

Homocysteine-Lowering Therapy and Stroke Risk, Seve

Stroke

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Thrombophilias. , 0 , 336-346.		1
2	Association Between High Homocyst(e)ine and Ischemic Stroke due to Large- and Small-Artery Disease but Not Other Etiologic Subtypes of Ischemic Stroke. <i>Stroke</i> , 2000, 31, 1069-1075.	1.0	229
3	Lack of Phosphatidylethanolamine <i>N</i> -Methyltransferase Alters Plasma VLDL Phospholipids and Attenuates Atherosclerosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1349-1355.	1.1	69
4	Effect of Folate Supplementation on Serum Homocysteine and Plasma Total Antioxidant Capacity in Hypercholesterolemic Adults under Lovastatin Treatment: A Double-blind Randomized Controlled Clinical Trial. <i>Archives of Medical Research</i> , 2009, 40, 380-386.	1.5	18
5	Homocysteine, folate and vitamin B ₁₂ in neuropsychiatric diseases: review and treatment recommendations. <i>Expert Review of Neurotherapeutics</i> , 2009, 9, 1393-1412.	1.4	135
6	Homocysteine and Cholesterol: Guilt by Association?. <i>Stroke</i> , 2009, 40, e516; author reply e517.	1.0	4
7	Response to Letter by Obeid and Herrmann. <i>Stroke</i> , 2009, 40, .	1.0	0
8	Effect of enalapril on plasma homocysteine levels in patients with essential hypertension. <i>Journal of Zhejiang University: Science B</i> , 2010, 11, 583-591.	1.3	13
9	Homocysteine metabolism and its relation to health and disease. <i>BioFactors</i> , 2010, 36, 19-24.	2.6	90
10	Concentrations of unmetabolized folic acid and primary folate forms in plasma after folic acid treatment in older adults. <i>Metabolism: Clinical and Experimental</i> , 2010, 60, 673-80.	1.5	35
11	Pharmacology in Childhood Arterial Ischemic Stroke. <i>Seminars in Pediatric Neurology</i> , 2010, 17, 237-244.	1.0	10
12	Meta-Analysis of Folic Acid Supplementation Trials on Risk of Cardiovascular Disease and Risk Interaction With Baseline Homocysteine Levels. <i>American Journal of Cardiology</i> , 2010, 106, 517-527.	0.7	93
13	Chronic treatment with fibrates elevates superoxide dismutase in adult mouse brain microvessels. <i>Brain Research</i> , 2010, 1359, 247-255.	1.1	32
14	B vitamins and the aging brain. <i>Nutrition Reviews</i> , 2010, 68, S112-S118.	2.6	88
15	Randomized Clinical Stroke Trials in 2009. <i>American Medical Journal</i> , 2010, 1, 27-45.	1.0	0
16	Effects of Homocysteine-Lowering With Folic Acid Plus Vitamin B ₁₂ vs Placebo on Mortality and Major Morbidity in Myocardial Infarction Survivors. <i>JAMA - Journal of the American Medical Association</i> , 2010, 303, 2486.	3.8	283
17	Meta analysis suggests that folic acid supplementation does not reduce risk of stroke, but there may be some benefit when given in combination with vitamins B6 and B12 and in primary prevention. <i>Evidence-Based Medicine</i> , 2010, 15, 168-170.	0.6	3
18	Homocysteine Levels in Acute Ischemic Stroke Patients. <i>Journal of Academic Emergency Medicine</i> , 2010, 9, 169-171.	0.1	1

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19	Dietary Folate and Vitamin B ₆ and B ₁₂ Intake in Relation to Mortality From Cardiovascular Diseases. <i>Stroke</i> , 2010, 41, 1285-1289.	1.0	102
20	Neuroprotective Effects of Polysaccharides from Wolfberry, the Fruits of <i>Lycium barbarum</i> , Against Homocysteine-induced Toxicity in Rat Cortical Neurons. <i>Journal of Alzheimer's Disease</i> , 2010, 19, 813-827.	1.2	131
21	Hyperhomocysteinemia in moderate and severe hypothyroidism. <i>Acta Endocrinologica</i> , 2010, 6, 431-442.	0.1	1
22	An Introduction to Instrumental Variables – Part 2: Mendelian Randomisation. <i>Neuroepidemiology</i> , 2010, 35, 307-310.	1.1	22
