

Supplementary Table S1. Haplotype for the *PAI-1* seven polymorphisms in ischemic stroke patients, metabolic syndrome patients and controls by MDR

Characteristics	MetS controls (2n=1528)	MetS patients (2n=470)	OR (95% CI)	<i>P</i> ^a	Stroke controls (2n=850)	Stroke patients (2n=1148)	OR (95% CI)	<i>P</i> ^a
<i>PAI-1</i> -844G>A/-675 4G>5G/43G>A/9785G>A/10692T>C/11053T>G/12068G>A								
G-4G-G-G-T-T-G	24 (1.6)	10 (2.2)	1.000 (reference)		18 (2.1)	16 (1.4)	1.000 (reference)	
G-4G-G-G-T-T-A	15 (1.0)	7 (1.5)	1.120 (0.351 - 3.579)	1.000	8 (0.9)	17 (1.5)	2.391 (0.814 - 7.020)	0.122
G-4G-G-G-T-G-G	169 (11.0)	63 (13.4)	0.895 (0.405 - 1.976)	0.837	78 (9.1)	156 (13.6)	2.250 (1.088 - 4.652)	0.035
G-4G-G-G-T-G-A	11 (0.7)	0 (0.0)	0.101 (0.005 - 1.887)	0.089	3 (0.3)	8 (0.7)	3.000 (0.677 - 13.290)	0.177
G-4G-G-G-C-T-G	12 (0.8)	2 (0.3)	0.400 (0.075 - 2.123)	0.465	6 (0.8)	7 (0.6)	1.313 (0.364 - 4.730)	0.752
G-4G-G-G-C-T-A	120 (7.8)	31 (6.7)	0.620 (0.269 - 1.432)	0.261	70 (8.3)	81 (7.1)	1.302 (0.618 - 2.744)	0.570
G-4G-A-G-T-T-G	6 (0.4)	0 (0.0)	0.180 (0.009 - 3.487)	0.307	8 (1.0)	0 (0.0)	0.066 (0.004 - 1.234)	0.016
G-4G-A-G-T-G-G	5 (0.3)	2 (0.4)	0.960 (0.159 - 5.799)	1.000	7 (0.8)	0 (0.0)	0.075 (0.004 - 1.413)	0.031
G-4G-A-G-C-T-A	11 (0.7)	1 (0.2)	0.218 (0.025 - 1.923)	0.242	7 (0.8)	4 (0.3)	0.643 (0.158 - 2.610)	0.730
G-5G-G-G-T-T-G	25 (1.6)	7 (1.5)	0.672 (0.220 - 2.053)	0.578	21 (2.5)	13 (1.1)	0.696 (0.265 - 1.829)	0.624
G-5G-G-G-T-T-A	33 (2.1)	19 (4.1)	1.382 (0.546 - 3.499)	0.641	18 (2.1)	30 (2.6)	1.875 (0.769 - 4.574)	0.183
G-5G-G-G-T-G-G	60 (3.9)	11 (2.2)	0.440 (0.165 - 1.171)	0.120	36 (4.2)	35 (3.0)	1.094 (0.482 - 2.480)	0.838
G-5G-G-G-C-T-G	55 (3.6)	18 (3.7)	0.786 (0.316 - 1.951)	0.641	34 (4.0)	39 (3.4)	1.290 (0.571 - 2.917)	0.678
G-5G-G-G-C-T-A	244 (16.0)	64 (13.5)	0.630 (0.286 - 1.384)	0.273	131 (15.4)	168 (14.6)	1.443 (0.708 - 2.938)	0.364
G-5G-G-G-C-G-A	7 (0.5)	1 (0.2)	0.343 (0.037 - 3.163)	0.657	2 (0.2)	9 (0.8)	5.063 (0.949 - 27.000)	0.079
G-5G-G-A-C-T-G	32 (2.1)	8 (1.6)	0.600 (0.206 - 1.749)	0.420	12 (1.5)	29 (2.5)	2.719 (1.049 - 7.045)	0.058
G-5G-A-G-T-T-G	2 (0.2)	4 (0.8)	4.800 (0.754 - 30.560)	0.159	0 (0.0)	4 (0.4)	10.090 (0.504 - 202.100)	0.107
G-5G-A-G-T-T-A	4 (0.3)	0 (0.0)	0.259 (0.013 - 5.263)	0.556	2 (0.3)	5 (0.4)	2.813 (0.478 - 16.560)	0.410
G-5G-A-G-C-T-G	5 (0.3)	2 (0.5)	0.960 (0.159 - 5.799)	1.000	4 (0.5)	3 (0.3)	0.844 (0.163 - 4.358)	1.000
G-5G-A-G-C-T-A	51 (3.4)	17 (3.7)	0.800 (0.319 - 2.007)	0.641	24 (2.8)	48 (4.2)	2.250 (0.978 - 5.176)	0.060
A-4G-G-G-T-T-G	29 (1.9)	13 (2.8)	1.076 (0.401 - 2.885)	1.000	27 (3.2)	16 (1.4)	0.667 (0.267 - 1.664)	0.486
A-4G-G-G-T-T-A	15 (1.0)	1 (0.3)	0.160 (0.019 - 1.380)	0.080	4 (0.5)	12 (1.0)	3.375 (0.904 - 12.600)	0.076
A-4G-G-G-T-G-G	411 (26.9)	126 (26.8)	0.736 (0.343 - 1.580)	0.412	245 (28.8)	289 (25.2)	1.327 (0.662 - 2.658)	0.480
A-4G-G-G-T-G-A	10 (0.7)	9 (2.0)	2.160 (0.674 - 6.921)	0.239	9 (1.1)	13 (1.1)	1.625 (0.549 - 4.807)	0.423
A-4G-G-G-C-T-G	4 (0.3)	3 (0.6)	1.800 (0.339 - 9.555)	0.659	3 (0.3)	5 (0.4)	1.875 (0.385 - 9.124)	0.697
A-4G-G-G-C-T-A	38 (2.5)	10 (2.2)	0.632 (0.229 - 1.743)	0.438	17 (2.1)	35 (3.0)	2.316 (0.953 - 5.632)	0.075
A-4G-G-G-C-G-G	4 (0.2)	0 (0.0)	0.259 (0.013 - 5.263)	0.556	0 (0.0)	5 (0.4)	12.330 (0.632 - 240.600)	0.050
A-4G-A-G-T-G-G	26 (1.7)	2 (0.4)	0.185 (0.037 - 0.930)	0.050	22 (2.6)	3 (0.3)	0.153 (0.039 - 0.611)	0.005
A-5G-G-G-T-T-G	5 (0.4)	0 (0.0)	0.212 (0.011 - 4.196)	0.302	1 (0.2)	5 (0.4)	5.625 (0.592 - 53.410)	0.186
A-5G-G-G-C-T-A	27 (1.8)	11 (2.3)	0.978 (0.353 - 2.706)	1.000	0 (0.0)	37 (3.2)	84.090 (4.774 - 1481.000)	<0.0001
A-5G-A-G-C-T-A	3 (0.2)	3 (0.7)	2.400 (0.412 - 13.990)	0.370	0 (0.0)	7 (0.6)	16.820 (0.890 - 317.900)	0.012

MetS, metabolic syndrome; 95% CI, 95% confidence interval.

^a Fisher's exact test.

Supplementary Table S2. Haplotype for the *PAI-1* six polymorphisms in ischemic stroke patients, metabolic syndrome patients and controls by MDR

Characteristics	MetS controls (2n=1528)	MetS patients (2n=470)	OR (95% CI)	<i>P</i> ^a	Controls (2n=850)	Stroke patients (2n=1148)	OR (95% CI)	<i>P</i> ^a
<i>PAI-1</i> -844G>A/-675 4G>5G/43G>A/10692T>C/11053T>G/12068G>A								
G-4G-G-T-T-G	29 (1.9)	12 (2.5)	1.000 (reference)		21 (2.5)	19 (1.7)	1.000 (reference)	
G-4G-G-T-T-A	18 (1.2)	7 (1.4)	0.940 (0.312 - 2.830)	1.000	10 (1.2)	17 (1.5)	1.879 (0.693 - 5.097)	0.318
G-4G-G-T-G-G	170 (11.1)	65 (13.8)	0.924 (0.445 - 1.920)	0.851	77 (9.0)	158 (13.8)	2.268 (1.151 - 4.467)	0.020
G-4G-G-T-G-A	11 (0.7)	0 (0.0)	0.103 (0.006 - 1.881)	0.050	4 (0.4)	9 (0.8)	2.487 (0.657 - 9.418)	0.213
G-4G-G-C-T-G	17 (1.1)	2 (0.4)	0.284 (0.057 - 1.426)	0.189	8 (0.9)	9 (0.8)	1.243 (0.399 - 3.876)	0.777
G-4G-G-C-T-A	118 (7.8)	31 (6.6)	0.635 (0.291 - 1.386)	0.293	71 (8.3)	80 (7.0)	1.245 (0.620 - 2.503)	0.595
G-4G-A-T-T-G	7 (0.4)	0 (0.0)	0.157 (0.008 - 2.973)	0.169	8 (1.0)	0 (0.0)	0.065 (0.004 - 1.200)	0.015
G-4G-A-T-G-G	5 (0.4)	2 (0.4)	0.967 (0.164 - 5.692)	1.000	8 (1.0)	0 (0.0)	0.065 (0.004 - 1.200)	0.015
G-4G-A-C-T-G	1 (0.1)	2 (0.3)	4.833 (0.399 - 58.500)	0.234	3 (0.4)	0 (0.0)	0.158 (0.008 - 3.249)	0.243
G-4G-A-C-T-A	12 (0.8)	1 (0.2)	0.201 (0.023 - 1.726)	0.151	6 (0.7)	4 (0.4)	0.737 (0.180 - 3.017)	0.736
G-4G-A-C-G-G	3 (0.2)	0 (0.0)	0.337 (0.016 - 7.026)	0.551	1 (0.2)	2 (0.2)	2.211 (0.185 - 26.400)	0.607
G-5G-G-T-T-G	28 (1.8)	7 (1.5)	0.604 (0.208 - 1.757)	0.430	21 (2.5)	16 (1.4)	0.842 (0.343 - 2.070)	0.820
G-5G-G-T-T-A	32 (2.1)	20 (4.2)	1.510 (0.630 - 3.622)	0.387	17 (2.0)	30 (2.6)	1.950 (0.825 - 4.609)	0.137
G-5G-G-T-G-G	59 (3.9)	11 (2.3)	0.451 (0.178 - 1.143)	0.097	36 (4.2)	34 (3.0)	1.044 (0.480 - 2.272)	1.000
G-5G-G-T-G-A	9 (0.6)	1 (0.3)	0.269 (0.031 - 2.360)	0.419	5 (0.6)	5 (0.4)	1.105 (0.276 - 4.422)	1.000
G-5G-G-C-T-G	88 (5.8)	26 (5.5)	0.714 (0.320 - 1.593)	0.406	47 (5.5)	69 (6.0)	1.623 (0.787 - 3.344)	0.201
G-5G-G-C-T-A	247 (16.1)	62 (13.3)	0.607 (0.293 - 1.257)	0.220	134 (15.8)	167 (14.5)	1.377 (0.711 - 2.668)	0.399
G-5G-G-C-G-G	2 (0.1)	2 (0.4)	2.417 (0.304 - 19.200)	0.578	2 (0.2)	2 (0.2)	1.105 (0.141 - 8.640)	1.000
G-5G-G-C-G-A	8 (0.5)	1 (0.3)	0.302 (0.034 - 2.687)	0.414	3 (0.4)	9 (0.8)	3.316 (0.780 - 14.090)	0.113
G-5G-A-T-T-G	4 (0.2)	4 (0.8)	2.417 (0.518 - 11.280)	0.411	0 (0.0)	5 (0.4)	12.130 (0.629 - 234.000)	0.051
G-5G-A-T-T-A	4 (0.3)	0 (0.0)	0.262 (0.013 - 5.248)	0.561	4 (0.4)	4 (0.4)	1.105 (0.242 - 5.048)	1.000
G-5G-A-C-T-G	5 (0.3)	2 (0.4)	0.967 (0.164 - 5.692)	1.000	4 (0.4)	3 (0.2)	0.829 (0.164 - 4.192)	1.000
G-5G-A-C-T-A	51 (3.3)	17 (3.7)	0.806 (0.338 - 1.920)	0.659	23 (2.7)	48 (4.2)	2.307 (1.041 - 5.109)	0.045
A-4G-G-T-T-G	28 (1.9)	17 (3.6)	1.467 (0.595 - 3.621)	0.495	27 (3.2)	19 (1.7)	0.778 (0.331 - 1.828)	0.665
A-4G-G-T-T-A	16 (1.1)	1 (0.3)	0.151 (0.018 - 1.271)	0.083	5 (0.6)	12 (1.0)	2.653 (0.788 - 8.933)	0.149
A-4G-G-T-G-G	410 (26.8)	125 (26.5)	0.737 (0.365 - 1.487)	0.446	243 (28.6)	288 (25.1)	1.310 (0.688 - 2.494)	0.417
A-4G-G-T-G-A	10 (0.7)	11 (2.3)	2.658 (0.894 - 7.901)	0.098	10 (1.1)	13 (1.1)	1.437 (0.512 - 4.033)	0.603
A-4G-G-C-T-A	39 (2.5)	11 (2.3)	0.682 (0.264 - 1.761)	0.474	18 (2.1)	36 (3.2)	2.211 (0.954 - 5.120)	0.090
A-4G-G-C-G-G	4 (0.2)	0 (0.0)	0.262 (0.013 - 5.248)	0.561	0 (0.0)	5 (0.5)	12.130 (0.629 - 234.000)	0.051
A-4G-A-T-G-G	26 (1.7)	2 (0.4)	0.186 (0.038 - 0.910)	0.033	23 (2.7)	4 (0.3)	0.192 (0.056 - 0.658)	0.008
A-5G-G-T-T-G	5 (0.4)	0 (0.0)	0.215 (0.011 - 4.184)	0.306	1 (0.2)	4 (0.4)	4.421 (0.453 - 43.140)	0.346
A-5G-G-C-T-A	27 (1.8)	12 (2.6)	1.074 (0.413 - 2.796)	1.000	0 (0.0)	39 (3.4)	87.100 (5.005 - 1516.000)	<0.0001
A-5G-A-C-T-A	3 (0.2)	3 (0.7)	2.417 (0.426 - 13.720)	0.367	0 (0.0)	7 (0.6)	16.540 (0.885 - 309.200)	0.012

MetS, metabolic syndrome; 95% CI, 95% confidence interval.

