Mohammed Al-Omran

List of Publications by Year
in descending order

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Version: 2024-02-01

132 papers	4,659 citations	117453 34 h-index	118652 62 g-index
133 all docs	133 docs citations	133 times ranked	6880 citing authors

#	Article	IF	Citations
1	Effect of Empagliflozin on Left Ventricular Mass in Patients With Type 2 Diabetes Mellitus and Coronary Artery Disease. Circulation, 2019, 140, 1693-1702.	1.6	371
2	Effects of Nitric Oxide on Cell Proliferation. Journal of the American College of Cardiology, 2013, 62, 89-95.	1.2	219
3	Enteral versus parenteral nutrition for acute pancreatitis. The Cochrane Library, 2010, , CD002837.	1.5	209
4	Effect of Empagliflozin on Left Ventricular Mass and Diastolic Function in Individuals With Diabetes: An Important Clue to the EMPA-REG OUTCOME Trial?. Diabetes Care, 2016, 39, e212-e213.	4.3	190
5	Prevalence and Causes of Attrition Among Surgical Residents. JAMA Surgery, 2017, 152, 265.	2.2	188
6	Adiponectin primes human monocytes into alternative anti-inflammatory M2 macrophages. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H656-H663.	1.5	186
7	Concise Review: Cell Therapy for Critical Limb Ischemia: An Integrated Review of Preclinical and Clinical Studies. Stem Cells, 2018, 36, 161-171.	1.4	154
8	Cardiovascular Outcomes and Safety of Empagliflozin in Patients With Type 2 Diabetes Mellitus and Peripheral Artery Disease. Circulation, 2018, 137, 405-407.	1.6	131
9	BRCA1 is an essential regulator of heart function and survival following myocardial infarction. Nature Communications, 2011, 2, 593.	5.8	114
10	Adiponectin deficiency promotes endothelial activation and profoundly exacerbates sepsis-related mortality. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E658-E664.	1.8	104
11	CXCR4/YY1 inhibition impairs VEGF network and angiogenesis during malignancy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14484-14489.	3.3	104
12	A systematic review and meta-analysis of the long-term outcomes of endovascular versus open repair of abdominal aortic aneurysm. Journal of Vascular Surgery, 2019, 70, 954-969.e30.	0.6	103
13	Intact endothelial autophagy is required to maintain vascular lipid homeostasis. Aging Cell, 2016, 15, 187-191.	3.0	99
14	Role of Endothelium in Doxorubicin-Induced Cardiomyopathy. JACC Basic To Translational Science, 2018, 3, 861-870.	1.9	98
15	The Essential Autophagy Gene ATG7 Modulates Organ Fibrosis via Regulation of Endothelial-to-Mesenchymal Transition. Journal of Biological Chemistry, 2015, 290, 2547-2559.	1.6	87
16	Statins Reduce Abdominal Aortic Aneurysm Growth, Rupture, and Perioperative Mortality: A Systematic Review and Metaâ€Analysis. Journal of the American Heart Association, 2018, 7, e008657.	1.6	87
17	Systematic review of contemporary outcomes of endovascular and open thoracoabdominal aortic aneurysm repair. Journal of Vascular Surgery, 2020, 71, 1396-1412.e12.	0.6	85
18	Vascular Thoracic Outlet Syndrome. Seminars in Thoracic and Cardiovascular Surgery, 2016, 28, 151-157.	0.4	78

