Web Table 1. Stratified by BMI (BMI<25, BMI 25-29, BMI≥30) the association of cumulative average intake of total coffee, regular coffee, and decaffeinated coffee with erectile dysfunction (ED) in the Health Professionals Follow-Up Study, 1998-2010

	Coffee Intake, cups/day													
Type of coffee and BMI categories	No coffee ^a		<0.5		0.5-0	0.5-0.99		1-3.99		≥4		P for interaction		
	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI				
Total coffee												0.07		
BMI <25														
Model 1 ^b	1.00	Referent	0.88	0.76, 1.02	0.88	0.75, 1.02	0.93	0.82, 1.04	0.93	0.78, 1.11	0.63			
BMI 25-29					•			•						
Model 1	1.00	Referent	0.92	0.74, 1.09	0.92	0.80, 1.17	0.98	0.86, 1.17	0.97	0.85, 1.22	0.74			
BMI ≥ 30		I												
Model 1	1.00	Referent	1.40	0.27, 1.93	1.15	0.26, 2.02	1.30	0.72, 2.95	1.36	0.59, 2.56	0.08			
Regular coffee		<u> </u>				_						0.16		
BMI <25														
Model 1	1.00	Referent	0.98	0.87, 1.10	0.96	0.84, 1.10	0.98	0.88, 1.09	0.88	0.70, 1.10	0.52			
BMI 25-29		•		•			•				•			
Model 1	1.00	Referent	1.05	0.94, 1.19	1.04	0.91, 1.18	1.05	0.94, 1.16	1.03	0.87, 1.22	0.60			
BMI ≥ 30		I												
Model 1	1.00	Referent	1.24	0.98, 1.57	1.33	1.04, 1.71	1.15	0.94, 1.40	1.20	0.88, 1.63	0.51			
Decaffeinated coffee		1	I	1	1	1		<u>.</u>		1	1	0.88		
BMI <25														
												•		

Model 1	1.00	Referent	0.93	0.85,	0.96	0.85,	1.08	0.97,	0.99	0.60,	0.17	
				1.03		1.08		1.20		1.63		
BMI 25-29												
Model 1	1.00	Referent	1.01	0.92,	1.00	0.89,	1.01	0.91,	1.61	1.19,	0.45	
				1.10		1.11		1.11		2.19		
BMI ≥ 30												
Model 1	1.00	Referent	1.13	0.96,	1.12	0.91,	1.05	0.87,	1.49	0.84,	0.45	
				1.32		1.38		1.27		2.65		

Abbreviations: CI, confidence interval; HR, hazard ratio; BMI, body mass index

^a Included men who drink no regular or decaffeinated coffee.

^b Models were adjusted for age in months, calendar time, smoking (never, past, or current 1–14, 15–24, ≥25 cigarettes/d), alcohol (gm/d, 0; 0.1-4.9; 5-14.9; 15-29.9;30+), total activity metabolic equivalent/week(quintiles)ls, history of diabetes (yes/no), history of hypertension (yes/no), history of hypercholesterolemia (yes/no), history of cardiovascular disease (yes/no), energy intake (kcal/d, quintiles), AHEI score(quintiles), marital status (married, divorced, separated, widowed, or never married), race (White, African-American, Asian American, Other), difficulty of falling into sleep(yes/no), wake up during night(yes/no), not feel rested when wake up (yes/no), medication for lowering cholesterol, lowering blood pressure and sleep medicine (yes/no).

^bReference group is men who drink no regular or decaffeinated coffee.

Web Table 2. Stratified by hypertension history (yes/no) the association of cumulative average intake of total coffee, regular coffee, and decaffeinated coffee with erectile dysfunction (ED) in the Health Professionals Follow-Up Study, 1998-2010

