

Christopher Naugler

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

1,729
citations

361413

20
h-index

361022

35
g-index

114
all docs

114
docs citations

114
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	Fasting Time and Lipid Levels in a Community-Based Population. Archives of Internal Medicine, 2012, 172, 1707.	3.8	232
2	Applications of the MapReduce programming framework to clinical big data analysis: current landscape and future trends. BioData Mining, 2014, 7, 22.	4.0	102
3	A multicenter study investigating SARS-CoV-2 in tertiary-care hospital wastewater. viral burden correlates with increasing hospitalized cases as well as hospital-associated transmissions and outbreaks. Water Research, 2021, 201, 117369.	11.3	64
4	The history of pathology informatics: A global perspective. Journal of Pathology Informatics, 2013, 4, 7.	1.7	54
5	Automation and artificial intelligence in the clinical laboratory. Critical Reviews in Clinical Laboratory Sciences, 2019, 56, 98-110.	6.1	54
6	Inappropriate Repeats of Six Common Tests in a Canadian City: A Population Cohort Study Within a Laboratory Informatics Framework. American Journal of Clinical Pathology, 2015, 144, 704-712.	0.7	53
7	Barriers to care in patients with diabetes and poor glycemic control—A cross-sectional survey. PLoS ONE, 2017, 12, e0176135.	2.5	44
8	Defining Benchmarks for Adenoma Detection Rate and Adenomas Per Colonoscopy in Patients Undergoing Colonoscopy Due to a Positive Fecal Immunochemical Test. American Journal of Gastroenterology, 2016, 111, 1743-1749.	0.4	41
9	The incidence of acute myeloid leukemia in Calgary, Alberta, Canada: a retrospective cohort study. BMC Public Health, 2018, 18, 94.	2.9	39
10	A perspective on laboratory utilization management from Canada. Clinica Chimica Acta, 2014, 427, 142-144.	1.1	38
11	Digital pathology: Attitudes and practices in the Canadian pathology community. Journal of Pathology Informatics, 2013, 4, 3.	1.7	36
12	Effectiveness of Alberta Family Integrated Care on infant length of stay in level II neonatal intensive care units: a cluster randomized controlled trial. BMC Pediatrics, 2020, 20, 535.	1.7	36
13	Peripheral blood smear image analysis: A comprehensive review. Journal of Pathology Informatics, 2014, 5, 9.	1.7	35
14	Hemochromatosis: A Neolithic adaptation to cereal grain diets. Medical Hypotheses, 2008, 70, 691-692.	1.5	33
15	Implementation of an intervention to reduce population-based screening for vitamin D deficiency: a cross-sectional study. CMAJ Open, 2017, 5, E36-E39.	2.4	32
16	Association of vitamin D status with socio-demographic factors in Calgary, Alberta: an ecological study using Census Canada data. BMC Public Health, 2013, 13, 316.	2.9	30
17	Chronic lymphocytic leukemia cell segmentation from microscopic blood images using watershed algorithm and optimal thresholding. , 2013, , .		30
18	Interventions at the laboratory level to reduce laboratory test ordering by family physicians: Systematic review. Clinical Biochemistry, 2015, 48, 1358-1365.	1.9	30

