Tyler Williamson

List of Publications by Year
in descending order

90 papers	2,544 citations	236925 25 h-index	243625 44 g-index
95 all docs	95 docs citations	95 times ranked	4079 citing authors

#	Article	IF	Citations
1	Validating the 8 CPCSSN Case Definitions for Chronic Disease Surveillance in a Primary Care Database of Electronic Health Records. Annals of Family Medicine, 2014, 12, 367-372.	1.9	207
2	Global seroprevalence of SARS-CoV-2 antibodies: A systematic review and meta-analysis. PLoS ONE, 2021, 16, e0252617.	2.5	185
3	SeroTracker: a global SARS-CoV-2 seroprevalence dashboard. Lancet Infectious Diseases, The, 2021, 21, e75-e76.	9.1	175
4	Registry-based randomized controlled trials- what are the advantages, challenges, and areas for future research?. Journal of Clinical Epidemiology, 2016, 80, 16-24.	5.0	163
5	Representativeness of patients and providers in the Canadian Primary Care Sentinel Surveillance Network: a cross-sectional study. CMAJ Open, 2016, 4, E28-E32.	2.4	102
6	Log-binomial models: exploring failed convergence. Emerging Themes in Epidemiology, 2013, 10, 14.	2.7	87
7	From patient care to research: a validation study examining the factors contributing to data quality in a primary care electronic medical record database. BMC Family Practice, 2015, 16, 11.	2.9	78
8	Validation of a case definition for depression in administrative data against primary chart data as a reference standard. BMC Psychiatry, 2019, 19, 9.	2.6	76
9	Marginal structural models in clinical research: when and how to use them?. Nephrology Dialysis Transplantation, 2017, 32, ii84-ii90.	0.7	75
10	Data Resource Profile: National electronic medical record data from the Canadian Primary Care Sentinel Surveillance Network (CPCSSN). International Journal of Epidemiology, 2017, 46, 1091-1092f.	1.9	71
11	Prevalence and management of osteoarthritis in primary care: an epidemiologic cohort study from the Canadian Primary Care Sentinel Surveillance Network. CMAJ Open, 2015, 3, E270-E275.	2.4	59
12	Advancing Concussion Assessment in Pediatrics (A-CAP): a prospective, concurrent cohort, longitudinal study of mild traumatic brain injury in children: protocol study. BMJ Open, 2017, 7, e017012.	1.9	54
13	Prevalence and Epidemiology of Diabetes in Canadian Primary Care Practices: A Report from the Canadian Primary Care Sentinel Surveillance Network. Canadian Journal of Diabetes, 2014, 38, 179-185.	0.8	51
14	Social support and maternal mental health at 4 months and 1 year postpartum: analysis from the All Our Families cohort. Journal of Epidemiology and Community Health, 2018, 72, 933-939.	3.7	48
15	Primary care electronic medical records: a new data source for research in Canada. Cmaj, 2015, 187, 239-240.	2.0	43
16	Impact of Donor and Recipient Cytomegalovirus Serostatus on Outcomes of Antithymocyte Globulinâ€"Conditioned Hematopoietic Cell Transplantation. Biology of Blood and Marrow Transplantation, 2016, 22, 1654-1663.	2.0	40
17	Association of Levels of Specialized Care With Risk of Premature Mortality in Patients With Epilepsy. JAMA Neurology, 2019, 76, 1352.	9.0	40
18	Prevalence and management of hypertension in primary care practices with electronic medical records: a report from the Canadian Primary Care Sentinel Surveillance Network. CMAJ Open, 2015, 3, E76-E82.	2.4	39