^a Fisher's exact test.

Supplementary Table S3. Haplotype for the *PAI-1* five and four polymorphisms in ischemic stroke patients, metabolic syndrome patients and controls by MDR

Characteristics	MetS controls (2n=1528)	MetS patients (2n=470)	OR (95% CI)	<i>P</i> ^a	Controls (2n=850)	Stroke patients (2n=1148)	OR (95% CI)	<i>P</i> ^a
<i>PAI-1</i> -844G>A/-675 4G>5G/10692T>C/11053T>G/12068G>A								
G-4G-T-T-G	36 (2.4)	13 (2.7)	1.000 (reference)		29 (3.4)	20 (1.8)	1.000 (reference)	
G-4G-T-T-A	18 (1.2)	7 (1.5)	1.077 (0.366 - 3.169)	1.000	10 (1.1)	16 (1.4)	2.320 (0.876 - 6.146)	0.097
G-4G-T-G-G	174 (11.4)	66 (14.0)	1.050 (0.524 - 2.104)	1.000	87 (10.2)	155 (13.5)	2.583 (1.379 - 4.838)	0.004
G-4G-T-G-A	13 (0.8)	0 (0.0)	0.100 (0.006 - 1.805)	0.053	3 (0.4)	12 (1.0)	5.800 (1.448 - 23.240)	0.016
G-4G-C-T-G	17 (1.1)	3 (0.6)	0.489 (0.123 - 1.946)	0.364	11 (1.3)	8 (0.7)	1.055 (0.360 - 3.088)	1.000
G-4G-C-T-A	131 (8.6)	33 (7.0)	0.698 (0.333 - 1.463)	0.331	77 (9.0)	85 (7.4)	1.601 (0.837 - 3.060)	0.192
G-4G-C-G-G	5 (0.3)	3 (0.6)	1.662 (0.347 - 7.954)	0.674	2 (0.2)	5 (0.4)	3.625 (0.639 - 20.580)	0.223
G-5G-T-T-G	31 (2.0)	10 (2.2)	0.893 (0.344 - 2.320)	1.000	21 (2.4)	21 (1.8)	1.450 (0.632 - 3.329)	0.406
G-5G-T-T-A	36 (2.4)	21 (4.4)	1.615 (0.703 - 3.712)	0.300	22 (2.5)	34 (2.9)	2.241 (1.025 - 4.901)	0.051
G-5G-T-G-G	60 (3.9)	11 (2.4)	0.508 (0.206 - 1.253)	0.166	35 (4.2)	35 (3.0)	1.450 (0.693 - 3.032)	0.355
G-5G-T-G-A	8 (0.5)	1 (0.3)	0.346 (0.039 - 3.044)	0.431	5 (0.5)	5 (0.4)	1.450 (0.371 - 5.675)	0.729
G-5G-C-T-G	93 (6.1)	28 (5.9)	0.834 (0.389 - 1.787)	0.694	51 (6.0)	70 (6.1)	1.990 (1.014 - 3.907)	0.062
G-5G-C-T-A	298 (19.5)	79 (16.7)	0.734 (0.372 - 1.451)	0.361	158 (18.6)	217 (18.9)	1.991 (1.087 - 3.649)	0.032
G-5G-C-G-A	8 (0.5)	1 (0.2)	0.346 (0.039 - 3.044)	0.431	3 (0.4)	9 (0.8)	4.350 (1.045 - 18.100)	0.052
A-4G-T-T-G	31 (2.0)	16 (3.5)	1.429 (0.596 - 3.431)	0.507	27 (3.1)	20 (1.8)	1.074 (0.477 - 2.419)	1.000
A-4G-T-T-A	16 (1.0)	3 (0.6)	0.519 (0.130 - 2.078)	0.526	5 (0.6)	12 (1.1)	3.480 (1.060 - 11.430)	0.049
A-4G-T-G-G	436 (28.5)	127 (26.9)	0.807 (0.415 - 1.568)	0.594	265 (31.2)	295 (25.7)	1.614 (0.892 - 2.922)	0.136
A-4G-T-G-A	16 (1.0)	11 (2.3)	1.904 (0.703 - 5.155)	0.302	12 (1.4)	13 (1.1)	1.571 (0.596 - 4.143)	0.460
A-4G-C-T-G	8 (0.5)	2 (0.5)	0.692 (0.130 - 3.695)	1.000	5 (0.6)	6 (0.5)	1.740 (0.466 - 6.493)	0.507
A-4G-C-T-A	38 (2.5)	10 (2.2)	0.729 (0.284 - 1.870)	0.634	17 (2.1)	35 (3.1)	2.985 (1.324 - 6.729)	0.010
A-4G-C-G-G	4 (0.3)	0 (0.0)	0.300 (0.015 - 5.965)	0.561	0 (0.0)	5 (0.4)	15.830 (0.828 - 302.500)	0.017
A-5G-T-T-G	6 (0.4)	0 (0.0)	0.208 (0.011 - 3.950)	0.317	1 (0.2)	4 (0.4)	5.800 (0.602 - 55.840)	0.159
A-5G-T-G-G	7 (0.5)	4 (0.9)	1.582 (0.397 - 6.308)	0.712	1 (0.2)	12 (1.0)	17.400 (2.092 - 144.800)	0.001
A-5G-C-T-A	28 (1.9)	16 (3.5)	1.582 (0.654 - 3.827)	0.372	0 (0.0)	43 (3.8)	125.200 (7.280 - 2153.000)	<0.0001
<i>PAI-1</i> -844G>A/-675 4G>5G/43G>A/10692T>C								
G-4G-G-T	222 (14.5)	84 (17.9)	1.000 (reference)		112 (13.2)	198 (17.2)	1.000 (reference)	
G-4G-G-C	143 (9.4)	36 (7.7)	0.665 (0.427 - 1.037)	0.081	82 (9.6)	94 (8.2)	0.648 (0.445 - 0.945)	0.027
G-4G-A-T	16 (1.1)	2 (0.5)	0.330 (0.074 - 1.468)	0.172	15 (1.7)	4 (0.3)	0.151 (0.049 - 0.466)	0.0003
G-4G-A-C	14 (0.9)	3 (0.6)	0.566 (0.159 - 2.021)	0.575	11 (1.3)	6 (0.5)	0.309 (0.111 - 0.857)	0.022
G-5G-G-T	131 (8.6)	37 (7.8)	0.747 (0.479 - 1.163)	0.226	77 (9.1)	86 (7.5)	0.632 (0.430 - 0.929)	0.023
G-5G-G-C	344 (22.5)	90 (19.2)	0.691 (0.491 - 0.973)	0.035	188 (22.1)	249 (21.7)	0.749 (0.555 - 1.011)	0.059
G-5G-A-T	11 (0.7)	8 (1.7)	1.922 (0.747 - 4.945)	0.192	6 (0.7)	12 (1.0)	1.131 (0.413 - 3.098)	1.000
G-5G-A-C	51 (3.3)	17 (3.6)	0.881 (0.482 - 1.611)	0.764	24 (2.9)	45 (3.9)	1.061 (0.614 - 1.833)	0.890
A-4G-G-T	461 (30.2)	152 (32.4)	0.871 (0.639 - 1.189)	0.423	281 (33.1)	331 (28.8)	0.666 (0.503 - 0.883)	0.005
A-4G-G-C	48 (3.2)	16 (3.4)	0.881 (0.474 - 1.636)	0.758	23 (2.7)	44 (3.9)	1.082 (0.621 - 1.885)	0.888
A-4G-A-T	36 (2.4)	1 (0.3)	0.073 (0.010 - 0.544)	0.0004	28 (3.3)	7 (0.6)	0.141 (0.060 - 0.334)	<0.0001
A-4G-A-C	4 (0.2)	0 (0.0)	0.293 (0.016 - 5.497)	0.578	0 (0.0)	3 (0.3)	3.967 (0.203 - 77.560)	0.555
A-5G-G-T	9 (0.6)	5 (1.0)	1.468 (0.478 - 4.509)	0.545	3 (0.3)	17 (1.5)	3.205 (0.919 - 11.180)	0.087
A-5G-G-C	33 (2.2)	14 (3.0)	1.121 (0.572 - 2.200)	0.729	0 (0.0)	40 (3.5)	45.910 (2.794 - 754.300)	<0.0001
A-5G-A-T	4 (0.3)	0 (0.0)	0.293 (0.016 - 5.497)	0.578	0 (0.0)	2 (0.1)	2.834 (0.135 - 59.590)	0.538
A-5G-A-C	0 (0.0)	5 (1.0)	28.960 (1.583 - 529.900)	0.002	0 (0.0)	9 (0.8)	10.770 (0.621 - 186.900)	0.030

MetS, metabolic syndrome; 95% CI, 95% confidence interval.

^a Fisher's exact test.

Supplementary Table S4. Haplotype for the *PAI-1* three and two polymorphisms in ischemic stroke patients, metabolic syndrome patients and controls by MDR

Characteristics	MetS controls (2n=1528)	MetS patients (2n=470)	OR (95% CI)	<i>P</i> ^a	Controls (2n=850)	Stroke patients (2n=1148)	OR (95% CI)	<i>P</i> ^a
<i>PAI-1</i> -844G>A/-675 4G>5G/10692T>C								
G-4G-T	238 (15.6)	86 (18.3)	1.000 (reference)		127 (15.0)	201 (17.6)	1.000 (reference)	
G-4G-C	157 (10.3)	39 (8.3)	0.688 (0.448 - 1.056)	0.091	92 (10.9)	101 (8.8)	0.694 (0.484 - 0.994)	0.054
G-5G-T	140 (9.2)	44 (9.4)	0.870 (0.572 - 1.323)	0.528	83 (9.8)	98 (8.6)	0.746 (0.517 - 1.077)	0.133
G-5G-C	396 (25.9)	107 (22.8)	0.748 (0.540 - 1.036)	0.092	212 (25.0)	294 (25.6)	0.876 (0.660 - 1.164)	0.387
A-4G-T	497 (32.6)	154 (32.8)	0.858 (0.632 - 1.164)	0.344	309 (36.4)	339 (29.5)	0.693 (0.529 - 0.909)	0.008
A-4G-C	52 (3.4)	16 (3.3)	0.852 (0.462 - 1.571)	0.652	23 (2.8)	47 (4.1)	1.291 (0.748 - 2.229)	0.416
A-5G-T	14 (0.9)	4 (0.9)	0.791 (0.253 - 2.469)	0.790	3 (0.3)	19 (1.6)	4.002 (1.160 - 13.800)	0.021
A-5G-C	32 (2.1)	19 (4.0)	1.643 (0.885 - 3.052)	0.131	0 (0.0)	49 (4.3)	62.640 (3.827 - 1025.000)	<0.0001
<i>PAI-1</i> -844G>A/-675 4G>5G								
G-4G	398 (26.0)	125 (26.7)	1.000 (reference)		220 (25.9)	304 (26.5)	1.000 (reference)	
G-5G	534 (35.0)	152 (32.3)	0.906 (0.692 - 1.187)	0.490	295 (34.7)	390 (34.0)	0.957 (0.760 - 1.204)	0.725
A-4G	547 (35.8)	170 (36.1)	0.955 (0.732 - 1.246)	0.734	332 (39.1)	384 (33.5)	0.837 (0.667 - 1.051)	0.133
A-5G	49 (3.2)	23 (5.0)	1.884 (1.141 - 3.111)	0.018	3 (0.3)	70 (6.1)	16.890 (5.247 - 54.340)	<0.0001

MetS, metabolic syndrome; 95% CI, 95% confidence interval.

^a Fisher's exact test.

