SUPPLEMENTARY MATERIALS

Supplemental Table 1. Hypertension incidence rates and incidence rate ratios per 100 person-years over 5 years of follow-up (2010-2015), by sociodemographic, health and behavioral factors among the full eligible sample.

				95%	ό CI		95%	6 CI	
Value	Events	PYRS	IR	Lower	Upper	IRR	Lower	Upper	p- value
Overall	193	3187	4.579	3.911	5.361				
Gender									
Male	74	1203	5.14	4.078	6.548	1			
Female	119	1984	4.408	3.641	5.369	0.858	0.632	1.163	0.323
Age groups									
40-49	56	1418	2.795	2.117	3.755	1			
50-59	47	727	5.092	3.731	7.069	1.821	1.191	2.786	0.006
60-69	42	514	5.478	3.876	7.848	1.96	1.25	3.073	0.003
70-79	28	316	6.244	4.127	9.655	2.233	1.347	3.704	0.002
80+	20	212	8.825	5.585	14.45	3.157	1.83	5.445	< 0.001
Education									
None	85	1134	6.774	5.397	8.574	1			
Less than									
secondary	92	1258	6.158	4.919	7.769	0.909	0.658	1.257	0.563
Secondary or									
more	16	298	3.756	2.19	6.868	0.555	0.305	1.008	0.053
Union status									
Not in union	91	1508	4.237	3.38	5.357	1			
Formal/informal	102	1.70	4.020	2.004	(1 1 1	1 162	0.040	1.502	0.247
union	102	1679	4.928	3.984	6.144	1.163	0.849	1.593	0.347
SESa	60	1240	2 000	2.01	5 120	1			
Low	68	1248	3.909	3.01	5.138	1 126	0.006	2 000	0.050
Middle	64	975	5.612	4.325	7.372	1.436	0.986	2.089	0.059
High Employment	60	946	4.464	3.362	6.007	1.142	0.772	1.69	0.507
Employment status									
Not employed	144	1970	6.057	5.062	7.284	1			
Employed	48	706	6.503	4.83	8.911	1.074	0.754	1.529	0.694
Smoking history	70	700	0.505	7.03	0.711	1.074	0.754	1.527	0.07
Never	163	2573	4.638	3.92	5.514	1			
Prior	103	2373	4.314	2.36	8.558	0.93	0.49	1.765	0.825
Current	19	396	3.89	2.441	6.48	0.93	0.506	1.703	0.823
Alcohol use	19	390	3.09	∠. 44 1	0.40	0.039	0.500	1.391	0.490
Not in past 30									
days	153	2546	4.522	3.805	5.401	1			
Less than	100	_0.0		2.002	201	1			
weekly	10	227	3.557	1.875	7.414	0.787	0.399	1.549	0.488

Weekly	30	414	5.546	3.691	8.558	1.227	0.784	1.92	0.372
Physical activity ^b									
Low	20	199	6.424	3.801	11.185	1			
Moderate	71	913	6.323	4.899	8.246	0.984	0.548	1.769	0.958
High	100	2017	3.798	3.073	4.733	0.591	0.335	1.043	0.07
High waist circumference ^c									
No	104	2106	3.629	2.936	4.523	1			
Yes	78	974	5.796	4.544	7.455	1.597	1.151	2.215	0.005
Diabetes ^d									
No	186	3095	4.513	3.851	5.311	1			
Yes	6	81	6.868	2.92	18.668	1.522	0.64	3.621	0.342
High									
triglycerides ^e									
No	122	2269	4.084	3.367	4.989	1			
Yes	59	817	5.344	4.014	7.203	1.309	0.922	1.857	0.132
HIV and ART									
status									
Negative	155	1522	10.254	8.726	12.104	1			
Positive, not on									
ART	25	490	4.615	3.054	7.246	0.45	0.286	0.708	0.001
Positive, on	_	4.50			10.100	0.046	0.445		0.01=
ART	6	178	3.553	1.52	10.122	0.346	0.145	0.827	0.017

^a Based on a household asset index score.

^b Based on the International Physical Activity Questionnaire (IPAQ).

^c Greater than 102cm for men and 88cm for women. ^d Blood glucose greater than or equal to 11.1. ^e Greater than or equal to 1.7 mmol/l.

Supplemental Table 2. Multivariable Poisson regression of incident hypertension on sociodemographic, health and behavioral risk factors among the full eligible sample (n=721).

