

4D flow MRI for intracranial hemodynamics assessment

Journal of Cerebral Blood Flow and Metabolism

36, 1718-1730

DOI: [10.1177/0271678x15617171](https://doi.org/10.1177/0271678x15617171)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Hemodynamic Measurement Using Four-Dimensional Phase-Contrast MRI: Quantification of Hemodynamic Parameters and Clinical Applications. Korean Journal of Radiology, 2016, 17, 445.	1.5	35
2	Four-dimensional MRI flow examinations in cerebral and extracerebral vessels – ready for clinical routine?. Current Opinion in Neurology, 2016, 29, 419-428.	1.8	43
3	Neurovascular 4DFlow MRI (Phase Contrast MRA): emerging clinical applications. Neurovascular Imaging, 2016, 2, .	2.4	19
4	Reduced Cerebral Blood Flow in Mild Cognitive Impairment Assessed Using Phase-Contrast MRI. Journal of Alzheimer's Disease, 2017, 58, 585-595.	1.2	34
5	A Stereotactic Probabilistic Atlas for the Major Cerebral Arteries. Neuroinformatics, 2017, 15, 101-110.	1.5	25
6	Macrovascular and microvascular cerebral blood flow in adults at risk for Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2017, 7, 48-55.	1.2	31
7	Insulin resistance is associated with lower arterial blood flow and reduced cortical perfusion in cognitively asymptomatic middle-aged adults. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2249-2261.	2.4	46
8	Regional hypoxic cerebral vasodilation facilitated by diameter changes primarily in anterior versus posterior circulation. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2025-2034.	2.4	28
9	Cerebral Hemodynamics in Mild Cognitive Impairment: A Systematic Review. Journal of Alzheimer's Disease, 2017, 59, 369-385.	1.2	90
10	The Paravascular Pathway for Brain Waste Clearance: Current Understanding, Significance and Controversy. Frontiers in Neuroanatomy, 2017, 11, 101.	0.9	120
11	Intracranial Arterial 4D Flow in Individuals with Mild Cognitive Impairment is Associated with Cognitive Performance and Amyloid Positivity. Journal of Alzheimer's Disease, 2017, 60, 243-252.	1.2	15
12	4D Flow MRI. , 2018, , 187-212.		3
13	Intracranial 4D flow magnetic resonance imaging reveals altered haemodynamics in sickle cell disease. British Journal of Haematology, 2018, 180, 432-442.	1.2	14
14	Subject-specific multi-poroelastic model for exploring the risk factors associated with the early stages of Alzheimer's disease. Interface Focus, 2018, 8, 20170019.	1.5	49
15	Associations of Pulse and Blood Pressure with Hippocampal Volume by APOE and Cognitive Phenotype: The Alzheimer's Disease Neuroimaging Initiative (ADNI). Dementia and Geriatric Cognitive Disorders, 2018, 45, 66-78.	0.7	8
16	Comparison of ferumoxytol-based cerebral blood volume estimates using quantitative R_2^* and relaxometry. Magnetic Resonance in Medicine, 2018, 79, 3072-3081.	1.9	7
17	Intracranial pulsatility in patients with cerebral small vessel disease: a systematic review. Clinical Science, 2018, 132, 157-171.	1.8	46
18	Vascular Health is Associated with Amyloid- β^2 in Cognitively Normal Older Adults. Journal of Alzheimer's Disease, 2019, 70, 467-475.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Cerebral Artery Hypoplasia in a Select Adult Kenyan Population. <i>Journal of Neurosciences in Rural Practice</i> , 2019, 10, 423-429.	0.3	2
20	Association of Cardiovascular and Alzheimer's Disease Risk Factors with Intracranial Arterial Blood Flow in Whites and African Americans. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 919-929.	1.2	14
21	Standardized Evaluation of Cerebral Arteriovenous Malformations Using Flow Distribution Network Graphs and Dual-Phase 4D Flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1718-1730.	1.9	28
22	Vascular Dysfunction in Alzheimer's Disease: A Prelude to the Pathological Process or a Consequence of It?. <i>Journal of Clinical Medicine</i> , 2019, 8, 651.	1.0	131
23	Quantification of Hemodynamic Parameters Using Four-Dimensional Flow MRI. <i>Journal of the Korean Society of Radiology</i> , 2019, 80, 239.	0.1	3
24	Assessing test-retest reliability of phase contrast MRI for measuring cerebrospinal fluid and cerebral blood flow dynamics. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 658-670.	1.9	30
25	An Integrated View on Vascular Dysfunction in Alzheimer's Disease. <i>Neurodegenerative Diseases</i> , 2019, 19, 109-127.	0.8	62
26	Measuring the Interaction Between the Macro- and Micro-Vasculature. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 169.	1.1	31
27	Higher Pulsatility in Cerebral Perforating Arteries in Patients With Small Vessel Disease Related Stroke, a 7T MRI Study. <i>Stroke</i> , 2019, 50, 62-68.	1.0	65
28	Phase contrast MRI of creeping flows using stimulated echo. <i>Journal of Magnetic Resonance</i> , 2019, 299, 49-58.	1.2	12
29	Test-retest multisite reproducibility of neurovascular 4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1543-1552.	1.9	27
30	Vascular dysfunction—The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 158-167.	0.4	454
31	Assessment of Cerebral Blood Flow Pulsatility and Cerebral Arterial Compliance With 4D Flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1516-1525.	1.9	27
32	Characterizing pulsatility in distal cerebral arteries using 4D flow MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2429-2440.	2.4	20
33	Vascular contributions to cognitive impairment and dementia (VCID): A report from the 2018 National Heart, Lung, and Blood Institute and National Institute of Neurological Disorders and Stroke Workshop. <i>Alzheimer's and Dementia</i> , 2020, 16, 1714-1733.	0.4	108
34	Age, sex, and the vascular contributors to cerebral pulsatility and pulsatile damping. <i>Journal of Applied Physiology</i> , 2020, 129, 1092-1101.	1.2	33
35	Novel PET Biomarkers to Disentangle Molecular Pathways across Age-Related Neurodegenerative Diseases. <i>Cells</i> , 2020, 9, 2581.	1.8	20
36	Potential Role of Venular Amyloid in Alzheimer's Disease Pathogenesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1985.	1.8	28