Supplementary Table S5. Combined genotype analysis for the *PAI-1* polymorphisms in ischemic metabolic syndrome patients, stroke patients and controls

Genotype	MetS controls (n=764)	MetS patients (n=235)	OR (95% CI)	P	Stroke controls (n=425)	Stroke patients (n=574)	AOR (95% CI) ^a	P
<i>PAI-1</i> -844G>A/-675 4G>5G								
GG-4G4G	63 (8.2)	14 (6.0)	1.000 (reference)		38 (8.9)	39 (6.8)	1.000 (reference)	
GG-4G5G	121 (15.8)	34 (14.5)	1.265 (0.632 - 2.528)	0.507	71 (16.7)	84 (14.6)	1.124 (0.625 - 2.024)	0.696
GG-5G5G	104 (13.6)	27 (11.5)	1.168 (0.570 - 2.394)	0.671	53 (12.5)	78 (13.6)	1.328 (0.715 - 2.467)	0.370
GA-4G4G	138 (18.1)	57 (24.3)	1.859 (0.964 - 3.583)	0.064	72 (16.9)	123 (21.4)	1.439 (0.815 - 2.540)	0.209
GA-4G5G	206 (27.0)	62 (26.4)	1.354 (0.711 - 2.581)	0.357	117 (27.5)	151 (26.3)	1.100 (0.646 - 1.872)	0.727
GA-5G5G	12 (1.6)	8 (3.4)	3.000 (1.034 - 8.709)	0.043	2 (0.5)	18 (3.1)	8.389 (1.671 - 42.110)	0.010
AA-4G4G	102 (13.4)	26 (11.1)	1.147 (0.557 - 2.361)	0.709	72 (16.9)	56 (9.8)	0.709 (0.377 - 1.334)	0.287
AA-4G5G	12 (1.6)	5 (2.1)	1.875 (0.569 - 6.183)	0.302	0 (0.0)	17 (3.0)	N/A	N/A
AA-5G5G	6 (0.8)	2 (0.9)	1.500 (0.274 - 8.227)	0.641	0 (0.0)	8 (1.4)	N/A	N/A
<i>PAI-1</i> -844G>A/43G>A								
GG-GG	231 (30.2)	56 (23.8)	1.000 (reference)		128 (30.1)	159 (27.7)	1.000 (reference)	
GG-GA	52 (6.8)	18 (7.7)	1.428 (0.776 - 2.629)	0.253	30 (7.1)	40 (7.0)	1.216 (0.693 - 2.135)	0.496
GG-AA	5 (0.7)	1 (0.4)	0.825 (0.095 - 7.202)	0.862	4 (0.9)	2 (0.3)	0.326 (0.054 - 1.962)	0.221
GA-GG	309 (40.4)	114 (48.5)	1.522 (1.059 - 2.187)	0.023	162 (38.1)	261 (45.5)	1.203 (0.877 - 1.652)	0.252
GA-GA	42 (5.5)	13 (5.5)	1.277 (0.642 - 2.538)	0.486	26 (6.1)	29 (5.1)	0.802 (0.435 - 1.480)	0.480
GA-AA	5 (0.7)	0 (0.0)	0.000 (0.000 - 0.000)	0.995	3 (0.7)	2 (0.3)	0.720 (0.111 - 4.658)	0.730
AA-GG	99 (13.0)	30 (12.8)	1.250 (0.757 - 2.065)	0.384	58 (13.6)	71 (12.4)	1.012 (0.653 - 1.569)	0.958
AA-GA	20 (2.6)	3 (1.3)	0.619 (0.178 - 2.156)	0.451	14 (3.3)	9 (1.6)	0.642 (0.256 - 1.608)	0.344
AA-AA	1 (0.1)	0 (0.0)	N/A	N/A	0 (0.0)	1 (0.2)	N/A	N/A
<i>PAI-1</i> -844G>A/9785G>A								
GG-GG	254 (33.2)	69 (29.4)	1.000 (reference)		147 (34.6)	176 (30.7)	1.000 (reference)	
GG-GA	32 (4.2)	6 (2.6)	0.690 (0.277 - 1.718)	0.425	14 (3.3)	24 (4.2)	1.412 (0.678 - 2.942)	0.357
GG-AA	2 (0.3)	0 (0.0)	0.000 (0.000 - 0.000)	0.994	1 (0.2)	1 (0.2)	N/A	N/A
GA-GG	335 (43.8)	120 (51.1)	1.319 (0.940 - 1.849)	0.109	178 (41.9)	277 (48.3)	1.176 (0.869 - 1.592)	0.293
GA-GA	21 (2.7)	7 (3.0)	1.227 (0.501 - 3.006)	0.654	13 (3.1)	15 (2.6)	0.884 (0.388 - 2.013)	0.768
GA-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-GG	119 (15.6)	30 (12.8)	0.928 (0.574 - 1.501)	0.761	71 (16.7)	78 (13.6)	0.944 (0.627 - 1.421)	0.782
AA-GA	1 (0.1)	3 (1.3)	11.044 (1.131 - 107.839)	0.039	1 (0.2)	3 (0.5)	1.718 (0.165 - 17.924)	0.651
AA-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
<i>PAI-1</i> -844G>A/10692T>C								
GG-TT	70 (9.2)	21 (8.9)	1.000 (reference)		37 (8.7)	54 (9.4)	1.000 (reference)	
GG-TC	112 (14.7)	26 (11.1)	0.774 (0.405 - 1.479)	0.438	67 (15.8)	71 (12.4)	0.789 (0.446 - 1.398)	0.417
GG-CC	106 (13.9)	28 (11.9)	0.881 (0.464 - 1.672)	0.697	58 (13.6)	76 (13.2)	0.898 (0.503 - 1.604)	0.716
GA-TT	103 (13.5)	50 (21.3)	1.618 (0.894 - 2.929)	0.112	64 (15.1)	89 (15.5)	0.802 (0.456 - 1.412)	0.445
GA-TC	236 (30.9)	68 (28.9)	0.961 (0.550 - 1.677)	0.887	123 (28.9)	181 (31.5)	0.964 (0.585 - 1.589)	0.886
GA-CC	17 (2.2)	9 (3.8)	1.765 (0.687 - 4.535)	0.238	4 (0.9)	22 (3.8)	4.035 (1.145 - 14.217)	0.030
AA-TT	79 (10.3)	21 (8.9)	0.886 (0.447 - 1.758)	0.729	58 (13.6)	42 (7.3)	0.455 (0.238 - 0.872)	0.018
AA-TC	38 (5.0)	11 (4.7)	0.965 (0.421 - 2.212)	0.933	14 (3.3)	35 (6.1)	2.659 (1.126 - 6.276)	0.026
AA-CC	3 (0.4)	1 (0.4)	1.111 (0.110 - 11.252)	0.929	0 (0.0)	4 (0.7)	N/A	N/A
<i>PAI-1</i> -844G>A/11053T>G								
GG-TT	147 (19.2)	41 (17.4)	1.000 (reference)		83 (19.5)	105 (18.3)	1.000 (reference)	
GG-TG	103 (13.5)	27 (11.5)	0.940 (0.544 - 1.624)	0.824	66 (15.5)	64 (11.1)	0.791 (0.491 - 1.273)	0.334
GG-GG	38 (5.0)	7 (3.0)	0.661 (0.275 - 1.588)	0.354	13 (3.1)	32 (5.6)	1.896 (0.896 - 4.011)	0.094
GA-TT	50 (6.5)	22 (9.4)	1.578 (0.858 - 2.901)	0.143	24 (5.6)	48 (8.4)	1.284 (0.702 - 2.350)	0.417
GA-TG	234 (30.6)	71 (30.2)	1.088 (0.703 - 1.683)	0.705	128 (30.1)	177 (30.8)	1.059 (0.721 - 1.554)	0.772
GA-GG	72 (9.4)	34 (14.5)	1.693 (0.992 - 2.891)	0.054	39 (9.2)	67 (11.7)	1.123 (0.662 - 1.903)	0.667
AA-TT	9 (1.2)	5 (2.1)	1.992 (0.633 - 6.270)	0.239	1 (0.2)	13 (2.3)	10.968 (1.351 - 89.059)	0.025
AA-TG	41 (5.4)	8 (3.4)	0.700 (0.304 - 1.609)	0.401	23 (5.4)	26 (4.5)	1.000 (0.509 - 1.964)	0.999
AA-GG	70 (9.2)	20 (8.5)	1.024 (0.559 - 1.877)	0.938	48 (11.3)	42 (7.3)	0.675 (0.393 - 1.159)	0.154

MetS, metabolic syndrome; 95% CI, 95% confidence interval; AOR, adjusted odds ratio; N/A, not applicable.

^a Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

Supplementary Table S6. Combined genotype analysis for the *PAI-1* polymorphisms in ischemic metabolic syndrome patients, stroke patients and controls

Genotype	MetS controls (n=764)	MetS patients (n=235)	OR (95% CI)	P	Stroke controls (n=425)	Stroke patients (n=574)	AOR (95% CI) ^a	P
<i>PAI-1</i> -844G>A/12068G>A								
GG-GG	70 (9.2)	19 (8.1)	1.000 (reference)		37 (8.7)	52 (9.1)	1.000 (reference)	
GG-GA	135 (17.7)	35 (14.9)	0.955 (0.509 - 1.791)	0.886	82 (19.3)	88 (15.3)	0.895 (0.506 - 1.583)	0.703
GG-AA	83 (10.9)	21 (8.9)	0.932 (0.464 - 1.872)	0.843	43 (10.1)	61 (10.6)	1.069 (0.582 - 1.963)	0.831
GA-GG	117 (15.3)	49 (20.9)	1.543 (0.841 - 2.831)	0.161	72 (16.9)	94 (16.4)	0.773 (0.440 - 1.356)	0.369
GA-GA	213 (27.9)	62 (26.4)	1.072 (0.600 - 1.916)	0.814	110 (25.9)	165 (28.7)	1.064 (0.634 - 1.785)	0.814
GA-AA	26 (3.4)	16 (6.8)	2.267 (1.016 - 5.061)	0.046	9 (2.1)	33 (5.7)	2.316 (0.909 - 5.900)	0.079
AA-GG	78 (10.2)	20 (8.5)	0.945 (0.466 - 1.914)	0.874	54 (12.7)	44 (7.7)	0.540 (0.279 - 1.049)	0.069
AA-GA	35 (4.6)	13 (5.5)	1.368 (0.606 - 3.088)	0.450	18 (4.2)	30 (5.2)	1.498 (0.665 - 3.377)	0.329
AA-AA	7 (0.9)	0 (0.0)	N/A	N/A	0 (0.0)	7 (1.2)	N/A	N/A
<i>PAI-1</i> -675 4G>5G/43G>A								
4G4G-GG	258 (33.8)	94 (40.0)	1.000 (reference)		144 (33.9)	208 (36.2)	1.000 (reference)	
4G4G-GA	44 (5.8)	2 (0.9)	0.125 (0.030 - 0.525)	0.005	37 (8.7)	9 (1.6)	0.194 (0.088 - 0.428)	0.0001
4G4G-AA	1 (0.1)	1 (0.4)	2.745 (0.170 - 44.326)	0.477	1 (0.2)	1 (0.2)	0.400 (0.024 - 6.709)	0.524
4G5G-GG	288 (37.7)	79 (33.6)	0.753 (0.534 - 1.061)	0.105	162 (38.1)	205 (35.7)	0.867 (0.636 - 1.180)	0.364
4G5G-GA	44 (5.8)	22 (9.4)	1.372 (0.781 - 2.411)	0.271	22 (5.2)	44 (7.7)	1.312 (0.725 - 2.374)	0.371
4G5G-AA	7 (0.9)	0 (0.0)	N/A	N/A	4 (0.9)	3 (0.5)	0.709 (0.137 - 3.678)	0.683
5G5G-GG	93 (12.2)	27 (11.5)	0.797 (0.489 - 1.300)	0.363	42 (9.9)	78 (13.6)	1.244 (0.786 - 1.968)	0.351
5G5G-GA	26 (3.4)	10 (4.3)	1.056 (0.490 - 2.272)	0.890	11 (2.6)	25 (4.4)	2.071 (0.937 - 4.578)	0.072
5G5G-AA	3 (0.4)	0 (0.0)	N/A	N/A	2 (0.5)	1 (0.2)	0.366 (0.030 - 4.445)	0.430
<i>PAI-1</i> -675 4G>5G/9785G>A								
4G4G-GG	289 (37.8)	91 (38.7)	1.000 (reference)		171 (40.2)	209 (36.4)	1.000 (reference)	
4G4G-GA	14 (1.8)	6 (2.6)	1.361 (0.508 - 3.645)	0.540	11 (2.6)	9 (1.6)	0.530 (0.198 - 1.421)	0.207
4G4G-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
4G5G-GG	318 (41.6)	97 (41.3)	0.969 (0.698 - 1.344)	0.849	178 (41.9)	237 (41.3)	1.056 (0.787 - 1.417)	0.716
4G5G-GA	21 (2.7)	4 (1.7)	0.605 (0.202 - 1.808)	0.368	10 (2.4)	15 (2.6)	1.148 (0.485 - 2.717)	0.754
4G5G-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
5G5G-GG	101 (13.2)	31 (13.2)	0.975 (0.612 - 1.554)	0.914	47 (11.1)	85 (14.8)	1.543 (0.999 - 2.384)	0.051
5G5G-GA	19 (2.5)	6 (2.6)	1.003 (0.389 - 2.587)	0.995	7 (1.6)	18 (3.1)	2.221 (0.863 - 5.721)	0.098
5G5G-AA	2 (0.3)	0 (0.0)	N/A	N/A	1 (0.2)	1 (0.2)	N/A	N/A
<i>PAI-1</i> -675 4G>5G/10692T>C								
4G4G-TT	174 (22.8)	64 (27.2)	1.000 (reference)		109 (25.6)	129 (22.5)	1.000 (reference)	
4G4G-TC	109 (14.3)	29 (12.3)	0.723 (0.439 - 1.192)	0.204	63 (14.8)	75 (13.1)	1.200 (0.762 - 1.888)	0.431
4G4G-CC	20 (2.6)	4 (1.7)	0.544 (0.179 - 1.652)	0.283	10 (2.4)	14 (2.4)	1.587 (0.627 - 4.018)	0.330
4G5G-TT	64 (8.4)	23 (9.8)	0.977 (0.560 - 1.704)	0.935	42 (9.9)	45 (7.8)	0.922 (0.546 - 1.558)	0.763
4G5G-TC	234 (30.6)	65 (27.7)	0.755 (0.508 - 1.123)	0.166	123 (28.9)	176 (30.7)	1.268 (0.882 - 1.824)	0.200
4G5G-CC	41 (5.4)	13 (5.5)	0.862 (0.434 - 1.713)	0.672	23 (5.4)	31 (5.4)	1.028 (0.536 - 1.974)	0.933
5G5G-TT	14 (1.8)	5 (2.1)	0.971 (0.336 - 2.804)	0.957	8 (1.9)	11 (1.9)	1.127 (0.397 - 3.200)	0.823
5G5G-TC	43 (5.6)	11 (4.7)	0.696 (0.338 - 1.431)	0.324	18 (4.2)	36 (6.3)	1.983 (1.011 - 3.891)	0.047
5G5G-CC	65 (8.5)	21 (8.9)	0.878 (0.497 - 1.552)	0.655	29 (6.8)	57 (9.9)	1.803 (1.030 - 3.154)	0.039
<i>PAI-1</i> -675 4G>5G/11053T>G								
4G4G-TT	42 (5.5)	14 (6.0)	1.000 (reference)		24 (5.6)	32 (5.6)	1.000 (reference)	
4G4G-TG	123 (16.1)	31 (13.2)	0.756 (0.367 - 1.556)	0.448	80 (18.8)	74 (12.9)	0.758 (0.388 - 1.479)	0.416
4G4G-GG	138 (18.1)	52 (22.1)	1.130 (0.571 - 2.240)	0.725	78 (18.4)	112 (19.5)	0.944 (0.494 - 1.807)	0.863
4G5G-TT	74 (9.7)	25 (10.6)	1.014 (0.476 - 2.158)	0.972	44 (10.4)	55 (9.6)	0.884 (0.438 - 1.784)	0.730
4G5G-TG	227 (29.7)	67 (28.5)	0.886 (0.456 - 1.719)	0.719	124 (29.2)	170 (29.6)	0.960 (0.526 - 1.754)	0.895
4G5G-GG	38 (5.0)	9 (3.8)	0.711 (0.276 - 1.829)	0.479	20 (4.7)	27 (4.7)	1.047 (0.445 - 2.465)	0.917
5G5G-TT	90 (11.8)	29 (12.3)	0.967 (0.463 - 2.017)	0.928	40 (9.4)	79 (13.8)	1.552 (0.754 - 3.194)	0.233
5G5G-TG	28 (3.7)	8 (3.4)	0.857 (0.318 - 2.311)	0.761	13 (3.1)	23 (4.0)	1.267 (0.483 - 3.326)	0.630
5G5G-GG	4 (0.5)	0 (0.0)	N/A	N/A	2 (0.5)	2 (0.3)	0.552 (0.060 - 5.083)	0.600