		95%	CI	
	aIRR	Lower	Upper	p-value
Gender				
Male	1			
Female	0.783	0.489	1.253	0.307
Age groups				
40-49	1			
50-59	1.871	1.205	2.905	0.005
60-69	1.972	1.146	3.392	0.014
70-79	2.183	1.149	4.146	0.017
80+	2.86	1.305	6.265	0.009
Education				
None	1			
Less than				
secondary	0.947	0.647	1.387	0.781
Secondary or	0.60=	0.0	4 22=	0.464
more	0.607	0.3	1.227	0.164
Union status				
Not in union	1			
Formal/informal union	0.972	0.678	1.392	0.876
SES ^a	0.972	0.078	1.392	0.670
Low	1			
Middle	1.258	0.825	1.918	0.286
	0.963	0.823	1.55	0.280
High Employment	0.903	0.399	1.33	0.070
status				
Not employed	1			
Employed	1.814	1.195	2.752	0.005
Smoking history	11011	11150	,,,	0.002
Never	1			
Prior	0.802	0.381	1.688	0.562
Current	0.71	0.362	1.393	0.32
Alcohol use	0.71	0.302	1.575	0.52
Not in past 30				
days	1			
Less than				
weekly	0.86	0.415	1.779	0.684
Weekly	1.114	0.646	1.922	0.698
Physical activity ^b				
Low	1			
Moderate	0.906	0.495	1.656	0.748

High High waist circumference ^c	0.639	0.342	1.195	0.161
No	1			
Yes	1.564	1.047	2.335	0.029
Diabetes ^d				
No	1			
Yes	1.047	0.438	2.506	0.917
High				
triglycerides ^e				
No	1			
Yes	1.126	0.776	1.633	0.532

^a Based on a household asset index score.

^b Based on the International Physical Activity Questionnaire (IPAQ).

^c Greater than 102cm for men and 88cm for women.

 $^{^{\}rm d}$ Blood glucose greater than or equal to 11.1.

^e Greater than or equal to 1.7 mmol/l.

Supplemental Table 3. Multivariable Poisson regression of incident hypertension on sociodemographic, health (using BMI instead of waist circumference) and behavioral risk factors, and HIV and ART status among those completing baseline and follow-up time points (n=579).

	95% CI					
	aIRR	Lower	Upper	p-value		
Gender						
Male	1					
Female	0.911	0.595	1.396	0.669		
Age groups						
40-49	1					
50-59	1.906	1.237	2.938	0.003		
60-69	2.38	1.426	3.972	0.001		
70-79	2.649	1.444	4.857	0.002		
80+	2.335	1.055	5.168	0.036		
Education						
None	1					
Less than						
secondary	1.128	0.775	1.642	0.53		
Secondary or						
more	0.746	0.365	1.525	0.421		
Union status						
Not in union	1					
Formal/informal	0.071	0.605	1.276	0.067		
union	0.971	0.685	1.376	0.867		
SES ^a						
Low	1					
Middle	0.927	0.619	1.389	0.714		
High	0.778	0.498	1.215	0.269		
Employment						
status	1					
Not employed	1	1.014	2 20 7	0.042		
Employed	1.526	1.014	2.295	0.043		
Smoking history						
Never	1					
Prior	0.732	0.342	1.565	0.421		
Current	0.716	0.372	1.378	0.317		
Alcohol use						
Not in past 30						
days	1					
Less than weekly	0.752	0.363	1.559	0.444		
		0.563				
Weekly	1.037	0.028	1.711	0.887		
Physical activity ^b						

Low	1			
Moderate	0.721	0.419	1.242	0.239
High	0.506	0.289	0.886	0.017
Obesity ^c				
No	1			
Yes	1.902	1.315	2.751	0.001
Diabetes ^d				
No	1			
Yes	0.916	0.371	2.263	0.849
High				
triglycerides ^e				
No	1			
Yes	1.346	0.965	1.876	0.08
HIV and ART				
status				
Negative	1			
Positive, not on				
ART	0.504	0.315	0.809	0.004
Positive, on				
ART	0.507	0.221	1.165	0.11

^a Based on a household asset index score.

^b Based on the International Physical Activity Questionnaire (IPAQ).

^c Greater than or equal to 30 BMI. ^d Blood glucose greater than or equal to 11.1. ^e Greater than or equal to 1.7 mmol/l.

Supplemental Table 4. Multivariable Poisson regression of incident hypertension (based on BP threshold only) on sociodemographic, health and behavioral risk factors, and HIV and ART status among those completing baseline and follow-up time points (n=581).

