary Computed Tomography Angiography-Derived vs Invasive Fractional Flow Reserve Assessment: Meta-Analysis with Subgroup Evaluation of Intermediate Stenosis. 2016 , 23, 1402-1411	30
946	Noninvasive Physiological Assessment of Coronary Stenoses With Computed Tomography: Can Fractional Myocardial Mass Trump Computed Tomographic Fractional Flow Reserve Via Simplification?. 2016 , 9, 1561-3	
945	A patient-specific virtual stenotic model of the coronary artery to analyze the relationship between fractional flow reserve and wall shear stress. 2016 , 222, 799-805	14
944	Cardiac CT for the Interventional Cardiologist. 2016 , 2, 13-24	
943	Fractional Flow Reserve and Coronary Computed Tomographic Angiography: A Review and Critical Analysis. 2016 , 119, 300-16	23
942	Assessing Computational Fractional Flow Reserve From Optical Coherence Tomography in Patients With Intermediate Coronary Stenosis in the Left Anterior Descending Artery. 2016 , 9,	23
941	[Does coronary CT change the cardiologist's clinical practice?]. 2016 , 41, 405-12	
940	Identifying the progression of coronary artery disease: prediction of cardiac events. 2016 , 2, 105-114	4
939	Correlation Between Quantitative Angiography-Derived Translesional Pressure and Fractional Flow Reserve. 2016 , 118, 1158-1163	7
938	The Virtual Physiological Human: Ten Years After. 2016 , 18, 103-23	37
937	Is FFR-CT a "game changer" in the diagnostic management of stable coronary artery disease?. 2016 , 41, 398-404	2
936	Integrating FFRCT Into Routine Clinical Practice: A Solid PLATFORM or Slippery Slope?. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 446-449	15.1 1
935	1-Year Outcomes of FFRCT-Guided Care in Patients With Suspected Coronary Disease: The PLATFORM Study. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 435-445	15.1 204
934	Cardiac CT: present and future applications. 2016 , 102, 1840-1850	1

933	Controversies in the Use of Fractional Flow Reserve Form Computed Tomography (FFRCT) vs. Coronary Angiography. 2016 , 9, 1	5
932	Diagnostic performance of noninvasive fractional flow reserve derived from coronary computed tomography angiography in ischemia-causing coronary stenosis: a meta-analysis. 2016 , 34, 795-808	5
931	Fighting Small Numbers. 2016 , 23, 1467-1469	
930	The New Frontier of Cardiac Computed Tomography Angiography: Fractional Flow Reserve and Stress Myocardial Perfusion. 2016 , 18, 74	9
929	Author reply. 2016 , 46, 992-3	
928	Noninvasive fractional flow reserve derived from coronary computed tomography angiography for identification of ischemic lesions: a systematic review and meta-analysis. 2016 , 6, 29409	14
927	Current and Future Applications of Coronary CT Angiography with and Without FFR in the Emergency Room. 2016 , 9, 1	
926	The value of noninvasive computed tomography derived fractional flow reserve in our current approach to the evaluation of coronary artery stenosis. 2016 , 31, 970-976	2
925	Feasibility of Free-breathing CCTA using 256-MDCT. 2016 , 95, e4096	7
924	Fractional flow reserve using computed tomography for assessing coronary artery disease: a meta-analysis. 2016 , 17, 694-700	4
923	Fraktionelle Flussreserve in der Diagnostik der koronaren Herzerkrankung. 2016 , 10, 88-105	1
922	Anatomy and Physiology in a Single Non-invasive Test: CTA-derived FFR. 2016 , 4, 1	
921	Invasive FFR and Noninvasive CFR in the Evaluation of Ischemia: What Is the Future?. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 2772-2788	15.1 55
920	Would an FFR by Any Technique Perform as Sweet?. 2016 , 9, 765-7	1
919	Comparison Between Non-invasive (Coronary Computed Tomography Angiography Derived) and Invasive-Fractional Flow Reserve in Patients with Serial Stenoses Within One Coronary Artery: A NXT Trial substudy. 2016 , 44, 580-9	17
918	Technical Aspects of CCTA. 2016 , 4, 1	
917	Acute chest pain in the high-sensitivity cardiac troponin era: A changing role for noninvasive imaging?. 2016 , 177, 102-11	16
916	Rationale and design of the PERFECTION (comparison between stress cardiac computed tomography PERFusion versus Fractional flow rEServe measured by Computed Tomography angiography In the evaluation of suspected cORoNary artery disease) prospective study. 2016 , 10, 330-4	27

915	Effect of intravenous infusion of iodinated contrast media on the coronary blood flow in dogs. 2016 , 12, 11-14	2
914	Estimation of the flow resistances exerted in coronary arteries using a vessel length-based method. 2016 , 468, 1449-58	9
913	Relationship between diverse patient body size- and image acquisition-related factors, and quantitative and qualitative image quality in coronary computed tomography angiography: a multicenter observational study. 2016 , 34, 548-55	5
912	Anatomy and physiology in ischaemic heart disease: a second honeymoon?. 2016 , 37, 1228-31	8
911	Uncertainty quantification in coronary blood flow simulations: Impact of geometry, boundary conditions and blood viscosity. 2016 , 49, 2540-7	78
910	Coronary CT Angiography as a Diagnostic and Prognostic Tool: Perspectives from the SCOT-HEART Trial. 2016 , 18, 18	19
909	Noninvasive Cardiac Imaging in Patients with Known and Suspected Coronary Artery Disease: What is in it for the Interventional Cardiologist?. 2016 , 18, 3	3
908	CT-based myocardial ischemia evaluation: quantitative angiography, transluminal attenuation gradient, myocardial perfusion, and CT-derived fractional flow reserve. 2016 , 32 Suppl 1, 1-19	17
907	Computational fluid dynamics modelling in cardiovascular medicine. 2016 , 102, 18-28	206
906	Imaging Atherosclerosis. 2016 , 118, 750-69	160
905	Defining the non-vulnerable and vulnerable patients with computed tomography coronary angiography: evaluation of atherosclerotic plaque burden and composition. 2016 , 17, 481-91	26
904	Clinical Application of Fractional Flow Reserve-Guided Percutaneous Coronary Intervention for Stable Coronary Artery Disease. 2016 , 18, 32	0
903	Workstation-Based Calculation of CTA-Based FFR for Intermediate Stenosis. 2016 , 9, 690-9	76
902	Quantitative coronary CT angiography: absolute lumen sizing rather than %stenosis predicts hemodynamically relevant stenosis. 2016 , 26, 3781-3789	11
901	Stress MPI, coronary CTA, and multimodality for subsequent risk analysis. 2016 , 23, 198-201	5
900	How should CT coronary angiography be integrated into the management of patients with chest pain and how does this affect outcomes?. 2016 , 2, 72-80	10
899	CT Angiography for the Prediction of Hemodynamic Significance in Intermediate and Severe Lesions: Head-to-Head Comparison With Quantitative Coronary Angiography Using Fractional Flow Reserve as the Reference Standard. 2016 , 9, 559-64	40
898	Diagnosis of functional ischemia in a right coronary artery with anomalous aortic origin. 2016 , 10, 188-90	3

897	Biomechanical stress in coronary atherosclerosis: emerging insights from computational modelling. 2017 , 38, 81-92	64
896	Highly sensitive troponin and coronary computed tomography angiography in the evaluation of suspected acute coronary syndrome in the emergency department. 2016 , 37, 2397-405	12
895	Optimal non-invasive imaging test selection for the diagnosis of ischaemic heart disease. 2016 , 102, 555-64	9
894	Cardiac CT Imaging of Plaque Vulnerability: Hype or Hope?. 2016 , 18, 37	4
893	Quantitative myocardial perfusion imaging in a porcine ischemia model using a prototype spectral detector CT system. 2016 , 61, 2407-31	23
892	Advanced flow MRI: emerging techniques and applications. 2016 , 71, 779-95	72
891	New horizons in cardiac CT. 2016 , 71, 758-67	26
890	Quantification of coronary flow using dynamic angiography with 320-detector row CT and motion coherence image processing: Detection of ischemia for intermediate coronary stenosis. 2016 , 85, 996-1003	12
889	Coronary CT angiography derived fractional flow reserve: Methodology and evaluation of a point of care algorithm. 2016 , 10, 105-13	38
888	Coronary Computed Tomography Angiography Derived Fractional Flow Reserve and Plaque Stress. 2016 , 9, 2	25
887	Software-based on-site estimation of fractional flow reserve using standard coronary CT angiography data. 2016 , 57, 1186-92	34
886	Comparison of Fractional Flow Reserve Based on Computational Fluid Dynamics Modeling Using Coronary Angiographic Vessel Morphology Versus Invasively Measured Fractional Flow Reserve. 2016 , 117, 29-35	46
885	The impact of image resolution on computation of fractional flow reserve: coronary computed tomography angiography versus 3-dimensional quantitative coronary angiography. 2016 , 32, 513-23	11
884	Coronary Computed Tomography Angiography Versus Traditional Care: Comparison of One-Year Outcomes and Resource Use. 2016 , 67, 460-468.e1	17
883	Plaque assessment by coronary CT. 2016 , 32, 161-72	21
882	Diagnostic Performance of Transluminal Attenuation Gradient and Noninvasive Fractional Flow Reserve Derived from 320-Detector Row CT Angiography to Diagnose Hemodynamically Significant Coronary Stenosis: An NXT Substudy. 2016 , 279, 75-83	43
881	Coronary computed tomography angiography. 2016 , 188, 139	
880	[Computed tomography in patients with chronic stable angina : Fractional flow reserve measurement]. 2017 , 42, 51-57	7

879	Clinical Use of Coronary CTA-Derived FFR for Decision-Making in Stable CAD. 2017 , 10, 541-550	85
878	Look Backwards But Live Forwards. 2017 , 10, 551-553	0
877	Comprehensive Modeling and Visualization of Cardiac Anatomy and Physiology from CT Imaging and Computer Simulations. 2017 , 23, 1014-1028	8
876	Coronary CT angiography in clinical triage of patients at high risk of coronary artery disease. 2017 , 51, 28-34	7
875	Diagnostic performance of on-site CT-derived fractional flow reserve versus CT perfusion. 2017 , 18, 432-440	65
874	Improving CCTA-based lesions hemodynamic significance assessment by accounting for partial volume modeling in automatic coronary lumen segmentation. 2017 , 44, 1040-1049	16
873	Integrating CT Myocardial Perfusion and CT-FFR in the Work-Up of Coronary Artery Disease. 2017 , 10, 760-770	89
872	Intracranial atherosclerosis: From anatomy to pathophysiology. 2017 , 12, 236-245	9
871	Transthoracic Echocardiography: Pitfalls and Limitations as Delineated at Cardiac CT and MR Imaging. 2017 , 37, 383-406	37
870	DIRECT CORONARY COUPLING APPROACH FOR COMPUTING FFRCT. 2017 , 17, 1750043	0
869	Prognostic Value of Stress Dynamic Myocardial Perfusion CT in a Multicenter Population With Known or Suspected Coronary Artery Disease. 2017 , 208, 761-769	19
868	Duo Cum Faciunt Idem, Non Est Idem. 2017 , 10, 771-772	
867	Trials of Imaging Use in the Emergency Department for Acute Chest Pain. 2017 , 10, 338-349	15
866	Patient-specific assessment of hemodynamics by computational fluid dynamics in patients with bicuspid aortopathy. 2017 , 153, S52-S62.e3	28
865	Coronary Artery Disease Testing: Past, Present, and Future. 2017 , 10, 1359-1360	2
864	Noninvasive FFR Derived From Coronary CT Angiography: Management and Outcomes in the PROMISE Trial. 2017 , 10, 1350-1358	112
863	Stress Computed Tomographic Perfusion: Are We Ready for the Green Light?. 2017 , 10,	3
862	Physiome approach for the analysis of vascular flow reserve in the heart and brain. 2017 , 469, 613-628	4

861	Effect of stenosis eccentricity on the functionality of coronary bifurcation lesions-a numerical study. 2017 , 55, 2079-2095	5
860	In silico assessment of biomedical products: The conundrum of rare but not so rare events in two case studies. 2017 , 231, 455-466	30
859	Fractional flow reserve in 2017: current data and everyday practice. 2017 , 15, 457-472	3
858	Functional Cardiac CT Angiography. 2017 , 777-803	
857	ACR Appropriateness Criteria Chronic Chest Pain-High Probability of Coronary Artery Disease. 2017 , 14, S71-S80	7
856	Complex relationship between plaque characteristics and hemodynamic significance of stenosis: Insights from coronary computed tomography angiography imaging. 2017 , 260, 150-152	3
855	Accuracy of coronary computed tomography angiography for bioresorbable scaffold luminal investigation: a comparison with optical coherence tomography. 2017 , 33, 431-439	9
854	Diagnostic Performance of a Novel Method for Fractional Flow Reserve Computed from Noninvasive Computed Tomography Angiography (NOVEL-FLOW Study). 2017 , 120, 362-368	16
853	Long-term outcome prediction by functional parameters derived from coronary computed tomography angiography. 2017 , 243, 533-537	11
852	Instantaneous wave-free ratio derived from coronary computed tomography angiography in evaluation of ischemia-causing coronary stenosis: Feasibility and initial clinical research. 2017 , 96, e5979	12
851	Fractional flow reserve: a clinical perspective. 2017 , 33, 961-974	12
850	Cardiovascular imaging environment: will the future be cloud-based?. 2017 , 14, 521-528	2
849	Non-invasive fractional flow reserve using computed tomographic angiography: where are we now and where are we going?. 2017 , 103, 1216-1222	7
848	[Value of cardiac CT in the diagnostic work-up of coronary artery disease : Update 2017]. 2017 , 57, 577-590	1
847	Combined diagnostic performance of coronary computed tomography angiography and computed tomography derived fractional flow reserve for the evaluation of myocardial ischemia: A meta-analysis. 2017 , 236, 100-106	11
846	Practical Considerations of Fractional Flow Reserve Utilization to Guide Revascularization. 2017 , 19, 13	
845	Comparison of the prognostic value of negative non-invasive cardiac investigations in patients with suspected or known coronary artery disease-a meta-analysis. 2017 , 18, 980-987	35
844	Long-term serial non-invasive multislice computed tomography angiography with functional evaluation after coronary implantation of a bioresorbable everolimus-eluting scaffold: the ABSORB cohort B MSCT substudy. 2017 , 18, 870-879	11

843	An FFR diagnostic strategy versus usual care in patients with suspected coronary artery disease planned for invasive coronary angiography at German sites: one-year results of a subgroup analysis of the PLATFORM (Prospective Longitudinal Trial of FFR: Outcome and Resource Impacts) study. 2017, 4, e000526	4
842	Prognostic Value of Combined CT Angiography and Myocardial Perfusion Imaging versus Invasive Coronary Angiography and Nuclear Stress Perfusion Imaging in the Prediction of Major Adverse Cardiovascular Events: The CORE320 Multicenter Study. 2017, 284, 55-65	52
841	Coronary Atherosclerotic Vulnerable Plaque: Current Perspectives. 2017, 6,	121
840	Diagnostic Value of Noninvasive Computed Tomography Perfusion Imaging and Coronary Computed Tomography Angiography for Assessing Hemodynamically Significant Native Coronary Artery Lesions. 2017, 354, 291-298	1
839	Fractional flow reserve derived from coronary computed tomography angiography: diagnostic performance in hypertensive and diabetic patients. 2017, 18, 1351-1360	10
838	A clinical model to identify patients with high-risk plaque by coronary computed tomography angiography. 2017, 228, 260-264	8
837	Rationale, design and goals of the HeartFlow assessing diagnostic value of non-invasive FFR in Coronary Care (ADVANCE) registry. 2017, 11, 62-67	29
836	Noninvasive measurement of pressure gradient across a coronary stenosis using phase contrast (PC)-MRI: A feasibility study. 2017, 77, 529-537	9
835	Fast Virtual Fractional Flow Reserve Based Upon Steady-State Computational Fluid Dynamics Analysis: Results From the VIRTU-Fast Study. 2017, 2, 434-446	48
834	Fractional flow reserve derived from coronary computed tomography angiography reclassification rate using value distal to lesion compared to lowest value. 2017, 11, 462-467	34
833	Computational Fluid Dynamics and Additive Manufacturing to Diagnose and Treat Cardiovascular Disease. 2017, 35, 1049-1061	22
832	Initial Clinical Experience with AView-A Clinical Computational Platform for Intracranial Aneurysm Morphology, Hemodynamics, and Treatment Management. 2017, 108, 534-542	11
831	Coronary CT Angiography Derived Fractional Flow Reserve: The Game Changer in Noninvasive Testing. 2017, 19, 112	6
830	Coronary Computed Tomographic Angiography-Derived Fractional Flow Reserve for Therapeutic Decision Making. 2017, 120, 2121-2127	27
829	Review. Automatic Segmentation Techniques of the Coronary Artery Using CT Images in Acute Coronary Syndromes. 2017, 3, 9-17	3
828	Coronary lumen volume to myocardial mass ratio in primary microvascular angina. 2017, 11, 423-428	18
827	What is the optimal anatomic location for coronary artery pressure measurement at CT-derived FFR?. 2017, 11, 397-403	16
826	Functional assessment of lesion severity without using the pressure wire: coronary imaging and blood flow simulation. 2017, 15, 863-877	2