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19	Emerging Business Intelligence Framework for a Clinical Laboratory Through Big Data Analytics. , 2015, , 577-602.		29
20	Association of sociodemographic factors and prostate-specific antigen (PSA) testing. Clinical Biochemistry, 2014, 47, 164-169.	1.9	26
21	Influence of diurnal variation and fasting on serum iron concentrations in a community-based population. Clinical Biochemistry, 2017, 50, 1237-1242.	1.9	26
22	Family Integrated Care (FICare) in Level II Neonatal Intensive Care Units: study protocol for a cluster randomized controlled trial. Trials, 2017, 18, 467.	1.6	24
23	An Intervention to Reduce Laboratory Utilization of Referred-Out Tests. Laboratory Medicine, 2012, 43, 164-167.	1.2	20
24	Barriers and Facilitators to Using Statins: A Qualitative Study With Patients and Family Physicians. CJC Open, 2020, 2, 530-538.	1.5	20
25	Potentially Inappropriate Prescribing and Potential Prescribing Omissions in 82,935 Older Hospitalised Adults: Association with Hospital Readmission and Mortality within Six Months. Geriatrics (Switzerland), 2020, 5, 37.	1.7	20
26	Performance of the CellaVision® DM96 system for detecting red blood cell morphologic abnormalities. Journal of Pathology Informatics, 2015, 6, 11.	1.7	19
27	Development and implementation of an online clinical pathway for adult chronic kidney disease in primary care: a mixed methods study. BMC Medical Informatics and Decision Making, 2016, 16, 109.	3.0	19
28	Sociodemographic correlates of fecal immunotesting for colorectal cancer screening. Clinical Biochemistry, 2015, 48, 105-109.	1.9	18
29	What the Doctor Ordered: Improving the Use and Value of Laboratory Testing. SSRN Electronic Journal, 0, , .	0.4	18
30	Sociodemographic correlates of 25-hydroxyvitamin D test utilization in Calgary, Alberta. BMC Health Services Research, 2014, 14, 339.	2.2	16
31	Current usage and future trends in gross digital photography in Canada. BMC Medical Education, 2014, 14, 11.	2.4	15
32	Yearly Clinical Laboratory Test Expenditures for Different Medical Specialties in a Major Canadian City. American Journal of Clinical Pathology, 2015, 144, 97-102.	0.7	15
33	Electronic Medical Record-Based Case Phenotyping for the Charlson Conditions: Scoping Review. JMIR Medical Informatics, 2021, 9, e23934.	2.6	15
34	Application of Support Vector Machine and k-means clustering algorithms for robust chronic lymphocytic leukemia color cell segmentation. , 2013, , .		14
35	Estimated costs of 51 commonly ordered laboratory tests in Canada. Clinical Biochemistry, 2019, 65, 58-60.	1.9	14
36	Preliminary evidence of different selection pressures on cancer cells as compared to normal tissues. Theoretical Biology and Medical Modelling, 2012, 9, 44.	2.1	13

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37	Interventions to Educate Family Physicians to Change Test Ordering. <i>Academic Pathology</i> , 2016, 3, 2374289516633476.	1.1	13
38	Sociodemographic and geospatial associations with community-associated methicillin-resistant <i>Staphylococcus aureus</i> (CA-MRSA) infections in a large Canadian city: an 11-year retrospective study. <i>BMC Public Health</i> , 2019, 19, 914.	2.9	13
39	Human leukocyte antigen class I alleles and the risk of chronic myelogenous leukemia: a meta-analysis. <i>Leukemia and Lymphoma</i> , 2010, 51, 1288-1292.	1.3	12
40	An evolutionary approach to major histocompatibility diversity based on allele supertypes. <i>Medical Hypotheses</i> , 2008, 70, 933-937.	1.5	11
41	Canadian family physician knowledge and attitudes toward laboratory utilization management. <i>Clinical Biochemistry</i> , 2016, 49, 4-7.	1.9	11
42	Sociodemographic Correlates of Clinical Laboratory Test Expenditures in a Major Canadian City. <i>American Journal of Clinical Pathology</i> , 2017, 148, 91-96.	0.7	11
43	Incidence of chronic myeloid leukemia in Calgary, Alberta, Canada. <i>BMC Research Notes</i> , 2018, 11, 780.	1.4	11
44	Incidence of acute lymphocytic leukemia in Calgary, Alberta, Canada: a retrospective cohort study. <i>BMC Research Notes</i> , 2018, 11, 104.	1.4	11
45	Inappropriate repeat testing of complete blood count (CBC) and electrolyte panels in inpatients from Alberta, Canada. <i>Clinical Biochemistry</i> , 2020, 77, 32-35.	1.9	11
46	More than half of abnormal results from laboratory tests ordered by family physicians could be false-positive. <i>Canadian Family Physician</i> , 2018, 64, 202-203.	0.4	11
47	A classification tree approach for improving the utilization of flow cytometry testing of blood specimens for B-cell non-Hodgkin lymphoproliferative disorders. <i>Leukemia and Lymphoma</i> , 2015, 56, 2619-2624.	1.3	10
48	Benefits and risks of standardization, harmonization and conformity to opinion in clinical laboratories. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 287-306.	6.1	10
49	HLA risk markers for chronic myelogenous leukemia in Eastern Canada. <i>Leukemia and Lymphoma</i> , 2009, 50, 254-259.	1.3	9
50	Incidence of chronic lymphocytic leukemia and monoclonal B-cell lymphocytosis in Calgary, Alberta, Canada. <i>Leukemia Research</i> , 2015, 39, 429-434.	0.8	9
51	Laboratory tests, interpretation, and use of resources: a program to introduce the basics. <i>Canadian Family Physician</i> , 2014, 60, e167-72.	0.4	9
52	Predictors of an Unsatisfactory Conventional Cervical Cytology Smear. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2011, 33, 725-728.	0.7	8
53	Accuracy of the CellaVision DM96 platform for reticulocyte counting. <i>Journal of Pathology Informatics</i> , 2014, 5, 17.	1.7	8
54	McKittrick's "Wheelock syndrome may represent the extreme of a normally distributed continuum of secretory activity in colorectal villous adenomas. <i>Clinica Chimica Acta</i> , 2014, 436, 9-10.	1.1	8

