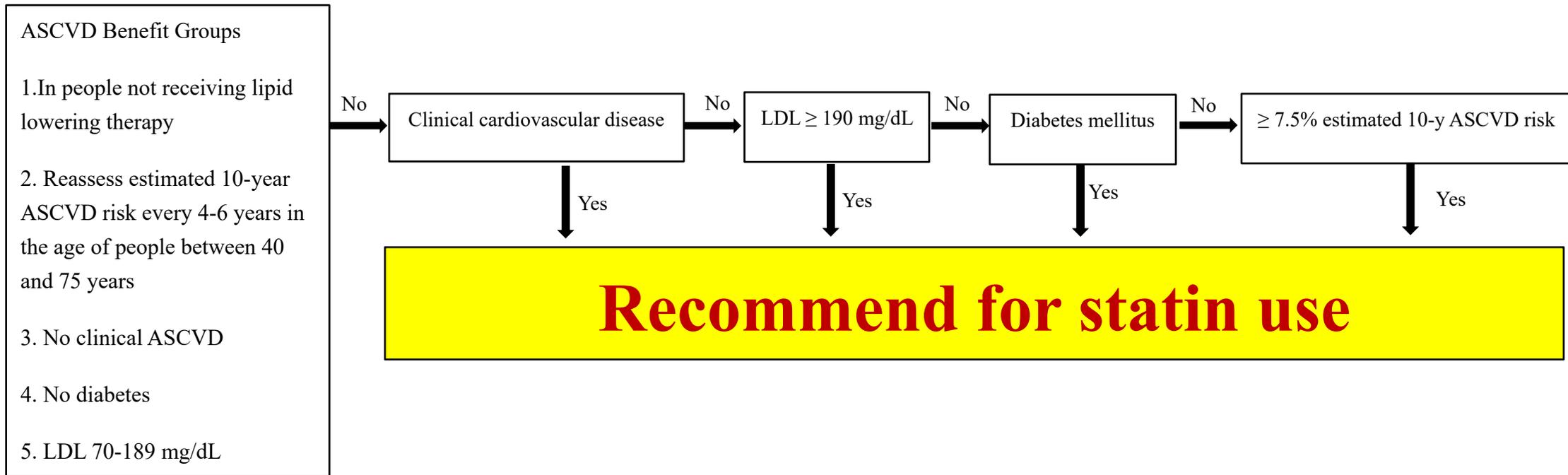


Supporting Information

Supplement to: Plasma Aldosterone Concentration as a Determinant for Statin Use among Middle-Aged Hypertensive Patients on Atherosclerosis Cardiovascular Disease

Figure S1: Major recommendations for statin therapy on 10-year ASCVD prevention under the ACC-AHA guideline recommendations



Abbreviations: ACC, American College of Cardiology; AHA, American Heart Association; ASCVD, atherosclerotic cardiovascular disease; LDL, low-density lipoprotein

Table S1. The sensitivity and specificity for 10-year ASCVD in middle-aged hypertensive patients with PA and EH by the recommendation of statin use based on the ACC/AHA guidelines

	Discriminative cut-off value	Sensitivity (95% CI)	Specificity (95% CI)	AUROC (95% CI)	<i>p</i>
PA (n = 461)					
10-year ASCVD risk	7.5%	98.0% (95.8, 99.3)	88.5% (82.4, 93.0)	0.94 (0.91, 0.96)	<0.001
EH (n = 533)					
10-year ASCVD risk	7.5 %	95.5% (92.7, 97.4)	91.0% (86.2, 94.6)	0.93 (0.91, 0.95)	<0.001

Abbreviations: ACC, American College of Cardiology; AHA, American Heart Association; ASCVD, atherosclerotic cardiovascular disease; AUROC, area under receiver operating characteristic curve; CI, confidence interval; EH, essential hypertension; PA, primary aldosteronism.

Table S2. Demographic comparisons of enrollees between the PAC < 60 ng/dL and PAC \geq 60 ng/dL groups.

	PAC < 60ng/dL (n = 848)	PAC \geq 60ng/dL (n = 146)	<i>p</i>
Age (years)	52.6 \pm 9.4	50.2 \pm 9.3	0.921
Male gender (%)	411 (48.5)	60 (41.1)	0.116
Body mass index (Kg/m ²)	25.5 \pm 3.9	24.8 \pm 3.5	0.168
Obesity (%)	101 (11.9)	12 (8.2)	0.247
Waist circumference (cm)	83.5 \pm 10.8	80.8 \pm 11.4	0.452
Systolic blood pressure (mmHg)	148.2 \pm 22.1	150.5 \pm 21.6	0.753
Diastolic blood pressure (mmHg)	88.2 \pm 13.7	89.8 \pm 14.4	0.427
Smoking status (%)	106 (12.5)	26 (17.8)	0.107
Diabetes mellitus (n,%)	106 (12.5)	23 (15.8)	0.344
Left ventricular hypertrophy (n,%)	112 (13.2)	31 (21.2)	0.015*
Laboratory data			
PAC (ng/dL)	31.2 \pm 13.0	104.1 \pm 144.1	<0.001*
(nmol/L)	0.9 \pm 0.4	2.9 \pm 4.0	
PRA (ng/mL/h)	2.6 \pm 6.3	2.8 \pm 8.3	<0.001*
(pmol/L/h)	61.6 \pm 149.3	66.4 \pm 196.7	
Log ARR	1.7 \pm 0.9	2.3 \pm 0.9	0.491
Potassium (mmol/L)	3.9 \pm 0.7	3.5 \pm 0.8	0.016*
(mEq/L)	3.9 \pm 0.7	3.5 \pm 0.8	
Fasting blood glucose (mg/dL)	99.9 \pm 22.3	95.6 \pm 18.2	0.007*
(mmol/L)	5.5 \pm 1.2	5.3 \pm 1.0	
Total cholesterol (mg/dL)	196.1 \pm 37.0	195.1 \pm 36.9	0.998
(mmol/L)	5.1 \pm 1.0	5.1 \pm 1.0	
Low density lipoprotein (mg/dL)	117.2 \pm 32.4	115.8 \pm 31.4	0.632
(mmol/L)	3.0 \pm 0.8	3.0 \pm 0.8	
Low density lipoprotein \geq 190 mg/dL (n,%)	17 (2.0)	4 (2.7)	0.796
High density lipoprotein (mg/dL)	47.1 \pm 13.1	47.5 \pm 12.6	0.580
(mmol/L)	1.2 \pm 0.3	1.2 \pm 0.3	
Triglyceride (mg/dL)	147.2 \pm 108.3	129.3 \pm 79.1	<0.001*
(mmol/L)	1.7 \pm 1.2	1.5 \pm 0.9	
Estimated glomerular filtration rate (mL/s per 1.73 m ²)	80.9 \pm 23.7	78.5 \pm 31.1	<0.001*
Metabolic syndrome (n,%)	345 (40.7)	53 (36.3)	0.365
Outcome			
10-year ASCVD (%) ^a	11.8	11.4	0.601

Abbreviations: ASCVD, atherosclerotic cardiovascular disease; ARR, aldosterone to renin ratio; EH, essential hypertension; PA, primary aldosteronism; PAC, plasma aldosterone concentration; PRA, plasma renin activity.

^a ASCVD (atherosclerotic cardiovascular disease): myocardial infarction, other coronary heart disease, or stroke.