

Supplementary table 3. Top-100 cited original articles influencing neurological practice (second part of the analysis)

Rank	Article	No. of citations	No. of annual citations	No. of annual citations, rank
1	Marler JR, Brott T, Broderick J, et al. Tissue Plasminogen Activator for Acute Ischemic Stroke. <i>N Engl J Med</i> 1995;333:1581-1588.	5182	259.1	2
2	Taylor DW, Barnett HJM. Beneficial effect of carotid endarterectomy in symptomatic patients with high-grade carotid stenosis. <i>N Engl J Med</i> 1991;325:445-453.	4021	167.5	10
3	Gent M, Beaumont D, Blanchard J, et al. A randomised, blinded, trial of clopidogrel versus aspirin in patients at risk of ischaemic events (CAPRIE). <i>Lancet</i> 1996;348:1329-1339.	3375	177.6	8
4	O'Leary DH, Polak JF, Kronmal RA, et al. Carotid-artery intima and media thickness as a risk factor for myocardial infarction and stroke in older adults. <i>N Engl J Med</i> 1999;340:14-22.	2862	168.4	9
5	MacMahon S, Peto R, Cutler J, et al. Blood pressure, stroke, and coronary heart disease. Part 1, Prolonged differences in blood pressure: prospective observational studies corrected for the regression dilution bias. <i>Lancet</i> 1990;335:765-774.	2847	113.9	23
6	Walker MD, Marler JR, Goldstein M, et al. Endarterectomy for Asymptomatic Carotid Artery Stenosis. <i>JAMA</i> 1995;273:1421-1428.	2752	137.6	15
7	Saunders AM, Strittmatter WJ, Schmechel D, et al. Association of apolipoprotein E allele epsilon 4 with late-onset familial and sporadic Alzheimer's disease. <i>Neurology</i> 1993;43:1467-1472.	2666	121.2	20
8	Wolf PA, Abbott RD, Kannel WB. Atrial fibrillation as an independent risk factor for stroke: the Framingham Study. <i>Stroke</i> 1991;22:983-988.	2612	108.8	26
9	Go AS, Hylek EM, Phillips KA, et al. Prevalence of diagnosed atrial fibrillation in adults: national implications for rhythm management and stroke prevention: the AnTicoagulation and Risk Factors in Atrial Fibrillation (ATRIA) Study. <i>JAMA</i> 2001;285:2370-2375.	2507	179.1	6
10	Bernard SA, Gray TW, Buist MD, et al. Treatment of comatose survivors of out-of-hospital cardiac arrest with induced hypothermia. <i>N Engl J Med</i> 2002;346:557-563.	2502	178.7	7
11	Trapp BD, Peterson J, Ransohoff RM, et al. Axonal transection in the lesions of multiple sclerosis. <i>N Engl J Med</i> 1998;338:278-285.	2445	135.8	16
12	Probstfield JL. Prevention of stroke by antihypertensive drug treatment in older persons with isolated systolic hypertension. Final results of the Systolic Hypertension in the Elderly Program (SHEP). <i>JAMA</i> 1991;265:3255-3264.	2382	99.3	32

13	Davies P, Maloney AJ. Selective loss of central cholinergic neurons in Alzheimer's disease. <i>Lancet</i> 1976;2:1403.	2381	61.1	64
14	Ferri CP, Prince M, Brayne C, et al. Global prevalence of dementia: a Delphi consensus study. <i>Lancet</i> 2005;366:2112-2117.	2254	225.4	3
15	Hacke W, Kaste M, Bluhmki E, et al. Thrombolysis with alteplase 3 to 4.5 hours after acute ischemic stroke. <i>N Engl J Med</i> 2008;359:1317-1329.	2221	317.3	1
16	Holzer M, Cerchiari E, Martens P, et al. Mild therapeutic hypothermia to improve the neurologic outcome after cardiac arrest. <i>N Engl J Med</i> 2002;346:549-556.	2161	154.4	11