825	Computing Fractional Flow Reserve From Invasive Coronary Angiography: Getting Closer. 2017 , 10,	3
824	Coronary CT Angiography-derived Fractional Flow Reserve. 2017 , 285, 17-33	95
823	New imaging tools in cardiovascular medicine: computational fluid dynamics and 4D flow MRI. 2017 , 65, 611-621	41
822	Myocardial Perfusion Imaging Versus Computed Tomography Angiography-Derived Fractional Flow Reserve Testing in Stable Patients With Intermediate-Range Coronary Lesions: Influence on Downstream Diagnostic Workflows and Invasive Angiography Findings. 2017 , 6,	18
821	Noninvasive FFR After STEMI: Looking for the Guilty Bystander. 2017 , 10, 500-502	1
820	Functional assessment of coronary artery disease by cardiac computed tomography. 2017 , 15, 657-665	5
819	The diagnostic performance of SPECT-MPI to predict functional significant coronary artery disease by fractional flow reserve derived from CCTA (FFR): sub-analysis from ACCURACY and VCT001 studies. 2017 , 33, 2067-2072	10
818	The Authors Reply. 2017 , 10, 498-499	
817	Coronary Computed Tomographic Angiography-Derived Fractional Flow Reserve Based on Machine Learning for Risk Stratification of Non-Culprit Coronary Narrowings in Patients with Acute Coronary Syndrome. 2017 , 120, 1260-1266	22
816	Coronary CT-Derived Fractional Flow Reserve. 2017 , 5, 1	
815	Does FFR have proven utility as a gatekeeper prior to invasive angiography?. 2017 , 24, 1619-1625	
814	Comparison of Coronary CT Angiography, SPECT, PET, and Hybrid Imaging for Diagnosis of Ischemic Heart Disease Determined by Fractional Flow Reserve. 2017 , 2, 1100-1107	176
813	Effect of the ratio of coronary arterial lumen volume to left ventricle myocardial mass derived from coronary CT angiography on fractional flow reserve. 2017 , 11, 429-436	41
812	Assessment of Serial Coronary Stenoses With Noninvasive Computed Tomography-Derived Fractional Flow Reserve and Treatment Planning Using a Novel Virtual Stenting Application. 2017 , 10, e223-e225	9
811	Interpreting results of coronary computed tomography angiography-derived fractional flow reserve in clinical practice. 2017 , 11, 383-388	31
810	Bridging the gap for lipid lowering therapy: plaque regression, coronary computed tomographic angiography, and imaging-guided personalized medicine. 2017 , 15, 547-558	5
809	Functional versus anatomical approach in stable coronary artery disease patients: Perspective of low- and middle-income countries. 2017 , 24, 518-522	3
808	Contrast-enhanced dual mode imaging: photoacoustic imaging plus more. 2017 , 7, 121-133	14

807	A study of noninvasive fractional flow reserve derived from a simplified method based on coronary computed tomography angiography in suspected coronary artery disease. 2017 , 16, 43	24
806	Fractional flow reserve derived by coronary computed tomography angiography : A 'sophisticated analysis method for detecting hemodynamically significant coronary stenosis. 2017 , 42, 604-606	1
805	FFR Derived From 'Coronary CT Angiography in 'Nonculprit 'Lesions of Patients With 'Recent 'STEMI. 2017 , 10, 424-433	44
804	Is FFR Ready to Assume the Crown Jewels of Invasive FFR?. 2017 , 10, 434-436	2
803	Assessment of left anterior descending artery stenosis of intermediate severity by fractional flow reserve, instantaneous wave-free ratio, and non-invasive coronary flow reserve. 2017 , 33, 999-1007	2
802	Noninvasive CT-Derived FFR Based on 'Structural and 'Fluid Analysis: A Comparison With Invasive FFR for Detection of Functionally Significant Stenosis. 2017 , 10, 663-673	102
801	The New Era of Computational Fluid 'Dynamics in CT Angiography: Far Beyond the FFR Number. 2017 , 10, 674-676	5
800	Hypertension, Left Ventricular Hypertrophy, and Myocardial Ischemia. 2017 , 101, 29-41	19
799	The Role of Interventional Cardiology to Our Understanding of Basic Mechanisms Related to Coronary Atherosclerosis: "Thinking outside the box". 2017 , 58, 110-114	5
798	Use of fractional flow reserve in patients with coronary artery disease: The right choice for the right outcome. 2017 , 27, 106-120	3
797	The effect of blood pressure on non-invasive fractional flow reserve derived from coronary computed tomography angiography. 2017 , 27, 1416-1423	10
796	Fractional flow reserve by computerized tomography and subsequent coronary revascularization. 2017 , 18, 145-152	13
795	A novel approach to diagnosing coronary artery disease: acoustic detection of coronary turbulence. 2017 , 33, 129-136	17
794	Computed Tomography Fractional Flow Reserve Can Identify Culprit Lesions in Aortoiliac Occlusive Disease Using Minimally Invasive Techniques. 2017 , 38, 151-157	4
793	Feasibility and diagnostic performance of fractional flow reserve measurement derived from coronary computed tomography angiography in real clinical practice. 2017 , 33, 271-281	19
792	Effects of alogliptin on fractional flow reserve evaluated by coronary computed tomography angiography in patients with type 2 diabetes: Rationale and design of the TRACT study. 2017 , 69, 518-522	9
791	Coronary lesion characteristics with mismatch between fractional flow reserve derived from CT and invasive catheterization in clinical practice. 2017 , 32, 390-398	9
790	Neue M'glichkeiten der Isch'miediagnostik: CT-FFR und CT-Perfusion. 2017 , 17, 307-320	0

789	Computational estimation of the hemodynamic significance of coronary stenoses in arterial branches deriving from CCTA: A proof-of-concept study. 2017 , 2017, 1348-1351	2
788	Hemodynamics analysis of the serial stenotic coronary arteries. 2017 , 16, 127	18
787	Ad hoc vs. Non-ad hoc Percutaneous Coronary Intervention Strategies in Patients With Stable Coronary Artery Disease. 2017 , 81, 458-467	6
786	Coronary Computed Tomography Angiography. 2017 ,	
785	Efficacy of noninvasive cardiac imaging tests in diagnosis and management of stable coronary artery disease. 2017 , 13, 427-437	28
784	Blood Flow. 2017 , 1-31	
783	[The Effect of Reconstruction Method on the Ability to Analyze of FFR Using CT]. 2017 , 73, 1140-1146	
782	An investigation of correlation between left coronary bifurcation angle and hemodynamic changes in coronary stenosis by coronary computed tomography angiography-derived computational fluid dynamics. 2017 , 7, 537-548	7
781	Integration of non-invasive functional assessments with anatomical risk stratification in complex coronary artery disease: the non-invasive functional SYNTAX score. 2017 , 7, 151-158	12
780	The relationship between coronary artery distensibility and fractional flow reserve. 2017 , 12, e0181824	13
779	Diagnostic accuracy of coronary opacification derived from coronary computed tomography angiography to detect ischemia: first validation versus single-photon emission computed tomography. 2017 , 7, 92	3
778	Stellenwert der Herz-CT in der Diagnostik der koronaren Herzerkrankung. 2017 , 31, 379-391	
777	Applicability of 3-Dimensional Quantitative Coronary Angiography-Derived Computed Fractional Flow Reserve for Intermediate Coronary Stenosis. 2017 , 81, 988-992	31
776	Noninvasive Fractional Flow Reserve Derived From Coronary Computed Tomography Angiography - Is This Just Another New Diagnostic Test or the Long-Awaited Game Changer?. 2017 , 81, 1085-1093	5
775	Myocardial blood flow quantification for evaluation of coronary artery disease by computed tomography. 2017 , 7, 129-150	26
774	Coronary CT angiography in acute chest pain. 2017 , 6, 1125	4
773	Performing and Interpreting Fractional Flow Reserve Measurements in Clinical Practice: An Expert Consensus Document. 2017 , 12, 97-109	20
772	Plaque imaging with CT-a comprehensive review on coronary CT angiography based risk assessment. 2017 , 7, 489-506	51

771	Fractional flow reserve computed tomography in the evaluation of coronary artery disease. 2017 , 7, 463-474	6
770	CT as gatekeeper of invasive coronary angiography in patients with suspected CAD. 2017 , 7, 189-195	4
769	Impact of plaque characteristics on the degree of functional stenosis. 2017 , 7, 219-226	
768	Stenotic flow reserve derived from quantitative coronary angiography has modest but incremental value in predicting functionally significant coronary stenosis as evaluated by fractional flow reserve. 2017 , 7, 52-59	1
767	Coronary CT angiography-future directions. 2017 , 7, 432-438	8
766	Myocardial ischemia testing with computed tomography: emerging strategies. 2017 , 7, 475-488	6
765	Diagnostic coronary angiography: past, present and future. 2018 , 79, 66-67	1
764	Innovations in Cardiac CTA. 2018 , 5-30	
763	Relationship of the Duke jeopardy score combined with minimal lumen diameter as assessed by computed tomography angiography to the hemodynamic relevance of coronary artery stenosis. 2018 , 12, 247-254	5
762	Imaging to Assess Ischemic Heart Disease in Women. 2018 , 20, 16	2
761	CT coronary angiography: a paradigm shift for functional imaging tests. 2018 , 5, e000754	6
760	Impact of cardiac hybrid imaging-guided patient management on clinical long-term outcome. 2018 , 261, 218-222	7
759	The transluminal attenuation gradient in coronary CT angiography for the detection of hemodynamically significant disease: can all arteries be treated equally?. 2018 , 91, 20180043	4
758	Técnicas de imagen híbridas en cardiopatía isquémica. 2018 , 71, 382-390	2
757	Fractional flow reserve-CT assessment of coronary stenosis. 2018 , 35, 730-732	1
756	Coronary CT Angiography-derived Fractional Flow Reserve: Machine Learning Algorithm versus Computational Fluid Dynamics Modeling. 2018 , 288, 64-72	106
755	Cardiac CTA Fractional Flow Reserve. 2018 , 203-222	
754	Comparison of invasively measured FFR with FFR derived from coronary CT angiography for detection of lesion-specific ischemia: Results from a PC-based prototype algorithm. 2018 , 12, 101-107	21

753	Evaluation of coronary artery disease after computed tomography angiography. 2018 , 19, 378-379	
752	A patient-specific approach to assessing blood pressure management in patients with hypertension and coronary artery disease. 2018 , 20, 233-239	1
751	A functionally personalized boundary condition model to improve estimates of fractional flow reserve with CT (CT-FFR). 2018 , 45, 1170-1177	6
750	Lesion-Specific and Vessel-Related Determinants of Fractional Flow Reserve Beyond Coronary Artery Stenosis. 2018 , 11, 521-530	55
749	Incidence and predictors of lesion-specific ischemia by FFR: Learnings from the international ADVANCE registry. 2018 , 12, 95-100	21
748	Integrated prediction of lesion-specific ischaemia from quantitative coronary CT angiography using machine learning: a multicentre study. 2018 , 28, 2655-2664	85
747	Diagnostic Ability of CT to Help Differentiate Stenosis of 30% in Patients with Atrial Fibrillation. 2018 , 286, 361-363	
746	Hybrid Imaging in Ischemic Heart Disease. 2018 , 71, 382-390	1
745	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. 2018 , 267, 208-214	12
744	Influence of Microcirculatory Dysfunction on Angiography-Based Functional Assessment of Coronary Stenoses. 2018 , 11, 741-753	59
743	Fractional Flow Reserve Estimated at Coronary CT Angiography in Intermediate Lesions: Comparison of Diagnostic Accuracy of Different Methods to Determine Coronary Flow Distribution. 2018 , 287, 76-84	22
742	Machine learning in cardiac CT: Basic concepts and contemporary data. 2018 , 12, 192-201	58
741	Simplified Bernoulli formula to predict flow limiting stenosis at coronary computed tomography angiography. 2018 , 51, 104-110	4
740	CT Fractional Flow Reserve for Stable Coronary Artery Disease: The Ongoing Journey. 2018 , 287, 85-86	1
739	Evaluation of Coronary Artery Stenosis by Quantitative Flow Ratio During Invasive Coronary Angiography: The WIFI II Study (Wire-Free Functional Imaging II). 2018 , 11, e007107	92
738	Coronary computed tomography-derived fractional flow reserve assessment - Finally ready for clinical use?. 2018 , 12, e5	
737	Past, Present and Future of Coronary Physiology. 2018 , 71, 656-667	2
736	Cardiac Computed Tomography for Planning Revascularization Procedures. 2018 , 33, 35-54	14

735	Computed tomography derived fractional flow reserve testing in stable patients with typical angina pectoris: influence on downstream rate of invasive coronary angiography. 2018 , 19, 405-414	35
734	Virtual Resting Pd/Pa From Coronary Angiography and Blood Flow Modelling: Diagnostic Performance Against Fractional Flow Reserve. 2018 , 27, 377-380	6
733	Estimating the accuracy of a reduced-order model for the calculation of fractional flow reserve (FFR). 2018 , 34, e2908	38
732	Noninvasive assessment of carotid artery stenoses by the principle of multiscale modelling of non-Newtonian blood flow in patient-specific models. 2018 , 319, 598-616	7
731	Diagnostic efficacy of fractional flow reserve with coronary angiography in dual-source computed tomography scanner. 2018 , 73, 76-83	1
730	Fractional flow reserve and myocardial perfusion by computed tomography: a guide to clinical application. 2018 , 19, 127-135	21
729	Non-invasive Assessment of Myocardial Ischemia. 2018 , 311-326	
728	Competing Flow Between Partial Circulatory Support and Native Cardiac Output: A Clinical Computational Fluid Dynamics Study. 2018 , 64, 636-642	1
727	Experience With an On-Site Coronary Computed Tomography-Derived Fractional Flow Reserve Algorithm for the Assessment of Intermediate Coronary Stenoses. 2018 , 121, 9-13	29
726	Noninvasive Computed Tomography-Derived Fractional Flow Reserve Based on Structural and Fluid Analysis: Reproducibility of On-site Determination by Unexperienced Observers. 2018 , 42, 256-262	12
725	Noninvasive Derivation of Fractional Flow Reserve From Coronary Computed Tomographic Angiography: A Review. 2018 , 33, 88-96	36
724	Clinical significance of transluminal attenuation gradient in 320-row area detector coronary CT angiography. 2018 , 33, 462-469	7
723	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. 2018 , 44, 72-85	103
722	Comprehensive Cardiac CT With Myocardial Perfusion Imaging Versus Functional Testing in Suspected Coronary Artery Disease: The Multicenter, Randomized CRESCENT-II Trial. 2018 , 11, 1625-1636	47
721	Improved diagnostic performance of transluminal attenuation gradient in combination with morphological evaluation of coronary artery stenosis using 320-row computed tomography. 2018 , 36, 51-58	3
720	Review of cardiovascular imaging in the Journal of Nuclear Cardiology 2017. Part 1 of 2: Positron emission tomography, computed tomography, and magnetic resonance. 2018 , 25, 320-330	5
719	Recent controversy regarding the accuracy of CT-FFR. The truth is out there. 2018 , 12, e1	4
718	Anomalous origin of coronary arteries from the "wrong" sinus in athletes: Diagnosis and management strategies. 2018 , 252, 13-20	23

