



Hypertension and Migraine: A Bibliometric Analysis

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Table 1. Countries and number of publications published by each country

Country/territory	Number of publications
United States	622
United Kingdom	162
Italy	120
Canada	106
Germany	95
Spain	82
Netherlands	74
Australia	67
Turkey	67
China	66
France	60
Taiwan	51
India	46
Denmark	45
South Korea	42
Switzerland	42
Japan	39
Brazil	37
Sweden	36
Belgium	35
Iran	29
Finland	28
Israel	26
Norway	23
Saudi Arabia	23
Austria	21
Portugal	20
Poland	18
Ireland	16
Mexico	16
Russian Federation	14
Thailand	14
Egypt	13
Greece	12
Singapore	12
Argentina	11
Czech Republic	11
Colombia	10
Malaysia	10
New Zealand	8
Hong Kong	7
Pakistan	7
Chile	6
Estonia	6
Hungary	6
Indonesia	6
Iceland	5
Philippines	5
Serbia	5
South Africa	5
Georgia	4
Nigeria	4
Romania	4
United Arab Emirates	4
Kazakhstan	3
Lithuania	3
Nepal	3
Qatar	3
Ukraine	3



Continuation Table 1. Countries and number of publications published by each country

Bangladesh	2
Benin	2
Botswana	2
Bulgaria	2
Costa Rica	2
Ecuador	2
Ethiopia	2
Ghana	2
Kuwait	2
Lebanon	2
Luxembourg	2
Oman	2
Peru	2
Puerto Rico	2
Slovakia	2
Slovenia	2
Tunisia	2
Uganda	2
Viet Nam	2
Afghanistan	1
Algeria	1
Anguilla	1
Bahrain	1
Bhutan	1
Brunei Darussalam	1
Burundi	1
Cameroon	1
Congo	1
Croatia	1
Cuba	1
Cyprus	1
El Salvador	1
Federated States of Micronesia	1
French Polynesia	1
Iraq	1
Jamaica	1
Jordan	1
Kenya	1
Kyrgyzstan	1
Laos	1
Latvia	1
Morocco	1
Mozambique	1
Myanmar	1
New Caledonia	1
Palestine	1
Panama	1
Rwanda	1
Sri Lanka	1
Tanzania	1
Venezuela	1
Yemen	1
Zambia	1
Undefined	21

Note: *P-value based on Fisher test; † P-value based on Student test.



Table 2. Authors and number of publications

Author name	Number of publications
Dodick, D.W.	10
Pezzini, A.	10
Ashina, M.	9
Lipton, R.B.	9
Marrie, R.A.	9
Goadsby, P.J.	8
Pietrzak, R.H.	8
Fuh, J.L.	7
Kao, C.H.	7
Kurth, T.	7
Mercer, S.W.	7
Pascual, J.	7
Wang, S.J.	7
Choi, H.G.	6
Cohen, J.M.	6
De Giuli, V.	6
Gamba, M.	6
Goulart, A.C.	6
Grassi, M.	6
Guthrie, B.	6
Koyanagi, A.	6
Lotufo, P.A.	6
Padovani, A.	6
Reuter, U.	6
Terwindt, G.M.	6
Tremlett, H.	6
Wolfson, C.	6
Zedde, M.	6
Zini, A.	6
Arnold, M.	5
Caria, F.	5
Frye, M.A.	5
Lim, J.S.	5
Michel, P.	5
Mikol, D.D.	5
Morotti, A.	5
Ning, X.	5
Pantoni, L.	5
Patten, S.B.	5
Zhang, F.	5
Algra, A.	4
Buse, D.C.	4
Chen, T.J.	4
Cheng, S.	4
De Simone, R.	4
Dichgans, M.	4
Diener, H.C.	4
Elkind, M.S.V.	4
Ferrari, M.D.	4
Fisk, J.D.	4
Garg, A.	4
Giorli, E.	4
Haro, J.M.	4
Kim, T.W.	4
Klatt, J.	4
Kong, I.G.	4
Lampl, C.	4
Lee, E.J.	4
Lin, H.C.	4
Lodigiani, C.	4
Marcheselli, S.	4
McCabe, D.J.H.	4
McElroy, S.L.	4
McKay, K.A.	4
Mitsikostas, D.D.	4
Ozge, A.	4
Patella, R.	4
Pescini, F.	4
Poli, L.	4
Putalala, J.	4
Rexrode, K.M.	4
Sacco, S.	4
Silberstein, S.D.	4
Spierings, E.L.H.	4