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19	Endothelial progenitor cells as therapeutic agents in the microcirculation: An update. Atherosclerosis, 2011, 215, 9-22.	0.4	69
20	SGLT2 Inhibition with Empagliflozin Increases Circulating Provascular Progenitor Cells in People with Type 2 Diabetes Mellitus. Cell Metabolism, 2019, 30, 609-613.	7.2	69
21	The SGLT2 inhibitor empagliflozin reduces mortality and prevents progression in experimental pulmonary hypertension. Biochemical and Biophysical Research Communications, 2020, 524, 50-56.	1.0	69
22	Efficacy of a Guideline-Recommended Risk-Reduction Program to Improve Cardiovascular and Limb Outcomes in Patients With Peripheral Arterial Disease. JAMA Surgery, 2016, 151, 742.	2.2	65
23	A systematic review and meta-analysis of early outcomes after endovascular versus open repair of thoracoabdominal aortic aneurysms. Journal of Vascular Surgery, 2018, 68, 1936-1945.e5.	0.6	55
24	BRCA1 is a novel target to improve endothelial dysfunction and retard atherosclerosis. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 949-960.e4.	0.4	48
25	Population-based secular trends in lower-extremity amputation for diabetes and peripheral artery disease. Cmaj, 2019, 191, E955-E961.	0.9	47
26	Machine learning in vascular surgery: a systematic review and critical appraisal. Npj Digital Medicine, 2022, 5, 7.	5.7	44
27	Antithrombotic Therapy for PeripheralÂArtery Disease. Journal of the American College of Cardiology, 2018, 71, 2450-2467.	1.2	43
28	Outcomes after endovascular versus open thoracoabdominal aortic aneurysm repair: A population-based study. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 516-527.e6.	0.4	42
29	BRCA2 Protein Deficiency Exaggerates Doxorubicin-induced Cardiomyocyte Apoptosis and Cardiac Failure. Journal of Biological Chemistry, 2012, 287, 6604-6614.	1.6	41
30	Comparison of Outcomes in Elective Endovascular Aortic Repair vs Open Surgical Repair of Abdominal Aortic Aneurysms. JAMA Network Open, 2019, 2, e196578.	2.8	39
31	Outcome of revascularization procedures for peripheral arterial occlusive disease in Ontario between 1991 and 1998: a population-based study. Journal of Vascular Surgery, 2003, 38, 279-288.	0.6	38
32	Role of endothelial primary cilia as fluid mechanosensors on vascular health. Atherosclerosis, 2018, 275, 196-204.	0.4	38
33	Canadian Cardiovascular Society 2022 Guidelines for Peripheral Arterial Disease. Canadian Journal of Cardiology, 2022, 38, 560-587.	0.8	38
34	Use of interventional procedures for peripheral arterial occlusive disease in Ontario between 1991 and 1998: a population-based study. Journal of Vascular Surgery, 2003, 38, 289-295.	0.6	37
35	The putative role of autophagy in the pathogenesis of abdominal aortic aneurysms. Atherosclerosis, 2017, 257, 288-296.	0.4	33
36	Loss of vascular smooth muscle cell autophagy exacerbates angiotensin II-associated aortic remodeling. Journal of Vascular Surgery, 2018, 68, 859-871.	0.6	32