23	Novel pro-atherogenic molecule coupling factor 6 is elevated in patients with stroke: A possible linkage to homocysteine. <i>Annals of Medicine</i> , 2010, 42, 79-86.	1.5	16
24	Nutritional Supplements for Older Adults: Review and Recommendations – Part II. <i>Journal of Nutrition in Gerontology and Geriatrics</i> , 2010, 29, 42-71.	1.0	26
25	Pronounced association of elevated serum homocysteine with stroke in subgroups of individuals: A nationwide study. <i>Journal of the Neurological Sciences</i> , 2010, 298, 153-157.	0.3	78
26	Could genetic analysis be useful in reducing cerebrovascular risk in hypertensive subjects with hyperhomocysteinemia and patent foramen ovale? A 2-year follow-up study. <i>Microvascular Research</i> , 2010, 80, 545-548.	1.1	1
27	Guidelines for the Primary Prevention of Stroke. <i>Stroke</i> , 2011, 42, 517-584.	1.0	1,289
28	Evaluation of mild hyperhomocysteinemia during the development of atherosclerosis in apolipoprotein E-deficient and normal mice. <i>Experimental and Molecular Pathology</i> , 2011, 90, 45-50.	0.9	14
29	A randomized placebo controlled trial of homocysteine lowering to reduce cognitive decline in older demented people. <i>Clinical Nutrition</i> , 2011, 30, 297-302.	2.3	65
30	Screening for Cardiovascular Risk Using Ultrasound: A Practical Approach. , 2011, , 511-517.		0
31	Endothelial microparticle formation in moderate concentrations of homocysteine and methionine in vitro. <i>Cellular and Molecular Biology Letters</i> , 2011, 16, 69-78.	2.7	30
32	Risk factors for ischemic stroke and transient ischemic attack in patients under age 50. <i>Journal of Thrombosis and Thrombolysis</i> , 2011, 31, 85-91.	1.0	31
33	Use of vitamin supplements and risk of total cancer and cardiovascular disease among the Japanese general population: A population-based survey. <i>BMC Public Health</i> , 2011, 11, 540.	1.2	12
34	1,25-dihydroxyvitamin D3 influences cellular homocysteine levels in murine preosteoblastic MC3T3-E1 cells by direct regulation of cystathionine β -synthase. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2991-3000.	3.1	87
36	The Basis of Differential Responses to Folic Acid Supplementation. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2011, 4, 99-109.	1.8	8
37	Homocysteine: a biomarker in neurodegenerative diseases. <i>Clinical Chemistry and Laboratory Medicine</i> , 2011, 49, 435-441.	1.4	121

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38	Left atrial enlargement: A cause of stroke?. <i>Cmaj</i> , 2011, 183, 1129-1130.	0.9	4
39	The Role of Vitamin B in Stroke Prevention. <i>Stroke</i> , 2011, 42, 838-842.	1.0	22
40	A dose-finding trial of the effect of long-term folic acid intervention: implications for food fortification policy. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 11-18.	2.2	54
41	Nonmedication, Alternative, and Complementary Treatments for Migraine. <i>CONTINUUM Lifelong Learning in Neurology</i> , 2012, 18, 796-806.	0.4	35
42	Protective Nutrients. <i>Nutrition Today</i> , 2012, 47, 110-122.	0.6	0
43	Aspirin decreases the risk of depression in older men with high plasma homocysteine. <i>Translational Psychiatry</i> , 2012, 2, e151-e151.	2.4	52
44	Ä°skemik Ä°nmede Karotis Ä°ntima Media KalÄ±nlÄ±Ä± ve Homosistein ArasÄ±ndaki Ä°liÄ±ki. <i>Noropsikiyatri Arsiyi</i> , 2012, 49, 53-58.	0.7	0
45	Vitamin Supplementation and Stroke Prevention. <i>Stroke</i> , 2012, 43, 2814-2818.	1.0	16
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47	Folic Acid and Pathogenesis of Cardiovascular Disease. , 2012, , 95-110.		0
48	Why Do Homocysteine-Lowering B Vitamin and Antioxidant E Vitamin Supplementations Appear To Be Ineffective in the Prevention of Cardiovascular Diseases?. <i>Cardiovascular Therapeutics</i> , 2012, 30, 227-233.	1.1	38
