

Suppl. 1. The top-100 cited articles on ischemic stroke

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.	5,182	259.1	3
2	Adams HP Jr, Bendixen BH, Kappelle LJ, et al. Classification of subtype of acute ischemic stroke. Definitions for use in a multicenter clinical trial. TOAST. Trial of Org 10172 in Acute Stroke Treatment. <i>Stroke</i> 1993;24:35-41.	3,673	159.7	8
3	Collins R, Peto R, MacMahon S, et al. Blood pressure, stroke, and coronary heart disease. Part 2, Short-term reductions in blood pressure: overview of randomised drug trials in their epidemiological context. <i>Lancet</i> 1990;335:827-838.	2,914	116.6	19
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.	2,862	168.4	7
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.	2,847	113.9	21
6	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.	2,612	108.8	25
7	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.	2,507	179.1	5
8	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.	2,382	99.3	30
9	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.	2,221	317.3	2
10	Sever PS, Dahlöf B, Poulter NR, et al. prevention of coronary and stroke events with atorvastatin in hypertensive patients who have average or lower-than-average cholesterol concentrations, in the Anglo-Scandinavian Cardiac Outcomes Trial--Lipid Lowering Arm (ASCOT-LLA): a multicentre randomised controlled trial. <i>Lancet</i> 2003;361:1149-1158.	2,160	180	4
11	van Swieten JC, Koudstaal PJ, Visser MC, et al. Interobserver agreement for the assessment of handicap in stroke patients. <i>Stroke</i> 1988;19:604-607.	2,128	78.8	39
12	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.	2,054	146.7	12
13	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.	2,016	100.8	27
14	Brott T, Adams HP Jr, Olinger CP, et al. Measurements of acute cerebral infarction: a clinical examination scale. <i>Stroke</i> 1989;20:864-870.	2,007	77.2	41
15	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.	1,912	119.5	18
16	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.	1,851	77.1	42
17	Dirnagl U, Iadecola C, Moskowitz MA. Pathobiology of ischaemic stroke: an integrated view. <i>Trends Neurosci</i> 1999;22:391-397.	1,816	113.5	22
18	Astrup J, Siesjö BK, Symon L. Thresholds in cerebral ischemia - the ischemic penumbra. <i>Stroke</i> 1981;12:723-725.	1,729	50.9	59

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Rank	Article	No. of citations	No. of annual citations	No. of annual citations, rank
19	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.	1,613	115.2	20
20	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.	1,559	91.7	34
21	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.	1,557	50.2	60
22	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.	1,542	73.4	44
23	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.	1,499	83.3	38
24	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.	1,403	127.5	16
25	Adams HP Jr, del Zoppo G, Alberts MJ, et al. Guidelines for the early management of adults with ischemic stroke. <i>Stroke</i> 2007;38:1655-1711.	1,376	172	6
26	Hart RG, Pearce LA, Aguilar MI. Meta-analysis: antithrombotic therapy to prevent stroke in patients who have nonvalvular atrial fibrillation. <i>Ann Intern Med</i> 2007;146:857-867.	1,259	157.4	9
27	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.	1,241	112.8	23
28	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.	1,208	134.2	13
29	Clarke R, Collins R, Lewington S, et al. Homocysteine and risk of ischemic heart disease and stroke: a meta-analysis. <i>JAMA</i> . 2002 Oct 23-30;288(16):2015-22.	1,140	87.7	35
