

Towards better clinical prediction models: seven steps for validation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The EHJ: the first years and the future. <i>European Heart Journal</i> , 2014, 35, 3399-3407.	1.0	3
2	Prognostication of Survival in Patients with Advanced Cancer: Predicting the Unpredictable?. <i>Cancer Control</i> , 2015, 22, 489-497.	0.7	147
3	Novel methodologies for biomarker discovery in atherosclerosis. <i>European Heart Journal</i> , 2015, 36, 2635-2642.	1.0	174
4	From Durban to Boston, a "Modest Proposal" to Improve Perioperative Cardiovascular Risk Stratification. <i>Anesthesia and Analgesia</i> , 2015, 120, 515-518.	1.1	1
5	Improving patient prostate cancer risk assessment: Moving from static, globally-applied to dynamic, practice-specific risk calculators. <i>Journal of Biomedical Informatics</i> , 2015, 56, 87-93.	2.5	34
6	Lifetime prediction of coronary heart disease and heart disease of uncertain etiology in a 50-year follow-up population study. <i>International Journal of Cardiology</i> , 2015, 196, 55-60.	0.8	25
7	Will the future lie in multitude? A critical appraisal of biomarker panel studies on prediction of diabetic kidney disease progression. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, iv96-iv104.	0.4	20
8	Prognostic scores in heart failure " Critical appraisal and practical use. <i>International Journal of Cardiology</i> , 2015, 188, 1-9.	0.8	45
9	Proposed Research Plan for the Derivation of a New Cardiac Risk Index. <i>Anesthesia and Analgesia</i> , 2015, 120, 543-553.	1.1	37
10	Transparent Reporting of a multivariable prediction model for Individual Prognosis Or Diagnosis (TRIPOD): Explanation and Elaboration. <i>Annals of Internal Medicine</i> , 2015, 162, W1-W73.	2.0	3,068
11	External validation of new risk prediction models is infrequent and reveals worse prognostic discrimination. <i>Journal of Clinical Epidemiology</i> , 2015, 68, 25-34.	2.4	290
12	National priorities for perioperative research in South Africa. <i>South African Medical Journal</i> , 2016, 106, 485.	0.2	12
13	From Six Gene Polymorphisms of the Antioxidant System, Only GPX Pro198Leu and GSTP1 Ile105Val Modulate the Risk of Acute Myeloid Leukemia. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-10.	1.9	25
14	How to Establish Clinical Prediction Models. <i>Endocrinology and Metabolism</i> , 2016, 31, 38.	1.3	119
15	Validation and Recalibration of Two Multivariable Prognostic Models for Survival and Independence in Acute Stroke. <i>PLoS ONE</i> , 2016, 11, e0153527.	1.1	19
16	Quality Reporting of Multivariable Regression Models in Observational Studies. <i>Medicine (United Tj ETQq1 1 0.784314 rgBT JOverloc</i>	0.4	13
17	Risk Prediction Models in Perioperative Medicine: Methodological Considerations. <i>Current Anesthesiology Reports</i> , 2016, 6, 267-275.	0.9	9
18	Clinician prediction of survival versus the Palliative Prognostic Score: Which approach is more accurate?. <i>European Journal of Cancer</i> , 2016, 64, 89-95.	1.3	57

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19	Clinical prediction models. <i>British Journal of Surgery</i> , 2016, 103, 1886-1886.	0.1	24
20	External validation of the international risk prediction algorithm for major depressive episode in the US general population: the PredictD-US study. <i>BMC Psychiatry</i> , 2016, 16, 256.	1.1	19
21	Validation of models predicting modulus of elasticity in Douglas-fir trees, boles, and logs. <i>New Zealand Journal of Forestry Science</i> , 2016, 46, .	0.8	4
22	Prediction of survival after surgery due to skeletal metastases in the extremities. <i>Bone and Joint Journal</i> , 2016, 98-B, 271-277.	1.9	26
23	A comprehensive validation of HBV-related acute-on-chronic liver failure models to assist decision-making in targeted therapeutics. <i>Scientific Reports</i> , 2016, 6, 33389.	1.6	3
24	The novel biomarker-based ABC (age, biomarkers, clinical history)-bleeding risk score for patients with atrial fibrillation: a derivation and validation study. <i>Lancet, The</i> , 2016, 387, 2302-2311.	6.3	389
25	Coronary plaque quantification and fractional flow reserve by coronary computed tomography angiography identify ischaemia-causing lesions. <i>European Heart Journal</i> , 2016, 37, 1220-1227.	1.0	257