717	Correlation between early revascularization and major cardiac events demonstrated by ischemic myocardium in Japanese patients with stable coronary artery disease. 2018 , 71, 44-51	8
716	Noninvasive Imaging of the Coronary Vasculature Using Ultrafast Ultrasound. 2018 , 11, 798-808	23
715	Computational Modeling of Heart Valves: Understanding and Predicting Disease. 2018 , 385-411	
714	Fractional flow reserve at the crossroad between revascularization and medical therapy. 2018 , 8, 556-558	1
713	Putting It All Together: Which Test for Which Patient?. 2018 , 204-225	1
712	Contrast of diagnostic value between IL-17 combined with IL-18 and CT angiography in carotid atherosclerosis. 2019 , 17, 1400-1404	1
711	FFR for Complex Coronary Artery Disease Treatment Planning: New Opportunities. 2018 , 13, 126-128	6
710	Full Issue PDF. 2018 , 11, e1099-e1278	
709	Image-Based Computational Fluid Dynamic Analysis for Surgical Planning of Sequential Grafts in Coronary Artery Bypass Grafting. 2018 , 2018, 4893-4896	0
708	Cardiac Computed Tomography 2.0: Adding Physiology to Anatomy. 2018 , 11, 1733-1735	
707	Koronare CT-Angiografie. 2018 , 47, 520-525	
706	One-Dimensional Mathematical Model-Based Automated Assessment of Fractional Flow Reserve in a Patient with Silent Myocardial Ischemia. 2018 , 19, 724-728	4
705	Impact of computed tomography (CT)-derived fractional flow reserve on reader confidence for interpretation of coronary CT angiography. 2018 , 108, 242-248	3
704	Assessment of lesion-specific ischemia using fractional flow reserve (FFR) profiles derived from coronary computed tomography angiography (FFRCT) and invasive pressure measurements (FFRINV): Importance of the site of measurement and implications for patient referral for invasive coronary angiography and percutaneous coronary intervention. 2018 , 12, 488-492	18
703	Diabetes and Subclinical Coronary Atherosclerosis. 2018 , 42, 355-363	11
702	FFR Versus SPECT to Diagnose Coronary Artery Disease: Toward a Tailored Approach. 2018 , 11, 1651-1653	
701	Diagnostic Testing in Coronary Artery Disease: Relieving the Stenosis, Attenuating Ischemia, or Preventing Hard Events?. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 2135-2138	15.1
700	FFR derived from computed tomography angiography: the experience in the UK. 2018 , 16, 919-929	3

699	Coronary computed tomography angiography for heart team decision-making in multivessel coronary artery disease. 2018 , 39, 3689-3698		93
698	Coronary CTA for Surveillance of Cardiac Allograft Vasculopathy. 2018 , 11, 26		7
697	CT Myocardial Perfusion Imaging: A New Frontier in Cardiac Imaging. 2018 , 2018, 7295460		22
696	The value of Coronary Artery computed Tomography as the first-line anatomical test for stable patients with indications for invasive angiography due to suspected Coronary Artery Disease: CAT-CAD randomized trial. 2018 , 12, 472-479		17
695	Fractional Flow Reserve Derived from Coronary Computed Tomography Angiography Datasets: The Next Frontier in Noninvasive Assessment of Coronary Artery Disease. 2018 , 2018, 2680430		13
694	Contemporary techniques in percutaneous coronary intervention for bifurcation lesions. 2018 , 16, 725-734		7
693	Computed tomography myocardial perfusion imaging vs. computed tomography-derived fractional flow reserve, which way forward?. 2018 , 19, 1230-1231		
692	The rationale for the primacy of coronary CT angiography in the National Institute for Health and Care Excellence (NICE) guideline (CG95) for the investigation of chest pain of recent onset. 2018 , 12, 516-522		29
691	Can CT-derived FFR better inform clinical decision-making and improve outcomes in stable ischaemic heart disease?. 2018 , 39, 3712-3714		9
690	[Copyright notice]. 2018 ,		
689	[Copyright notice]. 2018 ,		
688	Symposia Chairs. 2018 ,		
687	. 2018 ,		
686	Fractional Flow Reserve Derived From Computed Tomographic Angiography in Patients With Multivessel CAD. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 2756-2769	15.1	58
685	Coronary CT Angiography to Guide Treatment Decision Making: Lessons From the SYNTAX II Trial. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 2770-2772	15.1	3
684	Non-invasive fractional flow reserve in vessels without severe obstructive stenosis is associated with coronary plaque burden. 2018 , 12, 379-384		9
683	Computed Tomography Fractional Flow Reserve to Guide Coronary Angiography and Intervention. 2018 , 7, 345-354		9
682	Coronary computed tomography angiography: a method coming of age. 2018 , 107, 40-48		10

681	Intracardiac Flow at 4D CT: Comparison with 4D Flow MRI. 2018 , 289, 51-58	16
680	Changes in coronary atherosclerosis, composition, and fractional flow reserve evaluated by coronary computed tomography angiography in patients with type 2 diabetes. 2018 , 19, 46-51	3
679	Cardiac CT: Technological Advances in Hardware, Software, and Machine Learning Applications. 2018 , 11, 1	9
678	Fractional flow reserve (FFR) as a guide to treat coronary artery disease. 2018 , 16, 465-477	8
677	Diagnostic performance of machine-learning-based computed fractional flow reserve (FFR) derived from coronary computed tomography angiography for the assessment of myocardial ischemia verified by invasive FFR. 2018 , 34, 1987-1996	14
676	SYNTAX II and SYNTAX III trials: what is the take home message for surgeons?. 2018 , 7, 470-482	12
675	Application of Patient-Specific Computational Fluid Dynamics in Coronary and Intra-Cardiac Flow Simulations: Challenges and Opportunities. 2018 , 9, 742	42
674	Comparison of Computed Tomography derived Fractional Flow Reserve to invasive Fractional Flow Reserve in Diagnosis of Functional Coronary Stenosis: A Meta-Analysis. 2018 , 8, 11535	3
673	Diagnostic Performance of In-Procedure Angiography-Derived Quantitative Flow Reserve Compared to Pressure-Derived Fractional Flow Reserve: The FAVOR II Europe-Japan Study. 2018 , 7,	128
672	CT-based total vessel plaque analyses improves prediction of hemodynamic significance lesions as assessed by fractional flow reserve in patients with stable angina pectoris. 2018 , 12, 344-349	13
671	Aktueller Stellenwert der kardialen Computertomographie in der Diagnostik der koronaren Herzerkrankung. 2018 , 12, 217-230	3
670	A new CFD based non-invasive method for functional diagnosis of coronary stenosis. 2018 , 17, 36	15
669	Cardiovascular computed tomographic angiography: Entering into the 5th stage. 2018 , 12, 181-183	0
668	CT and MRI. 2018 , 174-193	
667	Performance of computed tomography-derived fractional flow reserve using reduced-order modelling and static computed tomography stress myocardial perfusion imaging for detection of haemodynamically significant coronary stenosis. 2018 , 19, 1234-1243	22
666	Coronary CT Angiographic and Flow Reserve-Guided Management of Patients With Stable Ischemic Heart Disease. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 2123-2134	15.1 75
665	Hypertrophic Cardiomyopathy (HCM): New insights into Coronary artery remodelling and ischemia from FFR. 2018 , 12, 467-471	8
664	Real-world clinical utility and impact on clinical decision-making of coronary computed tomography angiography-derived fractional flow reserve: lessons from the ADVANCE Registry. 2018 , 39, 3701-3711	118

663	Prospective Comparison of FFR Derived From Coronary CT Angiography With SPECT Perfusion Imaging in Stable Coronary Artery Disease: The ReASSESS Study. 2018 , 11, 1640-1650	62
662	Anomalous aortic origin of the right coronary artery with functional ischemia determined with fractional flow reserve derived from computed tomography. 2018 , 6, 1371-1372	7
661	CT morphological index provides incremental value to machine learning based CT-FFR for predicting hemodynamically significant coronary stenosis. 2018 , 265, 256-261	16
660	Teaching cardiovascular medicine to machines. 2018 , 114, e62-e64	8
659	Pasado, presente y futuro de la fisiología coronaria. 2018 , 71, 656-667	11
658	Comparison of Computational Fluid Dynamics and Machine Learning-Based Fractional Flow Reserve in Coronary Artery Disease. 2018 , 11, e007950	5
657	Rationale and design of advantage (additional diagnostic value of CT perfusion over coronary CT angiography in stented patients with suspected in-stent restenosis or coronary artery disease progression) prospective study. 2018 , 12, 411-417	8
656	Diagnostic Accuracy of a Machine-Learning Approach to Coronary Computed Tomographic Angiography-Based Fractional Flow Reserve: Result From the MACHINE Consortium. 2018 , 11, e007217	165
655	Chess and Coronary Artery Ischemia: Clinical Implications of Machine-Learning Applications. 2018 , 11, e007943	4
654	Mathematical Techniques for Circulatory Systems. 2019 , 79-94	
653	Dynamic Stress Perfusion CT: 2 Out of 3 Ain N Bad?. 2019 , 12, 1388-1391	
652	2018 ESC/EACTS Guidelines on myocardial revascularization. 2019 , 40, 87-165	2408
651	2018 ESC/EACTS Guidelines on myocardial revascularization. 2019 , 55, 4-90	251
650	Diagnostic performance of on-site computed CT-fractional flow reserve based on fluid structure interactions: comparison with invasive fractional flow reserve and instantaneous wave-free ratio. 2019 , 20, 343-352	23
649	Emerging role of cardiac computed tomography in heart failure. 2019 , 6, 909-920	11
648	Optimal Cutoff Value of Fractional Flow Reserve Derived From Coronary Computed Tomography Angiography for Predicting Hemodynamically Significant Coronary Artery Disease. 2019 , 12, e008905	9
647	Prognosis of CT-derived Fractional Flow Reserve in the Prediction of Clinical Outcomes. 2019 , 1, e190021	3
646	Non-invasive coronary CT angiography-derived fractional flow reserve: A benchmark study comparing the diagnostic performance of four different computational methodologies. 2019 , 35, e3235	20

645	Danish study of Non-Invasive testing in Coronary Artery Disease 2 (Dan-NICAD 2): Study design for a controlled study of diagnostic accuracy. 2019 , 215, 114-128	5
644	On the Voyage from Anatomic to Physiologic Guidelines for Coronary Intervention. 2019 , 292, 352-353	
643	Cardiac Computed Tomography - More Than Coronary Arteries? A Clinical Update. 2019 , 191, 817-826	4
642	Full Issue PDF. 2019 , 12, I-CLXXXIV	
641	Identification of coronary arteries in CT images by Bayesian analysis of geometric relations among anatomical landmarks. 2019 , 96, 106958	3
640	Cardiac CT for Coronary Imaging. 2019 , 327-344	
639	Functional and Anatomical Testing in Intermediate Risk Chest Pain Patients with a High Coronary Calcium Score: Rationale and Design of the FACC Study. 2019 , 142, 141-148	0
638	Determinants of Rejection Rate for Coronary CT Angiography Fractional Flow Reserve Analysis. 2019 , 292, 597-605	24
637	Coronary CT Angiography Fractional Flow Reserve Analysis: A Practical Tool or a Luxury for Research Centers?. 2019 , 292, 606-607	2
636	Functional and Anatomical Imaging in Patients with Ischemic Symptoms and Known Coronary Artery Disease. 2019 , 21, 79	3
635	Full Issue PDF. 2019 , 12, I-CVII	
634	Controversies in Diagnostic Imaging of Patients With Suspected Stable and Acute Chest Pain Syndromes. 2019 , 12, 1254-1278	3
633	Non-invasive CT-derived fractional flow reserve and static rest and stress CT myocardial perfusion imaging for detection of haemodynamically significant coronary stenosis. 2019 , 35, 2103-2112	9
632	QFR and FFR: Accurate Enough?. 2019 , 12, 2060-2063	2
631	How Well Does CT-derived Fractional Flow Reserve Predict Outcome?. 2019 , 1, e190107	
630	Computational instantaneous wave-free ratio (IFR) for patient-specific coronary artery stenoses using 1D network models. 2019 , 35, e3255	10
629	Diagnostic performance of a fast non-invasive fractional flow reserve derived from coronary CT angiography: an initial validation study. 2019 , 74, 973.e1-973.e6	3
628	Coronary computed tomography angiography equals invasive angiography for the prediction of coronary revascularization. 2019 , 15, 308-313	2

627	Cardiac Pathology. 2019,	0
626	Diagnostic Performance of On-Site Coronary CT Angiography-derived Fractional Flow Reserve Based on Patient-specific Lumped Parameter Models. 2019, 1, e190036	8
625	Gender differences in the diagnostic performance of machine learning coronary CT angiography-derived fractional flow reserve -results from the MACHINE registry. 2019, 119, 108657	14
624	QFR Versus FFR Derived From Computed Tomography for Functional Assessment of Coronary Artery Stenosis. 2019, 12, 2050-2059	14
623	Review of Image-Guided Percutaneous Coronary Interventions. 2019,	1
622	Inter- and Intraoperator Variability in Measurement of On-Site CT-derived Fractional Flow Reserve Based on Structural and Fluid Analysis: A Comprehensive Analysis. 2019, 1, e180012	4
621	Flujo de reserva fraccional, relaci3n de la presi3n instant3nea en el periodo libre de ondas, y angiogramaf3a de arterias coronarias. 2019, 26, 190-197	
620	Impact of Hydrostatic Pressure Variations Caused by Height Differences in Supine and Prone Positions on Fractional Flow Reserve Values in the Coronary Circulation. 2019, 2019, 4532862	4
619	Detection of Hemodynamically Significant Coronary Stenosis: CT Myocardial Perfusion versus Machine Learning CT Fractional Flow Reserve. 2019, 293, 305-314	24
618	Diagnostic Performance of Machine Learning Based CT-FFR in Detecting Ischemia in Myocardial Bridging and Concomitant Proximal Atherosclerotic Disease. 2019, 35, 1523-1533	10
617	Coronary Computed Tomography Angiography: Enhancing Risk Stratification and Diagnosis of Cardiovascular Disease in Women. 2019, 21, 62	1
616	Cardiovascular models for personalised medicine: Where now and where next?. 2019, 72, 38-48	14
615	Real World Utilization of Computed Tomography Derived Fractional Flow Reserve: Single Center Experience in the United States. 2019, 20, 1043-1047	0
614	Quantified dual energy computed tomography perfusion imaging using myocardial iodine concentration: Validation using CT derived myocardial blood flow and invasive fractional flow reserve in a porcine model. 2019, 13, 86-91	5
613	One In, One Out, Many More to Go. 2019, 12, 385-387	
612	Full Issue PDF. 2019, 12, I-CLXVI	
611	On-Site Computed Tomography-Derived Fractional Flow Reserve Using a Machine-Learning Algorithm - Clinical Effectiveness in a Retrospective Multicenter Cohort. 2019, 83, 1563-1571	8
610	Impact of sublingual nitroglycerin dosage on FFR assessment and coronary luminal volume-to-myocardial mass ratio. 2019, 29, 6829-6836	6

609	The importance of side branches in modeling 3D hemodynamics from angiograms for patients with coronary artery disease. 2019 , 9, 8854	18
608	Diagnostic accuracy of 3D deep-learning-based fully automated estimation of patient-level minimum fractional flow reserve from coronary computed tomography angiography. 2020 , 21, 437-445	25
607	A geometry-based model for non-invasive estimation of pressure gradients over iliac artery stenoses. 2019 , 92, 67-75	2
606	Coronary CT Angiography for Evaluation of Acute Coronary Syndrome in the Emergency Department. 2019 , 331-348	
605	Coronary CT Angiography as the Gatekeeper to the Cath Lab: Where Are We?. 2019 , 849-857	
604	The predictive factors affecting false positive in on-site operated CT-fractional flow reserve based on fluid and structural interaction. 2019 , 23, 100372	3
603	Prognostic Value and Risk Continuum of Noninvasive Fractional Flow Reserve Derived from Coronary CT Angiography. 2019 , 292, 343-351	41
602	Die CT-Koronarangiografie als elektive Diagnostik bei KHK-Verdacht. 2019 , 15, 119-129	
601	Effect of Tube Voltage on Diagnostic Performance of Fractional Flow Reserve Derived From Coronary CT Angiography With Machine Learning: Results From the MACHINE Registry. 2019 , 213, 325-331	4
600	Advanced Methods for Coronary Artery Plaque Analysis. 2019 , 725-735	
599	Non-invasive fractional flow reserve derived from coronary computed tomography angiography in patients with acute chest pain: Subgroup analysis of the ROMICAT II trial. 2019 , 13, 196-202	17
598	Computational modeling of bicuspid aortopathy: Towards personalized risk strategies. 2019 , 131, 122-131	5
597	One-dimensional modeling of fractional flow reserve in coronary artery disease: Uncertainty quantification and Bayesian optimization. 2019 , 353, 66-85	14
596	Coronary CT in Patients with a History of PCI or CABG: Helpful or Harmful?. 2019 , 12, 1	2
595	Clinical Impact of Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve on Japanese Population in the ADVANCE Registry. 2019 , 83, 1293-1301	5
594	2018 ESC/EACTS Guidelines on myocardial revascularization. 2019 , 72, 73.e1-73.e76	1
593	Diagnostic performance of fractional flow reserve derived from coronary CT angiography for detection of lesion-specific ischemia: A multi-center study and meta-analysis. 2019 , 116, 90-97	18
592	Automated plaque analysis for the prognostication of major adverse cardiac events. 2019 , 116, 76-83	21