#	ARTICLE	IF	CITATIONS
37	Functional measurements and mobility restriction (from 3D to 4D scanning). , 2020, , 169-199.		3
38	Assessment of vascular stiffness in the internal carotid artery proximal to the carotid canal in Alzheimer's disease using pulse wave velocity from low rank reconstructed 4D flow MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 298-311.	2.4	34
39	Accelerated aortic 4D flow MRI with wavelet-based CAIPI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2595-2607.	1.9	4
40	4D flow MRI for non-invasive measurement of blood flow in the brain: A systematic review. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 206-218.	2.4	25
41	Loss of cholinergic innervation differentially affects eNOS-mediated blood flow, drainage of A β and cerebral amyloid angiopathy in the cortex and hippocampus of adult mice. <i>Acta Neuropathologica Communications</i> , 2021, 9, 12.	2.4	16
42	Cerebral arterial pulsatility is linked to hippocampal microvascular function and episodic memory in healthy older adults. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1778-1790.	2.4	26
43	Assessment of the DTI-derived ALPS Parameter Along the Perivascular Space in Older Adults at Risk of Dementia. <i>Journal of Neuroimaging</i> , 2021, 31, 569-578.	1.0	68
44	Uses of Human MR and PET Imaging in Research of Neurodegenerative Brain Diseases. <i>Neurotherapeutics</i> , 2021, 18, 661-672.	2.1	9
45	Exercise, Arterial Stiffness, and Cerebral Vascular Function: Potential Impact on Brain Health. <i>Journal of the International Neuropsychological Society</i> , 2021, 27, 761-775.	1.2	19
46	Is Late-Onset Alzheimer Disease Spelled "A-TV(N)". <i>Neurology</i> , 2021, 97, 155-156.	1.5	0
47	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3096-3110.	1.9	13
48	Nitric oxide synthase inhibition in healthy adults reduces regional and total cerebral macrovascular blood flow and microvascular perfusion. <i>Journal of Physiology</i> , 2021, 599, 4973-4989.	1.3	11
49	Cerebrovascular alterations in NAFLD: Is it increasing our risk of Alzheimer's disease?. <i>Analytical Biochemistry</i> , 2022, 636, 114387.	1.1	12
50	Middle cerebral artery pressure laterality in patients with symptomatic ICA stenosis. <i>PLoS ONE</i> , 2021, 16, e0245337.	1.1	9
51	Intracranial vascular flow oscillations in Alzheimer's disease from 4D flow MRI. <i>NeuroImage: Clinical</i> , 2020, 28, 102379.	1.4	14
52	Beyond cardiovascular medicine: potential future uses of icosapent ethyl. <i>European Heart Journal Supplements</i> , 2020, 22, J54-J64.	0.0	9
53	Hemodynamic Analysis of Cerebral AVMs with 3D Phase-Contrast MR Imaging. <i>American Journal of Neuroradiology</i> , 2021, 42, 2138-2145.	1.2	7
54	Cardiorespiratory Fitness Associates with Cerebral Vessel Pulsatility in a Cohort Enriched with Risk for Alzheimer's Disease. <i>Brain Plasticity</i> , 2020, 5, 175-184.	1.9	3