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37	Association between perioperative beta blocker use and cancer survival following surgical resection. European Journal of Surgical Oncology, 2018, 44, 1164-1169.	0.5	31
38	Impact of Clinical Trial Results on the Temporal Trends of Carotid Endarterectomy and Stenting From 2002 to 2014. Stroke, 2016, 47, 2923-2930.	1.0	30
39	Association Between Statin Use and Cardiovascular Events After Carotid Artery Revascularization. Journal of the American Heart Association, 2018, 7, e009745.	1.6	30
40	Sex differences in the outcomes of peripheral arterial disease: a population-based cohort study. CMAJ Open, 2016, 4, E124-E131.	1.1	29
41	Association between uric acid levels and cardioâ€renal outcomes and death in patients with type 2 diabetes: A subanalysis of EMPAâ€REG OUTCOME. Diabetes, Obesity and Metabolism, 2020, 22, 1207-1214.	2.2	29
42	One-year cardiovascular event rates in outpatients with atherothrombosis. Steg PG, Bhatt DL, Wilson PW, et al; REACH Registry Investigators. JAMA. 2007;297: 1197-1206. Perspectives in Vascular Surgery and Endovascular Therapy, 2007, 19, 416-417.	0.6	28
43	Osteosarcoma cells induce endothelial cell proliferation during neoâ€angiogenesis. Journal of Cellular Physiology, 2013, 228, 846-852.	2.0	28
44	Surgical Management of Vascular Thoracic Outlet Syndrome: A Teaching Hospital Experience. Annals of Vascular Diseases, 2013, 6, 74-79.	0.2	28
45	Prevalence of Elective and Ruptured Abdominal Aortic Aneurysm Repairs by Age and Sex From 2003 to 2016 in Ontario, Canada. JAMA Network Open, 2018, 1, e185418.	2.8	28
46	Gender differences in faculty rank among academic physicians: a systematic review and meta-analysis. BMJ Open, 2021, 11, e050322.	0.8	28
47	Suboptimal use of statin therapy in elderly patients with atherosclerosis: A population-based study. Journal of Vascular Surgery, 2008, 48, 607-612.e1.	0.6	27
48	Validity of vascular trauma codes at major trauma centres. Canadian Journal of Surgery, 2013, 56, 405-408.	0.5	26
49	Impact of diabetes on carotid artery revascularization. Journal of Vascular Surgery, 2016, 63, 1099-1107.e4.	0.6	26
50	Adiponectin limits monocytic microparticle-induced endothelial activation by modulation of the AMPK, Akt and NFÎºB signaling pathways. Atherosclerosis, 2016, 245, 1-11.	0.4	25
51	True ulnar artery aneurysm of the hand in an 18-month-old boy: A case report. Journal of Vascular Surgery, 2007, 45, 841-843.	0.6	24
52	A global profile of glucose-sensitive endothelial-expressed long non-coding RNAs. Canadian Journal of Physiology and Pharmacology, 2016, 94, 1007-1014.	0.7	23
53	Endothelial long non-coding RNAs regulated by oxidized LDL. Molecular and Cellular Biochemistry, 2017, 431, 139-149.	1.4	23
54	Clinical Decision Making for Endovascular Repair of Abdominal Aortic Aneurysm. Circulation, 2004, 110, e517-23.	1.6	22

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55	Endothelial-specific deletion of autophagy-related 7 (ATG7) attenuates arterial thrombosis in mice. Journal of Thoracic and Cardiovascular Surgery, 2017, 154, 978-988.e1.	0.4	22
56	Knowledge and attitude of physicians in a major teaching hospital towards atherosclerotic risk reduction therapy in patients with peripheral arterial disease. Vascular Health and Risk Management, 2007, 3, 1019-27.	1.0	22
57	Circulating Pro-Vascular Progenitor CellÂDepletion During Type 2 Diabetes. JACC Basic To Translational Science, 2019, 4, 98-112.	1.9	21
58	Perceptions of Canadian Vascular Surgeons toward Pharmacological Risk Reduction in Patients with Peripheral Arterial Disease. Annals of Vascular Surgery, 2006, 20, 555-563.	0.4	20
59	BRCA1 shields vascular smooth muscle cells from oxidative stress. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1946-1955.e1.	0.4	20
60	Association between operator specialty and outcomes after carotid artery revascularization. Journal of Vascular Surgery, 2018, 67, 478-489.e6.	0.6	20
61	A Population-Based Analysis of Diabetes-Related Care Measures, Foot Complications, and Amputation During the COVID-19 Pandemic in Ontario, Canada. JAMA Network Open, 2022, 5, e2142354.	2.8	20
62	Atherosclerotic disease and risk factor modification in Saudi Arabia: a call to action. Vascular Health and Risk Management, 2012, 8, 349.	1.0	19
63	Canagliflozin Improves the Recovery of Blood Flow in an Experimental Model of Severe LimbÂIschemia. JACC Basic To Translational Science, 2018, 3, 327-329.	1.9	19
64	Vascular Regenerative Cell Exhaustion in Diabetes: Translational Opportunities to Mitigate Cardiometabolic Risk. Trends in Molecular Medicine, 2019, 25, 640-655.	3.5	19
65	A randomized trial of icosapent ethyl in ambulatory patients with COVID-19. IScience, 2021, 24, 103040.	1.9	19
66	Validation of Carotid Artery Revascularization Coding in Ontario Health Administrative Databases. Clinical and Investigative Medicine, 2016, 39, 73.	0.3	19
67	Potential benefits of cell therapy in coronary heart disease. Journal of Cardiology, 2013, 62, 267-276.	0.8	18
68	Knowledge of peripheral arterial disease: Results of an intervention to measure and improve PAD knowledge in Toronto. Vascular, 2017, 25, 479-487.	0.4	18
69	Renin-angiotensin system blockade does not attenuate abdominal aortic aneurysm growth, rupture rate, or perioperative mortality after elective repair. Journal of Vascular Surgery, 2018, 67, 629-636.e2.	0.6	18
70	Long-term Outcomes of Carotid Endarterectomy Versus Stenting in a Multicenter Population-based Canadian Study. Annals of Surgery, 2018, 268, 364-373.	2.1	17
71	Lessons from bariatric surgery: Can increased GLP-1 enhance vascular repair during cardiometabolic-based chronic disease?. Reviews in Endocrine and Metabolic Disorders, 2021, 22, 1171-1188.	2.6	17
72	Perceptions of Canadian Vascular Surgeons Toward Pharmacologic Risk Reduction in Patients with Peripheral Artery Disease: 2018 Update. Annals of Vascular Surgery, 2019, 58, 166-173.e4.	0.4	16