17	Gage BF, Waterman AD, Shannon W, et al. Validation of clinical classification schemes for predicting stroke: results from the National Registry of Atrial Fibrillation. <i>JAMA</i> 2001;285:2864-2870.	2054	146.7	13
18	Hacke W, Kaste M, Fieschi C, et al. Intravenous thrombolysis with recombinant tissue plasminogen activator for acute hemispheric stroke. The European Cooperative Acute Stroke Study (ECASS). <i>JAMA</i> 1995;274:1017-1025.	2016	100.8	31
19	Dormandy JA, Charbonnel B, Eckland DJ, et al. Secondary prevention of macrovascular events in patients with type 2 diabetes in the PROactive Study (PROspective pioglitAzone Clinical Trial In macroVascular Events): a randomised controlled trial. <i>Lancet</i> 2005;366:1279-1289.	1913	191.3	5
20	Furlan A, Higashida R, Wechsler L, et al. Intra-arterial prourokinase for acute ischemic stroke. The PROACT II study: a randomized controlled trial. <i>JAMA</i> 1999;282:2003-2011.	1912	119.5	21
21	Bamford J, Sandercock P, Dennis M, et al. Classification and natural history of clinically identifiable subtypes of cerebral infarction. <i>Lancet</i> 1991;337:1521-1526.	1851	77.1	47
22	Barnett HJ, Taylor DW, Eliasziw M, et al. Benefit of carotid endarterectomy in patients with symptomatic moderate or severe stenosis. <i>N Engl J Med</i> 1998;339:1415-1425.	1843	108.4	27
23	Barker AT, Jalinous R, Freeston IL. Non-invasive magnetic stimulation of human motor cortex. <i>Lancet</i> 1985;1:1106-1107.	1824	60.8	67
24	Seshadri S, Beiser A, Selhub J, et al. Plasma homocysteine as a risk factor for dementia and Alzheimer's disease. <i>N Engl J Med</i> 2002;346:476-483.	1821	130.1	18
25	Osame M, Usuku K, Izumo S, et al. HTLV-I associated myelopathy, a new clinical entity. <i>Lancet</i> 1986;1:1031-1032.	1758	60.6	69
26	Warlow C. MRC European Carotid Surgery Trial: interim results for symptomatic patients with severe (70-99%) or with mild (0-29%) carotid stenosis. <i>Lancet</i> 1991;337:1235-1243.	1732	72.2	55

27	Jacobs LD, Cookfair DL, Rudick RA, et al. Intramuscular interferon beta-1a for disease progression in relapsing multiple sclerosis. <i>Ann Neurol</i> 1996;39:285-294.	1726	90.8	38
28	Will RG, Ironside JW, Zeidler M, et al. A new variant of Creutzfeldt-Jakob disease in the UK. <i>Lancet</i> 1996;347:921-925.	1724	90.7	39
29	Kwan P, Brodie MJ. Early identification of refractory epilepsy. <i>N Engl J Med</i> 2000;342:314-319.	1711	106.9	28
30	Sano M, Ernesto C, Thomas RG, et al. A controlled trial of selegiline, alpha-tocopherol, or both as treatment for Alzheimer's disease. <i>N Engl J Med</i> 1997;336:1216-1222.	1643	91.3	37
31	MacMahon S, Neal B, Tzourio C, et al. Randomised trial of a perindopril-based blood-pressure-lowering regimen among 6,105 individuals with previous stroke or transient ischaemic attack. <i>Lancet</i> 2001;358:1033-1041.	1613	115.2	22
32	Inouye SK, van Dyck CH, Alessi CA, et al. Clarifying confusion: the confusion assessment method. A new method for detection of delirium. <i>Ann Intern Med</i> 1990;113:941-948.	1593	63.7	62