MetS, metabolic syndrome; 95% CI, 95% confidence interval; AOR, adjusted odds ratio; N/A, not applicable.

^a Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

Supplementary Table S7. Combined genotype analysis for the *PAI-1* polymorphisms in ischemic metabolic syndrome patients, stroke patients and controls

Genotype	MetS controls (n=764)	MetS patients (n=235)	OR (95% CI)	P	Stroke controls (n=425)	Stroke patients (n=574)	AOR (95% CI) ^a	P
<i>PAI-1</i> -675 4G>5G/12068G>A								
4G4G-GG	162 (21.2)	61 (26.0)	1.000 (reference)		101 (23.8)	122 (21.3)	1.000 (reference)	
4G4G-GA	119 (15.6)	30 (12.8)	0.670 (0.407 - 1.101)	0.114	71 (16.7)	78 (13.6)	1.107 (0.707 - 1.733)	0.657
4G4G-AA	22 (2.9)	6 (2.6)	0.724 (0.280 - 1.872)	0.506	10 (2.4)	18 (3.1)	1.690 (0.699 - 4.084)	0.244
4G5G-GG	86 (11.3)	21 (8.9)	0.649 (0.370 - 1.136)	0.130	56 (13.2)	51 (8.9)	0.729 (0.445 - 1.194)	0.210
4G5G-GA	206 (27.0)	63 (26.8)	0.812 (0.540 - 1.221)	0.317	110 (25.9)	159 (27.7)	1.343 (0.913 - 1.975)	0.134
4G5G-AA	47 (6.2)	17 (7.2)	0.961 (0.513 - 1.800)	0.900	22 (5.2)	42 (7.3)	1.640 (0.880 - 3.057)	0.120
5G5G-GG	17 (2.2)	6 (2.6)	0.937 (0.353 - 2.488)	0.897	6 (1.4)	17 (3.0)	2.430 (0.852 - 6.931)	0.097
5G5G-GA	58 (7.6)	17 (7.2)	0.778 (0.421 - 1.441)	0.425	29 (6.8)	46 (8.0)	1.637 (0.916 - 2.927)	0.096
5G5G-AA	47 (6.2)	14 (6.0)	0.791 (0.407 - 1.539)	0.490	20 (4.7)	41 (7.1)	1.908 (1.002 - 3.631)	0.049
<i>PAI-1</i> 43G>A/9785G>A								
GG-GG	591 (77.4)	185 (78.7)	1.000 (reference)		325 (76.5)	451 (78.6)	1.000 (reference)	
GG-GA	46 (6.0)	15 (6.4)	1.042 (0.568 - 1.909)	0.895	22 (5.2)	39 (6.8)	1.177 (0.671 - 2.066)	0.569
GG-AA	2 (0.3)	0 (0.0)	N/A	N/A	1 (0.2)	1 (0.2)	N/A	N/A
GA-GG	106 (13.9)	33 (14.0)	0.995 (0.651 - 1.520)	0.980	64 (15.1)	75 (13.1)	0.862 (0.589 - 1.262)	0.446
GA-GA	8 (1.0)	1 (0.4)	0.399 (0.050 - 3.214)	0.388	6 (1.4)	3 (0.5)	0.465 (0.110 - 1.958)	0.296
GA-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-GG	11 (1.4)	1 (0.4)	0.290 (0.037 - 2.265)	0.238	7 (1.6)	5 (0.9)	0.556 (0.167 - 1.847)	0.338
AA-GA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
<i>PAI-1</i> 43G>A/10692T>C								
GG-TT	219 (28.7)	85 (36.2)	1.000 (reference)		130 (30.6)	174 (30.3)	1.000 (reference)	
GG-TC	316 (41.4)	86 (36.6)	0.701 (0.496 - 0.991)	0.044	167 (39.3)	235 (40.9)	1.126 (0.821 - 1.544)	0.463
GG-CC	104 (13.6)	29 (12.3)	0.718 (0.444 - 1.163)	0.179	51 (12.0)	82 (14.3)	1.289 (0.830 - 2.002)	0.259
GA-TT	32 (4.2)	7 (3.0)	0.564 (0.240 - 1.326)	0.189	29 (6.8)	10 (1.7)	0.269 (0.120 - 0.604)	0.001
GA-TC	65 (8.5)	18 (7.7)	0.714 (0.400 - 1.273)	0.253	33 (7.8)	50 (8.7)	1.302 (0.770 - 2.202)	0.325
GA-CC	17 (2.2)	9 (3.8)	1.364 (0.585 - 3.178)	0.472	8 (1.9)	18 (3.1)	1.773 (0.710 - 4.430)	0.220
AA-TT	1 (0.1)	0 (0.0)	N/A	N/A	0 (0.0)	1 (0.2)	N/A	N/A
AA-TC	5 (0.7)	1 (0.4)	0.515 (0.059 - 4.476)	0.548	4 (0.9)	2 (0.3)	0.445 (0.075 - 2.635)	0.372
AA-CC	5 (0.7)	0 (0.0)	N/A	N/A	3 (0.7)	2 (0.3)	0.517 (0.076 - 3.502)	0.499
<i>PAI-1</i> 43G>A/11053T>G								
GG-TT	166 (21.7)	53 (22.6)	1.000 (reference)		87 (20.5)	132 (23.0)	1.000 (reference)	
GG-TG	313 (41.0)	87 (37.0)	0.871 (0.590 - 1.286)	0.486	177 (41.6)	223 (38.9)	0.866 (0.612 - 1.224)	0.415
GG-GG	160 (20.9)	60 (25.5)	1.175 (0.765 - 1.803)	0.462	84 (19.8)	136 (23.7)	1.042 (0.695 - 1.562)	0.842
GA-TT	34 (4.5)	15 (6.4)	1.382 (0.699 - 2.732)	0.353	18 (4.2)	31 (5.4)	1.225 (0.625 - 2.402)	0.554
GA-TG	60 (7.9)	18 (7.7)	0.940 (0.510 - 1.731)	0.842	36 (8.5)	42 (7.3)	0.800 (0.461 - 1.387)	0.426
GA-GG	20 (2.6)	1 (0.4)	0.157 (0.021 - 1.195)	0.074	16 (3.8)	5 (0.9)	0.247 (0.085 - 0.712)	0.010
AA-TT	6 (0.8)	0 (0.0)	N/A	N/A	3 (0.7)	3 (0.5)	0.690 (0.127 - 3.761)	0.668
AA-TG	5 (0.7)	1 (0.4)	0.626 (0.072 - 5.482)	0.673	4 (0.9)	2 (0.3)	0.366 (0.062 - 2.167)	0.268
AA-GG	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
<i>PAI-1</i> 43G>A/12068G>A								
GG-GG	232 (30.4)	82 (34.9)	1.000 (reference)		134 (31.5)	180 (31.4)	1.000 (reference)	
GG-GA	314 (41.1)	90 (38.3)	0.811 (0.575 - 1.144)	0.232	169 (39.8)	235 (40.9)	1.164 (0.849 - 1.595)	0.347
GG-AA	93 (12.2)	28 (11.9)	0.852 (0.521 - 1.393)	0.523	45 (10.6)	76 (13.2)	1.329 (0.843 - 2.094)	0.221
GA-GG	31 (4.1)	5 (2.1)	0.456 (0.172 - 1.213)	0.116	28 (6.6)	8 (1.4)	0.215 (0.092 - 0.502)	0.0003
GA-GA	63 (8.2)	20 (8.5)	0.898 (0.512 - 1.576)	0.708	36 (8.5)	47 (8.2)	1.200 (0.700 - 2.055)	0.507
GA-AA	20 (2.6)	9 (3.8)	1.273 (0.557 - 2.908)	0.567	6 (1.4)	23 (4.0)	3.184 (1.195 - 8.483)	0.021
AA-GG	2 (0.3)	1 (0.4)	1.415 (0.127 - 15.809)	0.778	1 (0.2)	2 (0.3)	0.970 (0.085 - 11.074)	0.981
AA-GA	6 (0.8)	0 (0.0)	N/A	N/A	5 (1.2)	1 (0.2)	0.230 (0.025 - 2.102)	0.193
AA-AA	3 (0.4)	0 (0.0)	N/A	N/A	1 (0.2)	2 (0.3)	1.772 (0.135 - 23.293)	0.663

MetS, metabolic syndrome; 95% CI, 95% confidence interval; AOR, adjusted odds ratio; N/A, not applicable.

^a Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

Supplementary Table S8. Combined genotype analysis for the *PAI-1* polymorphisms in ischemic metabolic syndrome patients, stroke patients and controls