Continuation Table 2. Authors and number of publications

Stefanovics, E.A.	4
Steiner, T.J.	4
Tancredi, L.	4
Tepper, S.J.	4
Thijs, V.	4
Togha, M.	4
Yang, R.	4
Zhang, W.	4
Abdin, E.	3
Ahmed, Z.	3
Amoozegar, F.	3
Andrade, C.	3
Aranow, C.	3
Bateman, B.T.	3
Baykan, B.	3
Benseñor, I.M.	3
Bensink, M.	3
Bersano, A.	3
Blizzard, L.	3
Bolay, H.	3
Bonavita, V.	3
Braga, M.	3
Cady, R.	3
Campos, V.R.	3
Carolei, A.	3
Carrazana, E.	3
Caso, V.	3
Cavallini, A.	3
Cernuda-Morollón, E.	3
Chaturvedi, S.	3
Checcarelli, N.	3
Chen, S.P.	3
Chiang, C.C.	3
Chien, W.C.	3
Chiti, A.	3
Chong, S.A.	3
Chuang, T.Y.	3
Chung, C.S.	3
Coupland, C.	3
Del Sette, M.	3
Di Piero, V.	3
Dodick, D.	3
Donnini, I.	3
Engelter, S.T.	3
Fanning, K.M.	3
Finke, C.	3
Finocchi, C.	3
Friedman, D.I.	3
Galor, A.	3
Gasparotti, R.	3
Ghaffari-Rafi, A.	3
Giossi, A.	3
Goicochea, M.T.	3
Grunze, H.	3
Hagenacker, T.	3
Hagerman, R.	3
Hamedani, A.G.	3
Hernandez-Diaz, S.	3
Holle-Lee, D.	3
Jacob, L.	3
Janka, L.	3
Jensen, R.	3
Kappos, L.	3
Kasper, S.	3
Katsarava, Z.	3
Keck, P.E.	3
Khorvash, F.	3
Kim, J.A.	3
Kinsella, J.A.	3
Kudrow, D.	3
Kumar, A.	3
Kupka, R.W.	3
Larsson, H.	3
Lee, M.J.	3
Lee, M.S.	3



Continuation Table 2. Authors and number of publications

Lee, S.H.	3
Leira, E.C.	3
Leverich, G.S.	3
Lichtenstein, P	3
Lin, C.L.	3
Lin, C.L.	3
Liow, K.K.	3
Liu, Y.F.	3
Lyrer, P.	3
Machado-Alba, J.E.	3