33	Hacke W, Kaste M, Fieschi C, et al. Randomised double-blind placebo-controlled trial of thrombolytic therapy with intravenous alteplase in acute ischaemic stroke (ECASS II). <i>Lancet</i> 1998;352:1245-1251.	1559	91.7	36
34	Wilhelmsen L, Svärdsudd K, Korsan-Bengtson K, et al. Fibrinogen as a risk factor for stroke and myocardial infarction. <i>N Engl J Med</i> 1984;311:501-505.	1557	50.2	77
35	Laupacis A, Boysen G, Connolly S, et al. Risk factors for stroke and efficacy of antithrombotic therapy in atrial fibrillation. Analysis of pooled data from five randomized controlled trials. <i>Arch Intern Med</i> 1994;154:1449-1457.	1542	73.4	53
36	Hinchey J, Chaves C, Appignani B, et al. A reversible posterior leukoencephalopathy syndrome. <i>N Engl J Med</i> 1996;334:494-500.	1514	75.7	51
37	Duquette P, Girard M, Despault L, et al. Interferon beta-1b is effective in relapsing-remitting multiple sclerosis. <i>Neurology</i> 1993;43:655-661.	1511	68.7	57
38	Snowdon DA, Greiner LH, Mortimer JA, et al. Brain infarction and the clinical expression of Alzheimer disease. The Nun Study. <i>JAMA</i> 1997;277:813-817.	1499	83.3	44
39	Evans DA, Funkenstein HH, Albert MS, et al. Prevalence of Alzheimer's disease in a community population of older persons. Higher than previously reported. <i>JAMA</i> 1989;262:2551-2556.	1480	56.9	74
40	Petersen P, Boysen G, Godtfredsen J, et al. Placebo-controlled, randomised trial of warfarin and aspirin for prevention of thromboembolic complications in chronic atrial fibrillation. The Copenhagen AFASAK study. <i>Lancet</i> 1989;1:175-179.	1441	53.4	76

41	Farrell B, Fraser A, Sandercock P, et al. Randomised trial of endarterectomy for recently symptomatic carotid stenosis: final results of the MRC European Carotid Surgery Trial (ECST). <i>Lancet</i> 1998;351:1379-1387.	1439	84.6	43
42	Hacke W, Donnan G, Fieschi C, et al. Association of outcome with early stroke treatment: pooled analysis of ATLANTIS, ECASS, and NINDS rt-PA stroke trials. <i>Lancet</i> 2004;363:768-774.	1403	127.5	19
43	Graham IM, Daly LE, Refsum HM, et al. Plasma homocysteine as a risk factor for vascular disease. The European Concerted Action Project. <i>JAMA</i> 1997;277:1775-1781.	1397	77.6	46
44	Freed CR, Greene PE, Breeze RE, et al. Transplantation of embryonic dopamine neurons for severe Parkinson's disease. <i>N Engl J Med</i> 2001;344:710-719.	1384	98.9	33
45	Tomlinson BE, Blessed G, Roth M. Observations on the brains of demented old people. <i>J Neurol Sci</i> 1970;11:205-242.	1364	30.3	95
46	Arriagada PV, Growdon JH, Hedley-Whyte ET, et al. Neurofibrillary tangles but not senile plaques parallel duration and severity of Alzheimer's disease. <i>Neurology</i> 1992;42:631-639.	1336	58.1	73
47	Crum RM, Anthony JC, Bassett SS, et al. Population-based norms for the Mini-Mental State Examination by age and educational level. <i>JAMA</i> 1993;269:2386-2391.	1336	60.7	68
48	Zola-Morgan S, Squire LR, Amaral DG. Human amnesia and the medial temporal region: enduring memory impairment following a bilateral lesion limited to field CA1 of the hippocampus. <i>J Neurosci</i> 1986;6:2950-2967.	1335	46	83