Genotype	MetS controls (n=764)	MetS patients (n=235)	OR (95% CI)	P	Stroke controls (n=425)	Stroke patients (n=574)	AOR (95% CI) ^a	P
<i>PAI-1</i> 9785G>A/10692T>C								
GG-TT	241 (31.5)	86 (36.6)	1.000 (reference)		152 (35.8)	175 (30.5)	1.000 (reference)	
GG-TC	360 (47.1)	100 (42.6)	0.778 (0.559 - 1.084)	0.138	190 (44.7)	270 (47.0)	1.335 (0.989 - 1.803)	0.059
GG-CC	107 (14.0)	33 (14.0)	0.864 (0.545 - 1.371)	0.536	54 (12.7)	86 (15.0)	1.452 (0.947 - 2.226)	0.087
GA-TT	11 (1.4)	6 (2.6)	1.529 (0.549 - 4.259)	0.417	7 (1.6)	10 (1.7)	1.072 (0.376 - 3.062)	0.896
GA-TC	26 (3.4)	5 (2.1)	0.539 (0.201 - 1.448)	0.220	14 (3.3)	17 (3.0)	1.103 (0.507 - 2.401)	0.805
GA-CC	17 (2.2)	5 (2.1)	0.824 (0.295 - 2.302)	0.712	7 (1.6)	15 (2.6)	2.259 (0.850 - 6.004)	0.102
AA-TT	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-TC	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-CC	2 (0.3)	0 (0.0)	N/A	N/A	1 (0.2)	1 (0.2)	N/A	N/A
<i>PAI-1</i> 9785G>A/11053T>G								
GG-TT	176 (23.0)	61 (26.0)	1.000 (reference)		94 (22.1)	143 (24.9)	1.000 (reference)	
GG-TG	355 (46.5)	99 (42.1)	0.805 (0.558 - 1.161)	0.245	205 (48.2)	249 (43.4)	0.827 (0.594 - 1.152)	0.262
GG-GG	177 (23.2)	59 (25.1)	0.962 (0.636 - 1.455)	0.854	97 (22.8)	139 (24.2)	0.915 (0.622 - 1.347)	0.653
GA-TT	28 (3.7)	7 (3.0)	0.721 (0.300 - 1.736)	0.466	13 (3.1)	22 (3.8)	1.210 (0.559 - 2.616)	0.629
GA-TG	23 (3.0)	7 (3.0)	0.878 (0.359 - 2.149)	0.776	12 (2.8)	18 (3.1)	0.952 (0.421 - 2.150)	0.905
GA-GG	3 (0.4)	2 (0.9)	1.924 (0.314 - 11.786)	0.479	3 (0.7)	2 (0.3)	0.344 (0.053 - 2.227)	0.263
AA-TT	2 (0.3)	0 (0.0)	N/A	N/A	1 (0.2)	1 (0.2)	N/A	N/A
AA-TG	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
AA-GG	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
<i>PAI-1</i> 9785G>A/12068G>A								
GG-GG	237 (31.0)	78 (33.2)	1.000 (reference)		151 (35.5)	164 (28.6)	1.000 (reference)	
GG-GA	357 (46.7)	104 (44.3)	0.885 (0.632 - 1.239)	0.477	195 (45.9)	266 (46.3)	1.415 (1.041 - 1.923)	0.027
GG-AA	114 (14.9)	37 (15.7)	0.986 (0.629 - 1.548)	0.952	50 (11.8)	101 (17.6)	1.944 (1.270 - 2.974)	0.002
GA-GG	27 (3.5)	10 (4.3)	1.125 (0.521 - 2.429)	0.764	12 (2.8)	25 (4.4)	1.766 (0.828 - 3.768)	0.141
GA-GA	25 (3.3)	6 (2.6)	0.729 (0.289 - 1.843)	0.504	14 (3.3)	17 (3.0)	1.323 (0.598 - 2.926)	0.490
GA-AA	2 (0.3)	0 (0.0)	N/A	N/A	2 (0.5)	0 (0.0)	N/A	N/A
AA-GG	1 (0.1)	0 (0.0)	N/A	N/A	0 (0.0)	1 (0.2)	N/A	N/A
AA-GA	1 (0.1)	0 (0.0)	N/A	N/A	1 (0.2)	0 (0.0)	N/A	N/A
AA-AA	0 (0.0)	0 (0.0)	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A
<i>PAI-1</i> 10692T>C/11053T>G								
TT-TT	28 (3.7)	17 (7.2)	1.000 (reference)		19 (4.5)	26 (4.5)	1.000 (reference)	
TT-TG	59 (7.7)	18 (7.7)	0.503 (0.226 - 1.120)	0.092	45 (10.6)	32 (5.6)	0.580 (0.255 - 1.317)	0.193
TT-GG	165 (21.6)	57 (24.3)	0.569 (0.290 - 1.116)	0.101	95 (22.4)	127 (22.1)	1.067 (0.532 - 2.140)	0.855
TC-TT	59 (7.7)	16 (6.8)	0.447 (0.197 - 1.012)	0.053	30 (7.1)	45 (7.8)	1.335 (0.594 - 3.003)	0.485
TC-TG	315 (41.2)	85 (36.2)	0.444 (0.232 - 0.850)	0.014	170 (40.0)	230 (40.1)	1.165 (0.610 - 2.226)	0.644
TC-GG	12 (1.6)	4 (1.7)	0.549 (0.152 - 1.979)	0.359	4 (0.9)	12 (2.1)	1.890 (0.456 - 7.830)	0.380
CC-TT	119 (15.6)	35 (14.9)	0.484 (0.238 - 0.986)	0.046	59 (13.9)	95 (16.6)	1.381 (0.665 - 2.872)	0.387
CC-TG	4 (0.5)	3 (1.3)	1.235 (0.246 - 6.203)	0.797	2 (0.5)	5 (0.9)	4.567 (0.571 - 36.526)	0.152
CC-GG	3 (0.4)	0 (0.0)	0.000 (0.000 - 0.000)	0.994	1 (0.2)	2 (0.3)	6.053 (0.135 - 272.385)	0.354
<i>PAI-1</i> 10692T>C/12068G>A								
TT-GG	186 (24.3)	66 (28.1)	1.000 (reference)		120 (28.2)	132 (23.0)	1.000 (reference)	
TT-GA	60 (7.9)	21 (8.9)	0.986 (0.557 - 1.746)	0.962	37 (8.7)	44 (7.7)	1.255 (0.736 - 2.139)	0.405
TT-AA	6 (0.8)	5 (2.1)	2.349 (0.694 - 7.952)	0.170	2 (0.5)	9 (1.6)	4.327 (0.842 - 22.235)	0.079
TC-GG	74 (9.7)	17 (7.2)	0.647 (0.356 - 1.177)	0.154	42 (9.9)	49 (8.5)	1.081 (0.651 - 1.797)	0.763
TC-GA	283 (37.0)	79 (33.6)	0.787 (0.540 - 1.145)	0.211	150 (35.3)	212 (36.9)	1.485 (1.051 - 2.098)	0.025
TC-AA	29 (3.8)	9 (3.8)	0.875 (0.393 - 1.944)	0.742	12 (2.8)	26 (4.5)	2.143 (0.996 - 4.609)	0.051
CC-GG	5 (0.7)	5 (2.1)	2.818 (0.791 - 10.045)	0.110	1 (0.2)	9 (1.6)	6.321 (0.709 - 56.389)	0.099
CC-GA	40 (5.2)	10 (4.3)	0.705 (0.334 - 1.488)	0.359	23 (5.4)	27 (4.7)	1.283 (0.665 - 2.474)	0.457
CC-AA	81 (10.6)	23 (9.8)	0.800 (0.466 - 1.375)	0.420	38 (8.9)	66 (11.5)	1.707 (1.039 - 2.804)	0.035

MetS, metabolic syndrome; 95% CI, 95% confidence interval; AOR, adjusted odds ratio; N/A, not applicable.

^a Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

Supplementary Table S9. Clinical variables in ischemic stroke patients stratified by *PAI-1* polymorphisms status by ANOVA

Characteristics	Homocysteine (mmol/L)		Folate (mg/ml)		Vitamin B12 (pg/ml)		Total cholesterol (mg/dl)		Triglyceride (mg/dl)		PLT ($10^3/\mu\text{l}$)		BMI (kg/m ²)	
	Mean \pm SD	P ^a	Mean \pm SD	P ^a	Mean \pm SD	P ^a	Mean \pm SD	P ^a	Mean \pm SD	P ^a	Mean \pm SD	P ^a	Mean \pm SD	P ^a
<i>PAI-1</i> -844G>A														
GG	10.11 \pm 4.00	0.080	7.71 \pm 5.58	0.943	745.42 \pm 718.65	0.985	190.29 \pm 37.86	0.158 ^b	151.21 \pm 104.46	0.619	244.02 \pm 86.77	0.578	24.14 \pm 3.16	0.744
GA	11.01 \pm 6.68		7.86 \pm 7.44		739.71 \pm 604.99		193.40 \pm 39.02		149.89 \pm 95.69		247.21 \pm 71.30		24.14 \pm 3.04	
AA	10.75 \pm 6.32		7.83 \pm 5.51		735.34 \pm 543.02		194.97 \pm 43.02		142.26 \pm 75.53		252.00 \pm 86.54		24.39 \pm 3.45	
Dominant (GG vs GA+AA)	10.95 \pm 6.59	0.165 ^c	7.85 \pm 7.02	0.595 ^c	738.66 \pm 590.24	0.294 ^c	193.78 \pm 39.98	0.180	148.06 \pm 91.27	0.807 ^c	248.36 \pm 75.22	0.190 ^c	24.20 \pm 3.14	0.788
Recessive (GG+GA vs AA)	10.75 \pm 6.32	0.802	7.83 \pm 5.51	0.797 ^c	735.34 \pm 543.02	0.481 ^c	194.97 \pm 43.02	0.404	142.26 \pm 75.53	0.958 ^c	252.00 \pm 86.54	0.381	24.39 \pm 3.45	0.442
<i>PAI-1</i> -675 4G>5G														
4G4G	10.46 \pm 4.85	0.347	7.59 \pm 4.68	0.380	720.68 \pm 484.36	0.578	194.91 \pm 40.53	0.136	145.12 \pm 92.71	0.213	252.38 \pm 91.82	0.184	24.13 \pm 3.01	0.787
4G5G	10.93 \pm 6.58		8.20 \pm 8.29		764.90 \pm 728.88		192.14 \pm 39.57		155.19 \pm 104.99		243.97 \pm 72.59		24.06 \pm 3.15	
5G5G	10.28 \pm 5.61		7.21 \pm 4.56		725.25 \pm 708.50		187.56 \pm 34.49		142.74 \pm 76.93		240.77 \pm 63.48		24.57 \pm 3.41	
Dominant (4G4G vs 4G5G+5G5G)	10.76 \pm 6.34	0.587 ^c	7.94 \pm 7.51	0.380 ^c	754.51 \pm 723.21	0.120	190.93 \pm 38.32	0.279	151.90 \pm 98.46	0.124 ^c	243.12 \pm 70.25	0.067 ^c	24.20 \pm 3.23	0.756
Recessive (4G4G+4G5G vs 5G5G)	10.28 \pm 5.61	0.393	7.21 \pm 4.56	0.405 ^c	725.25 \pm 708.50	0.023^c	187.56 \pm 34.49	0.152 ^c	142.74 \pm 76.93	0.979 ^c	240.77 \pm 63.48	0.398 ^c	24.57 \pm 3.41	0.108
<i>PAI-1</i> 43G>A														
GG	10.79 \pm 6.11	0.145	7.83 \pm 6.72	0.924	751.71 \pm 681.13	0.467	192.45 \pm 38.75	0.988	149.53 \pm 98.84	0.599	246.90 \pm 81.45	0.909	24.11 \pm 3.08	0.264
GA	9.86 \pm 3.63		7.60 \pm 5.57		688.67 \pm 337.51		192.95 \pm 42.37		149.62 \pm 83.13		245.43 \pm 70.05		24.62 \pm 3.49	
AA	9.27 \pm 2.35		7.98 \pm 4.05		630.82 \pm 272.70		191.75 \pm 37.04		121.25 \pm 41.42		255.58 \pm 57.15		23.49 \pm 3.13	
Dominant (GG vs GA+AA)	9.82 \pm 3.55	0.258 ^c	7.63 \pm 5.47	0.777 ^c	684.56 \pm 332.91	0.446 ^c	192.86 \pm 41.87	0.905	147.41 \pm 80.93	0.663 ^c	246.21 \pm 69.04	0.846 ^c	24.54 \pm 3.47	0.175
Recessive (GG+GA vs AA)	9.27 \pm 2.35	0.554 ^c	7.98 \pm 4.05	0.926	630.82 \pm 272.70	0.385 ^c	191.75 \pm 37.04	0.946	121.25 \pm 41.42	0.579 ^c	255.58 \pm 57.15	0.700	23.49 \pm 3.13	0.534
<i>PAI-1</i> 9785G>A														
GG	10.69 \pm 5.95	0.577	7.80 \pm 6.63	0.996	739.95 \pm 650.83	0.903	192.52 \pm 39.14	0.398	149.09 \pm 96.97	0.991	246.44 \pm 80.94	0.789	24.18 \pm 3.11	0.960
GA	9.95 \pm 3.11		7.86 \pm 5.23		760.81 \pm 477.19		191.29 \pm 40.75		150.69 \pm 87.51		252.04 \pm 60.45		24.16 \pm 3.67	
AA	10.07 \pm 0.98		7.61 \pm 0.47		574.50 \pm 74.25		229.50 \pm 23.33		150.00 \pm 73.54		224.50 \pm 10.61		22.00 \pm 0.00	
Dominant (GG vs GA+AA)	9.95 \pm 3.07	0.784 ^c	7.86 \pm 5.15	0.508 ^c	755.64 \pm 471.52	0.682 ^c	192.35 \pm 40.76	0.971	150.67 \pm 86.70	0.893	251.27 \pm 59.77	0.199 ^c	24.12 \pm 3.65	0.893
Recessive (GG+GA vs AA)	10.07 \pm 0.98	0.889	7.61 \pm 0.47	0.967	574.50 \pm 74.25	0.712	229.50 \pm 23.33	0.182	150.00 \pm 73.54	0.991	224.50 \pm 10.61	0.692	22.00 \pm 0.00	0.489
<i>PAI-1</i> 10692T>C														
TT	10.74 \pm 4.96	0.781	7.93 \pm 5.70	0.908	750.07 \pm 630.89	0.320	192.09 \pm 39.85	0.962	147.54 \pm 101.25	0.775	246.07 \pm 93.49	0.962	23.97 \pm 2.96	0.245
TC	10.51 \pm 5.53		7.73 \pm 7.05		700.84 \pm 401.96		192.61 \pm 39.23		151.38 \pm 97.10		246.83 \pm 71.18		24.32 \pm 3.20	
CC	10.81 \pm 7.82		7.75 \pm 6.61		843.40 \pm 1079.74		193.09 \pm 38.22		146.16 \pm 82.23		248.17 \pm 71.96		24.17 \pm 3.35	
Dominant (TT vs TC+CC)	10.59 \pm 6.18	0.250 ^c	7.74 \pm 6.93	0.368 ^c	736.42 \pm 643.93	0.751	192.73 \pm 38.95	0.808	150.07 \pm 93.55	0.696	247.17 \pm 71.32	0.582 ^c	24.28 \pm 3.23	0.196
Recessive (TT+TC vs CC)	10.81 \pm 7.82	0.947 ^c	7.75 \pm 6.61	0.922	843.40 \pm 1079.74	0.265 ^c	193.09 \pm 38.22	0.838	146.16 \pm 82.23	0.782 ^c	248.17 \pm 71.96	0.809	24.17 \pm 3.35	0.977
<i>PAI-1</i> 11053T>G														
TT	10.28 \pm 6.27	0.483	7.90 \pm 8.39	0.949	796.25 \pm 892.43	0.667	195.19 \pm 37.60	0.217	149.13 \pm 99.31	0.935	247.57 \pm 73.55	0.661	24.17 \pm 3.25	0.944
TG	10.76 \pm 5.80		7.79 \pm 5.96		707.22 \pm 409.48		190.30 \pm 39.89		148.30 \pm 95.36		242.79 \pm 67.54		24.29 \pm 3.15	
GG	10.80 \pm 5.17		7.71 \pm 5.10		746.74 \pm 672.34		193.88 \pm 39.68		151.10 \pm 94.72		253.99 \pm 104.63		23.95 \pm 3.02	
Dominant (TT vs TG+GG)	10.78 \pm 5.60	0.358 ^c	7.77 \pm 5.69	0.611 ^c	720.26 \pm 511.25	0.667 ^c	191.49 \pm 39.83	0.186	149.23 \pm 95.09	0.989	246.50 \pm 81.80	0.661 ^c	24.18 \pm 3.11	0.967
Recessive (TT+TG vs GG)	10.80 \pm 5.17	0.513 ^c	7.71 \pm 5.10	0.775 ^c	746.74 \pm 672.34	0.877	193.88 \pm 39.68	0.539	151.10 \pm 94.72	0.728	253.99 \pm 104.63	0.176 ^c	23.95 \pm 3.02	0.256
<i>PAI-1</i> 12068G>A														
GG	10.64 \pm 4.53	0.827	8.10 \pm 7.72	0.272	743.00 \pm 601.25	0.422	192.50 \pm 40.95	0.998	146.90 \pm 87.05	0.564	254.80 \pm 100.90	0.112	24.11 \pm 3.24	0.786
GA	10.72 \pm 6.92		7.46 \pm 5.24		723.55 \pm 515.79		192.46 \pm 38.23		152.41 \pm 106.50		241.19 \pm 63.11		24.27 \pm 3.08	
AA	10.39 \pm 4.20		8.21 \pm 7.28		794.40 \pm 995.98		192.70 \pm 38.66		144.18 \pm 80.43		246.28 \pm 69.45		24.02 \pm 3.17	
Dominant (GG vs GA+AA)	10.64 \pm 6.38	0.150 ^c	7.64 \pm 5.78	0.413 ^c	740.06 \pm 659.42	0.945	192.52 \pm 38.30	0.994	150.47 \pm 100.94	0.799 ^c	242.39 \pm 64.64	0.112 ^c	24.21 \pm 3.10	0.663
Recessive (GG+GA vs AA)	10.39 \pm 4.20	0.880 ^c	8.21 \pm 7.28	0.764 ^c	794.40 \pm 995.98	0.244 ^c	192.70 \pm 38.66	0.949	144.18 \pm 80.43	0.959 ^c	246.28 \pm 69.45	0.666 ^c	24.02 \pm 3.17	0.544