30	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.	1,122	59.1	51
31	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.	1,080	98.2	31
32	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.	1,048	58.2	53
33	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.	1,042	104.2	26
34	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.	1,024	46.5	63
35	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	73
36	Mohr JP, Caplan LR, Melski JW, et al. The Harvard Cooperative Stroke Registry. <i>Neurology</i> 1978;28:754-762	980	26.5	90
37	Hass WK, Easton JD, Adams HP Jr, et al. A randomized trial comparing ticlopidine hydrochloride with aspirin for the prevention of stroke in high-risk patients. <i>N Engl J Med</i> 1989;321:501-507.	969	37.3	71

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Rank	Article	No. of citations	No. of annual citations	No. of annual citations, rank
38	Sacco RL, Adams R, Albers G, et al. Guidelines for prevention of stroke in patients with ischemic stroke or transient ischemic attack. <i>Stroke</i> 2006;37:577-617.	957	95.7	33
39	Hart RG, Benavente O, McBride R, et al. Antithrombotic therapy to prevent stroke in patients with atrial fibrillation: a meta-analysis. <i>Ann Intern Med</i> 1999;131:492-501.	936	58.5	52
40	Wolf PA, D'Agostino RB, Belanger AJ, et al. Probability of stroke: a risk profile from the Framingham Study. <i>Stroke</i> 1991;22:312-318.	934	38.9	69
41	Ridker PM, Hennekens CH, Lindpaintner K, et al. Mutation in the gene coding for coagulation factor V and the risk of myocardial infarction, stroke, and venous thrombosis in apparently healthy men. <i>N Engl J Med</i> 1995;332:912-917.	932	46.6	62
42	Ezekowitz MD, Bridgers SL, James KE, et al. Warfarin in the prevention of stroke associated with nonrheumatic atrial fibrillation. <i>N Engl J Med</i> 1992;327:1406-1412.	932	40.5	66
43	Wolf PA, Dawber TR, Thomas HE Jr, et al. Epidemiologic assessment of chronic atrial fibrillation and risk of stroke. <i>Neurology</i> 1978;28:973-977.	921	24.9	94
44	Wahlgren N, Ahmed N, Dávalos A, et al. Thrombolysis with alteplase for acute ischaemic stroke in the Safe Implementation of Thrombolysis in Stroke-Monitoring Study (SITS-MOST): an observational study. <i>Lancet</i> 2007;369:275-282.	905	100.6	28
45	Hacke W, Ringleb PA, Boussier MG, et al. Guidelines for management of ischaemic stroke and transient ischaemic attack 2008. <i>Cerebrovasc Dis</i> 2008;25:457-507.	905	129.3	15
46	Wolf PA, Abbott RD, Kannel WB. Atrial fibrillation: a major contributor to stroke in the elderly. The Framingham Study. <i>Arch Intern Med</i> 1987;147:1561-1564.	874	31.2	81
47	Donnan GA, Fisher M, Macleod M, et al. stroke. <i>Lancet</i> 2008;371:1612-1623.	867	123.9	17
48	Bogousslavsky J, Vanmelle G, Regli F. The Lausanne Stroke Registry: analysis of 1,000 consecutive patients with first stroke. <i>Stroke</i> 1988;19:1083-1092	863	32	80
49	Fisher CM. Lacunar strokes and infarcts: a review. <i>Neurology</i> 1982;32:871-876.	854	25.9	92
50	Jauch EC, Saver JL, Adams HP Jr, et al. Guidelines for the early management of patients with acute ischemic stroke: a guideline for healthcare professionals from the American Heart Association/American Stroke Association. <i>Stroke</i> 2013;44:870-947.	853	426.5	1
51	Toole JF, Malinow MR, Chambless LE, et al. Lowering homocysteine in patients with ischemic stroke to prevent recurrent stroke, myocardial infarction, and death: the Vitamin Intervention for Stroke Prevention (VISP) randomized controlled trial. <i>JAMA</i> 2004;291:565-575.	814	67.8	47