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19	Functional Outcome Prediction in Ischemic Stroke: A Comparison of Machine Learning Algorithms and Regression Models. Frontiers in Neurology, 2020, 11, 889.	2.4	38
20	Prevalence, characteristics, and patterns of patients with multimorbidity in primary care: a retrospective cohort analysis in Canada. British Journal of General Practice, 2019, 69, e647-e656.	1.4	37
21	The diagnosis of depression and its treatment in Canadian primary care practices: an epidemiological study. CMAJ Open, 2014, 2, E337-E342.	2.4	35
22	Prevalence of Hypertension, Treatment, and Blood Pressure Targets in Canada Associated With the 2017 American College of Cardiology and American Heart Association Blood Pressure Guidelines. JAMA Network Open, 2019, 2, e190406.	5.9	35
23	Longitudinal SARS-CoV-2 RNA wastewater monitoring across a range of scales correlates with total and regional COVID-19 burden in a well-defined urban population. Water Research, 2022, 220, 118611.	11.3	34
24	Examining the Prevalence and Patterns of Multimorbidity in Canadian Primary Healthcare: A Methodologic Protocol using a National Electronic Medical Record Database. Journal of Comorbidity, 2015, 5, 150-161.	3.9	29
25	Chronic obstructive pulmonary disease in primary care: an epidemiologic cohort study from the Canadian Primary Care Sentinel Surveillance Network. CMAJ Open, 2015, 3, E15-E22.	2.4	29
26	Mother's level of confidence in caring for her late preterm infant: A mixed methods study. Journal of Clinical Nursing, 2018, 27, e1120-e1133.	3.0	28
27	Predicting death by suicide following an emergency department visit for parasuicide with administrative health care system data and machine learning. EClinicalMedicine, 2020, 20, 100281.	7.1	25
28	Increasing concentration of COVID-19 by socioeconomic determinants and geography in Toronto, Canada: an observational study. Annals of Epidemiology, 2022, 65, 84-92.	1.9	25
29	Patterns of change in anxiety and depression during pregnancy predict preterm birth. Journal of Affective Disorders, 2018, 227, 71-78.	4.1	24
30	Risk factors for post‐transplant lymphoproliferative disorder after Thymoglobulin‐conditioned hematopoietic cell transplantation. Clinical Transplantation, 2018, 32, e13150.	1.6	24
31	Are We Asking Patients if They Smoke?. American Journal of Preventive Medicine, 2015, 49, 264-268.	3.0	23
32	Utility of linking primary care electronic medical records with Canadian census data to study the determinants of chronic disease: an example based on socioeconomic status and obesity. BMC Medical Informatics and Decision Making, 2016, 16, 32.	3.0	22
33	Loss of tumour-specific ATM protein expression is an independent prognostic factor in early resected NSCLC. Oncotarget, 2017, 8, 38326-38336.	1.8	22
34	Playing Nice: Improving the Professional Climate Between Physicians and Midwives in the Calgary Area. Journal of Obstetrics and Gynaecology Canada, 2014, 36, 590-597.	0.7	20
35	Exploration of association rule mining for coding consistency and completeness assessment in inpatient administrative health data. Journal of Biomedical Informatics, 2018, 79, 41-47.	4.3	20
36	Control of glycemia and blood pressure in British adults with diabetes mellitus and subsequent therapy choices: a comparison across health states. Cardiovascular Diabetology, 2018, 17, 27.	6.8	20