26	Prediction Models for Gastrointestinal and Liver Diseases: Too Many Developed, Too Few Validated. <i>Clinical Gastroenterology and Hepatology</i> , 2016, 14, 1678-1680.	2.4	23
27	Prospective Validation of the Redin-SCORE to Predict the Risk of Rehospitalization for Heart Failure in a Contemporary Cohort of Outpatients. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2016, 69, 1224-1225.	0.4	1
28	Validación prospectiva del Redin-SCORE para predecir el riesgo de ingreso por insuficiencia cardiaca en una cohorte actual de pacientes ambulatorios. <i>Revista Espanola De Cardiologia</i> , 2016, 69, 1224-1225.	0.6	2
29	Pre-test probability of obstructive coronary stenosis in patients undergoing coronary CT angiography: Comparative performance of the modified diamond-Forrester algorithm versus methods incorporating cardiovascular risk factors. <i>International Journal of Cardiology</i> , 2016, 222, 346-351.	0.8	15
30	Performance and Validation of a Novel Biomarker-Based Stroke Risk Score for Atrial Fibrillation. <i>Circulation</i> , 2016, 134, 1697-1707.	1.6	76
31	Improving Prediction of Suicide and Accidental Death After Discharge From General Hospitals With Natural Language Processing. <i>JAMA Psychiatry</i> , 2016, 73, 1064.	6.0	106
32	The future of plastic surgery data collection, analysis and presentation. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2016, 69, 864-868.	0.5	3
33	Moving beyond regression techniques in cardiovascular risk prediction: applying machine learning to address analytic challenges. <i>European Heart Journal</i> , 2017, 38, ehw302.	1.0	276
34	Logistic regression model can reduce unnecessary artificial liver support in hepatitis B virus-associated acute-on-chronic liver failure: decision curve analysis. <i>BMC Medical Informatics and Decision Making</i> , 2016, 16, 59.	1.5	7
35	Prediction models for cardiovascular disease risk in the general population: systematic review. <i>BMJ, The</i> , 2016, 353, i2416.	3.0	543
36	Decision support tools in low back pain. <i>Best Practice and Research in Clinical Rheumatology</i> , 2016, 30, 1084-1097.	1.4	14

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37	Prediction models. <i>Current Opinion in Anaesthesiology</i> , 2016, 29, 717-726.	0.9	16
38	Development and External Validation of a Melanoma Risk Prediction Model Based on Self-assessed Risk Factors. <i>JAMA Dermatology</i> , 2016, 152, 889.	2.0	53
39	Prediction Models for Cardiac Risk Classification with Nuclear Cardiology Techniques. <i>Current Cardiovascular Imaging Reports</i> , 2016, 9, 1.	0.4	0
40	Innovative Routes for Enhancing Adolescent Marijuana Treatment: Interplay of Peer Influence Across Social Media and Geolocation. <i>Current Addiction Reports</i> , 2016, 3, 221-229.	1.6	3
41	Cardiovascular risk estimation in older persons: SCORE O.P.. <i>European Journal of Preventive Cardiology</i> , 2016, 23, 1093-1103.	0.8	138
42	Nomogram for Preoperative Estimation of Microvascular Invasion Risk in Hepatitis B Virus-Related Hepatocellular Carcinoma Within the Milan Criteria. <i>JAMA Surgery</i> , 2016, 151, 356.	2.2	436
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45	Traumatic transfers: calibration is adversely affected when prediction models are transferred between trauma care contexts in India and the United States. <i>Journal of Clinical Epidemiology</i> , 2016, 74, 177-186.	2.4	5
46	The ABC (age, biomarkers, clinical history) stroke risk score: a biomarker-based risk score for predicting stroke in atrial fibrillation. <i>European Heart Journal</i> , 2016, 37, 1582-1590.	1.0	329
47	Predicting the chance of live birth for women undergoing IVF: a novel pretreatment counselling tool. <i>Human Reproduction</i> , 2016, 31, 84-92.	0.4	101
48	Prediction models need appropriate internal, internal-external, and external validation. <i>Journal of Clinical Epidemiology</i> , 2016, 69, 245-247.	2.4	666
49	Comparison of Prediction Models for Lynch Syndrome Among Individuals With Colorectal Cancer. <i>Journal of the National Cancer Institute</i> , 2016, 108, .	3.0	29
50	Methodological issues in current practice may lead to bias in the development of biomarker combinations for predicting acute kidney injury. <i>Kidney International</i> , 2016, 89, 429-438.	2.6	18