52	Lo EH, Dalkara T, Moskowitz MA. Mechanisms, challenges and opportunities in stroke. <i>Nat Rev Neurosci</i> 2003;4:399-415.	794	66.2	48
53	Wolf SL, Winstein CJ, Miller JP, et al. Effect of constraint-induced movement therapy on upper extremity function 3 to 9 months after stroke: the EXCITE randomized clinical trial. <i>JAMA</i> 2006;296:2095-2104.	785	87.2	36
54	Furie KL, Kasner SE, Adams RJ, et al. Guidelines for the prevention of stroke in patients with stroke or transient ischemic attack: a guideline for healthcare professionals from the American Heart Association/American Stroke Association. <i>Stroke</i> 2011;42:227-276.	779	155.8	10
55	Warach S, Gaa J, Siewert B, et al. Acute human stroke studied by whole brain echo planar diffusion-weighted magnetic resonance imaging. <i>Ann Neurol</i> 1995;37:231-241.	774	36.9	72
56	Liepert J, Bauder H, Miltner, WHR, et al. Treatment-induced cortical reorganization after stroke in humans. <i>Stroke</i> 2000;31:1210-1216.	773	51.5	58
57	Feigin VL, Lawes CM, Bennett DA, et al. Stroke epidemiology: a review of population-based studies of incidence, prevalence, and case-fatality in the late 20th century. <i>Lancet Neurol</i> 2003;2:43-53.	770	59.2	50
58	Capes SE, Hunt D, Malmberg K, et al. Stress hyperglycemia and prognosis of stroke in nondiabetic and diabetic patients: a systematic overview. <i>Stroke</i> 2001;32:2426-2432.	766	54.7	55

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59	Chollet F, DiPiero V, Wise RJ, et al. The functional anatomy of motor recovery after stroke in humans: a study with positron emission tomography. <i>Ann Neurol</i> 1991;29:63-71.	759	30.4	82
60	Smith WS, Sung G, Starkman S, et al. Safety and efficacy of mechanical embolectomy in acute ischemic stroke: results of the MERCI trial. <i>Stroke</i> 2005;36:1432-1438.	751	75.1	43
61	Iso H, Jacobs DR Jr, Wentworth D, et al. Serum cholesterol levels and six-year mortality from stroke in 350,977 men screened for the multiple risk factor intervention trial. <i>N Engl J Med</i> 1989;320:904-910.	737	28.3	85
62	Lees KR, Bluhmki E, von Kummer R, et al. Time to treatment with intravenous alteplase and outcome in stroke: an updated pooled analysis of ECASS, ATLANTIS, NINDS, and EPITHET trials. <i>Lancet</i> 2010;375:1695-1703.	735	147	11
63	Robinson RG, Kubos KL, Starr LB, et al. Mood disorders in stroke patients. Importance of location of lesion. <i>Brain</i> 1984;107:81-93.	726	23.4	96
64	Adams RJ, McKie VC, Hsu L, et al. Prevention of a first stroke by transfusions in children with sickle cell anemia and abnormal results on transcranial Doppler ultrasonography. <i>N Engl J Med</i> 1998;339:5-11.	720	42.4	65
65	Kistler JP. The effect of low-dose warfarin on the risk of stroke in patients with nonrheumatic atrial fibrillation. The Boston Area Anticoagulation Trial for Atrial Fibrillation Investigators. <i>N Engl J Med</i> 1990;323:1505-1511.	720	28.8	84
66	del Zoppo GJ, Higashida RT, Furlan AJ, et al. PROACT: A phase II randomized trial of recombinant pro-urokinase by direct arterial delivery in acute middle cerebral artery stroke. <i>Stroke</i> 1988;29:4-11.	720	40	68
67	Barnett HJM. Failure of extracranial-intracranial arterial bypass to reduce the risk of ischemic stroke. Results of an international randomized trial. The EC/IC Bypass Study Group. <i>N Engl J Med</i> 1985;313:1191-1200.	701	23.4	97