Table 3. Affiliations and number of publications

Affiliation	Number of publications
Harvard Medical School	41
Charité – Universitätsmedizin Berlin	38
Mayo Clinic	34
Brigham and Women's Hospital	28
University of Toronto	27
Cleveland Clinic Foundation	25
Københavns Universitet	25
Inserm	24
University of California, Los Angeles	24
Massachusetts General Hospital	23
University of Manitoba	22
Karolinska Institutet	22
Albert Einstein College of Medicine of Yeshiva University	21
Helsinki University Hospital	21
University of Calgary	20
The University of British Columbia	20
University of California, San Francisco	20
University of Melbourne	20
Sapienza Università di Roma	20
Rigshospitalet	19
Universidade de São Paulo	19
Johns Hopkins School of Medicine	18
University of Pennsylvania	18
Veterans General Hospital-Taipei	18
China Medical University	17
King's College London	17
Northwestern University Feinberg School of Medicine	17
Eli Lilly and Company	17
The University of Alabama at Birmingham	17
Amgen Incorporated	16
VA Medical Center	16
Leids Universitair Medisch Centrum	16
Yale School of Medicine	16
Mayo Clinic Scottsdale-Phoenix, Arizona	16
University of California, San Diego	16
China Medical University Hospital	16
National Yang-Ming University Taiwan	16
Université McGill	15
Helsingin Yliopisto	15
David Geffen School of Medicine at UCLA	15
Northwestern University	15
Taipei Medical University	15
University of Glasgow	14
Universiteit van Amsterdam	14
University of Oxford Medical Sciences Division	14
AP-HP Assistance Publique - Hôpitaux de Paris	14
Università degli Studi di Firenze	14
University of Oxford	14
Harvard T.H. Chan School of Public Health	14
Seoul National University College of Medicine	13
Cumming School of Medicine	13
University of Pennsylvania Perelman School of Medicine	13
Weill Cornell Medicine	13
Icahn School of Medicine at Mount Sinai	13
University College London	13
The University of Queensland	13
University Medical Center Utrecht	13
Université Paris Cité	13
Universitat de Barcelona	12
Johns Hopkins University	12
University of Montreal	12
Hospital Universitari Vall d'Hebron	12
Stanford University	12
Imperial College London	12
Università degli Studi di Pavia	12
Cedars-Sinai Medical Center	12
Monash University	12
Medical University of South Carolina	12
Montefiore Medical Center	12
The University of Sydney	12
University of Miami	12



Continuation Table 3. Affiliations and number of publications

Erasmus MC	12
Amsterdam UMC - Vrije Universiteit Amsterdam	11
Universitair Medisch Centrum Groningen	11
Novartis International AG	11
University of California, Davis	11
Università degli Studi di Brescia	11
UCL Queen Square Institute of Neurology	11
Azienda Ospedaliera Careggi	11
Universitätsspital Basel	11
Hospital Clinic Barcelona	11
Azienda Ospedaliero-Universitaria Sant'Andrea	11
China Medical University College of Medicine	11
Instituto de Salud Carlos III	10
Baylor College of Medicine	10
Universitätsklinikum Essen	10
Università degli Studi di Torino	10
Norges Teknisk-Naturvitenskapelige Universitet	10
Det Sundhedsvidenskabelige Fakultet	10
Saint Michael's Hospital University of Toronto	10
Universitat Autònoma de Barcelona	10
The University of Utah	10
Tehran University of Medical Sciences	10
Alma Mater Studiorum Università di Bologna	10
UNSW Sydney	10
Sorbonne Université	9
Tel Aviv University	9
National Institutes of Health NIH	9
Max Rady College of Medicine, University of Manitoba	9
University Hospital Bern	9
University of Pittsburgh Medical Center	9
University of Cincinnati College of Medicine	9
University of Birmingham	9
University of Bern	9
National Hospital for Neurology and Neurosurgery	9
University of Miami Leonard M. Miller School of Medicine	9
U.S. Department of Veterans Affairs	9
UT Southwestern Medical Center	9
University of Colorado Anschutz Medical Campus	9
Ludwig-Maximilians-Universität München	9
Columbia University	9
Università degli Studi di Milano	9
IRCCS Fondazione Mondino	9
Teva Pharmaceutical Industries Ltd. School of Medicine	9
Emory University	8
Amsterdam UMC - University of Amsterdam	8
Radboud University Medical Center	8
Università degli Studi di Perugia	8
The University of Manchester	8
Austin Health	8
University of Iowa Hospitals & Clinics	8
Harvard University	8
Rijksuniversiteit Groningen	8
Trinity College Dublin	8
University of Nottingham	8
Thomas Jefferson University	8
Hôpital Universitaire Pitié Salpêtrière	8
Kaiser Permanente	8
Wellcome Trust	8
Washington University School of Medicine in St. Louis	8
Centre Hospitalier Universitaire Vaudois	8
The University of North Carolina at Chapel Hill	8
Turun Yliopistollinen Keskussairaala	8
University of Michigan, Ann Arbor	8
Universidad Complutense de Madrid	8
Columbia University Irving Medical Center	8
Istanbul Üniversitesi	8
KU Leuven– University Hospital Leuven	8
McMaster University	8
University of Health Sciences College of Medicine	8
Université de Lausanne UNIL	7