	Coffee Intake, cups/day											
Type of coffee and Hypertension status	No coffee ^a		<0.5		0.5-0	0.5-0.99		1-3.99			P for trend	P for interaction
310103	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI		
Total coffee						I						0.25
Hypertension (No)												
Model 1 ^b	1.00	Referent	0.93	0.83, 1.04	0.93	0.83, 1.04	0.97	0.89, 1.06	0.97	0.87, 1.09	0.92	
Hypertension (Yes)												
Model 1	1.00	Referent	1.03	0.80, 1.33	0.95	0.74, 1.22	1.08	0.88, 1.32	1.07	0.81, 1.42	0.33	
Regular coffee		I										0.25
Hypertension (No)												
Model 1	1.00	Referent	1.01	0.93, 1.10	0.97	0.88, 1.07	1.00	0.93, 1.08	1.00	0.87, 1.13	0.93	
Hypertension (Yes)												
Model 1	1.00	Referent	1.19	0.94, 1.19	1.32	0.91, 1.18	1.15	0.94, 1.16	0.97	0.69, 1.37	0.42	
Decaffeinated coffee												0.72
Hypertension (No)												
Model 1	1.00	Referent	0.99	0.93, 1.06	1.01	0.93, 1.09	1.02	0.95, 1.10	1.31	1.01, 1.70	0.28	
Hypertension (Yes)				·	•			·	·			

Model 1	1.00	Referent	0.97	0.84,	0.97	0.81,	1.05	0.90,	1.43	0.83,	0.38	
				1.13		1.15		1.23		2.44		

Abbreviations: CI, confidence interval; HR, hazard ratio; BMI, body mass index

^a Included men who drink no regular or decaffeinated coffee.

^b Models which were adjusted for age in months, calendar time, smoking (never, past, or current 1–14, 15–24, ≥25 cigarettes/d), BMI (kg/m², <25;25-29.9;30+), alcohol (gm/d, 0; 0.1-4.9; 5-14.9;15-29.9;30+), total activity metabolic equivalent/week (quintiles), history of diabetes (yes/no), history of hypercholesterolemia (yes/no), history of cardiovascular disease (yes/no), energy intake (kcal/d, quintiles), AHEI score(quintiles), marital status (married, divorced, separated, widowed, or never married), race (White, African-American, Asian American, Other), difficulty of falling into sleep(yes/no), wake up during night(yes/no), not feel rested when wake up (yes/no), medication for lowering cholesterol, lowering blood pressure and sleep medicine (yes/no).

Coffee Intake, cups/day Type of coffee No coffee^a < 0.5 0.5-0.99 1-3.99 ≥4 P for P for and Marital trend interaction status HR 95% CI HR 95% HR 95% HR 95% HR 95% CI CI CI CI Total coffee 0.32 Not Currently married Model 1^b 1.00 Referent 1.03 0.73, 0.86 0.60, 1.07 0.81, 1.21 0.83, 0.28 1.45 1.23 1.43 1.77 Currently married Model 1 Referent 0.93 0.83, 0.92 0.83, 0.97 0.89, 0.97 0.87, 0.94 1.00 1.03 1.02 1.06 1.08 Regular coffee 0.67 Not Currently married Model 1 Referent 1.11 0.84, 1.14 0.85, 1.10 0.86, 1.15 0.76, 0.53 1.00 1.46 1.54 1.41 1.74 Currently married Model 1 1.00 Referent 1.03 0.95, 1.01 0.92, 1.02 0.94, 0.99 0.87, 0.94 1.12 1.09 1.10 1.12 Decaffeinated 0.08 coffee Not Currently married Model 1 1.00 Referent 0.99 0.82, 0.98 0.77, 1.20 0.96, 2.57 1.00, 0.10 1.19 1.25 1.51 6.59 Currently married

Web Table 3. Stratified by currently married (yes/no) the association of cumulative average intake of total coffee, regular coffee, and decaffeinated coffee with erectile dysfunction (ED) in the Health Professionals Follow-Up Study, 1998-2010

Model 1	1.00	Referent	0.98	0.92,	1.00	0.92,	1.01	0.94,	1.29	1.01,	0.35	
				1.05		1.08		1.09		1.65		

Abbreviations: CI, confidence interval; HR, hazard ratio

^a Included men who drink no regular or decaffeinated coffee.