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37	MethodCompare: An R package to assess bias and precision in method comparison studies. Statistical Methods in Medical Research, 2019, 28, 2557-2565.	1.5	18
38	Prevalence and management of dementia in primary care practices with electronic medical records: a report from the Canadian Primary Care Sentinel Surveillance Network. CMAJ Open, 2016, 4, E177-E184.	2.4	17
39	Recognizing misclassification bias in research and medical practice. Family Practice, 2019, 36, 804-807.	1.9	17
40	Trajectories of social support in pregnancy and early postpartum: findings from the All Our Families cohort. Social Psychiatry and Psychiatric Epidemiology, 2020, 55, 259-267.	3.1	17
41	Predicting death by suicide using administrative health care system data: Can recurrent neural network, one-dimensional convolutional neural network, and gradient boosted trees models improve prediction performance?. Journal of Affective Disorders, 2020, 264, 107-114.	4.1	16
42	Prevalence of toddler, child and adolescent overweight and obesity derived from primary care electronic medical records: an observational study. CMAJ Open, 2016, 4, E538-E544.	2.4	15
43	Machine learning for identification of frailty in Canadian primary care practices. International Journal of Population Data Science, 2021, 6, 1650.	0.1	15
44	Validity of ICD-10 codes for COVID-19 patients with hospital admissions or ED visits in Canada: a retrospective cohort study. BMJ Open, 2022, 12, e057838.	1.9	15
45	Association between registered nurse staffing and management outcomes of patients with type 2 diabetes within primary care: a cross-sectional linkage study. CMAJ Open, 2016, 4, E264-E270.	2.4	14
46	Manual review of electronic medical records as a reference standard for case definition development: a validation study. CMAJ Open, 2017, 5, E830-E833.	2.4	14
47	Use of Pharmacologic Sleep Aids and Stimulants Among Emergency Medicine Staff Physicians inÂaÂCanadian Tertiary Care Setting: A Web-BasedÂSurvey. Annals of Emergency Medicine, 2019, 73, 325-329.	0.6	14
48	Neighbourhood socioeconomic status modifies the association between anxiety and depression during pregnancy and preterm birth: a Community-based Canadian cohort study. BMJ Open, 2020, 10, e031035.	1.9	14
49	Single and mixed dyslipidaemia in Canadian primary care settings: findings from the Canadian primary care sentinel surveillance network database. BMJ Open, 2015, 5, e007954.	1.9	13
50	Biasplot: A Package to Effective Plots to Assess Bias and Precision in Method Comparison Studies. The Stata Journal, 2017, 17, 208-221.	2.2	13
51	Predicting death by suicide using administrative health care system data: Can feedforward neural network models improve upon logistic regression models?. Journal of Affective Disorders, 2019, 257, 741-747.	4.1	13
52	Developing a case definition for type 1 diabetes mellitus in a primary care electronic medical record database: an exploratory study. CMAJ Open, 2019, 7, E246-E251.	2.4	13
53	Working in a bubble: How can businesses reopen while limiting the risk of COVID-19 outbreaks?. Cmaj, 2020, 192, E1362-E1366.	2.0	11
54	Position Statement on Population Data Science:. International Journal of Population Data Science, 2018, 3, 415.	0.1	11

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55	Stringency of containment and closures on the growth of SARS-CoV-2 in Canada prior to accelerated vaccine roll-out. International Journal of Infectious Diseases, 2022, 118, 73-82.	3.3	11
56	Team composition and chronic disease management within primary healthcare practices in eastern Ontario: an application of the Measuring Organizational Attributes of Primary Health Care Survey. Primary Health Care Research and Development, 2018, 19, 622-628.	1.2	10
57	The Multimorbidity Cluster Analysis Tool: Identifying Combinations and Permutations of Multiple Chronic Diseases Using a Record-Level Computational Analysis. Journal of Innovation in Health Informatics, 2017, 24, 339.	0.9	9
58	Does neighborhood socioeconomic status predict the risk of preterm birth? A community-based Canadian cohort study. BMJ Open, 2019, 9, e025341.	1.9	9
59	Impact of an education and multilevel social comparison–based intervention bundle on use of routine blood tests in hospitalised patients at an academic tertiary care hospital: a controlled pre-intervention post-intervention study. BMJ Quality and Safety, 2020, 29, 1.4-2.	3.7	9
60	Characterizing patients with high use of the primary and tertiary care systems: A retrospective cohort study. Health Policy, 2020, 124, 291-297.	3.0	9
61	Primary Care Pathway for Childhood Asthma: Protocol for a Randomized Cluster-Controlled Trial. JMIR Research Protocols, 2016, 5, e37.	1.0	9
62	Methods to improve the quality of smoking records in a primary care EMR database: exploring multiple imputation and pattern-matching algorithms. BMC Medical Informatics and Decision Making, 2020, 20, 56.	3.0	8
63	Assessment of anxiety during pregnancy: are existing multiple anxiety scales suitable and comparable in measuring anxiety during pregnancy?. Journal of Psychosomatic Obstetrics and Gynaecology, 2021, 42, 140-146.	2.1	8
64	Strategies for working across Canadian practice-based research and learning networks (PBRLNs) in primary care: focus on frailty. BMC Family Practice, 2021, 22, 220.	2.9	8
65	Variation in Maternal Co–morbidities and Obstetric Interventions across Area–Level Socio–economic Status: A Cross–Sectional Study. Paediatric and Perinatal Epidemiology, 2017, 31, 274-283.	1.7	7
66	Quantitative meta-analysis of maternal prenatal salivary cortisol and newborn birthweight does not identify effect of fetal sex. Psychoneuroendocrinology, 2019, 106, 117-121.	2.7	7
67	Primary care EMR and administrative data linkage in Alberta, Canada: describing the suitability for hypertension surveillance. BMJ Health and Care Informatics, 2020, 27, e100161.	3.0	7
68	Perceived usefulness of learning strategies by children with Tourette syndrome plus, their parents and their teachers. Health Education Journal, 2013, 72, 263-275.	1.2	6
69	Advantages of a Warfarin Protocol for Long-term Care Pharmacists: a Retrospective Cohort Study. Canadian Geriatrics Journal, 2016, 19, 40-49.	1.2	6
70	Group B streptococcus (GBS) is an important pathogen in human disease- but what about in cystic fibrosis?. BMC Infectious Diseases, 2017, 17, 660.	2.9	6
71	Validating a case definition for adult asthma in primary care electronic medical records. Npj Primary Care Respiratory Medicine, 2020, 30, 24.	2.6	6
72	Trajectory Modeling with Latent Groups: Potentials and Pitfalls. Current Epidemiology Reports, 2020, 7, 171-178.	2.4	5