591	Feasibility of planning coronary artery bypass grafting based only on coronary computed tomography angiography and CT-derived fractional flow reserve: a pilot survey of the surgeons involved in the randomized SYNTAX III Revolution trial. 2019 ,	11
590	Computational fluid dynamics: can computed tomography imaging compete with cath-lab physiology?. 2019 , 115, e41-e43	2
589	Evaluation of fractional flow reserve in patients with stable angina: can CT compete with angiography?. 2019 , 29, 3669-3677	11
588	Multimodality imaging in ischaemic heart failure. 2019 , 393, 1056-1070	13
587	The best predictor of ischemic coronary stenosis: subtended myocardial volume, machine learning-based FFR, or high-risk plaque features?. 2019 , 29, 3647-3657	16
586	Diagnostic performance of quantitative flow ratio in prospectively enrolled patients: An individual patient-data meta-analysis. 2019 , 94, 693-701	37
585	CT Angiography-Derived Fractional Flow Reserve. 2019 , 767-776	
584	Diagnostic Agreement of Quantitative Flow Ratio With Fractional Flow Reserve and Instantaneous Wave-Free Ratio. 2019 , 8, e011605	23
583	The Long March into Clinical Practice: Cardiac CT and Its Competitors. 2019 , 19-33	
582	Carotid plaque composition by CT angiography in asymptomatic subjects: a head-to-head comparison to ultrasound. 2019 , 29, 5920-5931	6
581	Use of Coronary Computed Tomography Angiography in Cardiac Risk Assessment for Non-cardiac Surgery. 2019 , 355-360	
580	Impact of Inflow Boundary Conditions on the Calculation of CT-Based FFR. 2019 , 4, 60	8
579	Coronary CT Angiography in New-Onset Stable Chest Pain: Time for U.S. Guidelines to Be NICER. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 903-905	15.1 6
578	PCI and CABG for Treating Stable Coronary Artery Disease: JACC Review Topic of the Week. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 964-976	15.1 125
577	Regional layer-specific longitudinal peak systolic strain using exercise stress two-dimensional speckle-tracking echocardiography for the detection of functionally significant coronary artery disease. 2019 , 34, 1394-1403	5
576	Predicting the Physiological Effect of Revascularization in Serially Diseased Coronary Arteries. 2019 , 12, e007577	30
575	Computed Tomography to Replace Invasive Coronary Angiography?. 2019 , 12, e008710	2
574	Effect of Coronary Anatomy and Myocardial Ischemia on Long-Term Survival in Patients with Stable Ischemic Heart Disease. 2019 , 12, e005079	11

- 573 Practical Clinical Application of Cardiac Computed Tomography-Derived Fractional Flow Reserve. **2019**, 4, 31-42
- 572 Risk Analysis and Study of Wind Turbines Off-Grid Based on AC/DC Hybrid Grid. **2019**,
- 571 Novel Simulation Model for Coil-Coil Type Electromagnetic Repulsion Actuator in Low Voltage DC Circuit Breaker. **2019**, 1
- 570 A Novel Data Packing Technique for QC-LDPC Decoder Architecture applied to NAND flash controller. **2019**, 3
- 569 Automating Non-Blocking Synchronization In Concurrent Data Abstractions. **2019**,
- 568 Velocity Detection by Ultrasonic Doppler based on Multi-Time Technique Analysis. **2019**, 1
- 567 Prediction of Thermodynamic Processes in Insulating Materials of Cable Electric Power Systems. **2019**,
- 566 IsoClustering: A Generalized Framework for Local Data Clustering. **2019**,
- 565 Parameter Selection of Differential Evolution by another Differential Evolution Algorithm. **2019**,
- 564 IEEE Transactions on Applied Superconductivity Subject Categories for Article Numbering. **2019**, 29, C3-C3
- 563 Importance of Interconnects: A Technology-System-Level Design Perspective. **2019**, 2
- 562 Learning Fuzzy SPARQL User Preferences. **2019**,
- 561 Study for Randomness of Diverse Pseudo-Random Bit Generators Oriented to Telecommunication Applications. **2019**, 0
- 560 Millimeter-Wave Circuit Parameters optimization for Designing CMOS On-Chip Transformer Coupled Amplifiers. **2019**,
- 559 Keynote Speech 2 : Deep Learning Approach With Radial Basis Function For Modelling And Forecasting Health Data, Case Study: Dengue Fever. **2019**,
- 558 Power-Imbalanced Low-Density Signatures (LDS) From Eisenstein Numbers. **2019**, 9
- 557 Message from the SmartSys 2019 Workshop and Program Co-Chairs. **2019**,
- 556 An Ensemble of Activation Functions in AutoEncoder Applied to IoT Anomaly Detection. **2019**, 0

555	Influence of Deactivated Agents in Social Networks: Switching Between French-De Groot Models and Friedkin-Johnsen Model. 2019,	1
554	ICMIM 2019 Index. 2019,	
553	A Novel Hybrid data security algorithm for Electronic Health Records security. 2019,	0
552	Learning Visually Aligned Semantic Graph for Cross-Modal Manifold Matching. 2019,	
551	Impact of Increased Penetration of Photovoltaic Sources on Small-Signal Stability of Hybrid and Multi-area Power Systems. 2019,	3
550	Analysis of Deadbeat Grid-Connected Algorithm Based on Newton and Taylor Interpolation Prediction. 2019,	
549	Fuzzy Cloud Access Security Broker for Requirements Negotiation and Prioritization. 2019,	3
548	Crowdsourcing in Software Engineering: Models, Motivations, and Challenges. 2019,	3
547	Classification of Insulating Liquids Thermal Treatment Using Infrared Spectroscopy and Multivariate Statistical Method. 2019,	
546	Swachh Robo Ones Cleanliness Identity. 2019,	
545	The effect of error propagation in the 3D reconstruction of coronary segments using CTCA images on crucial hemodynamic parameters. 2019, 2019, 5006-5009	1
544	Particle Swarm Optimization Tuning of Modular Multilevel Converters in a Time-Invariant Framework. 2019,	
543	GALEN: A Geometric Framework for Global Optimal Power Allocation in a Full Duplex D2D Network. 2019,	1
542	Secure Smartphone-Based NFC Payment to Prevent Man-in-the-Middle Attack. 2019,	
541	Research on Multi-scale Batch Normalized Convolutional Neural Networks for Gearbox Fault Diagnosis. 2019,	
540	Platinum Balanced Cantilever-based Thermal Conductivity Detector for Gas Chromatography Application. 2019,	
539	. 2019,	
538	. 2019,	0

537	Health Information Management System for a Rural Medical Clinic in Nicaragua. 2019,	1
536	Distributed Dynamic Sensor Assignment of Multiple Mobile Targets. 2019,	2
535	A Task Parallel Processing Technology for Robot Process Automation. 2019,	2
534	Improvement proposal to raise service level in a cosmetics retail company. 2019,	
533	Development and Analysis Methods of Transporter Electric Drive for Electrotechnological Complex of Crop Seed Presowing by Electromagnetic Field. 2019,	2
532	Blood Flow SPH Simulation with Elastic Deformation of Blood Vessels. 2019,	1
531	Coronary CT Angiography-derived Fractional Flow Reserve Testing in Patients with Stable Coronary Artery Disease: Recommendations on Interpretation and Reporting. 2019, 1, e190050	24
530	Machine Learning for Assessment of Coronary Artery Disease in Cardiac CT: A Survey. 2019, 6, 172	23
529	CT Angiography-derived Fractional Flow Reserve: The Global Game of Thrones. 2019, 1, e190197	1
528	Impact of Fractional Flow Reserve Derived From Coronary Computed Tomography Angiography on Heart Team Treatment Decision-Making in Patients With Multivessel Coronary Artery Disease: Insights From the SYNTAX III REVOLUTION Trial. 2019, 12, e007607	39
527	Noninvasive Fractional Flow Reserve and the Heart Team Decision Process: A Shift in Paradigm or Nice to Have?. 2019, 12, e008689	
526	Current Evidence in Cardiothoracic Imaging: Growing Evidence for Coronary Computed Tomography Angiography as a First-line Test in Stable Chest Pain. 2019, 34, 4-11	25
525	Anatomical and Functional Computed Tomography for Diagnosing Hemodynamically Significant Coronary Artery Disease: A Meta-Analysis. 2019, 12, 1316-1325	55
524	Plaque Volume and Morphology are Associated with Fractional Flow Reserve Derived from Coronary Computed Tomography Angiography. 2019, 26, 697-704	7
523	Incremental diagnostic value of whole-heart dynamic computed tomography perfusion imaging for detecting obstructive coronary artery disease. 2019, 73, 425-431	9
522	Current Evidence in Cardiothoracic Imaging: Computed Tomography-derived Fractional Flow Reserve in Stable Chest Pain. 2019, 34, 12-17	16
521	Low-density lipoprotein accumulation within the right coronary artery walls for physiological and hypertension conditions. 2019, 177, 39-43	2
520	The influence of model order reduction on the computed fractional flow reserve using parameterized coronary geometries. 2019, 82, 313-323	9

519	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. 2019 , 29, 2350-2359	49
518	Predicting slips based on the STM 603 whole-footwear tribometer under different coefficient of friction testing conditions. 2019 , 62, 668-681	16
517	Additional diagnostic value of new CT imaging techniques for the functional assessment of coronary artery disease: a meta-analysis. 2019 , 29, 3044-3061	11
516	Comparison of Coronary Computed Tomography Angiography, Fractional Flow Reserve, and Perfusion Imaging for Ischemia Diagnosis. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 161-173 ^{15.1}	124
515	Non obstructive high-risk plaque but not calcified by coronary CTA, and the G-score predict ischemia. 2019 , 13, 305-314	13
514	Assessment of factors associated with measurability of fractional flow reserve derived from coronary computed tomography angiography in type 2 diabetic patients with intermediate coronary artery stenosis. 2019 , 35, 359-365	1
513	Functional Significance of Coronary Stenosis: Is it About the Real or Virtual Physiology?. 2019 , 12, 1498-1500	2
512	Artificial intelligence machine learning-based coronary CT fractional flow reserve (CT-FFR): Impact of iterative and filtered back projection reconstruction techniques. 2019 , 13, 331-335	13
511	Optimized interpretation of fractional flow reserve derived from computed tomography: Comparison of three interpretation methods. 2019 , 13, 134-141	12
510	Impact of residual coronary atherosclerosis on transfemoral transcatheter aortic valve replacement. 2019 , 93, 545-552	3
509	Noninvasive CT-based hemodynamic assessment of coronary lesions derived from fast computational analysis: a comparison against fractional flow reserve. 2019 , 29, 2117-2126	25
508	Stress Computed Tomography Perfusion Versus Fractional Flow Reserve CT Derived in Suspected Coronary Artery Disease: The PERFECTION Study. 2019 , 12, 1487-1497	44
507	Coronary CT angiography-derived plaque quantification with artificial intelligence CT fractional flow reserve for the identification of lesion-specific ischemia. 2019 , 29, 2378-2387	41
506	Planning percutaneous coronary interventions using computed tomography angiography and fractional flow reserve-derived from computed tomography: A state-of-the-art review. 2019 , 93, 298-304	2
505	Coronary CTA enhanced with CTA based FFR analysis provides higher diagnostic value than invasive coronary angiography in patients with intermediate coronary stenosis. 2019 , 13, 62-67	13
504	Correlation of FFR-derived from CT and stress perfusion CMR with invasive FFR in intermediate-grade coronary artery stenosis. 2019 , 35, 559-568	4
503	Corrected coronary opacification decrease from coronary computed tomography angiography: Validation with quantitative ¹³ N-ammonia positron emission tomography. 2019 , 26, 561-568	10
502	Identification of High-Risk Plaques Destined to Cause Acute Coronary Syndrome Using Coronary Computed Tomographic Angiography and Computational Fluid Dynamics. 2019 , 12, 1032-1043	84

501	Numerical Simulation of Instantaneous Wave-Free Ratio of Stenosed Coronary Artery. 2019 , 16, 1842009	4
500	Incremental Value of Subtended Myocardial Mass for Identifying FFR-Verified Ischemia Using Quantitative CT Angiography: Comparison With Quantitative Coronary Angiography and CT-FFR. 2019 , 12, 707-717	18
499	Effect of Wall Elasticity on Hemodynamics and Wall Shear Stress in Patient-Specific Simulations in the Coronary Arteries. 2020 , 142,	26
498	Moving beyond stenosis: Assessing ischemia based off plaque morphology and burden of disease on coronary CTA. 2020 , 14, 282-284	
497	Make Life Visible. 2020 ,	
496	Does coronary calcium score zero reliably rule out coronary artery disease in low-to-intermediate risk patients? A coronary CTA study. 2020 , 14, 155-161	12
495	The feasibility, findings and future of CT-FFR in the emergency ward. 2020 , 14, 287-288	3
494	Machine-Learning CT-FFR and Extensive Coronary Calcium: Overcoming the Achilles Heel of Coronary Computed Tomography Angiography. 2020 , 13, 771-773	4
493	Evaluation of epicardial coronary resistance using computed tomography angiography: A Proof Concept. 2020 , 14, 177-184	6
492	Prediction of Coronary Revascularization in Stable Angina: Comparison of FFR With CMR Stress Perfusion Imaging. 2020 , 13, 994-1004	16
491	FFR and CT perfusion: A review on the evaluation of functional impact of coronary artery stenosis by cardiac CT. 2020 , 300, 289-296	16
490	CT FFR for Ischemia-Specific CAD With a New Computational Fluid Dynamics Algorithm: A Chinese Multicenter Study. 2020 , 13, 980-990	29
489	Adjustment of CT-fractional flow reserve based on fluid-structure interaction underestimation to minimize 1-year cardiac events. 2020 , 35, 162-169	4
488	Clinical Use of CT-Derived Fractional Flow Reserve in the Emergency Department. 2020 , 13, 452-461	26
487	Influence of Coronary Calcium on Diagnostic Performance of Machine Learning CT-FFR: Results From MACHINE Registry. 2020 , 13, 760-770	44
486	Computed tomography angiography-derived fractional flow reserve (CT-FFR) for the detection of myocardial ischemia with invasive fractional flow reserve as reference: systematic review and meta-analysis. 2020 , 30, 712-725	21
485	Correlation of machine learning computed tomography-based fractional flow reserve with instantaneous wave free ratio to detect hemodynamically significant coronary stenosis. 2020 , 109, 735-745	7
484	On-site evaluation of CT-based fractional flow reserve using simple boundary conditions for computational fluid dynamics. 2020 , 36, 337-346	6

483	Technology and applications in interventional imaging: 2D X-ray radiography/fluoroscopy and 3D cone-beam CT. 2020 , 625-671	3
482	Cardiovascular Imaging Techniques to Assess Microvascular Dysfunction. 2020 , 13, 1577-1590	19
481	Fractional Flow Reserve Derived from Computed Tomography Coronary Angiography in the Assessment and Management of Stable Chest Pain: Rationale and Design of the FORECAST Trial. 2020 , 21, 890-896	7
480	Deep Learning Analysis of Coronary Arteries in Cardiac CT Angiography for Detection of Patients Requiring Invasive Coronary Angiography. 2020 , 39, 1545-1557	18
479	An Onsite CT-FFR Technique Based on TAG: A 1-Hit Wonder or Can We Expect More to Come?. 2020 , 13, 991-993	
478	Risk stratification of coronary plaques using physiologic characteristics by CCTA: Focus on shear stress. 2020 , 14, 386-393	5
477	Influence of operator expertise and coronary luminal segmentation technique on diagnostic performance, precision and reproducibility of reduced-order CT-derived fractional flow reserve technique. 2020 , 14, 356-362	2
476	Application of Non-invasive Imaging in Inflammatory Disease Conditions to Evaluate Subclinical Coronary Artery Disease. 2019 , 22, 1	5
475	"One-Stop Shop" For Evaluating Epicardial and Microvascular Coronary Artery Disease with Coronary CT Angiography and CT Myocardial Perfusion. 2020 , 294, 74-75	0
474	Data-driven reduction of cardiac models. 2020 , 117-160	
473	Bibliography. 2020 , 211-233	
472	Coronary artery to aortic luminal attenuation ratio in coronary CT angiography for the diagnosis of haemodynamically significant coronary artery stenosis. 2020 , 93, 20190003	2
471	Diagnostic Accuracy of Perfusional Computed Tomography in Moderate Coronary Stenosis: Comparison With Fractional Flow Reserve. 2020 , 19, 9-13	1
470	Machine learning-based CT fractional flow reserve assessment in acute chest pain: first experience. 2020 , 10, 820-830	9
469	Coronary flow impairment in asymptomatic patients with early stage type-2 diabetes: Detection by FFR. 2020 , 17, 1479164120958422	1
468	Noninvasive Imaging Risk Stratification with Computed Tomography Angiography for Coronary Artery Disease. 2020 , 38, 543-550	4
467	Ischemic Myocardial Burden Subtended by Computed Tomography-Derived Fractional Flow Reserve (APPROACH): An Exploratory Analysis on Diagnostic Performance. 2020 , 13, 2264-2267	1
466	CT Coronary Angiography Fractional Flow Reserve: New Advances in the Diagnosis and Treatment of Coronary Artery Disease. 2021 , 50, 925-936	1