	95% CI				
	aIRR	Lower	Upper	p-value	
Gender					
Male	1				
Female	0.773	0.455	1.315	0.343	
Age groups					
40-49	1				
50-59	1.902	1.17	3.093	0.01	
60-69	2.06	1.166	3.641	0.013	
70-79	1.432	0.658	3.117	0.366	
80+	1.888	0.795	4.483	0.15	
Education					
None	1				
Less than					
secondary	0.99	0.648	1.514	0.965	
Secondary or	0.772	0.363	1.644	0.502	
more Union status	0.772	0.303	1.044	0.302	
Not in union	1				
In union	0.8	0.54	1.185	0.266	
SES ^a	0.8	0.34	1.163	0.200	
Low	1				
Middle	0.899	0.569	1.419	0.647	
	0.657	0.309	1.419	0.047	
High Employment	0.037	0.394	1.094	0.100	
status					
Not employed	1				
Employed	1.747	1.093	2.792	0.02	
Smoking history					
Never	1				
Prior	0.612	0.237	1.581	0.311	
Current	0.61	0.291	1.277	0.189	
Alcohol use		0.27		*****	
Not in past 30					
days	1				
Less than					
weekly	0.738	0.326	1.672	0.467	
Weekly	0.959	0.542	1.699	0.887	
Physical activity ^b					
Low	1				
Moderate	0.973	0.5	1.894	0.936	

High	0.669	0.33	1.355	0.264
High waist				
circumference ^c				
No	1			
Yes	1.361	0.882	2.102	0.164
Diabetes ^d				
No	1			
Yes	0.341	0.05	2.309	0.27
High				
triglycerides ^e				
No	1			
Yes	1.19	0.792	1.789	0.402
HIV and ART				
status				
Negative	1			
Positive, not on				
ART	0.28	0.151	0.518	< 0.001
Positive, on				
ART	0.313	0.108	0.908	0.033

^a Based on a household asset index score.

^b Based on the International Physical Activity Questionnaire (IPAQ). ^c Greater than 102cm for men and 88cm for women.

^d Blood glucose greater than or equal to 11.1.

^e Greater than or equal to 1.7 mmol/l.

Supplemental Table 5. Multivariable competing risk regression (Fine-Grey model) of incident hypertension on sociodemographic, health and behavioral risk factors among the full eligible sample (n=662).

	95% CI				
	SHR	Lower	Upper	p-value	
Gender				_	
Male	1				
Female	0.835	0.526	1.326	0.445	
Education					
None	1				
Less than					
secondary	1.1	0.766	1.58	0.607	
Secondary or	0.069	0.512	1 020	0.021	
more	0.968	0.513	1.829	0.921	
Union status	1				
Not in union Formal/informal	1				
union	1.067	0.759	1.5	0.708	
SES ^a	1.007	0.737	1.5	0.700	
Low	1				
Middle	1.021	0.689	1.512	0.919	
High	0.881	0.566	1.371	0.574	
Employment	0.881	0.300	1.3/1	0.574	
status					
Not employed	1				
Employed	1.969	1.374	2.821	< 0.001	
Smoking history					
Never	1				
Prior	0.772	0.38	1.57	0.475	
Current	0.73	0.367	1.451	0.369	
Alcohol use					
Not in past 30					
days	1				
Less than					
weekly	0.882	0.432	1.798	0.729	
Weekly	0.899	0.506	1.597	0.716	
Physical activity ^b					
Low	1				
Moderate	1.184	0.667	2.102	0.564	
High	0.914	0.512	1.633	0.761	
High waist					
circumference ^c					
No	1	0.2			
Yes	1.399	0.952	2.056	0.088	
Diabetes ^d					

No	1			
Yes	1.399	0.677	2.887	0.364
High				
triglycerides ^e				
No	1			
Yes	1.111	0.778	1.585	0.563

^a Based on a household asset index score.
^b Based on the International Physical Activity Questionnaire (IPAQ).
^c Greater than 102cm for men and 88cm for women.

^d Blood glucose greater than or equal to 11.1.

^e Greater than or equal to 1.7 mmol/l.

Supplemental Table 6. Cause of death by broad disease category for the full eligible sample.

Cause group	N	%
HIV/AIDS and TB	20	28
Other infectious diseases	16	23
Noncommunicable diseases	34	48
External	1	1

Cause of death information from InterVA-4. Information on cause of death missing for 4 individuals.