49	Polman CH, O'Connor PW, Havrdova E, et al. A randomized, placebo-controlled trial of natalizumab for relapsing multiple sclerosis. <i>N Engl J Med</i> 2006;354:899-910.	1324	147.1	12
50	Ebers GC, Rice G, Lesaux J, et al. Randomised double-blind placebo-controlled study of interferon beta-1a in relapsing/remitting multiple sclerosis. <i>Lancet</i> 1998;352:1498-1504.	1310	77.1	48
51	Bhatt DL, Fox KA, Hacke W, et al. Clopidogrel and aspirin versus aspirin alone for the prevention of atherothrombotic events. <i>N Engl J Med</i> 2006;354:1706-1717.	1282	142.4	14
52	Whitehouse PJ, Price DL, Clark AW, et al. Alzheimer disease: evidence for selective loss of cholinergic neurons in the nucleus basalis. <i>Ann Neurol</i> 1981;10:122-126.	1251	36.8	90
53	Snider WD, Simpson DM, Nielsen S, et al. Neurological complications of acquired immune deficiency syndrome: analysis of 50 patients. <i>Ann Neurol</i> 1983;14:403-418.	1249	39	89
54	Halliday A, Mansfield A, Marro J, et al. Prevention of disabling and fatal strokes by successful carotid endarterectomy in patients without recent neurological symptoms: randomised controlled trial. <i>Lancet</i> 2004;363:1491-1502.	1241	112.8	24

55	Lennon VA, Wingerchuk DM, Kryzer TJ, et al. A serum autoantibody marker of neuromyelitis optica: distinction from multiple sclerosis. <i>Lancet</i> 2004;364:2106-2112.	1231	111.9	25
56	Tang MX, Jacobs D, Stern Y, et al. Effect of oestrogen during menopause on risk and age at onset of Alzheimer's disease. <i>Lancet</i> 1996;348:429-432.	1230	64.7	60
57	Johnson KP, Brooks BR, Cohen JA et al. Copolymer 1 reduces relapse rate and improves disability in relapsing-remitting multiple sclerosis. <i>Neurology</i> 1995;45:1268-1276.	1221	61.1	65
58	Hebert LE, Scherr PA, Bienias JL, et al. Alzheimer disease in the US population: prevalence estimates using the 2000 census. <i>Arch Neurol</i> 2003;60:1119-1122.	1217	101.4	30
59	Amarenco P, Bogousslavsky J, Callahan A 3rd, et al. High-dose atorvastatin after stroke or transient ischemic attack. <i>N Engl J Med</i> 2006;355:549-559.	1208	134.2	17
60	Navia BA, Cho ES, Petito CK, et al. The AIDS dementia complex: II. Neuropathology. <i>Ann Neurol</i> 1986;19:525-535.	1175	40.5	87
61	Schmahmann JD, Sherman JC. The cerebellar cognitive affective syndrome. <i>Brain</i> 1998;121:561-579.	1168	68.7	58
62	Shumaker SA, Legault C, Rapp SR, et al. Estrogen plus progestin and the incidence of dementia and mild cognitive impairment in postmenopausal women: the Women's Health Initiative Memory Study: a randomized controlled trial. <i>JAMA</i> 2003;289:2651-2662.	1167	97.3	35
63	Wiebe S, Blume WT, Girvin JP, et al. A randomized, controlled trial of surgery for temporal-lobe epilepsy. <i>N Engl J Med</i> 2001;345:311-318.	1157	82.6	45
64	Jick H, Zornberg GL, Jick SS, et al. Statins and the risk of dementia. <i>Lancet</i> 2000;356:1627-1631.	1145	76.3	50
65	Padgett BL, Walker DL, ZuRhein GM, et al. Cultivation of papova-like virus from human brain with progressive multifocal leucoencephalopathy. <i>Lancet</i> 1971;1:1257-1260.	1141	25.9	99
66	Roach GW, Kanchuger M, Mangano CM, et al. Adverse cerebral outcomes after coronary bypass surgery. <i>N Engl J Med</i> 1996;335:1857-1863.	1141	60.1	70