51	Flawed validation of FRAX. <i>Bone</i> , 2016, 93, 217.	1.4	1
52	Prediction of transition to psychosis in patients with a clinical high risk for psychosis: a systematic review of methodology and reporting. <i>Psychological Medicine</i> , 2017, 47, 1163-1178.	2.7	75
53	Natural language processing to ascertain two key variables from operative reports in ophthalmology. <i>Pharmacoepidemiology and Drug Safety</i> , 2017, 26, 378-385.	0.9	26
54	GRACE Score Validation in Predicting Hospital Mortality: Analysis of the Role of Sex. <i>Journal of Women's Health</i> , 2017, 26, 420-425.	1.5	12

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55	Risk factors and nomogram for pancreatic pseudocysts in chronic pancreatitis: A cohort of 1998 patients. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2017, 32, 1403-1411.	1.4	27
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57	Hypertension after injury among burned combat veterans: A retrospective cohort study; methodological issues. <i>Burns</i> , 2017, 43, 686-688.	1.1	2
58	External validation and extension of a diagnostic model for obstructive coronary artery disease: a cross-sectional predictive evaluation in 4888 patients of the Austrian Coronary Artery disease Risk Determination In Innsbruck by diaGnostic ANgiography (CARDIIIGAN) cohort. <i>BMJ Open</i> , 2017, 7, e014467.	0.8	13
59	Multidimensional prediction of treatment response to antidepressants with cognitive control and functional MRI. <i>Brain</i> , 2017, 140, 472-486.	3.7	61
60	Heart Failure with Preserved and Reduced Ejection Fraction in Hemodialysis Patients: Prevalence, Disease Prediction and Prognosis. <i>Kidney and Blood Pressure Research</i> , 2017, 42, 165-176.	0.9	1,821
61	Prediction of sudden and non-sudden cardiac death in post-infarction patients with reduced left ventricular ejection fraction by periodic repolarization dynamics: MADIT-II substudy. <i>European Heart Journal</i> , 2017, 38, 2110-2118.	1.0	68
62	Comparative Analysis of Four Scores to Stratify Patients With Heart Failure and Reduced Ejection Fraction. <i>American Journal of Cardiology</i> , 2017, 120, 443-449.	0.7	37
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66	Violent reinjury risk assessment instrument (VRRAI) for hospital-based violence intervention programs. <i>Journal of Surgical Research</i> , 2017, 217, 177-186.e2.	0.8	18
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69	Differentiating malignant thyroid nodule with statistical classifiers based on demographic and ultrasound features. , 2017, , .		3
70	Towards personalised intra-arterial treatment of patients with acute ischaemic stroke: a study protocol for development and validation of a clinical decision aid. <i>BMJ Open</i> , 2017, 7, e013699.	0.8	7
71	Acute kidney injury as an independent risk factor for unplanned 90-day hospital readmissions. <i>BMC Nephrology</i> , 2017, 18, 9.	0.8	48
72	Predicting occupational asthma and rhinitis in bakery workers referred for clinical evaluation. <i>Occupational and Environmental Medicine</i> , 2017, 74, 564-572.	1.3	12

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73	Risk Prediction Models for Incident Heart Failure: A Systematic Review of Methodology and Model Performance. <i>Journal of Cardiac Failure</i> , 2017, 23, 680-687.	0.7	49
74	Predicting frail syndrome using adverse geriatric health outcomes: Comparison of different statistical classifiers. , 2017, , .		1
75	Prediction versus aetiology: common pitfalls and how to avoid them. <i>Nephrology Dialysis Transplantation</i> , 2017, 32, ii1-ii5.	0.4	64
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77	Graphics and statistics for cardiology: clinical prediction rules. <i>Heart</i> , 2017, 103, 538-545.	1.2	23
78	Predicting the risk of osteopenia for women aged 40â€“55 years. <i>Journal of the Formosan Medical Association</i> , 2017, 116, 888-896.	0.8	8
79	Development and External Validation of a Model Predicting Death After Surgery in Patients With a Ruptured Abdominal Aortic Aneurysm: The Dutch Aneurysm Score. <i>European Journal of Vascular and Endovascular Surgery</i> , 2017, 53, 168-174.	0.8	23