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55	A re-examination of the role of the acute phase protein response in innate cancer defence. <i>Medical Hypotheses</i> , 2016, 93, 93-96.	1.5	8
56	Toward leveraging big value from data: chronic lymphocytic leukemia cell classification. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2017, 6, 1.	2.1	8
57	Evaluation of a provincial intervention to reduce redundant hemoglobin A1c testing. <i>Clinical Biochemistry</i> , 2017, 50, 1253-1255.	1.9	8
58	Use of the Mean Abnormal Result Rate (MARR) to Gauge Changes in Family Physicians' Selectivity of Laboratory Test Ordering, 2010-2015. <i>American Journal of Clinical Pathology</i> , 2017, 148, 436-440.	0.7	8
59	Sociodemographic associations with abnormal estimated glomerular filtration rate (eGFR) in a large Canadian city: a cross-sectional observation study. <i>BMC Nephrology</i> , 2018, 19, 198.	1.8	8
60	Comparison of estimated glomerular filtration rates using creatinine values generated by iSTAT and Cobas 6000. <i>Clinica Chimica Acta</i> , 2014, 429, 79-80.	1.1	7
61	Fasting time and vitamin B12 levels in a community-based population. <i>Clinica Chimica Acta</i> , 2016, 458, 129-132.	1.1	7
62	Statin Prescriptions for High-Risk Patients Are Increased by Laboratory-Initiated Framingham Risk Scores: A Quality-Improvement Initiative. <i>Canadian Journal of Cardiology</i> , 2017, 33, 682-684.	1.7	7
63	Incidence of myeloproliferative neoplasms in Calgary, Alberta, Canada. <i>BMC Research Notes</i> , 2019, 12, 286.	1.4	7
64	The hardscrabble hypothesis: A reduction in chronic tissue damage has increased the incidence of autoimmune disease. <i>Medical Hypotheses</i> , 2010, 74, 366-367.	1.5	6
65	Identifying strategies to improve diabetes care in Alberta, Canada, using the knowledge-to-action cycle. <i>CMAJ Open</i> , 2013, 1, E142-E150.	2.4	6
66	Use of Geospatial Mapping to Determine Suitable Locations for Patient Service Centers for Phlebotomy Services. <i>American Journal of Clinical Pathology</i> , 2015, 144, 727-730.	0.7	6
67	Serum Total 25-OH Vitamin D Adds Little Prognostic Value in Patients Undergoing Coronary Catheterization. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	6
68	Performance of residents using digital images versus glass slides on certification examination in anatomical pathology: a mixed methods pilot study. <i>CMAJ Open</i> , 2016, 4, E88-E94.	2.4	6
69	Test volume data for 51 most commonly ordered laboratory tests in Calgary, Alberta, Canada. <i>Data in Brief</i> , 2019, 23, 103748.	1.0	6
70	Evaluating practice variance among family physicians to identify targets for laboratory utilization management. <i>Clinica Chimica Acta</i> , 2019, 497, 1-5.	1.1	6
71	Strategies for enhancing the initiation of cholesterol lowering medication among patients at high cardiovascular disease risk: a qualitative descriptive exploration of patient and general practitioners' perspectives on a facilitated relay intervention in Alberta, Canada. <i>BMJ Open</i> , 2020, 10, e038469.	1.9	6
72	Open-source software for demand forecasting of clinical laboratory test volumes using time-series analysis. <i>Journal of Pathology Informatics</i> , 2017, 8, 7.	1.7	6