67	Kish SJ, Shannak K, Hornykiewicz O. Uneven pattern of dopamine loss in the striatum of patients with idiopathic Parkinson's disease. Pathophysiologic and clinical implications. <i>N Engl J Med</i> 1988;318:876-880.	1140	42.2	86
68	Diener HC, Cunha L, Forbes C, et al. European Stroke Prevention Study. 2. Dipyridamole and acetylsalicylic acid in the secondary prevention of stroke. <i>J Neurol Sci</i> 1996;143:1-13.	1122	59.1	71
69	Salonen JT, Ylä-Herttuala S, Yamamoto R, et al. Autoantibody against oxidised LDL and progression of carotid atherosclerosis. <i>Lancet</i> 1992;339:883-887.	1116	48.5	79
70	Rao SM, Leo GJ, Bernardin L, et al. Cognitive dysfunction in multiple sclerosis. I. Frequency, patterns, and prediction. <i>Neurology</i> 1991;41:685-691.	1107	46.1	82

71	Rogers SL, Farlow MR, Doody RS, et al. A 24-week, double-blind, placebo-controlled trial of donepezil in patients with Alzheimer's disease. <i>Neurology</i> 1998;50:136-145.	1099	61.1	66
72	Lindstrom JM, Seybold ME, Lennon VA, et al. Antibody to acetylcholine receptor in myasthenia gravis. Prevalence, clinical correlates, and diagnostic value. <i>Neurology</i> 1976;26:1054-1059.	1097	28.1	97
73	DE Renzi E, Vignolo LA. et al. The token test: A sensitive test to detect receptive disturbances in aphasics. <i>Brain</i> 1962;85:665-678.	1093	20.6	100
74	Limousin P, Krack P, Pollak P, et al. Electrical stimulation of the subthalamic nucleus in advanced Parkinson's disease. <i>N Engl J Med</i> 1998;339:1105-1111.	1092	64.2	61
75	McLean CA, Cherny RA, Fraser FW, et al. Soluble pool of Abeta amyloid as a determinant of severity of neurodegeneration in Alzheimer's disease. <i>Ann Neurol</i> 1999;46:860-866.	1090	68.1	59
76	Diener HC, Bogousslavsky J, Brass LM, et al. Aspirin and clopidogrel compared with clopidogrel alone after recent ischaemic stroke or transient ischaemic attack in high-risk patients (MATCH): randomised, double-blind, placebo-controlled trial. <i>Lancet</i> 2004;364:331-337.	1080	98.2	34
77	Lipton RB, Stewart WF, Diamond S, et al. Prevalence and burden of migraine in the United States: data from the American Migraine Study II. <i>Headache</i> 2001;41:646-657.	1059	75.6	52
78	Levy RM, Bredesen DE, Rosenblum ML. Neurological manifestations of the acquired immunodeficiency syndrome (AIDS): experience at UCSF and review of the literature. <i>J Neurosurg</i> 1985;62:475-495.	1058	35.3	93
79	Krack P, Batir A, Van Blercom N, et al. Five-year follow-up of bilateral stimulation of the subthalamic nucleus in advanced Parkinson's disease. <i>N Engl J Med</i> 2003;349:1925-1934.	1052	87.7	41
80	Bensimon G, Lacomblez L, Meininger V. A controlled trial of riluzole in amyotrophic lateral sclerosis. <i>N Engl J Med</i> 1994;330:585-591.	1052	50.1	78
81	Stewart WF, Lipton RB, Celentano DD, et al. Prevalence of migraine headache in the United States. Relation to age, income, race, and other sociodemographic factors. <i>JAMA</i> 1992;267:64-69.	1050	45.7	84
82	Sandercock P, Collins R, Counsell C, et al. The International Stroke Trial (IST): a randomised trial of aspirin, subcutaneous heparin, both, or neither among 19 435 patients with acute ischaemic stroke. <i>Lancet</i> 1997;349:1569-1581.	1048	58.2	72