^bModels were adjusted for age in months, calendar time, smoking (never, past, or current 1–14, 15–24, ≥25 cigarettes/d), BMI (kg/m², <25;25-29.9;30+), alcohol (gm/d, 0; 0.1-4.9; 5-14.9;15-29.9;30+), total activity metabolic equivalent/week (quintiles), history of diabetes (yes/no), history of hypertension (yes/no), history of cardiovascular disease (yes/no), energy intake (kcal/d, quintiles), AHEI score (quintiles), race (White, African-American, Asian American, Other), difficulty of falling into sleep(yes/no), wake up during night(yes/no), not feel rested when wake up (yes/no),medication for lowering cholesterol, lowering blood pressure and sleep medicine (yes/no).

^bReference group is men who drink no regular or decaffeinated coffee.

•					С	offee Int	ake, cu	os/day				
Type of coffee and Alcohol intake	No coffee ^a		<0.5	<0.5		0.5-0.99		1-3.99			P for trend	P for interaction
	HR	95% CI	HR	95% CI	HR	95% Cl	HR	95% CI	HR	95% CI		
Total coffee												0.70
Alcohol 0 g/day												
Model 1 ^b	1.00	Referent	1.02	0.87, 1.20	0.98	0.82, 1.18	0.95	0.83, 1.08	1.09	0.88, 1.34	0.73	
Alcohol 0.1-14.9 g/day					1	I	1					
Model 1	1.00	Referent	0.96	0.82, 1.12	0.92	0.79, 1.07	1.04	0.92, 1.18	0.99	0.84, 1.16	0.28	
Alcohol >=15 g/day					•			1		1		
Model 1	1.00	Referent	0.76	0.59- 0.97	0.82	0.64- 1.04	0.85	0.70, 1.05	0.85	0.67, 1.07	0.93	
Regular coffee					1	1		1	1	1		0.93
Alcohol 0 g/day												
Model 1	1.00	Referent	0.96	0.83, 1.11	1.11	0.94, 1.32	0.94	0.82, 1.06	1.07	0.82, 1.39	0.67	
Alcohol 0.1-14.9 g/day					1	1	1	1		1		
Model 1	1.00	Referent	1.14	1.01, 1.28	1.13	1.00, 1.29	1.11	1.00, 1.23	1.05	0.87, 1.27	0.32	
Alcohol >=15 g/day		1				1						
Model 1	1.00	Referent	0.98	0.83, 1.17	0.86	0.71, 1.03	0.97	0.83, 1.13	0.90	0.72, 1.12	0.61	

Web Table 4. Stratified by Alcohol: the association of cumulative average intake of total coffee, regular coffee, and decaffeinated coffee with erectile dysfunction (ED) in the Health Professionals Follow-Up Study, 1998-2010

Decaffeinated			_									0.93
coffee												
Alcohol												
0 g/day												
Model 1	1.00	Referent	1.03	0.92,	0.97	0.82,	1.02	0.88,	1.50	0.92,	0.69	
				1.17		1.14		1.19		2.47		
Alcohol						I	1				1	
0.1-14.9 g/day												
Model 1	1.00	Referent	0.96	0.87,	0.98	0.88,	1.06	0.97,	1.21	0.83,	0.14	
				1.04		1.10		1.17		1.76		
Alcohol		L		1						1		
>=15 g/day												
Model 1	1.00	Referent	1.02	0.91,	1.07	0.98,	1.02	0.90,	1.39	0.95,	0.43	
				1.15		1.23		1.15		2.05		

Abbreviations: CI, confidence interval; HR, hazard ratio; BMI, body mass index

^a Included men who drink no regular or decaffeinated coffee.

^bModels which were adjusted for age in months, calendar time, smoking (never, past, or current 1–14, 15–24, ≥25 cigarettes/d), BMI (kg/m², <25;25-29.9;30+), total activity metabolic equivalent/week (quintiles), history of diabetes (yes/no), history of hypertension (yes/no), history of hypercholesterolemia (yes/no), history of cardiovascular disease (yes/no), energy intake (kcal/d, quintiles), AHEI score (quintiles), marital status (married, divorced, separated, widowed, or never married), race (White, African-American, Asian American, Other), difficulty of falling into sleep(yes/no), wake up during night(yes/no), not feel rested when wake up (yes/no), medication for lowering cholesterol, lowering blood pressure and sleep medicine (yes/no).