

Supplemental Table 1. Clinical characteristics of individuals untreated for hypertension stratified by age

Variable	<52 yr (n=190)	≥52 yr (n=176)	P-value
Age (year)	42 ± 7	58 ± 4	<0.001
Male, n (%)	70 (37)	77 (43.8)	0.107
Body mass index (kg/m <sup>2</sup> )	29.5 (20-55.5)	29.2 (18.8-37.6)	0.222
Waist circumference (cm)	100 ± 15	101 ± 11	0.722
Non-Hispanic White, n(%)	106 (55.8)	133 (75.6)	<0.001
Systolic BP (mmHg)	120 ± 14	124 ± 15	0.005
Diastolic BP (mmHg)	74 ± 9	75 ± 9	0.276
Pulse pressure (mmHg)	46 ± 10	49 ± 11	0.005
Heart rate (/min)	71 ± 9	67 ± 9	<0.001
NBP/PreHTN/HTN, n (%)	98/66/26 (51/35/14)	65/80/31 (37/45/18)	0.019
SSPG,mg/dL	154 (41-323)	148 (48-332)	0.639
SSPG tertile, n(%)	69/64/57 (36/34/30)	65/55/56 (37/31/32)	0.872
FPG (mg/dL)	95 (73-123)	100 (71-126)	<0.001
Total cholesterol (mg/dL)	186 (116-358)	198 (125-361)	<0.001
LDL-cholesterol (mg/dL)	119 ± 30	127 ± 32	0.015
HDL-cholesterol (mg/dL)	45 ± 11	49 ± 14	0.001
Triglycerides (mg/dL)	105 (32-800)	111 (29-1217)	0.662

Data are shown as mean±SD, median (range) or as number (%).

NBP: normal blood pressure; PreHTN: prehypertension; SSPG: steady-state plasma glucose; LDL: low density lipoprotein; HDL: high density lipoprotein

Supplemental Table 2. Prevalence of HTN status according to SSPG tertiles in untreated individuals

Variable	SSPG Tert1	SSPG Tert2	SSPG Tert3	p value
<b>Age &lt;52 years</b>				
NBP	38 (55.1%)	36 (56.3%)	24 (42.1%)	0.401
Prehypertension	23 (33.3%)	18 (28.1%)	25 (43.9%)	
Hypertension	8 (11.6%)	10 (15.6%)	8 (14.0%)	
<b>Age ≥ 52 years</b>				
NBP	35 (53.8%)	20 (36.4%)	10 (17.9%)	0.001
Prehypertension	19 (29.2%)	28 (50.9%)	33 (58.9%)	
Hypertension	11 (16.9%)	7 (12.7%)	13 (23.2%)	

Data was presented as number (percentage).  
p-value was calculated by chi-squared test.

Supplemental Table 3. Age and insulin resistance (SSPG) as predictors of systolic and diastolic blood pressure stratified age in untreated individuals for hypertension

Variable	Model1				Model2				
	B	SE	$\beta$	p	B	SE	$\beta$	p	
<b>systolic blood pressure</b>									
<b>In Age&lt;52 (N=190)</b>									
Age (10year)	4.27	1.53	0.2	0.006	4.21	1.56	0.20	0.008	
SSPG (50mg/dL)	1.11	0.74	0.11	0.135	-0.37	0.88	-0.04	0.675	
<b>In Age<math>\geq</math>52 (N=176)</b>									
Age (10year)	2.71	2.45	0.08	0.269	2.73	2.49	0.08	0.273	
SSPG (50mg/dL)	3.31	0.78	0.31	<0.001	3.38	0.95	0.31	<0.001	
<b>diastolic blood pressure</b>									
<b>In Age&lt;52 (N=190)</b>									
Age (10year)	3.17	1.01	0.23	0.002	2.69	1.01	0.20	0.009	
SSPG (50mg/dL)	0.34	0.49	0.05	0.482	0.41	0.57	0.06	0.478	
<b>In Age<math>\geq</math>52 (N=176)</b>									
Age (10year)	-1.86	1.62	-0.09	0.252	-1.81	1.48	-0.08	0.225	
SSPG (50mg/dL)	1.46	0.51	0.21	0.005	1.30	0.57	0.19	0.022	

B=regression coefficient; SE=standard error;  $\beta$ =standardized regression coefficient.

Model1 were calculated after adjustment for age and SSPG as covariates.

Model2 were calculated after adjustment for age, sex, ethnicity, BMI, WC, heart rate, and SSPG as covariates.