49	Genetic and environmental influences on total plasma homocysteine and its role in coronary artery disease risk. <i>Atherosclerosis</i> , 2012, 222, 180-186.	0.4	27
50	Meta-analysis of B vitamin supplementation on plasma homocysteine, cardiovascular and all-cause mortality. <i>Clinical Nutrition</i> , 2012, 31, 448-454.	2.3	107
51	CHAPTER 3. Vitamins and Folate Fortification in the Context of Cardiovascular Disease Prevention. <i>Food and Nutritional Components in Focus</i> , 2012, , 35-54.	0.1	0
52	Nutrition Throughout Life: Folate. <i>International Journal for Vitamin and Nutrition Research</i> , 2012, 82, 348-354.	0.6	25
53	Serum homocysteine and folate concentrations among a US cohort of adolescents before and after folic acid fortification. <i>Public Health Nutrition</i> , 2012, 15, 1818-1826.	1.1	10
54	Familial hyperhomocysteinemia, age and peripheral vascular diseases - an Italian study. <i>Veins and Lymphatics</i> , 2012, 1, .	0.1	0
55	Severe Hyperhomocysteinemia Promotes Bone Marrow-Derived and Resident Inflammatory Monocyte Differentiation and Atherosclerosis in LDLr/CBS-Deficient Mice. <i>Circulation Research</i> , 2012, 111, 37-49.	2.0	123

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59	Effects of coenzyme Q10 supplementation on inflammatory markers (high-sensitivity C-reactive) Tj ETQq1 1 0.784314 rgBT /Overlock 11 767-772.	1.1	80
60	Nutraceuticals for older people: Facts, fictions and gaps in knowledge. <i>Maturitas</i> , 2013, 75, 313-334.	1.0	50
61	Plasma homocysteine levels increase following stress in older but not younger men. <i>Psychoneuroendocrinology</i> , 2013, 38, 1381-1387.	1.3	3
62	EURRECAâ€”Estimating Folate Requirements for Deriving Dietary Reference Values. <i>Critical Reviews in Food Science and Nutrition</i> , 2013, 53, 1041-1050.	5.4	14
63	Cardiovascular risk in pediatric-onset rheumatological diseases. <i>Arthritis Research and Therapy</i> , 2013, 15, 212.	1.6	53
64	Homocysteine induces inflammatory transcriptional signaling in monocytes. <i>Frontiers in Bioscience - Landmark</i> , 2013, 18, 685.	3.0	36
65	Vitamin B12 and folic acid levels are not related to length of stay in elderly inpatients. <i>Nutrition</i> , 2013, 29, 757-759.	1.1	7
66	Homocysteine-lowering interventions for preventing cardiovascular events. , 2013, , CD006612.		53
67	The potential role of homocysteine mediated DNA methylation and associated epigenetic changes in abdominal aortic aneurysm formation. <i>Atherosclerosis</i> , 2013, 228, 295-305.	0.4	86
68	Acute phase homocysteine related to severity and outcome of atherothrombotic stroke. <i>European Journal of Internal Medicine</i> , 2013, 24, 362-367.	1.0	40
69	INTERVENTION EFFECT OF FOLIC ACID AND VITAMIN B12 ON VASCULAR COGNITIVE IMPAIRMENT COMPLICATED WITH HYPERHOMOCYSTEINEMIA / EFEKAT INTERVENCIJE FOLNOM KISELINOM I VITAMINOM B12 NA VASKULARNI KOGNITIVNI POREMEĀ†AJ KOMPLIKOVAN HIPERHOMOCISTEINEMIJOM. <i>Journal of Medical Biochemistry</i> , 2013, 33, 169-174.	0.7	6
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71	WaterĀ°Soluble Vitamins in People with Low Glomerular Filtration Rate or On Dialysis: A Review. <i>Seminars in Dialysis</i> , 2013, 26, 546-567.	0.7	59
72	Vitamin B supplementation, homocysteine levels, and the risk of cerebrovascular disease. <i>Neurology</i> , 2013, 81, 1298-1307.	1.5	79
73	This Wonder-Working Gas. <i>Anesthesia and Analgesia</i> , 2013, 116, 955-958.	1.1	10

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76	Role of vitamins in cardiovascular health and disease. Research Reports in Clinical Cardiology, 0, , 283.	0.2	11
77	Obesity, Chronic Disease Risk Factors & Fighting Words â€” The Collateral Damage to Health. Journal of Obesity & Weight Loss Therapy, 2014, 04, .	0.1	0