465	The effect of the degree and location of coronary stenosis on the hemodynamic status of a coronary vessel. 2020 , 2020, 2671-2674	
464	Quantification of effects of mean blood pressure and left ventricular mass on noninvasive fast fractional flow reserve. 2020 , 319, H360-H369	3
463	Validation of the diagnostic performance of HeartMedi V.1.0: a novel CT-derived fractional flow reserve measurement, for patients with coronary artery disease: a study protocol. 2020 , 10, e037780	3
462	Pre-operative Diagnosis of Silent Coronary Ischaemia May Reduce Post-operative Death and Myocardial Infarction and Improve Survival of Patients Undergoing Lower Extremity Surgical Revascularisation. 2020 , 60, 411-420	1
461	Differences in coronary vasodilatory capacity and atherosclerosis in endurance athletes using coronary CTA and computational fluid dynamics (CFD): Comparison with a sedentary lifestyle. 2020 , 130, 109168	1
460	Sequential Strategy Including FFR Plus Stress-CTP Impacts on Management of Patients with Stable Chest Pain: The Stress-CTP RIPCORDER Study. 2020 , 9,	10
459	Optical imaging techniques for vulnerable plaque detection. 2020 , 2, e201900034	1
458	Exercise electrocardiography and computed tomography coronary angiography: use of combined functional and anatomical testing in stable angina pectoris. 2020 , 10, 2218-2222	1
457	Prognostic implication of CT-FFR based functional SYNTAX score in patients with de novo three-vessel disease. 2020 ,	4
456	Contemporary use of coronary computed tomography angiography in the planning of percutaneous coronary intervention. 2020 , 36, 2441-2459	4
455	Association Among Noncalcified Coronary Burden, Fractional Flow Reserve, and Myocardial Injury in Psoriasis. 2020 , 9, e017417	3
454	Association Between FFR and Instantaneous Wave-Free Ratio (iFR) of Intermediate Lesions on Coronary Computed Tomography Angiography. 2021 , 31, 57-60	
453	Implementing Coronary Computed Tomography Angiography in the Catheterization Laboratory. 2021 , 14, 1846-1855	7
452	The Incremental Role of Coronary Computed Tomography in Chronic Coronary Syndromes. 2020 , 9,	5
451	Cardiac CT. 2020 ,	
450	Coronary Computed Tomography Angiography Demonstrates a High Burden of Coronary Artery Disease Despite Low-Risk Nuclear Studies in Pre-Liver Transplant Evaluation. 2020 , 26, 1398-1408	5
449	Physiology and coronary artery disease: emerging insights from computed tomography imaging based computational modeling. 2020 , 36, 2319-2333	2
448	The Impact of Coronary Physiology on Contemporary Clinical Decision Making. 2020 , 13, 1617-1638	19

447	Updates on Fractional Flow Reserve Derived by CT (FFRCT). 2020 , 22, 1		
446	Coronary computed tomography angiography and [O]HO positron emission tomography perfusion imaging for the assessment of coronary artery disease. 2020 , 28, 57-65		0
445	Blood Pressure Sensors: Materials, Fabrication Methods, Performance Evaluations and Future Perspectives. 2020 , 20,		13
444	Functional cardiac CT-Going beyond Anatomical Evaluation of Coronary Artery Disease with Cine CT, CT-FFR, CT Perfusion and Machine Learning. 2020 , 93, 20200349		4
443	A zero-dimensional predictive model for the pressure drop in the stenotic coronary artery based on its geometric characteristics. 2020 , 113, 110076		3
442	Site vs. core laboratory variability in computed tomographic angiography-derived SYNTAX scores in the SYNTAX III trial. 2021 , 22, 1063-1071		0
441	CCTA in the diagnosis of coronary artery disease. 2020 , 125, 1102-1113		6
440	The effect of the stenosis location at a coronary arterial bifurcation: a parametric study. 2020 , 2020, 2804-2807		
439	Nichtobstruktive Myokardischämie in der CT. 2020 , 192, 823-825		
438	Coronary Computed Tomography Angiography From Clinical Uses to Emerging Technologies: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 1226-1243	15.1	31
437	The effect of on-site CT-derived fractional flow reserve on the management of decision making for patients with stable chest pain (TARGET trial): objective, rationale, and design. 2020 , 21, 728		0
436	Current Evidence and Recommendations for Coronary CTA First in Evaluation of Stable Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 1358-1362	15.1	14
435	Coronary Microvascular Dysfunction and the Role of Noninvasive Cardiovascular Imaging. 2020 , 10,		2
434	Advances in Cardiac Computed Tomography Functional Imaging Technology. 2020 , 145, 615-622		2
433	Review: FFRCT Changing the Face of Cardiac CT. 2020 , 13, 1		
432	Optical coherence tomography-based machine learning for predicting fractional flow reserve in intermediate coronary stenosis: a feasibility study. 2020 , 10, 20421		3
431	Diagnostic performance of virtual fractional flow reserve derived from routine coronary angiography using segmentation free reduced order (1-dimensional) flow modelling. 2020 , 9, 2048004020967578		0
430	Safety and feasibility evaluation of planning and execution of surgical revascularisation solely based on coronary CTA and FFR in patients with complex coronary artery disease: study protocol of the FASTTRACK CABG study. 2020 , 10, e038152		4

429	Dual-energy CT and coronary imaging. 2020 , 10, 1090-1107	4
428	Machine Learning CT FFR: The Evolving Role of On-Site Techniques. 2020 , 2, e200228	
427	Value of Machine Learning-based Coronary CT Fractional Flow Reserve Applied to Triple-Rule-Out CT Angiography in Acute Chest Pain. 2020 , 2, e190137	5
426	Clinical Implications of Machine Learning, Artificial Intelligence, and Radiomics in Cardiac Imaging. 2020 , 22, 1	0
425	Computed tomographic myocardial mass compared with invasive myocardial perfusion measurement. 2020 , 106, 1489-1494	7
424	A tale of two technologies: Can nuclear cardiology survive the emergence of cardiac CT the seventeenth annual Mario S. Verani lectureship. 2020 , 27, 865-890	
423	Impact of machine learning-based coronary computed tomography angiography fractional flow reserve on treatment decisions and clinical outcomes in patients with suspected coronary artery disease. 2020 , 30, 5841-5851	9
422	Contrast Fractional Flow Reserve (cFFR) and Computed Tomography Fractional Flow Reserve (CT-FFR) Guidance for Percutaneous Coronary Intervention (PCI). 2020 , 13, 1	1
421	Opportunities and challenges of implementing computed tomography fractional flow reserve into clinical practice. 2020 , 106, 1387-1393	4
420	[Is FFR a game changer in coronary CT angiography?]. 2020 , 45, 431-440	2
419	Outcomes of anatomical vs. functional testing for coronary artery disease : Lessons from the major trials. 2020 , 45, 421-430	0
418	Coronary Physiology: Simulations Can't Beat the Real Thing!. 2020 , 13, 1986-1988	0
417	Cardiac Imaging Physiologic Assessment of Coronary Artery Lesion. 2020 , 5, 65-75	
416	Green Computing Process and its Optimization Using Machine Learning Algorithm in Healthcare Sector. 2020 , 25, 1307-1318	2
415	Novel diagnostic and imaging techniques in endovascular iliac artery procedures. 2020 , 18, 395-404	
414	Anatomic or functional testing in stable patients with suspected CAD: contemporary role of cardiac CT in the ISCHEMIA trial era. 2020 , 36, 1351-1362	2
413	Ability of FFR-CT to detect the absence of hemodynamically significant lesions in patients with high-risk NSTEMI-ACS admitted in the emergency department with chest pain, study design and rationale. 2020 , 27, 100496	1
412	Impact of hydrostatic pressure on fractional flow reserve: in vivo experimental study of anatomical height difference of coronary arteries. 2020 , 76, 73-79	5

411	Smart Jamming Attacks in 5G New Radio: A Review. 2020 ,	11
410	Effect of side branch flow upon physiological indices in coronary artery disease. 2020 , 103, 109698	7
409	Additional Value of Machine-Learning Computed Tomographic Angiography-Based Fractional Flow Reserve Compared to Standard Computed Tomographic Angiography. 2020 , 9,	3
408	VetLink: A Livestock Disease-Management System. 2020 , 39, 28-34	2
407	Physics driven real-time blood flow simulations. 2020 , 364, 112963	4
406	Highly Efficient High-Brightness 970-nm Ridge Waveguide Lasers. 2020 , 32, 406-409	2
405	Applications of artificial intelligence in multimodality cardiovascular imaging: A state-of-the-art review. 2020 , 63, 367-376	20
404	Pressure-flow curve derived from coronary CT angiography for detection of significant hemodynamic stenosis. 2020 , 30, 4347-4355	1
403	Comparison of Machine Learning Computed Tomography-Based Fractional Flow Reserve and Coronary CT Angiography-Derived Plaque Characteristics with Invasive Resting Full-Cycle Ratio. 2020 , 9,	2
402	Impact of machine-learning CT-derived fractional flow reserve for the diagnosis and management of coronary artery disease in the randomized CRESCENT trials. 2020 , 30, 3692-3701	7
401	The effect of hemodynamic parameters in patient-based coronary artery models with serial stenoses: normal and hypertension cases. 2020 , 23, 467-475	7
400	Angiography-Derived Fractional Flow Reserve: More or Less Physiology?. 2020 , 9, e015586	16
399	Diagnostic performance of deep learning-based vascular extraction and stenosis detection technique for coronary artery disease. 2020 , 93, 20191028	10
398	The Digital Twin To enable the vision of precision cardiology. 2020 , 41, 4556-4564	136
397	Determining the Significance of Coronary Plaque Lesions: Physiological Stenosis Severity and Plaque Characteristics. 2020 , 9,	2
396	The impact of iterative reconstruction algorithms on machine learning-based coronary CT angiography-derived fractional flow reserve (CT-FFR) values. 2020 , 36, 1177-1185	2
395	Artificial Intelligence (AI) and Cardiovascular Diseases: An Unexpected Alliance. 2020 , 2020, 4972346	17
394	Coronary computed tomography angiography derived flow fractional reserve: the state of the art. 2020 , 3, 84-93	

393	From CT to artificial intelligence for complex assessment of plaque-associated risk. 2020 , 36, 2403-2427	9
392	Multi-Modality Imaging in Dilated Cardiomyopathy: With a Focus on the Role of Cardiac Magnetic Resonance. 2020 , 7, 97	7
391	Ischemia and Viability Testing in New-Onset Heart Failure. 2020 , 22, 76	1
390	An Automated Workflow for Hemodynamic Computations in Cerebral Aneurysms. 2020 , 2020, 5954617	1
389	Novel method for assessing myocardium at risk: a new arrow in the diagnostic quiver of coronary CT. 2020 , 106, 1458-1460	1
388	CT-Derived Fractional Flow Reserve (CT-FFR) in the Evaluation of Coronary Artery Disease. 2020 , 29, 1621-1632	3
387	Full Issue PDF. 2020 , 13, I-CXCI	78
386	A Survey on Access Control in the Age of Internet of Things. 2020 , 7, 4682-4696	120
385	. 2020 , 30, 1-5	10
384	Fractional Flow Reserve Derived from Coronary Computed Tomography Angiography Safely Defers Invasive Coronary Angiography in Patients with Stable Coronary Artery Disease. 2020 , 9,	12
383	A Simple Design of IRS-NOMA Transmission. 2020 , 24, 1119-1123	158
382	Ischemic Heart Disease: An Update. 2020 , 50, 195-207	11
381	High-Rejection RF Code Domain Receivers for Simultaneous Transmit and Receive Applications. 2020 , 55, 1909-1921	7
380	CT-Derived Fractional Flow Reserve (FFR): From Gatekeeping to Roadmapping. 2020 , 71, 201-207	4
379	Multiple Delay Estimation for Collision Resolution in Non-Orthogonal Random Access. 2020 , 69, 497-508	10
378	. 2020 , 68, 4406-4416	10
377	Modeling and Inverse Complex Generalized Synchronization and Parameter Identification of Non-Identical Nonlinear Complex Systems Using Adaptive Integral Sliding Mode Control. 2020 , 8, 38950-38969 ³	
376	Diagnostic performance of a vessel-length-based method to compute the instantaneous wave-free ratio in coronary arteries. 2020 , 10, 1132	1

375	Evaluation of Significant Coronary Artery Disease Based on CT Fractional Flow Reserve and Plaque Characteristics Using Random Forest Analysis in Machine Learning. 2020 , 27, 1700-1708	5
374	Physiological Assessment of Coronary Lesions in 2020. 2020 , 22, 2	7
373	Fractional Flow Reserve Derived from CT: The State of Play in 2020. 2020 , 2, e190153	
372	The influence of image quality on diagnostic performance of a machine learning-based fractional flow reserve derived from coronary CT angiography. 2020 , 30, 2525-2534	11
371	Deriving Function From Structure: Applying Hagen-Poiseuille to Coronary Arteries. 2020 , 13, 498-501	1
370	Design, Fabrication, and Testing of a YBCO Racetrack Coil for an HTS Synchronous Motor With HTS Flux Pump. 2020 , 30, 1-5	16
369	Multistage Collaborative Machine Learning and its Application to Antenna Modeling and Optimization. 2020 , 68, 3397-3409	25
368	On-site assessment of computed tomography-derived fractional flow reserve in comparison with myocardial perfusion imaging and invasive fractional flow reserve. 2020 , 35, 1331-1340	5
367	Evaluating the Diagnostic Performance of Noninvasive Testing and the Perils of Inclusion Bias. 2020 , 13, 656-657	
366	Assessment of coronary flow reserve in nuclear cardiology. 2020 , 44, 172-180	1
365	3-D-Printed Transmit-Array Antenna for Broadband Backhaul 5G Links at V-Band. 2020 , 1-1	4
364	Future Directions in Coronary CT Angiography: CT-Fractional Flow Reserve, Plaque Vulnerability, and Quantitative Plaque Assessment. 2020 , 50, 185-202	5
363	Area Efficient High-Performance Digitally Controlled Power Management Unit. 2021 , 68, 2437-2446	
362	Diagnostic value of comprehensive on-site and off-site coronary CT angiography for identifying hemodynamically obstructive coronary artery disease. 2021 , 15, 37-45	3
361	[Coronary physiology in the catheter laboratory]. 2021 , 46, 15-23	1
360	Can Computed Fractional Flow Reserve Coronary CT Angiography (FFRCT) Offer an Accurate Noninvasive Comparison to Invasive Coronary Angiography (ICA)? "The Noninvasive CATH." A Comprehensive Review. 2021 , 46, 100642	1
359	Diagnosis and management of silent coronary ischemia in patients undergoing carotid endarterectomy. 2021 , 73, 533-541	1
358	New transluminal attenuation gradient derived from dynamic coronary CT angiography: diagnostic ability of ischemia detected by N-ammonia PET. 2021 , 36, 433-441	4