ANOVA, analysis of variance; PLT, platelet; SD, standard deviation.

^a Calculated using ANOVA. ^b Calculated using the Kruskal-Wallis test. ^c Calculated using the Mann-Whitney test.

Supplementary Table S10. Clinical variables in ischemic stroke patients stratified by *PAI-1* polymorphisms status by ANOVA.

Characteristics	PT (sec)		aPTT (sec)		Fibrinogen (mg/dl)		Antithrombin III (%)		BUN (mg/dl)		Uric Acid (mg/dl)		HDL-cholesterol (mg/dl)	
	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a
<i>PAI-1 -844G>A</i>														
GG	11.82±1.17	0.917 ^b	31.69±8.67	0.628	409.98±135.24	0.495	95.28±35.55	0.506	15.78±5.29	0.819	4.61±1.51	0.609	45.30±14.91	0.915
GA	11.75±0.72		31.56±14.31		421.89±125.09		93.10±18.95		15.99±7.04		4.70±1.58		45.31±15.90	
AA	11.74±0.82		30.56±5.22		410.58±115.38		95.82±15.47		16.13±7.02		4.58±1.35		46.40±11.57	
Dominant (GG vs GA+AA)	11.75±0.74	0.917 ^c	31.33±12.81	0.249 ^c	419.40±122.97	0.360	93.70±18.26	0.881 ^c	16.03±7.03	0.695 ^c	4.67±1.53	0.578	45.56±15.01	0.823
Recessive (GG+GA vs AA)	11.74±0.82	0.598	30.56±5.22	0.360 ^c	410.58±115.38	0.662	95.82±15.47	0.165 ^c	16.13±7.02	0.684	4.58±1.35	0.704 ^c	46.40±11.57	0.489
<i>PAI-1 -675 4G>5G</i>														
4G4G	11.75±0.82	0.519	30.87±6.87	0.479	421.32±131.07	0.626	93.34±16.71	0.081	15.72±4.92	0.497	4.53±1.47	0.072	45.27±13.44	0.390
4G5G	11.82±1.03		31.82±14.95		414.43±123.28		93.22±20.10		16.21±7.87		4.77±1.57		45.57±16.58	
5G5G	11.74±0.83		31.90±9.01		407.88±131.38		99.30±47.89		15.71±5.40		4.60±1.51		45.65±13.86	
Dominant (4G4G vs 4G5G+5G5G)	11.80±0.98	0.495 ^c	31.84±13.58	0.172 ^c	412.64±125.41	0.395	94.86±30.28	0.904 ^c	16.08±7.30	0.993 ^c	4.73±1.55	0.050	45.59±15.87	0.780
Recessive (4G4G+4G5G vs 5G5G)	11.74±0.83	0.602	31.90±9.01	0.208 ^c	407.88±131.38	0.463	99.30±47.89	0.119 ^c	15.71±5.40	0.723 ^c	4.60±1.51	0.686	45.65±13.86	0.882
<i>PAI-1 43G>A</i>														
GG	11.79±0.93	0.134	31.62±12.32	0.656	416.97±128.49	0.611	94.31±27.23	0.943	16.03±6.77	0.547	4.66±1.52	0.755	45.40±13.78	0.052
GA	11.68±0.87		30.62±3.86		406.90±121.80		93.95±17.48		15.43±4.38		4.59±1.55		45.81±21.48	
AA	12.26±0.93		30.40±3.26		450.00±134.83		97.67±11.74		15.35±4.75		4.42±1.30		47.02±9.98	
Dominant (GG vs GA+AA)	11.73±0.88	0.501	30.61±3.81	0.595 ^c	410.01±122.54	0.620	94.18±17.15	0.423 ^c	15.42±4.39	0.725 ^c	4.58±1.53	0.517	45.87±21.01	0.771
Recessive (GG+GA vs AA)	12.26±0.93	0.099	30.40±3.26	0.904 ^c	450.00±134.83	0.478	97.67±11.74	0.749	15.35±4.75	0.752	4.42±1.30	0.594	47.02±9.98	0.816
<i>PAI-1 9785G>A</i>														
GG	11.78±0.93	0.873	31.20±7.19	0.465 ^b	413.25±125.75	0.050	93.89±25.92	0.158	15.97±6.56	0.838	4.66±1.53	0.772	45.48±15.26	0.471
GA	11.75±0.88		35.01±34.80		450.74±146.07		99.46±26.88		15.49±5.07		4.52±1.40		45.25±10.56	
AA	11.35±0.00		33.10±0.00		0.00±0.00		0.00±0.00		16.20±3.11		4.75±0.07		0.00±0.00	
Dominant (GG vs GA+AA)	11.74±0.87	0.767	34.98±34.51	0.465 ^c	450.74±146.07	0.050	99.46±26.88	0.158	15.51±5.01	0.568 ^c	4.53±1.38	0.490	45.25±10.56	0.915
Recessive (GG+GA vs AA)	11.35±0.00	N/A	33.10±0.00	N/A	0.00±0.00	N/A	0.00±0.00	N/A	16.20±3.11	0.954	4.75±0.07	0.926	0.00±0.00	
<i>PAI-1 10692T>C</i>														
TT	11.74±0.78	0.029	30.70±6.59	0.366	413.98±120.09	0.957	92.35±17.04	0.310	15.88±5.10	0.338	4.73±1.48	0.461	43.95±11.08	0.116
TC	11.85±1.01		31.81±14.44		417.23±132.87		94.76±32.01		15.75±6.01		4.61±1.50		46.83±17.90	
CC	11.63±0.91		32.02±8.91		416.04±126.61		96.84±18.49		16.60±9.54		4.60±1.66		44.52±11.73	
Dominant (TT vs TC+CC)	11.80±0.99	0.424 ^c	31.86±13.29	0.079 ^c	416.95±131.28	0.777	95.24±29.41	0.325 ^c	15.96±7.07	0.646 ^c	4.61±1.54	0.215	46.26±16.60	0.050
Recessive (TT+TC vs CC)	11.63±0.91	0.039	32.02±8.91	0.074 ^c	416.04±126.61	0.994	96.84±18.49	0.111 ^c	16.60±9.54	0.550 ^c	4.60±1.66	0.624	44.52±11.73	0.457
<i>PAI-1 11053T>G</i>														
TT	11.68±0.83	0.085	32.06±8.62	0.235	409.59±129.51	0.527	94.32±18.05	0.872	15.74±4.76	0.755	4.62±1.48	0.930	44.18±11.62	0.670
TG	11.84±1.01		31.71±14.49		415.04±128.41		94.71±32.86		16.09±7.72		4.65±1.53		46.70±18.18	
GG	11.75±0.83		30.32±6.29		424.94±123.96		93.39±16.34		15.85±5.26		4.67±1.55		44.63±11.23	
Dominant (TT vs TG+GG)	11.81±0.95	0.025^c	31.24±12.36	0.013^c	418.39±126.88	0.426	94.28±28.48	0.435 ^c	16.01±6.99	0.674 ^c	4.66±1.54	0.729	45.97±16.07	0.152
Recessive (TT+TG vs GG)	11.75±0.83	0.625 ^c	30.32±6.29	0.013^c	424.94±123.96	0.301	93.39±16.34	0.879 ^c	15.85±5.26	0.939 ^c	4.67±1.55	0.789	44.63±11.23	0.387
<i>PAI-1 12068G>A</i>														
GG	11.77±0.79	0.985	31.54±16.44	0.835	425.24±121.06	0.329	93.07±20.12	0.676	15.89±5.08	0.745	4.65±1.51	0.949	44.98±11.12	0.350
GA	11.78±1.02		31.27±7.83		409.00±124.16		94.82±31.06		15.85±6.12		4.64±1.46		46.26±18.11	
AA	11.78±0.89		31.95±6.12		417.80±150.53		95.24±18.87		16.31±9.63		4.69±1.72		44.17±11.58	
Dominant (GG vs GA+AA)	11.78±0.99	0.800 ^c	31.43±7.47	0.039^c	411.08±130.74	0.174	94.92±28.59	0.491 ^c	15.96±7.10	0.429 ^c	4.65±1.53	0.973	45.73±16.73	0.517
Recessive (GG+GA vs AA)	11.78±0.89	0.917	31.95±6.12	0.004^c	417.80±150.53	0.575 ^c	95.24±18.87	0.658 ^c	16.31±9.63	0.962 ^c	4.69±1.72	0.690 ^c	44.17±11.58	0.311

ANOVA, analysis of variance; PT, prothrombin time; aPTT, activated partial thromboplastin time; SD, standard deviation; N/A, not applicable.

^a Calculated using ANOVA. ^b Calculated using the Kruskal-Wallis test. ^c Calculated using the Mann-Whitney test.

Supplementary Table S11. Baseline characteristics between ischemic stroke patients and control subjects in sample 1 and 2

Characteristic	Sample 1*			Sample2**		
	Controls (n=259)	Stroke patients (n=205)	<i>P</i> *	Controls (n=166)	Stroke patients (n=369)	<i>P</i> *
	259	205		166	369	
Male (%)	95 (36.7)	84 (41.0)	0.3456	78 (47.0)	150 (40.7)	0.171
Age (years, mean ±SD)	62.9±10.5	62.1±10.7	0.376	62.2±11.2	62.9±12.0	0.713
Smoking (%)	72 (27.8)	71 (35.7)	0.072	66 (39.8)	135 (36.7)	0.498
Metabolic syndrome (%)	29 (11.2)	67 (32.7)	< 0.0001	19 (11.4)	120 (32.5)	< 0.0001
Hypertension (%)	107 (41.3)	124 (60.5)	< 0.0001	63 (38.0)	238 (64.5)	< 0.0001
Diabetes mellitus (%)	36 (13.9)	54 (26.3)	0.001	20 (12.0)	92 (24.9)	< 0.0001
Hyperlipidemia (%)	66 (25.5)	78 (38.0)	0.004	35 (21.1)	103 (27.9)	0.095
BMI (kg/m ² , mean ±SD)	24.3±3.3	23.9±3.0	0.215 ^a	24.2±3.2	24.3±3.2	0.653
HDL-C (mg/dl, mean ±SD)	46.5±16.6	44.7±18.2	0.075	47.0±11.0	47.0±11.0	0.249
Homocysteine (μmol/L, mean ±SD)	9.6±3.5	11.1±4.9	0.001	10.5±4.9	11.2±7.5	0.379
Folate (nmol/L, mean±SD)	9.3±8.7	6.6±5.1	< 0.0001	8.2±6.5	7.2±5.2	0.006
Vitamin B12 (pg/ml, mean ±SD)	762.1±819.3	837.1±942.0	0.415	713.2±310.2	687.0±320.1	0.195
Total cholesterol (mg/dl, mean ±SD)	197.4±40.0	193.6±43.2	0.224	188.8±33.6	190.2±38.5	0.632
Triglyceride (mg/dl, mean ±SD)	152.1±92.6	164.3±120.9	0.647	136.6±82.1	144.6±88.1	0.330
PLT (10 ³ /μl, mean ±SD)	243.0±59.0	255.1±89.9	0.667	243.0±77.0	246.5±86.6	0.915
PT (sec, mean ±SD)	11.8±0.9	11.9±0.7	0.307	11.7±0.7	11.7±1.1	0.779
aPTT (sec, mean ±SD)	34.2±22.5	31.2±4.8	0.207	32.3±10.9	30.0±4.2	0.139
Fibrinogen (mg/dl, mean ±SD)	362.7±91.8	400.0±119.5	0.021	410.6±130.0	433.0±132.4	0.161
Antithrombin III (%), mean ±SD)	86.5±18.4	95.6±21.9	0.005	98.6±52.0	93.6±16.9	0.788
BUN (mg/dl, mean ±SD)	15.7±5.0	15.8±6.3	0.352	16.0±5.0	16.1±7.9	0.483
Uric Acid (mg/dl, mean ±SD)	4.6±1.4	4.8±1.5	0.401	4.6±1.5	4.6±1.6	0.429

SD, standard deviation; BMI, body mass index; HDL-C, high density lipoprotein cholesterol; PLT, platelet; PT, prothrombin time; aPTT, activated partial thromboplastin time; BUN, blood urea nitrogen.