Continuation Table 3. Affiliations and number of publications

Klinikum der Universität München	7
Case Western Reserve University	7
Mayo Clinic in Jacksonville, Florida	7
Emory University School of Medicine	7
Hallym University, College of Medicine	7
Johns Hopkins Bloomberg School of Public Health	7
Boston University Chobanian & Avedisian School of Medicine	7
Geisel School of Medicine at Dartmouth	7
Duke University	7
Vrije Universiteit Amsterdam	7
Washington University in St. Louis	7
Brown University	7
Chaim Sheba Medical Center Israel	7
İstanbul Tıp Fakültesi	7
Universität Duisburg-Essen	7
University of Washington	7
Odense Universitetshospital	7



Table 4. Journals and number of publications

Source title	Number of publications
Headache	59
BMJ Case Reports	49
Journal Of Headache And Pain	38
Cephalalgia	35
Neurology	32
Neurological Sciences	27
Journal Of Stroke And Cerebrovascular Diseases	25
Frontiers In Neurology	18
BMJ Open	17
European Journal Of Neurology	17
Stroke	15
International Journal Of Environmental Research And Public Health	14
Journal Of Affective Disorders	14
Journal Of The Neurological Sciences	14
Clinical Neurology And Neurosurgery	12
Medicine United States	11
American Journal Of Emergency Medicine	9
Arquivos De Neuro Psiquiatria	9
BMC Neurology	8
Journal Of Clinical Neuroscience	8
Journal Of Neurology	8
Multiple Sclerosis And Related Disorders	8
Multiple Sclerosis Journal	8
Cerebrovascular Diseases	7
Investigative Ophthalmology And Visual Science	7
Journal Of Neuro Ophthalmology	7
Radiology Case Reports	7
Case Reports In Neurology	6
European Neurology	6
Journal Of Child Neurology	6
Journal Of Personalized Medicine	6
Journal Of Psychosomatic Research	6
Journal Of The American Academy Of Dermatology	6
Neurology Clinical Practice	6
Acta Neurologica Scandinavica	5
Advances In Therapy	5
American Journal Of Medical Genetics Part A	5
Cephalalgia Reports	5
Current Psychiatry	5
Egyptian Journal Of Neurology Psychiatry And Neurosurgery	5
Journal Of Cerebral Blood Flow And Metabolism	5
Journal Of Clinical Medicine	5
Journal Of Women S Health	5
Neurology India	5
New England Journal Of Medicine	5
Pediatric Neurology	5
Pharmacoevidence And Drug Safety	5
World Neurosurgery	5
American Journal Of Epidemiology	4
American Journal Of Hypertension	4
Annals Of Clinical And Translational Neurology	4
Canadian Journal Of Neurological Sciences	4
Clinical Medicine Journal Of The Royal College Of Physicians Of London	4
Epilepsia	4
Epilepsy And Behavior	4
European Archives Of Oto Rhino Laryngology	4
Indian Journal Of Public Health Research And Development	4
JAMA Psychiatry	4
Journal Of Laryngology And Otology	4
Journal Of Medical Case Reports	4
Journal Of Neurology Neurosurgery And Psychiatry	4
Journal Of The American College Of Cardiology	4
Lancet Neurology	4
Lupus	4
Neurology Asia	4
Neuropsychiatric Disease And Treatment	4
Ophthalmology	4