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73	Break the fast? Update on patient preparation for cholesterol testing. Canadian Family Physician, 2014, 60, 895-7, e471-4.	0.4	6
74	Origins and relatedness of human leukocyte antigen class I allele supertypes. Human Immunology, 2010, 71, 837-842.	2.4	5
75	Sensitivity and Specificity of Community Fecal Immunotesting Screening for Colorectal Carcinoma in a High-Risk Canadian Population. Archives of Pathology and Laboratory Medicine, 2015, 139, 1441-1445.	2.5	5
76	Sociodemographic correlates of urine culture test utilization in Calgary, Alberta. BMC Urology, 2018, 18, 2.	1.4	5
77	Essential role of laboratory physicians in transformation of laboratory practice and management to a value-based patient-centric model. Critical Reviews in Clinical Laboratory Sciences, 2020, 57, 323-344.	6.1	5
78	Estrogen receptor testing and 10-year mortality from breast cancer: A model for determining testing strategy. Journal of Pathology Informatics, 2012, 3, 19.	1.7	5
79	Laboratory test use and primary care physician supply. Canadian Family Physician, 2013, 59, e240-5.	0.4	5
80	Performance of a simple chromatin-rich segmentation algorithm in quantifying basal cell carcinoma from histology images. BMC Research Notes, 2012, 5, 35.	1.4	4
81	Clinical laboratory utilization management and improved healthcare performance. Critical Reviews in Clinical Laboratory Sciences, 2018, 55, 535-547.	6.1	4
82	Implementation of an educational province-wide intervention to reduce redundant vitamin B12 testing: A cross-sectional study. Clinical Biochemistry, 2020, 76, 1-4.	1.9	4
83	Is the Utilization of Helicobacter pylori Stool Antigen Tests Appropriate in an Urban Canadian Population?. American Journal of Clinical Pathology, 2020, 153, 686-694.	0.7	4
84	Factors Associated with Hyponatremia in Patients Newly Prescribed Citalopram: A Retrospective Observational Study. Drugs - Real World Outcomes, 2021, 8, 555-563.	1.6	4
85	Using a systematic approach to strategic innovation in laboratory medicine to bring about change. Critical Reviews in Clinical Laboratory Sciences, 2022, 59, 178-202.	6.1	4
86	Performance of Community Blood Glucose Meters in Calgary, Alberta: An Analysis of Quality Assurance Data. Canadian Journal of Diabetes, 2014, 38, 326-328.	0.8	3
87	Clinical Action Curves. American Journal of Clinical Pathology, 2016, 146, 478-486.	0.7	3
88	Incidence of Myelodysplastic Syndromes in a Major Canadian Metropolitan Area. journal of applied laboratory medicine, The, 2018, 3, 378-383.	1.3	3
89	Levothyroxine prescribing and laboratory test use after a minor change in reference range for thyroid-stimulating hormone. Cmaj, 2020, 192, E469-E475.	2.0	3
90	Age and sex-specific incidence rates of group A streptococcal pharyngitis between 2010 and 2018: a population-based study. Future Microbiology, 2021, 16, 1053-1062.	2.0	3