* *P*-values were calculated by Mann-Whitney test for continuous variables and chi-square test for categorical variables.

^a *P*-values were calculated by two-sided t- test for continuous variables.

* Sample 1 was recruited from 2001 to 2006. ** Sample 2 was recruited from 2007 to 2010.

Supplementary Table S12. Genotype frequency of *PAI-1* seven polymorphisms between ischemic stroke patients and control subjects in samples 1 and 2

Genotype	Sample 1**					Sample 2***				
	Controls (n=259)	Stroke patients (n=205)	AOR (95% CI)*	P	FDR-P	Controls (n=166)	Stroke patients (n=369)	AOR (95% CI)*	P	FDR-P
<i>PAI-1</i> -844G>A										
GG	101 (39.0)	63 (30.7)				61 (36.7)	138 (37.4)			
GA	117 (45.2)	108 (52.7)	1.286 (0.829-1.995)	0.262	0.459	74 (44.6)	184 (49.9)	1.009 (0.659-1.547)	0.966	0.966
AA	41 (15.8)	34 (16.6)	1.734 (0.942-3.193)	0.077	0.462	31 (18.7)	47 (12.7)	0.684 (0.384-1.215)	0.195	0.236
Dominant			1.370 (0.908-2.065)	0.133	0.364			0.898 (0.603-1.337)	0.597	0.758
Recessive			1.341 (0.796-2.261)	0.270	0.405			0.612 (0.362-1.037)	0.068	0.459
<i>PAI-1</i> -675 4G>5G										
4G4G	116 (44.8)	89 (43.4)				66 (39.8)	129 (35.0)			
4G5G	110 (42.5)	83 (40.5)	0.853 (0.560-1.299)	0.458	0.628	78 (47.0)	169 (45.8)	1.184 (0.776-1.808)	0.433	0.758
5G5G	33 (12.7)	33 (16.1)	1.443 (0.783-2.661)	0.240	0.480	22 (13.3)	71 (19.2)	1.586 (0.875-2.876)	0.129	0.236
Dominant			0.943 (0.638-1.396)	0.770	0.799			1.271 (0.855-1.890)	0.236	0.551
Recessive			1.466 (0.839-2.562)	0.179	0.358			1.476 (0.862-2.525)	0.156	0.628
<i>PAI-1</i> 43G>A										
GG	207 (79.9)	181 (88.3)				141 (84.9)	310 (84.0)			
GA	48 (18.5)	21 (10.2)	0.511 (0.284-0.918)	0.025	0.088	22 (13.3)	57 (15.4)	1.263 (0.724-2.204)	0.412	0.758
AA	4 (1.5)	3 (1.5)	1.200 (0.244-5.898)	0.822	0.822	3 (1.8)	2 (0.5)	0.256 (0.041-1.618)	0.148	0.236
Dominant			0.559 (0.321-0.976)	0.041	0.287			1.131 (0.664-1.927)	0.650	0.758
Recessive			1.353 (0.275-6.660)	0.710	0.710			0.247 (0.039-1.559)	0.137	0.088
<i>PAI-1</i> 9785G>A										
GG	240 (92.7)	184 (89.8)				156 (94.0)	347 (94.0)			
GA	18 (6.9)	20 (9.8)	1.248 (0.616-2.526)	0.538	0.628	10 (6.0)	22 (6.0)	1.026 (0.459-2.291)	0.951	0.966
AA	1 (0.4)	1 (0.5)	N/A	N/A		0 (0.0)	0 (0.0)	N/A	N/A	
Dominant			1.182 (0.590-2.370)	0.637	0.799			1.026 (0.459-2.291)	0.951	0.951
Recessive			N/A	N/A				N/A	N/A	
<i>PAI-1</i> 10692T>C										
TT	98 (37.8)	76 (37.1)				61 (36.7)	109 (29.5)			
TC	128 (49.4)	100 (48.8)	1.009 (0.666-1.530)	0.965	0.965	76 (45.8)	187 (50.7)	1.679 (1.076-2.618)	0.022	0.077
CC	33 (12.7)	29 (14.1)	1.245 (0.661-2.345)	0.498	0.747	29 (17.5)	73 (19.8)	1.457 (0.822-2.582)	0.197	0.236
Dominant			1.053 (0.706-1.571)	0.799	0.799			1.597 (1.060-2.408)	0.025	0.088
Recessive			1.204 (0.680-2.133)	0.524	0.629			1.155 (0.700-1.904)	0.573	0.628
<i>PAI-1</i> 11053T>G										
TT	65 (25.1)	64 (31.2)				43 (25.9)	102 (27.6)			
TG	139 (53.7)	81 (39.5)	0.570 (0.355-0.916)	0.020	0.088	78 (47.0)	186 (50.4)	0.964 (0.608-1.527)	0.875	0.966
GG	55 (21.2)	60 (29.3)	1.082 (0.627-1.864)	0.778	0.822	45 (27.1)	81 (22.0)	0.745 (0.437-1.271)	0.281	0.281
Dominant			0.731 (0.473-1.128)	0.156	0.364			0.888 (0.576-1.371)	0.593	0.758
Recessive			1.579 (1.012-2.465)	0.044	0.264			0.737 (0.473-1.148)	0.177	0.965
<i>PAI-1</i> 12068G>A										
GG	96 (37.1)	90 (43.9)				67 (40.4)	100 (27.1)			
GA	135 (52.1)	82 (40.0)	0.729 (0.477-1.113)	0.143	0.334	75 (45.2)	201 (54.5)	2.158 (1.385-3.361)	0.001	0.007
AA	28 (10.8)	33 (16.1)	1.474 (0.792-2.742)	0.221	0.480	24 (14.5)	68 (18.4)	2.014 (1.111-3.650)	0.021	0.126
Dominant			0.841 (0.565-1.251)	0.392	0.686			2.128 (1.408-3.217)	0.0003	0.002
Recessive			1.625 (0.917-2.877)	0.096	0.288			1.342 (0.790-2.281)	0.277	0.088

AOR, adjusted odds ratio; 95% CI, 95% confidence interval; N/A, not applicable; FDR, false discovery rate.

* Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

** Sample 1 was recruited from 2001 to 2006. *** Sample 2 was recruited from 2007 to 2010.

Supplementary Table S13. Comparison of genotype frequencies of *PAI-1* seven polymorphisms between ischemic stroke subtype with large-artery disease and control subjects in sample 1 and 2

Genotype	Sample 1**					Sample 2***				
	Controls (n=259)	LAD (n=78)	AOR(95% CI)*	P	FDR-P	Controls (n=166)	LAD (n=122)	AOR(95% CI)*	P	FDR-P
<i>PAI-1</i> -844G>A										
GG	101 (39.0)	29 (37.2)	1.000 (reference)			61 (36.7)	52 (42.6)	1.000 (reference)		
GA	117 (45.2)	36 (46.2)	0.812 (0.443-1.489)	0.500	0.775	74 (44.6)	60 (49.2)	0.932 (0.540-1.608)	0.801	0.801
AA	41 (15.8)	13 (16.7)	1.338 (0.587-3.048)	0.489	0.611	31 (18.7)	10 (8.2)	0.310 (0.127-0.759)	0.010	0.050
Dominant			0.930 (0.532-1.623)	0.797	0.920			0.724 (0.430-1.218)	0.223	0.469
Recessive			1.379 (0.668-2.850)	0.385	0.385			0.317 (0.139-0.724)	0.006	0.030
<i>PAI-1</i> -675 4G>5G										
4G4G	116 (44.8)	32 (41.0)	1.000 (reference)			66 (39.8)	42 (34.4)	1.000 (reference)		
4G5G	110 (42.5)	32 (41.0)	0.877 (0.484-1.588)	0.664	0.775	78 (47.0)	60 (49.2)	1.373 (0.785-2.402)	0.267	0.623
5G5G	33 (12.7)	14 (17.9)	1.896 (0.823-4.369)	0.133	0.260	22 (13.3)	20 (16.4)	1.249 (0.551-2.827)	0.595	0.728
Dominant			1.028 (0.596-1.774)	0.920	0.920			1.347 (0.795-2.284)	0.268	0.469
Recessive			1.865 (0.890-3.911)	0.099	0.242			1.105 (0.550-2.221)	0.778	0.933
<i>PAI-1</i> 43G>A										
GG	207 (79.9)	69 (88.5)	1.000 (reference)			141 (84.9)	103 (84.4)	1.000 (reference)		
GA	48 (18.5)	8 (10.3)	0.482 (0.201-1.157)	0.102	0.357	22 (13.3)	19 (15.6)	1.275 (0.619-2.624)	0.510	0.745
AA	4 (1.5)	1 (1.3)	N/A	N/A	N/A	3 (1.8)	0 (0.0)	N/A	N/A	N/A
Dominant			0.523 (0.228-1.199)	0.126	0.441			1.099 (0.543-2.222)	0.794	0.823
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 9785G>A										
GG	240 (92.7)	71 (91.0)	1.000 (reference)			156 (94.0)	116 (95.1)	1.000 (reference)		
GA	18 (6.9)	7 (9.0)	1.338 (0.505-3.546)	0.558	0.775	10 (6.0)	6 (4.9)	0.780 (0.262-2.328)	0.657	0.767
AA	1 (0.4)	0 (0.0)	N/A	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A	N/A
Dominant			1.255 (0.478-3.291)	0.645	0.903			0.780 (0.262-2.328)	0.657	0.823
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 10692T>C										
TT	98 (37.8)	27 (34.6)	1.000 (reference)			61 (36.7)	36 (29.5)	1.000 (reference)		
TC	128 (49.4)	37 (47.4)	1.025 (0.568-1.852)	0.934	0.934	76 (45.8)	68 (55.7)	2.106 (1.166-3.803)	0.014	0.049
CC	33 (12.7)	14 (17.9)	1.831 (0.794-4.222)	0.156	0.260	29 (17.5)	18 (14.8)	1.161 (0.501-2.687)	0.728	0.728
Dominant			1.163 (0.664-2.036)	0.598	0.903			1.767 (1.014-3.077)	0.044	0.154
Recessive			1.760 (0.844-3.671)	0.132	0.242			0.705 (0.353-1.410)	0.323	0.538
<i>PAI-1</i> 11053T>G										
TT	65 (25.1)	27 (34.6)	1.000 (reference)			43 (25.9)	31 (25.4)	1.000 (reference)		
TG	139 (53.7)	29 (37.2)	0.470 (0.246-0.898)	0.022	0.154	78 (47.0)	63 (51.6)	1.213 (0.663-2.220)	0.532	0.745
GG	55 (21.2)	22 (28.2)	0.853 (0.404-1.802)	0.677	0.677	45 (27.1)	28 (23.0)	0.740 (0.351-1.563)	0.430	0.717
Dominant			0.587 (0.326-1.056)	0.075	0.441			1.069 (0.599-1.907)	0.823	0.823
Recessive			1.389 (0.755-2.553)	0.291	0.364			0.657 (0.361-1.198)	0.171	0.428
<i>PAI-1</i> 12068G>A										
GG	96 (37.1)	26 (33.3)	1.000 (reference)			67 (40.4)	35 (28.7)	1.000 (reference)		
GA	135 (52.1)	38 (48.7)	1.282 (0.697-2.358)	0.424	0.775	75 (45.2)	69 (56.6)	2.663 (1.450-4.891)	0.002	0.014
AA	28 (10.8)	14 (17.9)	2.234 (0.937-5.322)	0.070	0.260	24 (14.5)	18 (14.8)	1.764 (0.756-4.119)	0.190	0.475
Dominant			1.416 (0.798-2.514)	0.235	0.548			2.335 (1.327-4.111)	0.003	0.021
Recessive			1.743 (0.825-3.684)	0.145	0.242			0.970 (0.474-1.986)	0.933	0.933

AOR, adjusted odds ratio; 95% CI, 95% confidence interval; LAD, large-artery disease; N/A, not applicable; FDR, false discovery rate.

* Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

** Sample 1 was recruited from 2001 to 2006. *** Sample 2 was recruited from 2007 to 2010.

Supplementary Table S14. Comparison of genotype frequencies of *PAI-1* seven polymorphisms between ischemic stroke subtype with small-vessel disease and control subjects in sample 1 and 2

Genotype	Sample 1**					Sample 2***				
	Controls (n=259)	SVD (n=42)	AOR(95% CI)*	P	FDR-P	Controls (n=166)	SVD (n=98)	AOR(95% CI)*	P	FDR-P
<i>PAI-1</i> -844G>A										
GG	101 (39.0)	14 (33.3)	1.000 (reference)			61 (36.7)	32 (32.7)	1.000 (reference)		
GA	117 (45.2)	22 (52.4)	0.865 (0.376-1.986)	0.731	0.867	74 (44.6)	49 (50.0)	1.291 (0.716-2.330)	0.396	0.774
AA	41 (15.8)	6 (14.3)	1.722 (0.514-5.764)	0.378	0.854	31 (18.7)	17 (17.3)	1.085 (0.504-2.335)	0.835	0.835
Dominant			0.983 (0.458-2.112)	0.965	0.974			1.177 (0.680-2.036)	0.561	0.785
Recessive			1.431 (0.529-3.872)	0.480	0.887			0.873 (0.437-1.744)	0.701	0.701
<i>PAI-1</i> -675 4G>5G										
4G4G	116 (44.8)	18 (42.9)	1.000 (reference)			66 (39.8)	37 (37.8)	1.000 (reference)		
4G5G	110 (42.5)	20 (47.6)	0.918 (0.417-2.021)	0.831	0.867	78 (47.0)	39 (39.8)	0.838 (0.468-1.501)	0.553	0.774
5G5G	33 (12.7)	4 (9.5)	1.321 (0.347-5.019)	0.683	0.854	22 (13.3)	22 (22.4)	1.566 (0.734-3.343)	0.246	0.318
Dominant			0.905 (0.428-1.915)	0.794	0.974			0.993 (0.580-1.699)	0.979	0.979
Recessive			1.091 (0.328-3.627)	0.887	0.887			1.686 (0.857-3.317)	0.131	0.328
<i>PAI-1</i> 43G>A										
GG	207 (79.9)	40 (95.2)	1.000 (reference)			141 (84.9)	86 (87.8)	1.000 (reference)		
GA	48 (18.5)	2 (4.8)	0.265 (0.058-1.209)	0.086	0.602	22 (13.3)	12 (12.2)	0.867 (0.395-1.905)	0.722	0.842
AA	4 (1.5)	0 (0.0)	N/A	N/A	N/A	3 (1.8)	0 (0.0)	N/A	N/A	N/A
Dominant			0.258 (0.057-1.172)	0.079	0.553			0.746 (0.345-1.615)	0.457	0.785
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 9785G>A										
GG	240 (92.7)	38 (90.5)	1.000 (reference)			156 (94.0)	92 (93.9)	1.000 (reference)		
GA	18 (6.9)	4 (9.5)	1.113 (0.316-3.915)	0.867	0.867	10 (6.0)	6 (6.1)	0.944 (0.321-2.776)	0.916	0.916
AA	1 (0.4)	0 (0.0)	N/A	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A	N/A
Dominant			1.086 (0.311-3.795)	0.897	0.974			0.944 (0.321-2.776)	0.916	0.979
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 10692T>C										
TT	98 (37.8)	16 (38.1)	1.000 (reference)			61 (36.7)	23 (23.5)	1.000 (reference)		
TC	128 (49.4)	23 (54.8)	1.211 (0.567-2.585)	0.621	0.867	76 (45.8)	48 (49.0)	1.730 (0.917-3.265)	0.091	0.319
CC	33 (12.7)	3 (7.1)	1.007 (0.225-4.516)	0.992	0.992	29 (17.5)	27 (27.6)	2.203 (1.048-4.629)	0.037	0.185
Dominant			1.160 (0.548-2.453)	0.699	0.974			1.854 (1.030-3.336)	0.040	0.140
Recessive			0.718 (0.190-2.705)	0.624	0.887			1.660 (0.891-3.091)	0.111	0.328
<i>PAI-1</i> 11053T>G										
TT	65 (25.1)	13 (31.0)	1.000 (reference)			43 (25.9)	32 (32.7)	1.000 (reference)		
TG	139 (53.7)	19 (45.2)	0.649 (0.273-1.543)	0.328	0.867	78 (47.0)	47 (48.0)	0.808 (0.439-1.486)	0.492	0.774
GG	55 (21.2)	10 (23.8)	0.719 (0.247-2.095)	0.545	0.854	45 (27.1)	19 (19.4)	0.653 (0.314-1.357)	0.254	0.318
Dominant			0.670 (0.300-1.496)	0.328	0.974			0.758 (0.430-1.337)	0.339	0.785
Recessive			1.127 (0.474-2.677)	0.787	0.887			0.748 (0.400-1.396)	0.361	0.565
<i>PAI-1</i> 12068G>A										
GG	96 (37.1)	18 (42.9)	1.000 (reference)			67 (40.4)	26 (26.5)	1.000 (reference)		
GA	135 (52.1)	19 (45.2)	0.913 (0.415-2.007)	0.821	0.867	75 (45.2)	53 (54.1)	1.914 (1.043-3.515)	0.036	0.252
AA	28 (10.8)	5 (11.9)	1.462 (0.416-5.137)	0.554	0.854	24 (14.5)	19 (19.4)	1.976 (0.904-4.317)	0.088	0.220
Dominant			1.013 (0.480-2.135)	0.974	0.974			1.940 (1.099-3.426)	0.022	0.140
Recessive			1.419 (0.458-4.397)	0.544	0.887			1.303 (0.654-2.597)	0.452	0.565

AOR, adjusted odds ratio; 95% CI, 95% confidence interval; SVD, small-vessel disease; N/A, not applicable; FDR, false discovery rate.

* Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

** Sample 1 was recruited from 2001 to 2006. *** Sample 2 was recruited from 2007 to 2010.

Supplementary Table S15. Comparison of genotype frequencies of *PAI-1* seven polymorphisms between ischemic stroke subtype with cardioembolism and control subjects in sample 1 and 2

Genotype	Sample 1**					Sample 2***				
	Controls (n=259)	CE (n=21)	AOR(95% CI)*	P	FDR-P	Controls (n=166)	CE (n=31)	AOR(95% CI)*	P	FDR-P
<i>PAI-1</i> -844G>A										
GG	101 (39.0)	6 (28.6)	1.000 (reference)			61 (36.7)	14 (45.2)	1.000 (reference)		
GA	117 (45.2)	13 (61.9)	1.504 (0.519-4.355)	0.452	0.981	74 (44.6)	11 (35.5)	0.377 (0.140-1.016)	0.054	0.324
AA	41 (15.8)	2 (9.5)	0.869 (0.155-4.856)	0.873	0.873	31 (18.7)	6 (19.4)	0.910 (0.289-2.868)	0.871	0.871
Dominant			1.393 (0.501-3.874)	0.525	0.859			0.505 (0.215-1.186)	0.117	0.702
Recessive			0.613 (0.135-2.788)	0.527	0.659			1.266 (0.441-3.635)	0.662	0.763
<i>PAI-1</i> -675 4G>5G										
4G4G	116 (44.8)	7 (33.3)	1.000 (reference)			66 (39.8)	10 (32.3)	1.000 (reference)		
4G5G	110 (42.5)	8 (38.1)	1.013 (0.344-2.990)	0.981	0.981	78 (47.0)	13 (41.9)	1.131 (0.444-2.886)	0.796	0.955
5G5G	33 (12.7)	6 (28.6)	3.788 (1.059-13.545)	0.041	0.205	22 (13.3)	8 (25.8)	2.029 (0.658-6.260)	0.218	0.812
Dominant			1.522 (0.585-3.960)	0.390	0.859			1.372 (0.587-3.206)	0.465	0.904
Recessive			3.883 (1.294-11.654)	0.016	0.080			2.003 (0.746-5.377)	0.168	0.740
<i>PAI-1</i> 43G>A										
GG	207 (79.9)	17 (81.0)	1.000 (reference)			141 (84.9)	25 (80.6)	1.000 (reference)		
GA	48 (18.5)	4 (19.0)	1.105 (0.349-3.500)	0.865	0.981	22 (13.3)	6 (19.4)	1.737 (0.600-5.024)	0.308	0.924
AA	4 (1.5)	0 (0.0)	N/A	N/A	N/A	3 (1.8)	0 (0.0)	N/A	N/A	N/A
Dominant			1.030 (0.326-3.253)	0.960	0.960			1.514 (0.532-4.313)	0.437	0.904
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 9785G>A										
GG	240 (92.7)	20 (95.2)	1.000 (reference)			156 (94.0)	31 (100.0)	1.000 (reference)		
GA	18 (6.9)	1 (4.8)	0.728 (0.090-5.892)	0.766	0.981	10 (6.0)	0 (0.0)	N/A	N/A	N/A
AA	1 (0.4)	0 (0.0)	N/A	N/A	N/A	0 (0.0)	0 (0.0)	N/A	N/A	N/A
Dominant			0.698 (0.087-5.625)	0.736	0.859			N/A	N/A	N/A
Recessive			N/A	N/A	N/A			N/A	N/A	N/A
<i>PAI-1</i> 10692T>C										
TT	98 (37.8)	7 (33.3)	1.000 (reference)			61 (36.7)	10 (32.3)	1.000 (reference)		
TC	128 (49.4)	10 (47.6)	1.097 (0.400-3.006)	0.858	0.981	76 (45.8)	18 (58.1)	1.164 (0.466-2.904)	0.745	0.955
CC	33 (12.7)	4 (19.0)	2.394 (0.578-9.910)	0.228	0.380	29 (17.5)	3 (9.7)	0.495 (0.113-2.168)	0.351	0.812
Dominant			1.251 (0.479-3.269)	0.648	0.859			1.028 (0.434-2.435)	0.951	0.951
Recessive			1.809 (0.550-5.946)	0.329	0.548			0.494 (0.132-1.855)	0.296	0.740
<i>PAI-1</i> 11053T>G										
TT	65 (25.1)	7 (33.3)	1.000 (reference)			43 (25.9)	7 (22.6)	1.000 (reference)		
TG	139 (53.7)	11 (52.4)	0.597 (0.208-1.718)	0.339	0.981	78 (47.0)	15 (48.4)	0.974 (0.344-2.759)	0.960	0.960
GG	55 (21.2)	3 (14.3)	0.613 (0.160-2.351)	0.476	0.595	45 (27.1)	9 (29.0)	1.503 (0.477-4.737)	0.487	0.812
Dominant			0.638 (0.241-1.688)	0.365	0.859			1.168 (0.444-3.073)	0.753	0.904
Recessive			0.857 (0.274-2.677)	0.790	0.790			1.299 (0.530-3.186)	0.567	0.763
<i>PAI-1</i> 12068G>A										
GG	96 (37.1)	7 (33.3)	1.000 (reference)			67 (40.4)	11 (35.5)	1.000 (reference)		
GA	135 (52.1)	10 (47.6)	1.089 (0.395-3.002)	0.869	0.981	75 (45.2)	15 (48.4)	1.198 (0.478-3.003)	0.701	0.955
AA	28 (10.8)	4 (19.0)	2.357 (0.592-9.387)	0.224	0.380	24 (14.5)	5 (16.1)	1.247 (0.364-4.276)	0.726	0.871
Dominant			1.274 (0.489-3.317)	0.621	0.859			1.202 (0.519-2.779)	0.668	0.904
Recessive			1.901 (0.576-6.274)	0.292	0.548			1.189 (0.386-3.664)	0.763	0.763

AOR, adjusted odds ratio; 95% CI, 95% confidence interval; CE, cardioembolism; N/A, not applicable; FDR, false discovery rate.

* Adjusted by age, sex, hypertension, diabetes mellitus, hyperlipidemia, and smoking.

** Sample 1 was recruited from 2001 to 2006. *** Sample 2 was recruited from 2007 to 2010.

Supplementary Table S16. Clinical variables in ischemic stroke patients stratified by *PAI-1* -844GA/-675 5G genotype

Genotype	Homocysteine (mmol/L)		Folate (mg/ml)		Vitamin B12 (pg/ml)		Total cholesterol (mg/dl)		Triglyceride (mg/dl)		PLT (10 ³ /μℓ)		BMI (kg/m ²)	
	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a
<i>PAI-1</i> -844 G>A/-675 4G>5G(N)														
GG+4G4G(79)	10.02±4.10	0.976	7.48±4.50	0.420	716.39±378.36	0.248	189.04±36.12	0.013	143.67±105.36	0.143	253.37±129.99	0.489	23.23±3.25	0.011
GA+5G5G(20)	9.99±2.97		6.55±4.06		910.37±1227.04		212.53±35.81		184.11±111.67		232.75±47.03		25.66±4.03	
Genotype	PT (sec)		aPTT (sec)		Fibrinogen (mg/dl)		Antithrombin III (%)		BUN (mg/dl)		Uric acid (mg/dl)		HDL-cholesterol (10 ³ /μℓ)	
	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a	Mean ± SD	<i>P</i> ^a
<i>PAI-1</i> -844 G>A/-675 4G>5G														
GG+4G4G(79)	11.92±1.06	0.236	32.37±10.34	0.376	424.68±149.96	0.628	91.77±18.51	0.418	16.38±5.99	0.168	4.35±1.39	0.041	44.40±17.70	0.829
GA+5G5G(20)	11.62±0.66		30.25±4.53		404.31±132.60		96.28±23.50		14.45±3.13		5.12±1.73		45.44±13.64	

PLT, platelet; BMI, body mass index; PT, prothrombin time; aPTT, activated partial thromboplastin time; HDL-cholesterol, high-density lipoprotein cholesterol; SD, standard deviation. ^a Calculated using Student's t-test