Continuation Table 4. Journals and number of publications	
Pediatric Emergency Care	4
Quality Of Life Research	4
Acta Obstetrica Et Gynecologica Scandinavica	3
American Journal Of Case Reports	3
American Journal Of Neuroradiology	3
American Journal Of Ophthalmology	3
American Journal Of Preventive Medicine	3
Annals Of Internal Medicine	3
Archives Of Academic Emergency Medicine	3
BMC Psychiatry	3
Brain	3
British Journal Of Clinical Pharmacology	3
Child S Nervous System	3
Clinical Genetics	3
Clinical Ophthalmology	3
Clinical Pediatrics	3
Contraception	3
Digestive Diseases And Sciences	3
Drug Safety	3
Endocrine Connections	3
Epileptic Disorders	3
European Heart Journal Case Reports	3
European Journal Of Paediatric Neurology	3
European Review For Medical And Pharmacological Sciences	3
Evidence Based Complementary And Alternative Medicine	3
Eye Basingstoke	3
Frontiers In Cardiovascular Medicine	3
Frontiers In Immunology	3
Frontiers In Pharmacology	3
Hospital Pharmacy	3
International Journal Of Cardiology	3
Irish Journal Of Medical Science	3
JAMA Neurology	3
JAMA Otolaryngology Head And Neck Surgery	3
Journal Of Asthma	3
Journal Of Clinical Psychiatry	3
Journal Of Glaucoma	3
Journal Of Medical Internet Research	3
Journal Of Neurosciences In Rural Practice	3
Journal Of Psychiatric Research	3
Journal Of The Medical Association Of Thailand	3
Lancet	3
Neurocase	3
Neurocritical Care	3
Neuroepidemiology	3
Neurological Research	3
Neurology And Therapy	3
Neuroradiology Journal	3
Neurourology And Urodynamics	3
Nutritional Neuroscience	3
Obstetrics And Gynecology	3
Pain And Therapy	3
Pediatric Nephrology	3
Pediatrics	3
Retinal Cases And Brief Reports	3
Rheumatology International	3
Rheumatology United Kingdom	3
Seminars In Ophthalmology	3
Sleep	3
Surgical Neurology International	3
Turk Geriatri Dergisi	3
Turk Noroloji Dergisi	3
Acta Medica Mediterranea	2
Acta Neurologica Belgica	2
Acta Psychiatrica Scandinavica	2
American Journal Of Cardiology	2
American Journal Of Managed Care	2
American Journal Of Obstetrics And Gynecology	2
American Journal Of Otolaryngology Head And Neck	2
Medicine And Surgery	2
Anaesthesia Pain And Intensive Care	2
Annals Of Indian Academy Of Neurology	2
Annals Of Medicine And Surgery	2
Asian Journal Of Pharmaceutical And Clinical Research	2
Atherosclerosis	2
Auris Nasus Larynx	2
Australian Prescriber	2



Continuation Table 4. Journals and number of publications

BMC Medicine	2
BMJ Online	2
Behavioural Neurology	2
Blood	2
Brain And Development	2
Brazilian Journal Of Otorhinolaryngology	2
British Journal Of Ophthalmology	2
Cardiovascular Pathology	2
Circulation Research	2
Clinical Cancer Research	2
Clinical Drug Investigation	2
Clinical Journal Of Pain	2
Clinical Medicine Insights Case Reports	2
Clinical Obstetrics And Gynecology	2
Clinical Therapeutics	2
Clinics And Practice	2
Consultant	2

Table 5. Top 5 journals, total publications, total citations, cite score, the most cited article, times cited and publisher

Journal	Total publications	Total citations	Cite score	The most cited article	Times cited	Publisher
Headache	642	5,660	8.8	The Pharmacology of Indomethacin	157	Wiley-Blackwell
BMJ Case Reports	7258	9,745	1.3	Postpartum vertebral artery dissection	13	BMJ Publishing Group
Journal of Headache and Pain	563	6,231	11.1	Comorbid and co-occurring conditions in migraine and associated risk of increasing headache pain intensity and headache frequency: Results of the migraine in America symptoms and treatment (MAST) study	121	Springer Nature
Cephalalgia	559	5,265	9.4	The International Classification of Headache Disorders, 3rd edition (beta version)	6108	SAGE
Neurology	3013	35,092	11.6	The contemporary spectrum of multiple sclerosis misdiagnosis	208	Wolters Kluwer Health