68	Gent M, Easton JD, Hachinski VC, et al. The canadian american ticlopidine study (CATS) in thromboembolic stroke. <i>Lancet</i> 1989;1:1215-1220.	695	26.7	89
69	Mant J, Hobbs FD, Fletcher K, et al. Warfarin versus aspirin for stroke prevention in an elderly community population with atrial fibrillation (the Birmingham Atrial Fibrillation Treatment of the Aged Study, BAFTA): a randomised controlled trial. <i>Lancet</i> 2007;370:493-503.	690	86.3	37
70	Clark WM, Wissman S, Albers GW, et al. Recombinant tissue-type plasminogen activator (Alteplase) for ischemic stroke 3 to 5 hours after symptom onset. The ATLANTIS Study: a randomized controlled trial. Alteplase Thrombolysis for Acute Noninterventional Therapy in Ischemic Stroke. <i>JAMA</i> 1999;282:2019-2026.	688	43	64
71	Blackshear JL, Baker VS, Rubino, F, et al. Adjusted-dose warfarin versus low-intensity, fixed-dose warfarin plus aspirin for high-risk patients with atrial fibrillation: Stroke Prevention in Atrial Fibrillation III randomised clinical trial. <i>Lancet</i> 1996;348:633-638.	687	36.2	75
72	Perry IJ, Refsum H, Morris RW, et al. Prospective study of serum total homocysteine concentration and risk of stroke in middle-aged British men. <i>Lancet</i> 1995;346:1395-1398.	685	34.3	77
73	Foulkes MA, Wolf PA, Price TR, et al. The Stroke Data Bank: design, methods, and baseline characteristics. <i>Stroke</i> 1988;19:547-554.	685	25.4	93
74	Smith WS, Sung G, Saver J, et al. Mechanical thrombectomy for acute ischemic stroke: final results of the Multi MERCI trial. <i>Stroke</i> 2008;39:1205-1212.	684	97.7	32
75	Kaptoge S, Di Angelantonio E, Lowe G, et al. C-reactive protein concentration and risk of coronary heart disease, stroke, and mortality: an individual participant meta-analysis. <i>Lancet</i> 2010;375:132-140.	675	112.5	24
76	Fields WS, Lemak NA, Frankowski RF, et al. Controlled trial of aspirin in cerebral ischemia. <i>Stroke</i> 1977;8:301-314.	659	17.3	100

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77	O'Donnell MJ, Xavier D, Liu L, et al. Risk factors for ischaemic and intracerebral haemorrhagic stroke in 22 countries (the INTERSTROKE study): a case-control study. <i>Lancet</i> 2010;376:112-23.	657	131.4	14
78	Hacke W, Albers G, Al-Rawi Y, et al. The desmoteplase in acute ischemic stroke trial (DIAS): a phase II MRI-based 9-hour window acute stroke thrombolysis trial with intravenous desmoteplase. <i>Stroke</i> 2005;36:66-73.	652	59.3	49
79	Warach S, Chien D, Li W, et al. Fast magnetic resonance diffusion-weighted imaging of acute human stroke. <i>Neurology</i> 1992;42:1717-1723.	650	28.3	86
80	Adams HP, Adams RJ, Brott T, et al. Guidelines for the early management of patients with ischemic stroke a scientific statement from the stroke council of the American stroke association. <i>Stroke</i> 2003;34:1056-1083.	643	53.6	56
81	Stampfer MJ, Colditz GA, Willett WC, et al. A prospective study of moderate alcohol consumption and the risk of coronary disease and stroke in women. <i>N Engl J Med</i> 1988;319:267-273.	638	23.6	95
82	Hylek EM, Go AS, Chang Y, et al. Effect of intensity of oral anticoagulation on stroke severity and mortality in atrial fibrillation. <i>N Engl J Med</i> 2003;349:1019-1026.	633	52.8	57
83	Albers GW, Thijs VN, Wechsler L, et al. Magnetic resonance imaging profiles predict clinical response to early reperfusion: the diffusion and perfusion imaging evaluation for understanding stroke evolution (DEFUSE) study. <i>Ann Neurol</i> 2006;60:508-517.	626	69.6	46