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91	Automatic working area localization in blood smear microscopic images using machine learning algorithms. , 2013, , .		2
92	Phlebotomy Cycle Time Related to Phlebotomist Experience and/or Hospital Location. Laboratory Medicine, 2016, 47, 83-86.	1.2	2
93	Proportion of adults fasting for lipid testing relative to guideline changes in Alberta. Clinical Biochemistry, 2017, 50, 344-346.	1.9	2
94	Laboratory reporting of framingham risk score increases statin prescriptions in at-risk patients. Clinical Biochemistry, 2021, 96, 1-7.	1.9	2
95	Cervical Screening Practices and Outcomes for Young Women in Response to Changed Guidelines in Calgary, Canada, 2007â€“2016. Journal of Lower Genital Tract Disease, 2021, 25, 1-8.	1.9	2
96	Chronic kidney disease in type 2 diabetes: Does an abnormal urine albumin-to-creatinine ratio need to be retested?. Canadian Family Physician, 2018, 64, e446-e452.	0.4	2
97	Immune recognition of transplacentally acquired lymphoid allografts selects for increased major histocompatibility polymorphism. Medical Hypotheses, 2011, 77, 323-325.	1.5	1
98	Folate deficiency in an unselected population in Calgary, Alberta and its relationship with red blood cell macrocytosis. BMC Research Notes, 2015, 8, 314.	1.4	1
99	Examining sociodemographic risk factors for <i>Chlamydia trachomatis</i> infection: a population-based cohort study. Future Microbiology, 2017, 12, 1363-1370.	2.0	1
100	Vitamin B12 test volume data before and after the implementation of an educational province-wide intervention to reduce redundant testing in Alberta. Data in Brief, 2019, 27, 104785.	1.0	1
101	Dataset of test volume and tests repeated for complete blood count and electrolyte panels from hospitals in a Canadian province in 2018. Data in Brief, 2020, 29, 105144.	1.0	1
102	Serum allergen-specific IgE testing: How much is too much?. Cleveland Clinic Journal of Medicine, 2016, 83, 21-24.	1.3	1
103	Human leukocyte antigen polymorphisms and leukemia susceptibility. Leukemia Research, 2011, 35, 1545-1546.	0.8	0
104	Comparison of two infant lancet devices on ease of use and post lance bleeding times. Journal of Neonatal Nursing, 2013, 19, 71-75.	0.7	0
105	Dataset of clinical laboratory tests according to ordering variance among family physicians in Calgary, Alberta, Canada. Data in Brief, 2019, 25, 104387.	1.0	0
106	Community data of adults fasting for lipid and diabetes tests in Calgary, Alberta from 2010 to 2016. Data in Brief, 2019, 22, 373-382.	1.0	0
107	The mean abnormal result rates of laboratory tests ordered in the emergency department: shooting percentage insights from a multi-centre study. Canadian Journal of Emergency Medicine, 2021, , 1.	1.1	0
108	The life of a laboratory requisition form: Patient compliance with clinical laboratory testing in a Canadian primary care health region. Clinical Biochemistry, 2021, 99, 82-82.	1.9	0

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109	Laboratory Utilization Management in Canada. , 2017, , 279-285.		0
110	COVID-19, curtailed clerkships, and competency: Making graduation decisions in the midst of a global pandemic. Canadian Medical Education Journal, 2020, 11, e181-e187.	0.4	0
111	A longitudinal population-based study of predictors of mortality from bloodstream infections in Calgary, Alberta, Canada. Future Microbiology, 2022, 17, 17-25.	2.0	0