

Supplementary table 1. General information of the ARAS group compared to the non-ARAS group

Variables	ARAS Groups (n=362)	Non-ARAS group (n=664)	$t/z/\chi^2$	p
Age (years)	66.00 (58.75, 72.00)	61.00 (54.00, 69.00)	-6.427	$p<0.001$
Gender (%)				
Male	226 (62.4)	390 (58.7)	1.334	0.248
Female	136 (37.6)	274 (41.3)		
Smoking (%)	152 (42)	242 (36.4)	3.043	0.081
Diabetes (%)	74 (20.4)	162 (24.4)	2.070	0.150
Systolic pressure (mmHg)	149 (131, 163)	143 (129, 160)	-2.244	0.025
Diastolic pressure (mmHg)	82 (71, 93)	82 (73, 91)	-0.941	0.347
BMI (kg/m ²)	24.65 (22.71, 27.61)	24.95 (22.98, 27.63)	-0.075	0.831

Abbreviation: BMI, Body Mass Index.

Supplementary table 2. General information of the ARAS moderate stenosis group compared to severe stenosis group

Variables	Moderate stenosis group (n=104)	Severe stenosis group (n=258)	$t/z/\chi^2$	p value
Age (years)	66 (59.5, 72)	65 (58, 71.25)	-1.073	0.283
Gender (%)				
Male	58 (55.8)	168 (65.1)	2.76	0.097
Female	46 (44.2)	90 (34.9)	1	
Smoking (%)	40 (38.5)	112 (43.5)	0.745	0.388
Diabetes (%)	10 (9.6)	64 (24.8)	10.517	0.001
Systolic pressure (mmHg)	148.5 (133.25, 170)	149 (131, 162)	-1.281	0.200
Diastolic pressure (mmHg)	79.00 (68.50, 92.00)	83.00 (71.75, 93.25)	-0.780	0.436
BMI (kg/m ²)	24.57 (22.45, 27.55)	24.65 (22.83, 27.72)	-0.269	0.788

Abbreviation: BMI, Body Mass Index.

Supplementary table 3. Comparison of test results between the ARAS and non-ARAS groups

Variables	ARAS Groups (n=362)	Non-ARAS group (n=664)	$t/z/\chi^2$		p
WBC (*10 ⁹ /L)	7.30 (6.12, 8.86)	6.93 (5.84, 8.17)	-3.497		<0.001
PLT (*10 ⁹ /L)	257.00 (210.63, 294.30)	237.50 (201.13, 285.18)	-3.625		<0.001
NE (*10 ⁹ /L)	4.48 (3.73, 5.66)	4.02 (3.24, 4.98)	-5.307		<0.001
LYM (*10 ⁹ /L)	1.79 (1.50, 2.17)	1.99 (1.64, 2.40)	-4.983		<0.001
RDW (%)	0.13 (0.13, 0.14)	0.13 (0.13, 0.14)	-1.648		0.099
TC (mmol/l)	4.46 (3.73, 5.46)	4.59 (3.75, 5.35)	-0.335		0.738
TG (mmol/l)	1.51 (1.06, 2.07)	0.94 (1.30, 1.91)	-3.913		<0.001
HDL (mmol/l)	1.03 (0.87, 1.22)	1.10 (0.92, 1.31)	-3.596		<0.001
LDL (mmol/l)	2.61 (2.05, 3.29)	2.63 (1.96, 3.30)	-1.042		0.298
Lipoprotein a (mmol/l)	0.18 (0.08, 0.40)	0.16 (0.07, 0.42)	-0.371		0.710
Scr (umol/l)	83.00 (67.75, 105.25)	73.50 (63.00, 88.00)	-5.588		<0.001
Cystatin C (mg/L)	1.02 (0.85, 1.21)	0.94 (0.83, 1.11)	-4.272		<0.001
HbA1c (%)	6.40 (6.00, 7.10)	6.10 (5.80, 6.60)	-4.707		<0.001
NLR	2.48 (1.94, 3.33)	2.02 (1.59, 2.51)	-8.051		<0.001
PLR	140.59 (109.75, 177.74)	118.07 (94.35, 147.77)	-6.362		<0.001

Abbreviation: WBC, white blood cells; PLT, platelets; NE, neutrophils; LYM, lymphocyte; RDW, blood cell distribution width; TG, triglycerides; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; Scr, serum creatinine; HbA1c, glycated hemoglobin; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.