84	Chen ZM, Hui JM, Liu LS, et al. CAST: randomised placebo-controlled trial of early aspirin use in 20,000 patients with acute ischaemic stroke. CAST (Chinese Acute Stroke Trial) Collaborative Group. <i>Lancet</i> 1997;349:1641-1649.	623	34.6	76
85	Keli SO, Hertog MG, Feskens EJ, et al. Dietary flavonoids, antioxidant vitamins, and incidence of stroke: the Zutphen study. <i>Arch Intern Med</i> 1996;156:637-642.	621	32.7	79
86	Rha JH, Saver JL. The Impact of Recanalization on Ischemic Stroke Outcome. <i>Stroke</i> 2007;38:967-973.	619	77.4	40
87	Collins R, Armitage J, Parish S, et al. Effects of cholesterol-lowering with simvastatin on stroke and other major vascular events in 20536 people with cerebrovascular disease or other high-risk conditions. <i>Lancet</i> 2004;363:757-767.	615	55.9	54
88	Cramer SC, Nelles G, Benson RR, et al. A functional MRI study of subjects recovered from hemiparetic stroke. <i>Stroke</i> 1997;28:2518-27.	612	34	78
89	del Zoppo GJ, Poeck K, Pessin MS, et al. Recombinant tissue plasminogen activator in acute thrombotic and embolic stroke. <i>Ann Neurol</i> 1992;32:78-86.	609	26.5	91
90	Barber PA, Demchuk AM, Zhang J, et al. Validity and reliability of a quantitative computed tomography score in predicting outcome of hyperacute stroke before thrombolytic therapy. <i>Lancet</i> 2000;355:1670-1674.	607	40.5	67
91	Wassertheil-Smoller S, Hendrix SL, Limacher M, et al. Effect of estrogen plus progestin on stroke in postmenopausal women: the Women's Health Initiative: a randomized trial. <i>JAMA</i> 2003;289:2673-2684.	601	50.1	61
92	Barone FC, Feuerstein GZ. Inflammatory mediators and stroke: new opportunities for novel therapeutics. <i>J Cereb Blood Flow Metab</i> 1999;19:819-834.	598	37.4	70
93	Feigin VL, Lawes CM, Bennett DA, et al. Worldwide stroke incidence and early case fatality reported in 56 population-based studies: a systematic review. <i>Lancet Neurol</i> 2009;8:355-369.	598	99.7	29
94	Qizilbash N, Lewington S, Duffy S, et al. Cholesterol, diastolic blood pressure, and stroke: 13,000 strokes in 450,000 people in 45 prospective cohorts. Prospective studies collaboration. <i>Lancet</i> 1995;346:1647-1653.	591	29.6	83

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95	Mcbride R, Chesebro JH, Wiebers DO, et al. Warfarin versus aspirin for prevention of thromboembolism in atrial fibrillation: Stroke Prevention in Atrial Fibrillation II Study. <i>Lancet</i> 1994;343:687-691.	588	28	87
96	Bonita R, Beaglehole R. Recovery of motor function after stroke. <i>Stroke</i> . 1988;19:1497-1500.	586	21.7	99
97	Bamford J, Sandercock P, Dennis M, et al. A prospective study of acute cerebrovascular disease in the community: the Oxfordshire Community Stroke Project--1981-86. 2. Incidence, case fatality rates and overall outcome at one year of cerebral infarction, primary intracerebral and subarachnoid haemorrhage. <i>J Neurol Neurosurg Psychiatry</i> 1990;53:16-22.	583	22.4	98
98	Vahedi K, Hofmeijer J, Juettler E, et al. Early decompressive surgery in malignant infarction of the middle cerebral artery: a pooled analysis of three randomised controlled trials. <i>Lancet Neurol</i> 2007;6:215-222.	583	72.9	45
99	Amarenco P, Cohen A, Tzourio C, et al. Atherosclerotic disease of the aortic arch and the risk of ischemic stroke. <i>N Engl J Med</i> 1994;331:1474-1479.	582	27.7	88
100	Joshi KJ, Ascherio A, Manson JE, et al. Fruit and vegetable intake in relation to risk of ischemic stroke. <i>JAMA</i> 1999;282:1233-1239.	580	36.3	74