83	Wolozin B, Kellman W, Ruosseau P, et al. Decreased prevalence of Alzheimer disease associated with 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors. <i>Arch Neurol</i> 2000;57:1439-1443.	1044	69.6	56
84	Yaggi HK, Concato J, Kernan WN, et al. Obstructive sleep apnea as a risk factor for stroke and death. <i>N Engl J Med</i> 2005;353:2034-2041.	1042	104.2	29

85	Vermeer SE, Prins ND, den Heijer T, et al. Silent brain infarcts and the risk of dementia and cognitive decline. <i>N Engl J Med</i> 2003;348:1215-1222.	1035	86.3	42
86	Rosen WG, Terry RD, Fuld PA, et al. Pathological verification of ischemic score in differentiation of dementias. <i>Ann Neurol</i> 1980;7:486-488.	1028	29.4	96
87	Summers WK, Majovski LV, Marsh GM, et al. Oral tetrahydroaminoacridine in long-term treatment of senile dementia, Alzheimer type. <i>N Engl J Med</i> 1986;315:1241-1245.	1026	35.4	92
88	Paty DW, Li DKB, Duquette P, et al. Interferon beta-1b is effective in relapsing-remitting multiple sclerosis. <i>Neurology</i> 1993;43:662-667.	1025	46.6	80
89	Koudstaal PJ, Dehaene I, Dhooghe M, et al. Secondary prevention in non-rheumatic atrial fibrillation after transient ischaemic attack or minor stroke. <i>Lancet</i> 1993;342:1255-1262.	1024	46.5	81
90	Morris JC, Storandt M, Miller JP, et al. Mild cognitive impairment represents early-stage Alzheimer disease. <i>Arch Neurol</i> 2001;58:397-405.	1016	72.6	54
91	DeKosky ST, Scheff SW. Synapse loss in frontal cortex biopsies in Alzheimer's disease: correlation with cognitive severity. <i>Ann Neurol</i> 1990;27:457-464.	1013	40.5	88
92	Hauser WA, Annegers JF, Kurland LT. Incidence of epilepsy and unprovoked seizures in Rochester, Minnesota: 1935-1984. <i>Epilepsia</i> 1993;34:453-468.	999	45.4	85
93	Inouye SK, Bogardus ST Jr, Charpentier PA, et al. A multicomponent intervention to prevent delirium in hospitalized older patients. <i>N Engl J Med</i> 1999;340:669-676.	994	62.1	63
94	Ohayon MM. Epidemiology of insomnia: what we know and what we still need to learn. <i>Sleep Med Rev</i> 2002;6:97-111.	993	76.4	49
95	Lechat P, Mas JL, Lascault G, et al. Prevalence of patent foramen ovale in patients with stroke. <i>N Engl J Med</i> 1988;318:1148-1152.	992	36.7	91
96	Gluckman PD, Wyatt JS, Azzopardi D, et al. Selective head cooling with mild systemic hypothermia after neonatal encephalopathy: multicentre randomised trial. <i>Lancet</i> 2005;365:663-670.	991	90.1	40
97	Brott TG, Hobson RW 2nd, Howard G, et al. Stenting versus endarterectomy for treatment of carotid-artery stenosis. <i>N Engl J Med</i> 2010;363:11-23.	984	196.8	4
98	Ho DD, Rota TR, Schooley RT, et al. Isolation of HTLV-III from cerebrospinal fluid and neural tissues of patients with neurologic syndromes related to the acquired immunodeficiency syndrome. <i>N Engl J Med</i> 1985;313:1493-1497.	982	32.7	94
99	Mohr JP, Caplan LR, Melski JW, et al. The Harvard Cooperative Stroke Registry. <i>Neurology</i> 1978;28:754-762	980	26.5	98
100	Ferguson B, Matyszak MK, Esiri MM, et al. Axonal damage in acute multiple sclerosis lesions. <i>Brain</i> 1997;120:393-399.	976	54.2	75