357	Importance of measurement site on assessment of lesion-specific ischemia and diagnostic performance by coronary computed tomography Angiography-Derived Fractional Flow Reserve. 2021 , 15, 114-120	6
356	Comparison of automated beam hardening correction (ABHC) algorithms for myocardial perfusion imaging using computed tomography. 2021 , 48, 287-299	1
355	Impaired Coronary Blood Flow in Patients with Psoriasis: Findings from an Observational Cohort Study. 2021 , 141, 913-916	0
354	Multimodality cardiac imaging in the 21st century: evolution, advances and future opportunities for innovation. 2021 , 94, 20200780	2
353	Feasibility and Validity of Computed Tomography-Derived Fractional Flow Reserve in Patients With Severe Aortic Stenosis: The CAST-FFR Study. 2021 , 14, e009586	11
352	Fractional flow reserve derived from coronary computed tomography: where are we now and where are we heading?. 2021 , 17, 723-741	
351	Myocardial Perfusion Simulation for Coronary Artery Disease: A Coupled Patient-Specific Multiscale Model. 2021 , 49, 1432-1447	6
350	The clinical utility of FFR stratified by age. 2021 , 15, 121-128	2
349	Determination of the Optimal Measurement Point for Fractional Flow Reserve Derived From CTA Using Pressure Wire Assessment as Reference. 2021 , 216, 1492-1499	6
348	The effect of coronary calcification on diagnostic performance of machine learning-based CT-FFR: a Chinese multicenter study. 2021 , 31, 1482-1493	8
347	Non-invasive procedural planning using computed tomography-derived fractional flow reserve. 2021 , 97, 614-622	9
346	Detecting unstable plaques in humans using cardiac CT: Can it guide treatments?. 2021 , 178, 2204-2217	0
345	Hemodynamic disturbance due to serial stenosis in human coronary bifurcations: a computational fluid dynamics study. 2021 , 225-250	
344	Application of Artificial Intelligence to Cardiovascular Computed Tomography. 2021 , 22, 1597-1608	1
343	Prospective comparison of integrated on-site CT-fractional flow reserve and static CT perfusion with coronary CT angiography for detection of flow-limiting coronary stenosis. 2021 , 31, 5096-5105	5
342	Current Progress of Studies of Coronary CT for Risk Prediction of Major Adverse Cardiovascular Event (MACE). 2021 , 29, 301-315	1
341	Diagnosis and Risk Stratification in Acute Coronary Syndromes. 2021 , 465-491	
340	Coronary artery lumen volume index as a marker of flow-limiting atherosclerosis-validation against N-ammonia positron emission tomography. 2021 , 31, 5116-5126	0

339	Additional value of deep learning computed tomographic angiography-based fractional flow reserve in detecting coronary stenosis and predicting outcomes. 2021 , 284185120983977	4
338	Contemporary advances in medical imaging. 2021 , 149-176	
337	The new role of diagnostic angiography in coronary physiological assessment. 2021 , 107, 783-789	5
336	CT Assessment of Myocardial Perfusion and Fractional Flow Reserve in Coronary Artery Disease: A Review of Current Clinical Evidence and Recent Developments. 2021 , 22, 1749-1763	0
335	Noninvasive Assessment of the Fractional Flow Reserve with the CT FFRc 1D Method: Final Results of a Pilot Study. 2021 , 16, 1	3
334	Hemodynamic Modeling of Biological Aortic Valve Replacement Using Preoperative Data Only. 2020 , 7, 593709	1
333	On the relevance of boundary conditions and viscosity models in blood flow simulations in patient-specific aorto-coronary bypass models. 2021 , 37, e3439	3
332	Non-Invasive Prediction of Site-Specific Coronary Atherosclerotic Plaque Progression using Lipidomics, Blood Flow, and LDL Transport Modeling. 2021 , 11, 1976	4
331	Added value of computed tomography fractional flow reserve in the diagnosis of coronary artery disease. 2021 , 11, 6748	1
330	FFR: Current Status. 2021 , 216, 640-648	7
329	From anatomy to function and then back to anatomy: invasive assessment of myocardial ischemia in the catheterization laboratory based on anatomy-derived indices of coronary physiology. 2021 , 69, 626-640	1
328	The impact of hemodynamic factors in a coronary main artery to detect the atherosclerotic severity: Single and multiple sequential stenosis cases. 2021 , 33, 031903	5
327	Rationale and design of the precise percutaneous coronary intervention plan (P3) study: Prospective evaluation of a virtual computed tomography-based percutaneous intervention planner. 2021 , 44, 446-454	3
326	NHS England-funded CT fractional flow reserve in the era of the ISCHEMIA trial. 2021 , 21, 90-95	1
325	Clinical Relevance of Coronary Computed Tomography Angiography Beyond Coronary Artery Stenosis. 2021 , 193, 1162-1170	0
324	Impact of respiratory motion artifact on coronary image quality of one beat coronary CT angiography. 2021 , 29, 287-296	0
323	Application of physics-based flow models in cardiovascular medicine: Current practices and challenges. 2021 , 2, 011302	2
322	Cardiovascular risk stratification by coronary computed tomography angiography imaging: current state-of-the-art. 2021 ,	1

3 ²¹	Expanding the role of fractional flow reserve derived from computed tomography (FFR) for the non-invasive imaging of patients with coronary stents: rise of the machines?. 2021 , 31, 6589-6591	0
3 ²⁰	Impact of coronary calcium score and lesion characteristics on the diagnostic performance of machine-learning-based computed tomography-derived fractional flow reserve. 2021 , 22, 998-1006	4
3 ¹⁹	Prevention of Coronary Artery Disease-Related Heart Failure: The Role of Computed Tomography Scan. 2021 , 17, 187-194	
3 ¹⁸	Ethnic differences in coronary anatomy, left ventricular mass and CT-derived fractional flow reserve. 2021 , 15, 249-257	0
3 ¹⁷	Computed Tomography-Derived Fractional Flow Reserve in Patients With Chronic Coronary Syndrome: A Real-World Cohort Study. 2021 , 45, 408-414	0
3 ¹⁶	Non-invasive fractional flow reserve (FFR) in the evaluation of acute chest pain - Concepts and first experiences. 2021 , 138, 109633	3
3 ¹⁵	TCT Connect 2020 Trial Update: FORECAST, COMBINE OCT-FFR and DEFINE-PCI. 2021 , 16, e22	
3 ¹⁴	Prevalence of pathological FFR values without coronary artery stenosis in an asymptomatic marathon runner cohort. 2021 , 31, 8975-8982	0
3 ¹³	Expanding the coronary tree reconstruction to smaller arteries improves the accuracy of FFR. 2021 , 31, 8967-8974	
3 ¹²	CT-FFR vs a model of combined plaque characteristics for identifying ischemia: Results from CT-FFR CHINA trial. 2021 , 138, 109634	3
3 ¹¹	Role of FFR-CT for the Evaluation of Patients With Anomalous Aortic Origin of Coronary Artery. 2021 , 14, 1074-1076	1
3 ¹⁰	Non-invasive MRI Derived Hemodynamic Simulation to Predict Successful vs. Unsuccessful Catheter Interventions for Branch Pulmonary Artery Stenosis: Proof-of-Concept and Experimental Validation in Swine. 2021 , 12, 494-504	1
3 ⁰⁹	Coronary Computer Tomography Angiography in 2021-Acquisition Protocols, Tips and Tricks and Heading beyond the Possible. 2021 , 11,	6
3 ⁰⁸	One-Stop Shop for Non-Invasive Cardiovascular Imagers?. 2021 , 116, 1099-1100	
3 ⁰⁷	Value of semiquantitative assessment of high-risk plaque features on coronary CT angiography over stenosis in selection of studies for FFRct. 2021 ,	0
3 ⁰⁶	Diagnostic Performance of a Machine Learning-Based CT-Derived FFR in Detecting Flow-Limiting Stenosis. 2021 , 116, 1091-1098	2
3 ⁰⁵	Contemporary Management of Stable Coronary Artery Disease - Implications of the ISCHEMIA Trial. 2021 , 85, 1919-1927	0
3 ⁰⁴	Risk predicting for acute coronary syndrome based on machine learning model with kinetic plaque features from serial coronary computed tomography angiography. 2021 ,	0

303	Physiologic Assessment of Coronary Stenosis: Current Status and Future Directions. 2021 , 23, 88	2
302	Prognostic value of regional myocardial flow reserve derived from N-ammonia positron emission tomography in patients with suspected coronary artery disease. 2021 , 1	0
301	Functional assessment of coronary plaques using CT based hemodynamic simulations: Current status, technical principles and clinical value. 2021 , 13, 37-48	
300	Multimodality imaging for the prevention of cardiovascular events: Coronary artery calcium and beyond. 2021 , 11, 840-858	1
299	Machine learning-based advances in coronary computed tomography angiography. 2021 , 11, 2208-2213	1
298	Influence of coronary stenosis location on diagnostic performance of machine learning-based fractional flow reserve from CT angiography. 2021 , 15, 492-498	0
297	Clinical application of computed tomography angiography and fractional flow reserve computed tomography in patients with coronary artery disease: A meta-analysis based on pre- and post-test probability. 2021 , 139, 109712	0
296	Diagnostic performance of computed tomography-based fraction flow reserve in identifying myocardial ischemia caused by coronary artery stenosis: A meta-analysis. 2021 ,	
295	Design and rationale of randomized CT-PRECISION study. 2021 , 11, 760-767	0
294	SIRM-SIC appropriateness criteria for the use of Cardiac Computed Tomography. Part 1: Congenital heart diseases, primary prevention, risk assessment before surgery, suspected CAD in symptomatic patients, plaque and epicardial adipose tissue characterization, and functional assessment of stenosis. 2021 , 126, 1236-1248	7
293	Agreement Between Invasive Wire-Based and Angiography-Based Vessel Fractional Flow Reserve Assessment on Intermediate Coronary Stenoses. 2021 , 8, 707454	0
292	Fractional flow reserve derived from computed tomography coronary angiography in the assessment and management of stable chest pain: the FORECAST randomized trial. 2021 , 42, 3844-3852	12
291	The diagnostic performance of on-site workstation-based computed tomography-derived fractional flow reserve. Comparison with myocardium perfusion imaging. 2021 , 1	0
290	Understanding the predictive value and methods of risk assessment based on coronary computed tomographic angiography in populations with coronary artery disease: a review. 2021 , 4, 192-203	
289	SmartFFR, a New Functional Index of Coronary Stenosis: Comparison With Invasive FFR Data. 2021 , 8, 714471	2
288	Coronary CT angiography derived FFR in patients with left main disease. 2021 , 37, 3299-3308	0
287	Research on the Method of Predicting Fractional Flow Reserve Based on Multiple Independent Risk Factors. 2021 , 12, 716877	1
286	Diagnostic accuracy of coronary computed tomography angiography-derived fractional flow reserve. 2021 , 20, 77	2

285	Comparison of diagnostic performance in on-site based CT-derived fractional flow reserve measurements. 2021 , 35, 100815	2
284	Fractional Flow Reserve Derived from Computer Tomography in Asymptomatic Patients with Type 2 Diabetes and Albuminuria without Significant Coronary Artery Stenosis: A Surrogate for Coronary Microvascular Dysfunction?. 2021 , 2, 369-378	
283	Managing Ischemic Heart Disease in Women: Role of a Women's Heart Center. 2021 , 23, 56	2
282	Computed Tomography Coronary Angiography and Computational Fluid Dynamics Based Fractional Flow Reserve Before and After Percutaneous Coronary Intervention. 2021 , 9, 739667	2
281	Successful coronary artery bypass grafting based solely on non-invasive coronary computed tomography angiography. 2021 ,	0
280	Diagnostic performance of CT-derived resting distal to aortic pressure ratio (resting Pd/Pa) CT-derived fractional flow reserve (CT-FFR) in coronary lesion severity assessment. 2021 , 9, 1390	1
279	Relationship of Endothelial Shear Stress with Plaque Features with Coronary CT Angiography and Vasodilating Capability with PET. 2021 , 300, 549-556	0
278	Coronary flow quantification estimated by dynamic 320-detector CT angiography: validation by Nitrogen PET myocardial flow reserve. 2021 , 94, 20201415	0
277	Computational Fluid Dynamics in Cardiovascular Imaging. 2021 , 3, 153-168	
276	One-step anatomic and function testing by cardiac CT versus second-line functional testing in symptomatic patients with coronary artery stenosis: head-to-head comparison of CT-derived fractional flow reserve and myocardial perfusion imaging. 2021 , 17, 576-583	2
275	CT-derived fractional flow reserve (FFR _{CT}) for functional coronary artery evaluation in the follow-up of patients after heart transplantation. 2021 , 1	0
274	[Artificial Intelligence and teleradiology in cardiovascular imaging by CT-Scan and MRI]. 2021 , 70, 339-347	0
273	Artificial Intelligence Based Multimodality Imaging: A New Frontier in Coronary Artery Disease Management. 2021 , 8, 736223	3
272	Trans-lesional fractional flow reserve gradient as derived from coronary CT improves patient management: ADVANCE registry. 2021 ,	1
271	Incremental Diagnostic Value of CT Fractional Flow Reserve Using Subtraction Method in Patients with Severe Calcification: A Pilot Study. 2021 , 10,	0
270	Closed-loop geometric multi-scale heart-coronary artery model for the numerical calculation of fractional flow reserve. 2021 , 208, 106266	1
269	A prospective multicenter validation study for a novel angiography-derived physiological assessment software: Rationale and design of the radiographic imaging validation and evaluation for Angio-iFR (ReVEAL iFR) study. 2021 , 239, 19-26	0
268	Comparison of Diagnostic Performance of Fractional Flow Reserve Derived from Coronary Computed Tomographic Angiography Versus Single-Photon Emission Computed Tomographic Myocardial Perfusion Imaging. 2021 , 159, 36-43	

267	Diagnosis of silent coronary ischemia with selective coronary revascularization might improve 2-year survival of patients with critical limb-threatening ischemia. 2021 , 74, 1261-1271	0
266	Coronary Computed Tomography Angiography Assessment of High-Risk Plaques in Predicting Acute Coronary Syndrome. 2021 , 8, 743538	0
265	Fractional flow reserve for coronary stenosis assessment derived from fusion of intravascular ultrasound and X-ray angiography. 2021 , 11, 4543-4555	2
264	Near-infrared II emissive metal clusters: From atom physics to biomedicine. 2021 , 448, 214184	8
263	Cardiac Computed Tomography. 2022 , 131-174	
262	Physiologic Assessment after Coronary Stent Implantation. 2021 , 51, 189-201	6
261	Imaging for the Assessment and Management of Cardiovascular Disease in Women and Minority Populations. 2021 , 217-232	
260	Coronary CT angiography-derived fractional flow reserve in-stable angina: association with recurrent chest pain. 2021 ,	
259	Coronary Artery Plaque Characterization from CCTA Scans Using Deep Learning and Radiomics. 2019 , 593-601	4
258	Specific Cardiovascular Diseases and Competitive Sports Participation: Coronary Anomalies and Myocardial Bridging at Risk of Sudden Death. 2020 , 403-421	2
257	Multiscale Modelling of Cardiac Perfusion. 2015 , 51-96	6
256	Myocardial Perfusion and Fractional Flow Reserve. 2014 , 303-326	1
255	Computed tomographic evaluation of myocardial ischemia. 2020 , 38, 411-433	9
254	ACR Appropriateness Criteria [®] Chest Pain-Possible Acute Coronary Syndrome. 2020 , 17, S55-S69	9
253	Noninvasive Quantitative Plaque Analysis Identifies Hemodynamically Significant Coronary Arteries Disease. 2021 , 36, 102-107	3
252	Coronary Computed Tomography Angiography in the Clinical Workflow of Athletes With Anomalous Origin of Coronary Arteries From the Contralateral Valsalva Sinus. 2021 , 36, 122-130	1
251	Computed Tomography Coronary Plaque Characteristics Predict Ischemia Detected by Invasive Fractional Flow Reserve. 2021 , 36, 360-366	2
250	Diagnostic accuracy of a deep learning approach to calculate FFR from coronary CT angiography. 2019 , 16, 42-48	15