78	Mortonâ€™s foot and pyridoxal 5â€™-phosphate deficiency: Genetically linked traits. Medical Hypotheses, 2014, 83, 644-648.	0.8	4
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80	Homocysteine-Lowering Therapy and Risk of Recurrent Stroke, Myocardial Infarction and Death: The Impact of Age in the VISP Trial. Cerebrovascular Diseases, 2014, 37, 263-267.	0.8	24
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84	The Role of Homocysteineâ€™Lowering Bâ€™Vitamins in the Primary Prevention of Cardiovascular Disease. Cardiovascular Therapeutics, 2014, 32, 130-138.	1.1	97
85	Psychiatric signs and symptoms in treatable inborn errors of metabolism. Journal of Neurology, 2014, 261, 559-568.	1.8	33
86	Biomarker responses to folic acid intervention in healthy adults: a meta-analysis of randomized controlled trials. American Journal of Clinical Nutrition, 2014, 99, 96-106.	2.2	33
87	Cystathionine Beta-Synthase Deficiency Heralded by Cerebral Sinus Venous Thrombosis and Stroke. Pediatric Neurology, 2014, 50, 108-111.	1.0	6
88	Effect of Genetic Variants Associated With Plasma Homocysteine Levels on Stroke Risk. Stroke, 2014, 45, 1920-1924.	1.0	30
89	Vitamin B and its derivatives for diabetic kidney disease. The Cochrane Library, 2015, 1, CD009403.	1.5	15
90	Impact of Physical Activity and Cardiovascular Fitness on Total Homocysteine Concentrations in European Adolescents: The HELENA Study. Journal of Nutritional Science and Vitaminology, 2015, 61, 45-54.	0.2	5
91	Role of Nox inhibitors plumbagin, <sc>ML</sc>090 and gp91dsâ€™tat peptide on homocysteine thiolactone induced blood vessel dysfunction. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 860-864.	0.9	22
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94	Differential Effect of B-Vitamin Therapy by Antiplatelet Use on Risk of Recurrent Vascular Events After Stroke. <i>Stroke</i> , 2015, 46, 870-873.	1.0	11
95	Homocysteine-lowering interventions for preventing cardiovascular events. , 2015, 1, CD006612.		94
96	Efficacy of folic acid in primary prevention of stroke among patients with hypertension in China. <i>Journal of the American Society of Hypertension</i> , 2015, 9, 665-667.	2.3	2
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98	Hormones, herbal preparations and nutraceuticals for a better life after the menopause: part II. <i>Climacteric</i> , 2015, 18, 364-371.	1.1	14
99	Methylation Reactions, the Redox Balance and Atherothrombosis: The Search for a Link with Hydrogen Sulfide. <i>Seminars in Thrombosis and Hemostasis</i> , 2015, 41, 423-432.	1.5	7
100	The Therapeutic Value of Laboratory Testing for Hypercoagulable States in Secondary Stroke Prevention. <i>Neurologic Clinics</i> , 2015, 33, 501-513.	0.8	9
101	Efficacy of Folic Acid Therapy in Primary Prevention of Stroke Among Adults With Hypertension in China. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 1325.	3.8	577
102	Benefit of vitamin B-12 supplementation in asymptomatic elderly: a matter of endpoints. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 529-530.	2.2	11
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104	Intakes of Folate and Vitamin B12 and Biomarkers of Status in the Very Old: The Newcastle 85+ Study. <i>Nutrients</i> , 2016, 8, 604.	1.7	26
105	Hyperhomocysteinemia induced by excessive methionine intake promotes rupture of cerebral aneurysms in ovariectomized rats. <i>Journal of Neuroinflammation</i> , 2016, 13, 165.	3.1	25
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107	Chronic Kidney Disease Induces Inflammatory CD40 ⁺ Monocyte Differentiation via Homocysteine Elevation and DNA Hypomethylation. <i>Circulation Research</i> , 2016, 119, 1226-1241.	2.0	88