80	European Respiratory Society guidelines for the diagnosis of primary ciliary dyskinesia. <i>European Respiratory Journal</i> , 2017, 49, 1601090.	3.1	465
81	Beyond discrimination: A comparison of calibration methods and clinical usefulness of predictive models of readmission risk. <i>Journal of Biomedical Informatics</i> , 2017, 76, 9-18.	2.5	61
82	The clinical usefulness of prognostic prediction models in critical illness. <i>European Journal of Internal Medicine</i> , 2017, 45, 37-40.	1.0	19
83	Development of a Multivariate Predictive Model to Estimate Ionized Calcium Concentration from Serum Biochemical Profile Results in Dogs. <i>Journal of Veterinary Internal Medicine</i> , 2017, 31, 1392-1402.	0.6	16
84	Fibrosis as measured by the biomarker, tissue inhibitor metalloproteinase-1, predicts mortality in Age Gene Environment Susceptibility-Reykjavik (AGES-Reykjavik) Study. <i>European Heart Journal</i> , 2017, 38, 3423-3430.	1.0	27
85	Triplex High-Resolution Melting Assay for the Simultaneous Assessment of IFNL3 rs12979860, ABCB11 rs2287622, and RNF7 rs16851720 Genotypes in Chronic Hepatitis C Patients. <i>Journal of Molecular Diagnostics</i> , 2017, 19, 857-869.	1.2	4
86	A Survey of Canadian Nephrologists Assessing Prognostication in End-Stage Renal Disease. <i>Canadian Journal of Kidney Health and Disease</i> , 2017, 4, 205435811772529.	0.6	7
87	Reply to: â€œHow to better predict microvascular invasion and recurrence of hepatocellular carcinomaâ€œ. <i>Journal of Hepatology</i> , 2017, 67, 1120-1121.	1.8	1
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90	External validation of non-invasive prediction models for identifying ultrasonography-diagnosed fatty liver disease in a Chinese population. <i>Medicine (United States)</i> , 2017, 96, e7610.	0.4	20

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91	Performance of International Classification of Diseasesâ€based injury severity measures used to predict in-hospital mortality and intensive care admission among traumatic brain-injured patients. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 82, 374-382.	1.1	25
92	The Michigan Risk Score to predict peripherally inserted central catheterâ€associated thrombosis. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 1951-1962.	1.9	75
93	Assessment of dynamic variables of fluid responsiveness to predict desufflation-induced hypotension during paediatric laparoscopic surgery. <i>British Journal of Anaesthesia</i> , 2017, 119, 956-963.	1.5	2
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95	Model-Based Economic Evaluation of Treatments for Depression: A Systematic Literature Review. <i>Pharmacoeconomics - Open</i> , 2017, 1, 149-165.	0.9	16
96	The feasibility of matching on a propensity score for acupuncture in a prospective cohort study of patients with chronic pain. <i>BMC Medical Research Methodology</i> , 2017, 17, 42.	1.4	11
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100	Early warning scores for detecting deterioration in adult hospital patients: a systematic review protocol. <i>BMJ Open</i> , 2017, 7, e019268.	0.8	49
101	Selection of patients for intra-arterial treatment for acute ischaemic stroke: development and validation of a clinical decision tool in two randomised trials. <i>BMJ: British Medical Journal</i> , 2017, 357, j1710.	2.4	98
102	Importance and added value of functional impairment to predict mortality: a cohort study in Swedish medical inpatients. <i>BMJ Open</i> , 2017, 7, e014464.	0.8	16
103	Development of scoring system for risk stratification in clinical medicine: a step-by-step tutorial. <i>Annals of Translational Medicine</i> , 2017, 5, 436-436.	0.7	59
104	Survival analysis of heart failure patients: A case study. <i>PLoS ONE</i> , 2017, 12, e0181001.	1.1	110
105	Risk prediction models for selection of lung cancer screening candidates: A retrospective validation study. <i>PLoS Medicine</i> , 2017, 14, e1002277.	3.9	216
106	Letter to the Editor regarding the article: "Identifying pre-hospital factors associated with outcome for major trauma patients in a regional trauma network: an exploratory study". <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2017, 25, 113.	1.1	2