249	Diagnostic Performance of First-Pass Myocardial Perfusion Imaging without Stress with Computed Tomography (CT) Compared with Coronary CT Angiography Alone, with Fractional Flow Reserve as the Reference Standard. 2016 , 11, e0149170	10
248	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. 2016 , 11, e0153070	38
247	Imaging to Stratify Coronary Artery Disease Risk in Asymptomatic Patients with Diabetes. 2018 , 14, 266-272	5
246	CT Determination of Fractional Flow Reserve in Coronary Lesions. 2016 , 1, 237-241	3
245	Latest Advances in Cardiac CT. 2020 , 15, 1-7	4
244	Fractional Flow Reserve Derived from Coronary Imaging and Computational Fluid Dynamics. 2014 , 9, 145-150	7
243	Fractional Flow Reserve Measurement by Computed Tomography: An Alternative to the Stress Test. 2016 , 11, 105-109	5
242	Noninvasive assessment of the fractional reserve of coronary blood flow with a one-dimensional mathematical model. Preliminary results of the pilot study. 2019 , 24, 60-68	6
241	Trends and Perspectives of Stress Myocardial Perfusion Imaging in Japan. 2017 , 3, 186-189	2
240	Coronary CTA is the Best Approach to Detect Coronary Artery Disease. 2017 , 3, 137-142	1
239	. 2018 , 58, 85-92	3
238	Cardiac computed tomography radiomics: an emerging tool for the non-invasive assessment of coronary atherosclerosis. 2020 , 10, 2005-2017	9
237	Cardiac CT perfusion and FFR: pathophysiological features in ischemic heart disease. 2020 , 10, 1954-1978	3
236	Technical development in cardiac CT: current standards and future improvements-a narrative review. 2020 , 10, 2018-2035	4
235	Role of Coronary CT Angiography in Coronary Revascularization. 2018 , 2, 1	1
234	NON-INVASIVE FFR DERIVED FROM STANDARD ACQUIRED CORONARY COMPUTED TOMOGRAPHY ANGIOGRAPHY (CTA) DATASETS (FFRCT) FOR THE DIAGNOSIS OF MYOCARDIAL ISCHEMIA IN PATIENTS WITH CORONARY ARTERY DISEASE (CAD): FIRST DATA OF CLINICAL USE. COMPARISON WITH INVASIVE MEASUREMENT. 2018 , 47-55	5
233	Evaluation of Myocardial Ischemia Using Coronary Computed Tomography Angiography in Patients with Stable Angina. 2020 , 81, 250	1
232	Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve in Patients with Anomalous Origin of the Right Coronary Artery from the Left Coronary Sinus. 2020 , 21, 192-202	4

231	Diagnostic Accuracy of a Novel On-site Virtual Fractional Flow Reserve Parallel Computing System. 2020 , 61, 137-144	1
230	CT angiography in the diagnosis of cardiovascular disease: a transformation in cardiovascular CT practice. 2014 , 4, 376-96	26
229	Myocardial Perfusion Imaging: A Brief Review of Nuclear and Nonnuclear Techniques and Comparative Evaluation of Recent Advances. 2019 , 34, 263-270	5
228	Perivascular Fat Attenuation Index on Non-Contrast-Enhanced Cardiac Computed Tomography: Comparison with Coronary Computed Tomography Angiography. 2020 , 10, 138-148	1
227	Quantitative myocardial blush grade reserve during pharmacologic hyperaemia: a way to perform a real wireless fractional flow reserve measurement in patients with coronary artery disease and intermediate coronary lesions. 2017 , 12, e2219-e2227	2
226	Quantitative angiography methods for bifurcation lesions: a consensus statement update from the European Bifurcation Club. 2017 , 13, 115-123	26
225	Diagnostic performance of a Lattice Boltzmann-based method for CT-based fractional flow reserve. 2018 , 13, 1696-1704	9
224	State of the art: non-invasive imaging in ischaemic heart disease. 2017 , 13, 654-665	4
223	Non-invasive treatment planning of tandem coronary artery lesions using an interactive planner for PCI. 2018 , 14, 924-925	4
222	Lumen boundaries extracted from coronary computed tomography angiography on computed fractional flow reserve (FFRCT): validation with optical coherence tomography. 2019 , 14, e1609-e1618	6
221	Assessment of lesion functional significance with virtual FFR - are we going with the flow?. 2014 , 10, 535-8	3
220	Image-based assessment of fractional flow reserve. 2015 , 11 Suppl V, V50-4	13
219	Fast virtual functional assessment of intermediate coronary lesions using routine angiographic data and blood flow simulation in humans: comparison with pressure wire - fractional flow reserve. 2014 , 10, 574-83	102
218	Additive diagnostic value of atherosclerotic plaque characteristics to non-invasive FFR for identification of lesions causing ischaemia: results from a prospective international multicentre trial. 2016 , 12, 473-81	19
217	2018 ESC/EACTS Guidelines on myocardial revascularization. 2019 , 14, 1435-1534	180
216	Coronary computed tomography angiography for diagnosis of coronary artery disease. 2016 , 22, 106-110	1
215	Diagnostic performance of AccuFFRangio in the functional assessment of coronary stenosis compared with pressure wire-derived fractional flow reserve.. 2022 , 12, 949-958	1
214	Virtual (Computed) Fractional Flow Reserve: Future Role in Acute Coronary Syndromes. 2021 , 8, 735008	0

- 213 CT-based fractional flow reserve: development and expanded application. **2021**, 2021, e202120 0
- 212 Diagnostic Performance of Angiography-Based Fractional Flow Reserve for Functional Evaluation of Coronary Artery Stenosis. **2021**, 8, 714077 0
- 211 The importance of three dimensional coronary artery reconstruction accuracy when computing virtual fractional flow reserve from invasive angiography. **2021**, 11, 19694 1
- 210 Prognostic Value of Computed Tomography-Derived Fractional Flow Reserve Comparison With Myocardial Perfusion Imaging. **2021**, 15, 284-284 2
- 209 Plaque Evaluation by Coronary CT Angiography. **2014**, 20, 273-281
- 208 Combining CT Coronary Angiography and Myocardial Flow Reserve: Is It the Future?. **2015**, 207-224
- 207 CT Imaging of Ischemic Heart Disease. **2016**, 341-359
- 206 Coronary CT Angiography: Native Vessels. **2016**, 157-178
- 205 Non-Invasive Fractional Flow Reserve Estimation with Coronary Computed Tomography Angiography. **2016**, 2, 1
- 204 PLATFORM at 90 days: Evaluating the clinical utility of FFRCT. **2016**, 2016, e201622
- 203 The Expanding Role of Computed Tomography Angiography in the Evaluation of Atherosclerotic Coronary Artery Disease. **2017**, 77, 353
- 202 Assessment of Native Coronary Artery Disease. **2018**, 69-100
- 201 Functional Significance of Coronary Stenoses Identified by CT. **2018**, 165-175
- 200 Historical Perspective. **2018**, 1-12
- 199 Introduction. **2018**, 1-4
- 198 OBSOLETE: Imaging: CT Scanning of the Heart and Great Vessels. **2018**,
- 197 Cardiovascular Multimodality Imaging: It is Time to Get on Board! A "Societ Italiana di Ecocardiografia e CardioVascular Imaging" Statement. **2018**, 28, 1-8 2
- 196 Development of noninvasive ischemia evaluation. **2018**, 24, 94-99

195	Imaging: CT Scanning of the Heart and Great Vessels. 2018 , 12-34		
194	FFR-CT for the Selection of a Patient and Vessel for Revascularization: A Case Report. 2018 , 2, 51-53		
193	Cardiac Imaging. 2019 , 49-74		
192	Simplified Bernoulli Formula to Diagnose Ischemia-Causing Stenosis at Coronary CT Angiography: Comparison with SPECT. 2019 , 08, 11-23		1
191	CT and MRI Cardiovascular Hemodynamics. 2019 , 183-204		
190	In Reply. 2019 , 116, 460-461		1
189	CT FFR A paradigm shift in evaluation of coronary artery disease. 2019 , 29, 233-235		0
188	Pressure Recovery in the Left Main Stenosis. 2019 , 9, 39		0
187	Detailed CAD Phenotyping by Angiography, Dynamic Perfusion and Scar Imaging Sharpens CT Prognostic Power. 2020 , 13, 1735-1738		
186	2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: Executive Summary: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. 2021 , 144, e368-e454		16
185	2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. 2021 , 144, e368-e454		30
184	2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. <i>Journal of the American College of Cardiology</i> , 2021 , 78, e187-e285	15.1	28
183	2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: Executive Summary: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. <i>Journal of the American College of Cardiology</i> , 2021 , 78, 2218-2261	15.1	2
182	Effect of plaque compositions on fractional flow reserve in a fluid-structure interaction analysis. 2021 , 1		0
181	Verification of Coronary Computed Tomography-Derived Fractional Flow Reserve Measurement Site for Detection of Significant Coronary Artery Disease.. 2021 , 3, 716-723		0
180	A phantom and in vivo simulation of coronary flow to calculate fractional flow reserve using a mesh-free model. 2021 , 1		1
179	Alternative methods for functional assessment of intermediate coronary lesions. 2020 , 27, 825-835		1
178	Epidemiology and pathophysiologic insights of coronary atherosclerosis relevant for contemporary non-invasive imaging. 2020 , 10, 1906-1917		2

- 177 The usefulness of cardiac CT integrated with FFRCT for planning myocardial revascularization in complex coronary artery disease: a lesson from SYNTAX studies. **2020**, 10, 2036-2047
- 176 The use of lesion-specific calcium morphology to guide the appropriate use of dynamic CT myocardial perfusion imaging and CT fractional flow reserve.. **2022**, 12, 1257-1269 0
- 175 Coronary Heart Disease Diagnosis by FFRCT: Engineering Triumphs and Value Chain Analysis. **2020**, 249-260
- 174 Borderline Lesion Evaluation: CT-FFR. **2020**, 39-43
- 173 Cardiac Computed Tomography for Comprehensive Coronary Assessment: Beyond Diagnosis of Anatomic Stenosis. **2020**, 16, 77-85 1
- 172 Functional Evaluation of Coronary Stenosis and Ischemic Myocardium with Fractional Flow Reserve Derived from Computed Tomography. **2020**, 79, 113-117
- 171 Diagnostic Performance of Fractional Flow Reserve From CT Coronary Angiography With Analytical Method. **2021**, 8, 739633 0
- 170 Prognostic value of coronary computed tomography angiographic derived fractional flow reserve: a systematic review and meta-analysis. **2021**, 3
- 169 Influence of reconstruction kernels on the accuracy of CT-derived fractional flow reserve. **2021**, 1 1
- 168 Effect of Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve on Physicians' Clinical Behavior - Differences Between Sites With and Without Appropriate Use Criteria as Designated by the Japanese Reimbursement System. **2020**, 2, 364-371
- 167 Cardiac CT: atherosclerosis to acute coronary syndrome. **2014**, 4, 430-48 10
- 166 Computed tomography quantification of coronary plaque volume may provide further perspective on intermediate severity stenoses. **2015**, 5, 71-3 1
- 165 Association of coronary plaque burden with fractional flow reserve: should we keep attempting to derive physiology from anatomy?. **2015**, 5, 67-70 1
- 164 Authors' Reply to Finsterer and Aliyev. **2014**, 29, 283
- 163 Gamechangers. **2016**, 85, 141-2
- 162 Chinese expert consensus on the non-invasive imaging examination pathways of stable coronary artery disease. **2018**, 15, 30-40 3
- 161 [Value of maximum area stenosis combined with perivascular fat attenuation index in predicting hemodynamically significant coronary artery disease]. **2021**, 41, 988-994
- 160 Multimodality noninvasive cardiovascular imaging for the evaluation of coronary artery disease. **2022**, 147-170

159	Assessing coronary artery disease using coronary computed tomography angiography. 2022 , 129-145	
158	Imaging techniques for the assessment of adverse cardiac remodeling in metabolic syndrome. 2021 , 1	1
157	Non-invasive Imaging in Coronary Syndromes - Recommendations of the European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with the American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography and Society for Cardiovascular Magnetic Resonance. 2021 ,	2
156	Effect of lesion characteristics on diagnostic performance of CT-derived fractional flow reserve: exploring the indications for application based on CT-FFR CHINA trial (Preprint).	
155	How Gold Is the Gold Standard for Machine Learning-Based CT-FFR?. 2021 ,	
154	Combined Coronary CT-Angiography and TAVR Planning for Ruling Out Significant Coronary Artery Disease: Added Value of Machine-Learning-Based CT-FFR. 2021 ,	2
153	Impact of Sublingual Nitroglycerin on the Assessment of Computed Tomography-derived Fractional Flow Reserve: An Intraindividual Comparison Study.. 2022 , 46, 23-28	
152	2021 AHA/ACC/ASE/CHEST/SAEM/SCCT/SCMR Guideline for the Evaluation and Diagnosis of Chest Pain: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines.. 2021 ,	6
151	Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging-part II.. 2022 ,	4
150	Diastolic versus systolic coronary computed tomography angiography derived fractional flow reserve for the identification of lesion-specific ischemia.. 2021 , 147, 110098	
149	The Prospective Randomized Trial of the Optimal Evaluation of Cardiac Symptoms and Revascularization: Rationale and Design of the PRECISE Trial.. 2021 , 245, 136-136	0
148	Prognostic Value of Coronary CT Angiography-Derived Fractional Flow Reserve in Non-obstructive Coronary Artery Disease: A Prospective Multicenter Observational Study.. 2021 , 8, 778010	0
147	Changing Paradigms in the Diagnosis of Ischemic Heart Disease by Multimodality Imaging.. 2022 , 11,	2
146	Prediction of myocardial blood flow under stress conditions by means of a computational model.. 2022 , 1	0
145	Effect of Coronary Calcification Severity on Measurements and Diagnostic Performance of CT-FFR With Computational Fluid Dynamics: Results From CT-FFR CHINA Trial.. 2021 , 8, 810625	0
144	Beyond Coronary CT Angiography: CT Fractional Flow Reserve and Perfusion. 2022 , 83, 3	
143	Harmonizing multimodality imaging results using Bayesian analysis: the case of CT coronary angiography and CT-derived fractional flow reserve.. 2022 , 1	0
142	Change in Computed Tomography-Derived Fractional Flow Reserve Across the Lesion Improve the Diagnostic Performance of Functional Coronary Stenosis.. 2021 , 8, 788703	0

141	Current and Future Applications of Artificial Intelligence in Coronary Artery Disease.. 2022 , 10,	2
140	Cardiovascular computed tomography imaging for coronary artery disease risk: plaque, flow and fat.. 2022 ,	3
139	Influence of diabetes mellitus on the diagnostic performance of machine learning-based coronary CT angiography-derived fractional flow reserve: a multicenter study.. 2022 , 1	1
138	Non-invasive imaging as the cornerstone of cardiovascular precision medicine.. 2022 ,	1
137	Physiologic Guidance for Percutaneous Coronary Intervention: State of the Evidence.. 2022 ,	0
136	Real time reduced order model for angiography fractional flow reserve.. 2022 , 216, 106674	0
135	Cardiac CT angiography in current practice: An American society for preventive cardiology clinical practice statement.. 2022 , 9, 100318	4
134	CT Fractional Flow Reserve: A Practical Guide to Application, Interpretation, and Problem Solving.. 2022 , 210097	1
133	Contemporary Management of Stable Coronary Artery Disease.. 2022 , 1	0
132	Diagnostic performance of deep learning and computational fluid dynamics-based instantaneous wave-free ratio derived from computed tomography angiography.. 2022 , 22, 33	
131	Stable patients with suspected myocardial ischemia: comparison of machine-learning computed tomography-based fractional flow reserve and stress perfusion cardiovascular magnetic resonance imaging to detect myocardial ischemia.. 2022 , 22, 34	0
130	Computed Tomography-Derived Fractional Flow Reserve: An Invitation to Learn More.. 2022 , 15, 296-298	
129	Diagnostic performance of coronary computed tomography angiography-derived fractional flow reserve in lesion-specific ischemia patients with different Gensini score levels.. 2022 , 10, 412	0
128	Diagnostic And Clinical Value of FFRCT in Stable Chest Pain Patients With Extensive Coronary Calcification. 2022 ,	0
127	Diagnostic concordance and discordance between angiography-based quantitative flow ratio and fractional flow reserve derived from computed tomography in complex coronary artery disease.. 2022 ,	0
126	JCS 2022 Guideline Focused Update on Diagnosis and Treatment in Patients With Stable Coronary Artery Disease.. 2022 ,	2
125	Prognostic value of the optimal measurement location of on-site CT-derived fractional flow reserve.. 2022 ,	0
124	Diagnostic Performance of CT FFR With a New Parameter Optimized Computational Fluid Dynamics Algorithm From the CT-FFR-CHINA Trial: Characteristic Analysis of Gray Zone Lesions and Misdiagnosed Lesions.. 2022 , 9, 819460	0

123 [Morphological and functional diagnostics of coronary artery disease by computed tomography].. **2022**, 1

122 Interoperator reliability of an on-site machine learning-based prototype to estimate CT angiography-derived fractional flow reserve.. **2022**, 9,