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73	A systematic review and meta-analysis of plain versus drug-eluting balloon angioplasty in the treatment of juxta-anastomotic hemodialysis arteriovenous fistula stenosis. Journal of Vascular Surgery, 2020, 71, 1046-1054.e1.	0.6	16
74	Vascular Risk Reduction in Obesity through Reduced Granulocyte Burden and Improved Angiogenic Monocyte Content following Bariatric Surgery. Cell Reports Medicine, 2020, 1, 100018.	3.3	16
75	Peripheral artery disease among Indigenous Canadians: What do we know?. Canadian Journal of Surgery, 2018, 61, 305-310.	0.5	16
76	Investigation of TGFÎ²1-Induced Long Noncoding RNAs in Endothelial Cells. International Journal of Vascular Medicine, 2016, 2016, 1-12.	0.4	15
77	Population-based long-term outcomes of open versus endovascular aortic repair of ruptured abdominal aortic aneurysms. Journal of Vascular Surgery, 2020, 71, 1867-1878.e8.	0.6	15
78	A systematic review and meta-analysis of sex- and gender-based differences in presentation severity and outcomes in adults undergoing major vascular surgery. Journal of Vascular Surgery, 2022, 76, 581-594.e25.	0.6	15
79	Cardiovascular efficacy of liraglutide and semaglutide in individuals with diabetes and peripheral artery disease. Diabetes, Obesity and Metabolism, 2022, 24, 1288-1299.	2.2	14
80	A systematic review of nonoperative management in blunt thoracic aortic injury. Journal of Vascular Surgery, 2019, 70, 1675-1681.e6.	0.6	13
81	Carotid Artery Revascularization. Circulation, 2015, 131, 2226-2231.	1.6	12
82	Optimization of rifampin coating on covered Dacron endovascular stent grafts for infected aortic aneurysms. Journal of Vascular Surgery, 2019, 69, 242-248.e1.	0.6	12
83	Evaluating Quality Metrics and Cost After Discharge. Annals of Surgery, 2019, 270, 378-383.	2.1	12
84	Suboptimal use of risk reduction therapy in peripheral arterial disease patients at a major teaching hospital. Annals of Saudi Medicine, 2011, 31, 371-375.	0.5	12
85	Risk of intracranial hemorrhage after carotid artery stenting versus endarterectomy: a population-based study. Journal of Neurosurgery, 2018, 129, 1522-1529.	0.9	11
86	Home care nursing after elective vascular surgery: an opportunity to reduce emergency department visits and hospital readmission. BMJ Quality and Safety, 2019, 28, 901-907.	1.8	11
87	Effects of long-term chloroquine administration on the natural history of aortic aneurysms in mice. Canadian Journal of Physiology and Pharmacology, 2015, 93, 641-648.	0.7	10
88	Knowledge gap of peripheral artery disease starts in medical school. Journal of Vascular Surgery, 2019, 70, 241-245.e2.	0.6	10
89	Personalization of Aspirin Therapy Ex Vivo in Patients with Atherosclerosis Using Light Transmission Aggregometry. Diagnostics, 2020, 10, 871.	1.3	10
90	Temporal Trends in Hospitalization for Lower Extremity Peripheral Artery Disease in Ontario: The Importance of Diabetes. Canadian Journal of Cardiology, 2021, 37, 1507-1512.	0.8	10