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109	Dietary supplements and disease prevention – a global overview. <i>Nature Reviews Endocrinology</i> , 2016, 12, 407-420.	4.3	152
111	Folic Acid Supplementation and the Risk of Cardiovascular Diseases: A Meta-Analysis of Randomized Controlled Trials. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	183

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112	Homocysteine lowering for stroke prevention: Unravelling the complexity of the evidence. <i>International Journal of Stroke</i> , 2016, 11, 744-747.	2.9	38
113	The andrologist's contribution to a better life for ageing men: part 2. <i>Andrologia</i> , 2016, 48, 99-110.	1.0	2
114	Folic Acid Therapy Reduces the First Stroke Risk Associated With Hypercholesterolemia Among Hypertensive Patients. <i>Stroke</i> , 2016, 47, 2805-2812.	1.0	59
115	Interventions for lowering plasma homocysteine levels in dialysis patients. <i>The Cochrane Library</i> , 2016, 2016, CD004683.	1.5	21
116	Hyposalivation and dietary nutrient intake among community-based older Japanese. <i>Geriatrics and Gerontology International</i> , 2016, 16, 500-507.	0.7	50
117	An evaluation of clinical pharmacist service on a neurology care unit. <i>International Journal of Clinical Pharmacy</i> , 2016, 38, 30-33.	1.0	15
118	Effect of B-vitamins on stroke risk among individuals with vascular disease who are not on antiplatelets: A meta-analysis. <i>International Journal of Stroke</i> , 2016, 11, 206-211.	2.9	29
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120	Homocysteine, hyperhomocysteinemia and vascular contributions to cognitive impairment and dementia (VCID). <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1008-1017.	1.8	97
121	Homocysteine, methylenetetrahydrofolate reductase, folate status and atherothrombosis: A mechanistic and clinical perspective. <i>Vascular Pharmacology</i> , 2016, 78, 1-9.	1.0	60
122	Fruit and vegetables consumption is associated with higher vitamin intake and blood vitamin status among European adolescents. <i>European Journal of Clinical Nutrition</i> , 2017, 71, 458-467.	1.3	26
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124	Hydrogen sulfide in stroke: Protective or deleterious?. <i>Neurochemistry International</i> , 2017, 105, 1-10.	1.9	25
125	B-vitamin and choline supplementation increases neuroplasticity and recovery after stroke. <i>Neurobiology of Disease</i> , 2017, 103, 89-100.	2.1	54
126	Vitamin supplements in type 2 diabetes mellitus management: A review. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2017, 11, S589-S595.	1.8	17
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128	Reprint of: Hydrogen sulfide in stroke: Protective or deleterious?. <i>Neurochemistry International</i> , 2017, 107, 78-87.	1.9	9
129	Folic Acid Supplementation for Stroke Prevention in Patients With Cardiovascular Disease. <i>American Journal of the Medical Sciences</i> , 2017, 354, 379-387.	0.4	36

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130	Alamandine reverses hyperhomocysteinemia-induced vascular dysfunction via PKA-dependent mechanisms. <i>Cardiovascular Therapeutics</i> , 2017, 35, e12306.	1.1	32
131	Homocysteine-lowering interventions for preventing cardiovascular events. <i>The Cochrane Library</i> , 2021, 2021, CD006612.	1.5	117
132	Riboflavin, MTHFR genotype and blood pressure: A personalized approach to prevention and treatment of hypertension. <i>Molecular Aspects of Medicine</i> , 2017, 53, 2-9.	2.7	75
133	Inflammation Friend or Foe?. , 2017, , 192-241.		2