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73	The role of agency in the implementation of Isoniazid Preventive Therapy (IPT): Lessons from oMakoti in uMgungundlovu District, South Africa. PLoS ONE, 2018, 13, e0193571.	2.5	5
74	Healthy food prescription incentive programme for adults with type 2 diabetes who are experiencing food insecurity: protocol for a randomised controlled trial, modelling and implementation studies. BMJ Open, 2022, 12, e050006.	1.9	5
75	A data quality assessment to inform hypertension surveillance using primary care electronic medical record data from Alberta, Canada. BMC Public Health, 2021, 21, 264.	2.9	4
76	Visit-to-visit blood pressure variability is common in primary care patients: Retrospective cohort study of 221,803 adults. PLoS ONE, 2021, 16, e0248362.	2.5	4
77	Chronic obstructive pulmonary disease as a risk factor in primary care: a Canadian retrospective cohort study. Npj Primary Care Respiratory Medicine, 2021, 31, 37.	2.6	4
78	Guiding the reporting of studies that use routinely collected health data. Cmaj, 2016, 188, 559-560.	2.0	3
79	Developing and Validating a Primary Care EMR-based Frailty Definition using Machine Learning. International Journal of Population Data Science, 2020, 5, 1344.	0.1	3
80	Reporting of Model Performance and Statistical Methods in Studies That Use Machine Learning to Develop Clinical Prediction Models: Protocol for a Systematic Review. JMIR Research Protocols, 2022, 11, e30956.	1.0	3
81	High incidence of hematologic malignancy relapse after allogeneic transplantation in patients with low Epstein-Barr virus–specific T-cell counts. Cytotherapy, 2019, 21, 886-894.	0.7	2
82	Pelvic floor disorders in women who consult primary care clinics: development and validation of case definitions using primary care electronic medical records. CMAJ Open, 2020, 8, E414-E419.	2.4	2
83	Repeated measures discriminant analysis using multivariate generalized estimation equations. Statistical Methods in Medical Research, 2022, 31, 646-657.	1.5	2
84	Data on coding association rules from an inpatient administrative health data coded by International classification of disease - 10th revision (ICD-10) codes. Data in Brief, 2018, 18, 710-712.	1.0	1
85	Characteristics associated with pediatric growth measurement collection in electronic medical records: a retrospective observational study. BMC Family Practice, 2020, 21, 191.	2.9	1
86	Hospital costs of Canadian cystic fibrosis patients. Canadian Journal of Respiratory, Critical Care, and Sleep Medicine, 2022, 6, 145-152.	0.5	1
87	Development of a case definition for hearing loss in community-based older adults: a cross-sectional validation study. CMAJ Open, 2021, 9, E796-E801.	2.4	1
88	Connect 2 Care, a Novel Community Outreach Program for Vulnerably Housed Patients With High Acute Care Use: A Mixed-Methods Study Protocol. Frontiers in Public Health, 2021, 9, 605695.	2.7	1
89	Primary Care: The Actual Intelligence Required for Artificial Intelligence to Advance Health Care and Improve Health. JMIR Medical Informatics, 2022, 10, e27691.	2.6	1
90	Identifying risk factors for prevalent anal human papillomavirus type 16 infection in women living with HIV. PLoS ONE, 2022, 17, e0268521.	2.5	1