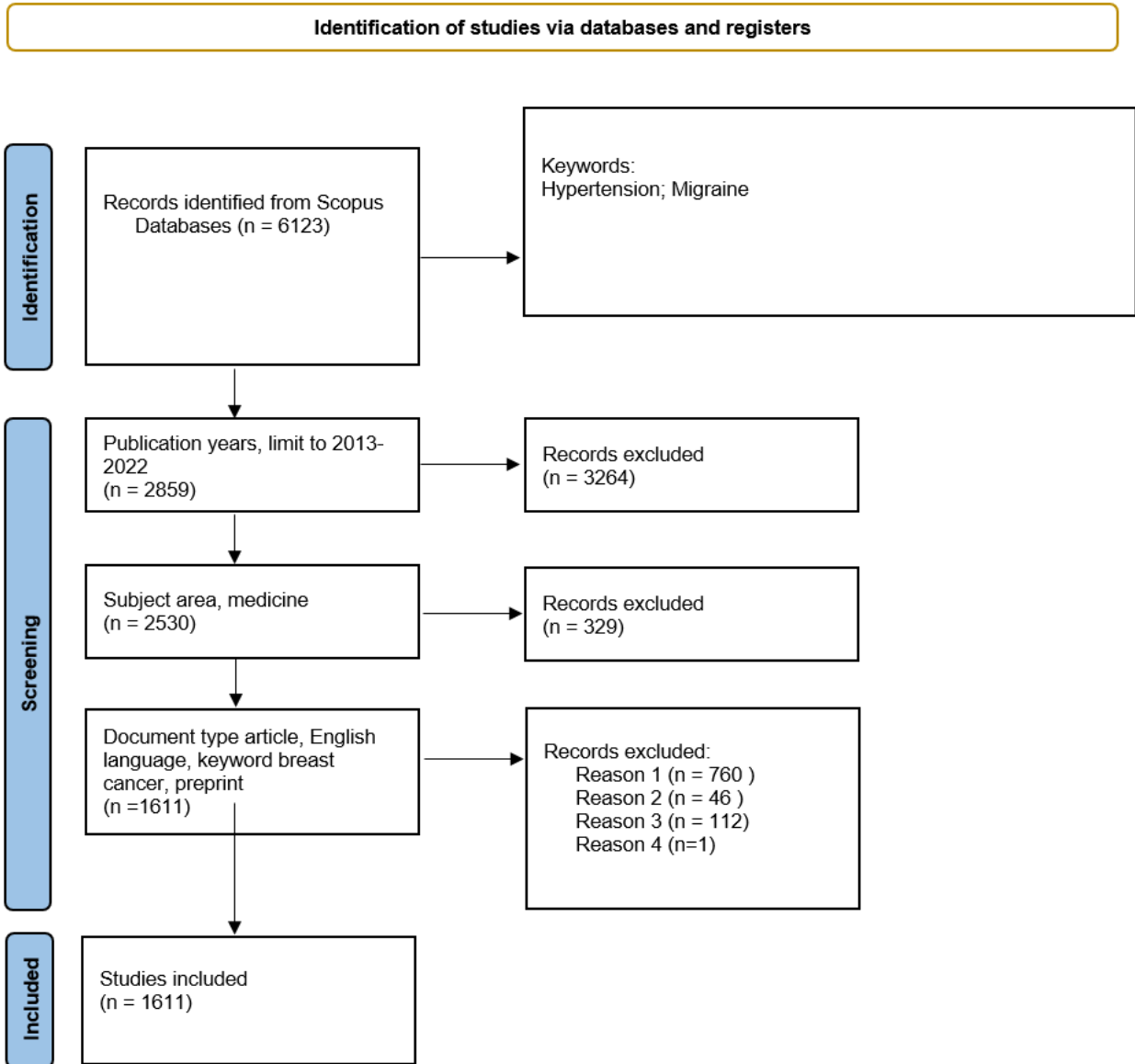


Figure 1. PRISMA flow diagram for Identification of studies.