#	ARTICLE	IF	CITATIONS
55	4D flow MRI hemodynamic biomarkers for cerebrovascular diseases. <i>Journal of Internal Medicine</i> , 2022, 291, 115-127.	2.7	16
56	Cerebrovascular stiffness and flow dynamics in the presence of amyloid and tau biomarkers. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12253.	1.2	4
57	The Impact of Aging on the Association Between Aortic Stiffness and Cerebral Pulsatility Index. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 821151.	1.1	14
58	Intracranial Blood Flow Quantification by Accelerated Dual-Phase 4D Flow MRI: Comparison With Transcranial Doppler Ultrasound. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1256-1264.	1.9	3
59	Physics-Informed Neural Networks for Brain Hemodynamic Predictions Using Medical Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 2285-2303.	5.4	24
60	Intracranial Flow Velocity Quantification Using Non-Contrast Four-Dimensional Flow MRI: A Prospective Comparative Study with Transcranial Doppler Ultrasound. <i>Diagnostics</i> , 2022, 12, 23.	1.3	2
61	Alzheimer's disease biomarkers in Black and non-Hispanic White cohorts: A contextualized review of the evidence. <i>Alzheimer's and Dementia</i> , 2022, 18, 1545-1564.	0.4	29
62	Sympathoexcitatory Responses to Isometric Handgrip Exercise Are Associated With White Matter Hyperintensities in Middle-Aged and Older Adults. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	1
63	Characterization of non-stenotic plaques in intracranial arteries with multi-contrast, multi-planar vessel wall image analysis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2022, 31, 106719.	0.7	2
64	Automated hemodynamic assessment for cranial 4D flow MRI. <i>Magnetic Resonance Imaging</i> , 2023, 97, 46-55.	1.0	6
65	Alterations in cerebral distal vascular features and effect on cognition in a high cardiovascular risk population: A prospective longitudinal study. <i>Magnetic Resonance Imaging</i> , 2023, 98, 36-43.	1.0	3
66	Vascular contributions to Alzheimer's disease. <i>Translational Research</i> , 2023, 254, 41-53.	2.2	26
67	Normative Cerebral Hemodynamics in Middle-aged and Older Adults Using 4D Flow MRI: Initial Analysis of Vascular Aging. <i>Radiology</i> , 2023, 307, .	3.6	10
68	Effect of intracranial pressure on photoplethysmographic waveform in different cerebral perfusion territories: A computational study. <i>Frontiers in Physiology</i> , 0, 14, .	1.3	5
69	Non-invasive assessment for intratumoural distribution of interstitial fluid flow. <i>Magnetic Resonance Letters</i> , 2023, 3, 286-297.	0.7	2