107	A systematic review of neonatal treatment intensity scores and their potential application in low-resource setting hospitals for predicting mortality, morbidity and estimating resource use. <i>Systematic Reviews</i> , 2017, 6, 248.	2.5	16
108	Wnt3a Expression Is Associated with Epithelial-Mesenchymal Transition and Impacts Prognosis of Lung Adenocarcinoma Patients. <i>Journal of Cancer</i> , 2017, 8, 2523-2531.	1.2	14

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109	Development and Validation of the PREMM Model for Comprehensive Risk Assessment of Lynch Syndrome. <i>Journal of Clinical Oncology</i> , 2017, 35, 2165-2172.	0.8	126
110	Breslow Density Is a Novel Prognostic Feature That Adds Value to Melanoma Staging. <i>American Journal of Surgical Pathology</i> , 2018, 42, 715-725.	2.1	11
111	Efficacy of a tool to predict short-term mortality in older people presenting at emergency departments: Protocol for a multi-centre cohort study. <i>Archives of Gerontology and Geriatrics</i> , 2018, 76, 169-174.	1.4	10
112	Applying the QUARTZ Trial Results in Clinical Practice: Development of a Prognostic Model Predicting Poor Outcomes for Non-small Cell Lung Cancers with Brain Metastases. <i>Clinical Oncology</i> , 2018, 30, 382-390.	0.6	13
113	Characteristics of new solid nodules detected in incidence screening rounds of low-dose CT lung cancer screening: the NELSON study. <i>Thorax</i> , 2018, 73, 741-747.	2.7	35
114	Current and future burden of venous thrombosis: Not simply predictable. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2018, 2, 199-208.	1.0	52
115	Prediction models for the risk of spontaneous preterm birth based on maternal characteristics: a systematic review and independent external validation. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2018, 97, 907-920.	1.3	54
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117	Development and Validation of a Predictive Model to Aid in the Management of Intact Abdominal Aortic Aneurysms. <i>European Journal of Vascular and Endovascular Surgery</i> , 2018, 56, 48-56.	0.8	10
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120	Clinical Prediction Rule for Heterotopic Ossification of the Hip in Patients with Spinal Cord Injury. <i>Spine</i> , 2018, 43, 1572-1578.	1.0	14
121	Development and External Validation of Prediction Models for 10-Year Survival of Invasive Breast Cancer. Comparison with PREDICT and CancerMath. <i>Clinical Cancer Research</i> , 2018, 24, 2110-2115.	3.2	15
122	A biomarker-based risk score to predict death in patients with atrial fibrillation: the ABC (age, Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	92
123	Lack of Prognostic Model Validation in Low Back Pain Prediction Studies. <i>Clinical Journal of Pain</i> , 2018, 34, 748-754.	0.8	18
124	Validation of the <sc>V&EUREOLVE (V</sc>isual <sc>E</sc>stimation for <sc>R</sc>isk) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T and Cardiovascular Interventions. 2018. 91. 591-598.	0.7	10
125	Modern work-up and extended resection in perihilar cholangiocarcinoma: the AMC experience. <i>Langenbeck's Archives of Surgery</i> , 2018, 403, 289-307.	0.8	80
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127	Screening for fetal growth restriction using fetal biometry combined with maternal biomarkers. American Journal of Obstetrics and Gynecology, 2018, 218, S725-S737.	0.7	106
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129	A prediction model for lymph node metastasis in T1 esophageal squamous cell carcinoma. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1902-1908.	0.4	25
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145	Can Machine-learning Techniques Be Used for 5-year Survival Prediction of Patients With Chondrosarcoma?. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 2040-2048.	0.7	73
146	Wavelet analysis of oximetry recordings to assist in the automated detection of moderate-to-severe pediatric sleep apnea-hypopnea syndrome. <i>PLoS ONE</i> , 2018, 13, e0208502.	1.1	21
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148	Eustachian tube dysfunction: A diagnostic accuracy study and proposed diagnostic pathway. <i>PLoS ONE</i> , 2018, 13, e0206946.	1.1	50
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