134	The Impact of Homocysteine, Vitamin B12, and Vitamin D Levels on Functional Outcome after First-Ever Ischaemic Stroke. <i>BioMed Research International</i> , 2017, 2017, 1-6.	0.9	25
135	Homocysteine and Non-Cardiac Vascular Disease. <i>Current Pharmaceutical Design</i> , 2017, 23, 3224-3232.	0.9	24
136	Patterns of plant and animal protein intake are strongly associated with cardiovascular mortality: the Adventist Health Study-2 cohort. <i>International Journal of Epidemiology</i> , 2018, 47, 1603-1612.	0.9	97
137	Significant interaction of hypertension and homocysteine on neurological severity in first-ever ischemic stroke patients. <i>Journal of the American Society of Hypertension</i> , 2018, 12, 534-541.	2.3	8
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140	Inflammatory Markers and Severity of Intracerebral Hemorrhage. <i>Cureus</i> , 2018, 10, e3529.	0.2	24
141	B Vitamins and Ageing. <i>Sub-Cellular Biochemistry</i> , 2018, 90, 451-470.	1.0	34
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143	Association Between Folic Acid Supplementation and Retinal Atherosclerosis in Chinese Adults With Hypertension Complicated by Diabetes Mellitus. <i>Frontiers in Pharmacology</i> , 2018, 9, 1159.	1.6	6
144	Nutrition, Energy Expenditure, Dysphagia, and Self-Efficacy in Stroke Rehabilitation: A Review of the Literature. <i>Brain Sciences</i> , 2018, 8, 218.	1.1	39
145	Association of H-Type Hypertension with Stroke Severity and Prognosis. <i>BioMed Research International</i> , 2018, 2018, 1-7.	0.9	20
146	Supplemental Vitamins and Minerals for CVD Prevention and Treatment. <i>Journal of the American College of Cardiology</i> , 2018, 71, 2570-2584.	1.2	184
147	Association of High Blood Homocysteine and Risk of Increased Severity of Ischemic Stroke Events. <i>International Journal of Angiology</i> , 2019, 28, 034-038.	0.2	16

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149	Ly6C ⁺ Inflammatory Monocyte Differentiation Partially Mediates Hyperhomocysteinemia-Induced Vascular Dysfunction in Type 2 Diabetic db/db Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2097-2119.	1.1	61
150	Putative Nox2 inhibitors worsen homocysteine-induced impaired acetylcholine-mediated relaxation. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2019, 29, 856-864.	1.1	5
151	Hyperhomocysteinemia is an independent risk factor of atherosclerosis in patients with metabolic syndrome. <i>Diabetology and Metabolic Syndrome</i> , 2019, 11, 87.	1.2	29
152	Consumption of a multivitamin/multimineral supplement for 4 weeks improves nutritional status and markers of cardiovascular health. <i>Journal of Functional Foods</i> , 2019, 62, 103511.	1.6	2
153	The Pollsâ€™Trends. <i>Public Opinion Quarterly</i> , 0, , .	0.9	28
154	Evidence of a Role for One-Carbon Metabolism in Blood Pressure: Can B Vitamin Intervention Address the Genetic Risk of Hypertension Owing to a Common Folate Polymorphism?. <i>Current Developments in Nutrition</i> , 2020, 4, nzz102.	0.1	17
155	Patterns of amino acid intake are strongly associated with cardiovascular mortality, independently of the sources of protein. <i>International Journal of Epidemiology</i> , 2020, 49, 312-321.	0.9	17
156	The effect of folate and VitB12 in the treatment of MCI patients with hyperhomocysteinemia. <i>Journal of Clinical Neuroscience</i> , 2020, 81, 65-69.	0.8	6
157	Asymptomatic Carotid Stenosis and Risk of Stroke (ACSRS) study: what have we learned from it?. <i>Annals of Translational Medicine</i> , 2020, 8, 1271-1271.	0.7	16
158	<p>Metformin Treatment: A Potential Cause of Megaloblastic Anemia in Patients with Type 2 Diabetes Mellitus</p>. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2020, Volume 13, 3873-3878.	1.1	8
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