Supplementary table 4. Comparison of test results between the moderate stenosis group and the severe stenosis group in ARAS

Variables	Moderate stenosis group (n=104)	Severe stenosis group (n=258)	$t/z/\chi^2$	p
WBC (*10 ⁹ /L)	6.83 (5.77, 7.90)	7.6 (6.36, 9.01)	-3.219	0.001
PLT (*10 ⁹ /L)	252.85 (203.57, 289.00)	262.00 (212.45, 295.23)	-0.801	0.423
NE (*10 ⁹ /L)	3.98 (3.30, 5.00)	4.82 (3.81, 5.84)	-3.574	< 0.001
LYM (*10 ⁹ /L)	1.82 (1.56, 2.15)	1.79 (1.47, 2.19)	-0.033	0.973
RDW (%)	0.13 (0.13, 0.15)	0.13 (0.13, 0.14)	-1.298	0.194
TC (mmol/l)	4.45 (3.89, 5.22)	4.49 (3.69, 5.52)	-0.564	0.573
TG (mmol/l)	1.50 (1.10, 2.07)	1.55 (1.04, 2.07)	-0.542	0.588
HDL-C (mmol/l)	1.00 (0.90, 1.26)	1.03 (0.85, 1.22)	-1.037	0.300
LDL-C (mmol/l)	2.61 (2.11, 3.33)	2.62 (2.03, 3.29)	-0.879	0.379
Lipoprotein a (mmol/l)	0.21 (0.08, 0.36)	0.16 (0.07, 0.42)	-1.197	0.231
Scr (umol/l)	81.00 (65.00, 98.75)	84.00 (65.75, 108.00)	-0.830	0.406
Cystatin C (mg/L)	1.04 (0.79, 1.21)	1.02 (0.86, 1.22)	-0.595	0.552
HbA1c (%)	6.20 (5.80, 7.13)	6.40 (6.00, 7.10)	-1.974	0.048
NLR	2.20 (1.79, 3.07)	2.58 (2.00, 3.47)	-2.895	0.004
PLR	134.82 (108.69, 166.76)	141.24 (110.88, 184.96)	-0.568	0.570

Abbreviation: WBC, white blood cells; PLT, platelets; NE, neutrophils; LYM, lymphocyte; RDW, blood cell distribution width; TG, triglycerides; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; Scr, serum creatinine; HbA1c, glycated hemoglobin; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.

Supplementary table 5. Univariate logistic regression analysis

Variables	β	SE	Wald χ^2	<i>p</i>	OR	95%CI
Age	0.043	0.007	39.533	0.000	1.044	1.030~1.058
Systolic pressure	0.007	0.003	5.141	0.023	1.007	1.001~1.013
WBC	0.131	0.034	15	0.000	1.139	1.067~1.217
PLT	0.004	0.001	16.133	0.000	1.005	1.002~1.007
NE	0.213	0.04	27.806	0.000	1.238	1.143~1.340
LYM	-0.35	0.113	9.601	0.002	0.705	0.565~0.879
HDL-C	-0.707	0.212	11.112	0.001	0.493	0.325~1.174
Scr	0.016	0.002	44.694	0.000	1.016	1.011~1.020
Cystatin C	1.219	0.231	27.914	0.000	3.383	2.153~5.318
NLR	0.416	0.062	45.341	0.000	1.515	1.343~1.710
PLR	0.009	0.001	50.157	0.000	1.009	1.007~1.012

Abbreviation: WBC, white blood cells; PLT, platelets; NE, neutrophils; LYM, lymphocyte; HDL-C, high-density lipoprotein cholesterol; Scr, serum creatinine; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.