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91	Validation of abdominal aortic aneurysm repair codes in Ontario administrative data. Clinical and Investigative Medicine, 2018, 41, E148-E155.	0.3	10
92	Thirty-day hospital readmission and emergency department visits after vascular surgery: a Canadian prospective cohort study. Canadian Journal of Surgery, 2018, 61, 257-263.	0.5	8
93	Validation of Diagnosis and Procedure Codes for Revascularization for Peripheral Artery Disease in Ontario Administrative Databases. Clinical and Investigative Medicine, 2021, 44, E36-43.	0.3	8
94	Adult Stem Cells and the Clinical Arena: Are we Able to Widely Use this Therapy in Patients with Chronic Limbs Arteriopathy and Ischemic Ulcers without Possibility of Revascularization?. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2012, 10, 99-108.	0.4	8
95	COMPASS for Vascular Surgeons. Current Opinion in Cardiology, 2019, 34, 178-184.	0.8	7
96	Disruption of endothelial cell intraflagellar transport protein 88 exacerbates doxorubicin-induced cardiotoxicity. Life Sciences, 2020, 260, 118216.	2.0	7
97	Health care costs of endovascular compared with open thoracoabdominal aortic aneurysm repair. Journal of Vascular Surgery, 2021, 73, 1934-1941.e1.	0.6	7
98	Lower socioeconomic status is associated with higher rates of critical limb ischemia presentation and post-revascularization amputation. Journal of Vascular Surgery, 2022, 75, 1121-1122.	0.6	7
99	Poor knowledge of peripheral arterial disease among the Saudi population: A cross-sectional study. Vascular, 2017, 25, 86-91.	0.4	6
100	Regional health care services and rates of lower extremity amputation related to diabetes and peripheral artery disease: an ecological study. CMAJ Open, 2020, 8, E659-E666.	1.1	6
101	Therapeutic Effect of an Underwater Exercise Program for Patients with Peripheral Arterial Disease. Journal of Physical Therapy Science, 2012, 24, 687-690.	0.2	5
102	Aneurysms of the foot arteries. Vascular, 2016, 24, 109-112.	0.4	5
103	Short-term outcomes of combined neuraxial and general anaesthesia versus general anaesthesia alone for elective open abdominal aortic aneurysm repair: retrospective population-based cohort studyâ€. British Journal of Anaesthesia, 2020, 124, 544-552.	1.5	5
104	Loss of endothelial cell-specific autophagy-related protein 7 exacerbates doxorubicin-induced cardiotoxicity. Biochemistry and Biophysics Reports, 2021, 25, 100926.	0.7	5
105	Perceptions of Canadian vascular surgeons toward artificial intelligence and machine learning. Journal of Vascular Surgery Cases and Innovative Techniques, 2022, 8, 466-472.	0.3	5
106	Rivaroxaban in peripheral artery disease: The new kid on the block?. Journal of Vascular Surgery, 2018, 67, 985-986.	0.6	4
107	Trends in elective and ruptured abdominal aortic aneurysm repair by practice setting in Ontario, Canada, from 2003 to 2016: a population-based time-series analysis. CMAJ Open, 2019, 7, E379-E384.	1.1	4
108	A call for integrated foot care and amputation prevention pathways for patients with diabetes and peripheral arterial disease across Canada. Canadian Journal of Public Health, 2019, 110, 253-255.	1.1	4