121 Diagnostic efficacy of CCTA and CT-FFR based on risk factors for myocardial ischemia.. **2022**, 17, 39 0

120 Pericoronary fat attenuation index and coronary plaque quantified from coronary computed tomography angiography identify ischemia-causing lesions.. **2022**, 1

119 Impact of machine-learning-based coronary computed tomography angiography-derived fractional flow reserve on decision-making in patients with severe aortic stenosis undergoing transcatheter aortic valve replacement.. **2022**, 1 1

118 Is CT-derived fractional flow reserve superior to ischaemia testing?. **2022**, 0

117 Non-Invasive Imaging in Coronary Syndromes: Recommendations of The European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with The American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance.. **2022**, 35, 329-354 1

116 Models for Closed-Loop Cardiac Control Using Vagal Nerve Stimulation. **2022**, 1-36

115 Automating Fractional Flow Reserve (FFR) calculation from CT scans: A rapid workflow using unsupervised learning and computational fluid dynamics. **2021**, e3559 1

114 Artificial Intelligence: A Shifting Paradigm in Cardio-Cerebrovascular Medicine. **2021**, 10, 1

113 Diagnostic accuracy of on-site coronary computed tomography-derived fractional flow reserve in the diagnosis of stable coronary artery disease.. **2021**, 30, 160

112 Feasibility and Comparison of Resting Full-Cycle Ratio and Computed Tomography Fractional Flow Reserve in Patients with Severe Aortic Valve Stenosis.. **2022**, 9,

111 Incremental prognostic value of spect over CCTA.. **2022**, 0

110 Data_Sheet_1.PDF. **2019**,

109 Modelling Pulmonary Arterial Hypertension: Clinical Concepts, Engineering Applications and an Integrated Medico-engineering Approach. **2022**, 169-187

108 Artificial Intelligence-Based Cardiovascular Risk Stratification. **2022**, 403-419

107 Research Progress of Machine Learning and Deep Learning in Intelligent Diagnosis of the Coronary Atherosclerotic Heart Disease.. **2022**, 2022, 3016532 0

106 Effect of the Coronary Arterial Diameter Derived From Coronary Computed Tomography Angiography on Fractional Flow Reserve.. **2022**, 46,

- 105 Diagnostic performance of fractional flow reserve derived from computed tomography in stented coronary arteries.. **2022**,
- 104 Diagnostic Performance of CT-Derived Fractional Flow Reserve in Australian Patients Referred for Invasive Coronary Angiography.. **2022**, ○
- 103 Segmentation Algorithm-Based Safety Analysis of Cardiac Computed Tomography Angiography to Evaluate Doctor-Nurse-Patient Integrated Nursing Management for Cardiac Interventional Surgery.. **2022**, 2022, 2148566
- 102 Transforming the Coronary Artery Disease Care Pathway Bridging Computational Fluid Dynamics to Coronary CTA. **2022**,
- 101 ACR Appropriateness Criteria□ Chronic Chest Pain-High Probability of Coronary Artery Disease: 2021 Update.. **2022**, 19, S1-S18 ○
- 100 Diagnostic Performance of CCTA and CT-FFR for the Detection of CAD in TAVR Work-Up. **2022**, 1
- 99 Multislice Computed Tomography (MSCT) and Cardiovascular Magnetic Resonance (CMR) Imaging for Coronary and Structural Heart Disease. **2022**, 126-135
- 98 Synergistic prognostic value of coronary distensibility index and fractional flow reserve based cCTA for major adverse cardiac events in patients with Coronary artery disease.. **2022**, 22, 220
- 97 Cardiovascular imaging: The beat of progress goes on. 34-37
- 96 On inlet pressure boundary conditions for CT-based computation of fractional flow reserve: clinical measurement of aortic pressure.. **2022**, 1-10 1
- 95 The role of multimodality imaging in patients with heart failure with reduced and preserved ejection fraction. **2022**, 37, 285-293
- 94 Editorial: Novel Approaches in Cardiovascular Imaging: Case Reports. **2022**, 9,
- 93 Assessment and Treatment for Coronary Microvascular Dysfunction by Contrast Enhanced Ultrasound. 9, 1
- 92 Computational Fractional Flow Reserve From Coronary Computed Tomography Angiography□Optical Coherence Tomography Fusion Images in Assessing Functionally Significant Coronary Stenosis. 9, ○
- 91 Functional evaluation of intermediate coronary lesions with integrated computed tomography angiography and invasive angiography in patients with stable coronary artery disease. **2022**,
- 90 Non-Invasive Imaging in Coronary Syndromes: Recommendations of The European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with The American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance. **2022**, ○
- 89 Diagnostic accuracy of CCTA-derived versus angiography-derived quantitative flow ratio (CAREER) study: a prospective study protocol. **2022**, 12, e055481
- 88 The Continuum of Invasive Techniques for the Assessment of Intermediate Coronary Lesions. **2022**, 12, 1492

- 87 Diagnostic accuracy of coronary computed tomography angiography-derived fractional flow reserve (CT-FFR) in patients before liver transplantation using CT-FFR machine learning algorithm. ○
- 86 The challenge of cardiovascular risk assessment in Chronic Kidney Disease; is there a role for CTA and FFRCT?. **2022**,
- 85 Blood flow analysis with computational fluid dynamics and 4D-flow MRI for vascular diseases. **2022**, 1
- 84 Improved Functional Assessment of Ischemic Severity Using 3D Printed Models. 9,
- 83 Assessment of left main coronary artery disease: a comparison between invasive and noninvasive. Publish Ahead of Print, ○
- 82 Comparison of coronary CT angiography-based and invasive coronary angiography-based quantitative flow ratio for functional assessment of coronary stenosis: A multicenter retrospective analysis. **2022**,
- 81 2021 top 10 articles in the Arquivos Brasileiros de Cardiologia and the Revista Portuguesa de Cardiologia. **2022**,
- 80 Coronary flow disturbance assessed by vorticity as a cause of functionally significant stenosis.
- 79 Os Melhores Artigos do Ano 2021 nos Arquivos Brasileiros de Cardiologia e na Revista Portuguesa de Cardiologia. **2022**, 119, 113-123
- 78 Non-invasive assessment of the coronary arteries in the era of the ISCHEMIA trial. **2022**, 4,
- 77 Perspectives in noninvasive imaging for chronic coronary syndromes. **2022**, ○
- 76 Use of a pressure wire for automatically correcting artifacts in phasic pressure tracings from a fluid-filled catheter. **2022**,
- 75 Cardiac Computed Tomography: State of the Art and Future Horizons. **2022**, 11, 4429 ○
- 74 Sex differences in machine learning computed tomography-derived fractional flow reserve. **2022**, 12, ○
- 73 Addition of FFRct in the diagnostic pathway of patients with stable chest pain to reduce unnecessary invasive coronary angiography (FUSION). ○
- 72 Impact of Coronary Artery Disease on the Myocardium. **2022**, 15, 1423-1426
- 71 Coronary functional assessment in non-obstructive coronary artery disease: Present situation and future direction. 9, ○
- 70 Prediction of fractional flow reserve based on reduced-order cardiovascular model. **2022**, 400, 115473 ○

- 69 Real-world validation of fractional flow reserve computed tomography in patients with stable angina: Results from the prospective AFFECTS trial. **2022**, 91, 32-36 ○
- 68 Noninvasive diagnostic modalities for the diagnosis of coronary artery disease. **2022**, 47, 27-36 ○
- 67 Hybrid Cardiac Imaging for the Specialist with Expertise in Computed Tomography. **2022**, 75-91 ○
- 66 Hybrid Cardiac Imaging for the Interventional Cardiologist. **2022**, 117-127 ○
- 65 Coronary Computed Tomography Angiography-derived Fractional Flow Reserve. Publish Ahead of Print, ○
- 64 Pediatric nurse-patient communication practices at Pentecost Hospital, Madina: A qualitative study. **2022**, 1 ○
- 63 2022 Use of Coronary Computed Tomographic Angiography for Patients Presenting with Acute Chest Pain to the Emergency Department: An Expert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT). Endorsed by the American College of Radiology (ACR) and North American Society for Cardiovascular Imaging (NASCI). **2022**, ○
- 62 Influence of intensive lipid-lowering on CT derived fractional flow reserve in patients with stable chest pain: Rationale and design of the FLOWPROMOTE study. ○
- 61 Randomized comparison of chest pain evaluation with FFRCT or standard care: Factors determining US costs. **2022**, ○
- 60 The role of coronary CTA and CT-fractional flow reserve evaluating coronary artery disease in transcatheter aortic valve replacement. ○
- 59 Multimodality Imaging in the Detection of Ischemic Heart Disease in Women. **2022**, 9, 350 ○
- 58 Advancements and Opportunities in Characterizing Patient-Specific Wall Shear Stress Imposed by Coronary Artery Stenting. **2022**, 7, 325 ○
- 57 The chest pain guidelines revisited: cherry picking from the frequentist tree. ○
- 56 Machine Learning From Quantitative Coronary Computed Tomography Angiography Predicts Fractional Flow Reserve-Defined Ischemia and Impaired Myocardial Blood Flow. **2022**, 15, ○
- 55 Computer- und Magnetresonanztomographie in der Herzdiagnostik [welche Modalität ist die richtige?]. **2022**, 62, 902-911 ○
- 54 Computed Tomography-Derived Physiology Assessment. **2023**, 12, 95-117 ○
- 53 Coronary physiology in the catheterisation laboratory: an A to Z practical guide. **2022**, 8, 86-109 ○
- 52 Deep learning-based detection of functionally significant stenosis in coronary CT angiography. 9, ○

51	Diagnostic Performance of On-Site Computed Tomography Derived Fractional Flow Reserve on Non-Culprit Coronary Lesions in Patients with Acute Coronary Syndrome. 2022 , 12, 1820	○
50	Computed tomography to replace invasive coronary angiography? The DISCHARGE trial. 2022 , 24, 125-128	○
49	Influence of the position of the distal pressure measurement point on the Fractional Flow Reserve using in-silico simulations. 2023 , 43, 69-81	○
48	Personalized coronary blood flow model based on CT perfusion to non-invasively calculate fractional flow reserve. 2023 , 404, 115789	1
47	Impact of Pressure Wire on Fractional Flow Reserve and Hemodynamics of the Coronary Arteries: A Computational and Clinical Study. 2022 , 1-9	○
46	The chronic coronary syndromeHeart failure roundabout: A multimodality imaging workflow approach. 9,	○
45	Coronary Computed Tomography Angiography for Evaluation of Chest Pain in the Emergency Department. 2022 , 49,	○
44	Optimal Measurement Sites of Coronary-Computed Tomography Angiography-derived Fractional Flow Reserve. Publish Ahead of Print,	○
43	Analysis identifying minimal governing parameters for clinically accurate in silico fractional flow reserve. 4,	○
42	Feasibility of CT AngiographyDerived Kinetic Energy of Coronary Flow to Improve the Detection of Hemodynamically Significant Coronary Stenosis. 2022 , 4,	○
41	Detecting lesion-specific ischemia in patients with coronary artery disease with computed tomography fractional flow reserve measured at different sites.	○
40	The prognostic value of CT-derived fractional flow reserve in coronary artery bypass graft: a retrospective multicenter study.	○
39	Coronary Computed Tomography vs. Cardiac Magnetic Resonance Imaging in the Evaluation of Coronary Artery Disease. 2023 , 13, 125	○
38	Impact of a Deep Learning-based Super-resolution Image Reconstruction Technique on High-contrast Computed Tomography: A Phantom Study. 2023 ,	○
37	Models for Closed-Loop Cardiac Control Using Vagal Nerve Stimulation. 2023 , 2283-2318	○
36	Artificial intelligence in atherosclerotic disease: Applications and trends. 9,	○
35	Rationale and design of the iCORONARY trial: improving the cost-effectiveness of coronary artery disease diagnosis.	○
34	CT-derived fractional flow reserve for prediction of major adverse cardiovascular events in diabetic patients. 2023 , 22,	○

- 33 A high-fidelity geometric multiscale hemodynamic model for predicting myocardial ischemia. **2023**, 233, 107476 ○
- 32 A novel method for calculating CTFFR based on the flow ratio between stenotic coronary and healthy coronary. **2023**, 233, 107469 ○
- 31 The Use and Efficacy of FFR-CT. **2023**, ○
- 30 Extending Our Knowledge of Lifetime Outcomes After ST-Elevation Myocardial Infarction. **2023**, 191, 139-140 ○
- 29 Incremental diagnostic value of radiomics signature of pericoronary adipose tissue for detecting functional myocardial ischemia: a multicenter study. **2023**, 33, 3007-3019 ○
- 28 Impact of coronary computed tomography angiography-derived fractional flow reserve based on deep learning on clinical management. 10, ○
- 27 Physiologic Assessment of Coronary Artery Disease: Past, Present and Future. **2023**, 2, 66 ○
- 26 A novel simulation software to predict postoperative corneal stiffness prior to laser vision correction. **2023**, Publish Ahead of Print, ○
- 25 A spatiotemporal analysis of the left coronary artery biomechanics using fluid-structure interaction models. ○
- 24 Integration of fractional flow reserve derived from CT into clinical practice. **2023**, 81, 577-585 ○
- 23 Outcomes of Functional Testing Versus Invasive Cardiac Catheterization for the Evaluation of Intermediate Severity Coronary Stenosis Detected on Cardiac Computed Tomography Angiography. **2023**, 22, 25-30 ○
- 22 Long-term prognostic implications of hemodynamic and plaque assessment using coronary CT angiography. **2023**, ○
- 21 CFD Computation of Flow Fractional Reserve (FFR) in Coronary Artery Trees Using a Novel Physiologically Based Algorithm (PBA) Under 3D Steady and Pulsatile Flow Conditions. **2023**, 10, 309 ○
- 20 Coronary computed tomography angiography imaging features combined with computed tomography-fractional flow reserve, pericoronary fat attenuation index, and radiomics for the prediction of myocardial ischemia. ○
- 19 The Comparative Method Based on Coronary Computed Tomography Angiography for Assessing the Hemodynamic Significance of Coronary Artery Stenosis. ○
- 18 Tissue-growth-based synthetic tree generation and perfusion simulation. ○
- 17 On-Site Computed Tomography-Derived Fractional Flow Reserve to Guide the Management of Patients with Stable Coronary Artery Disease: the TARGET Randomized Trial. ○
- 16 JCS/CVIT/JCC 2023 Guideline Focused Update on Diagnosis and Treatment of Vasospastic Angina (Coronary Spastic Angina) and Coronary Microvascular Dysfunction. **2023**, ○

- 15 The Role of Noninvasive Cardiac Imaging in the Management of Diseases of the Cardiovascular System. **2023**, 257-284 ○
- 14 A Novel CT Perfusion-Based Fractional Flow Reserve Algorithm for Detecting Coronary Artery Disease. **2023**, 12, 2154 ○
- 13 Functional Assessment of Coronary Artery Stenosis from Coronary Angiography and Computed Tomography: Angio-FFR vs. CT-FFR. ○
- 12 Discordance between Invasive and Non-Invasive Coronary Angiography: An In-Depth Functional and Anatomical Analysis. **2023**, 11, 913 ○
- 11 Predictive value of coronary artery computed tomography-derived fractional flow reserve for cardiovascular events in patients with coronary artery disease. ○
- 10 Incremental diagnostic value of perivascular fat attenuation index for identifying hemodynamically significant ischemia with severe calcification. ○
- 9 Nomogram for evaluating coronary revascularisation necessity based on multi-parameter coronary CT angiography. **2023**, ○
- 8 The reliability and utility of on-site CT-derived fractional flow reserve (FFR) based on fluid structure interactions: comparison with FFRCT based on computational fluid dynamics, invasive FFR, and resting full-cycle ratio. ○
- 7 Evolving Diagnostic and Management Advances in Coronary Heart Disease. **2023**, 13, 951 ○
- 6 Revascularization and Medical Therapy for Chronic Coronary Syndromes: Lessons Learnt from Recent Trials, a Literature Review. **2023**, 12, 2833 ○
- 5 Computed tomography and nuclear medicine for the assessment of coronary inflammation: clinical applications and perspectives. **2023**, 24, e67-e76 ○
- 4 Computed Tomography Cardiac Imaging: Coronary Artery Disease and Ischemia. **2023**, 267-283 ○
- 3 Best Practices for Physiologic Assessment of Coronary Stenosis. ○
- 2 State of the art mathematical methods of the coronary blood flow modelling: background and clinical value. **2023**, 63, 77-84 ○
- 1 Cardiac computed tomography: from anatomy to function. **2023**, 25, C49-C57 ○