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109	Harnessing the full potential of hospital-based data to support surgical quality improvement. BMJ Open Quality, 2021, 10, e001178.	0.4	4
110	Trends in abdominal aortic aneurysm repair in the era of endovascular technology in Ontario. Journal of Vascular Surgery, 2011, 53, 227-228.	0.6	3
111	The impact of randomized trial results on abdominal aortic aneurysm repair rates from 2003 to 2016: A population-based time-series analysis. Vascular, 2019, 27, 417-426.	0.4	3
112	Vascular injury-related in-hospital mortality in Ontario between 1991 and 2009. Journal of International Medical Research, 2021, 49, 030006052098772.	0.4	3
113	Trends in operative case volumes of Canadian vascular surgery trainees. Journal of Vascular Surgery, 2022, 75, 687-694.e3.	0.6	3
114	Management and In-hospital Mortality of 2235 Patients With a Traumatic Intimal Tear of the Thoracic Aorta. Annals of Surgery, 2020, Publish Ahead of Print, .	2.1	3
115	Aspirin nonsensitivity in patients with vascular disease: Assessment by light transmission aggregometry (aspirin nonsensitivity in vascular patients). Research and Practice in Thrombosis and Haemostasis, 2021, 5, e12618.	1.0	3
116	Thoracic outlet syndrome. Cmaj, 2016, 188, 1179-1179.	0.9	2
117	A survey of Canadian surgeons on the indications for home care nursing following vascular surgery. Canadian Journal of Surgery, 2021, 64, E149-E154.	0.5	2
118	Risk-Reduction Program for Cardiovascular and Limb Events in Patients With Peripheral Arterial Diseaseâ€"Reply. JAMA Surgery, 2016, 151, 990.	2.2	1
119	Temporal trends in vascular trauma in Ontario, 1991-2009: a population-based study. CMAJ Open, 2016, 4, E309-E315.	1.1	1
120	Delayed Aortic Stent Collapse in Blunt Traumatic Aortic Injury Repair. Aorta, 2019, 07, 129-136.	0.1	1
121	Outcomes of abdominal aortic aneurysm repair among patients with rheumatoid arthritis. Journal of Vascular Surgery, 2021, 73, 1261-1268.e5.	0.6	1
122	Life and limb protection with dual anti-thrombotic pathway inhibition: COMPASS ushers in a new day in atherothrombotic risk reduction. Med, 2021, 2, 233-242.	2.2	1
123	A multicenter retrospective cohort study of blunt traumatic injury to the common or internal carotid arteries. Injury, 2022, 53, 152-159.	0.7	1
124	Elevated plasma levels of NT-proBNP in ambulatory patients with peripheral arterial disease. PLoS ONE, 2021, 16, e0253792.	1.1	1
125	Should all patients with peripheral arterial disease be treated with an angiotensin-converting enzyme inhibitor?. Canadian Journal of Cardiology, 2005, 21, 189-93.	0.8	1
126	ICD-10 Diagnostic Coding for Identifying Hospitalizations Related to a Diabetic Foot Ulcer. Clinical and Investigative Medicine, 2021, 44, E11-16.	0.3	1

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127	Peripheral Arterial Disease Evaluation in the Saudi Project for Assessment of Coronary Events Registry Reveals a Missed Opportunity in Preventing the Adverse Cardiovascular Outcomes: A Pilot Study (SPACE-PAD-I). Clinical Medicine Cardiology, 2008, 2, CMC.S421.	0.1	0
128	First rib removal and decompression of the thoracic outlet as an indication to facilitate hemodialysis. Journal of Vascular Surgery Cases and Innovative Techniques, 2016, 2, 111-113.	0.3	0
129	Response to: â€œCarotid Endarterectomy Versus Stenting to Treat Carotid Stenosis: There is More to Than Meets the Eyeâ€: Annals of Surgery, 2018, 268, e32-e33.	2.1	0
130	Letter by Salata et al Regarding Article, â€œUtilization of Advanced Cardiovascular Therapies in the United States and Canada: An Observational Study of New York and Ontario Administrative Dataâ€: Circulation: Cardiovascular Quality and Outcomes, 2020, 13, e006569.	0.9	0
131	A technical guide to supraclavicular thoracic outlet decompression. Journal of Vascular Surgery Cases and Innovative Techniques, 2021, 7, 247-248.	0.3	0
132	High-intensity Hospital Utilization Among Adults with Diabetic Foot Ulcers: A Population-Based Study. Canadian Journal of Diabetes, 2021, , .	0.4	0