

The Determinants and Disparities of Gout within the Multiethnic Cohort

MASTER OF SCIENCE

IN

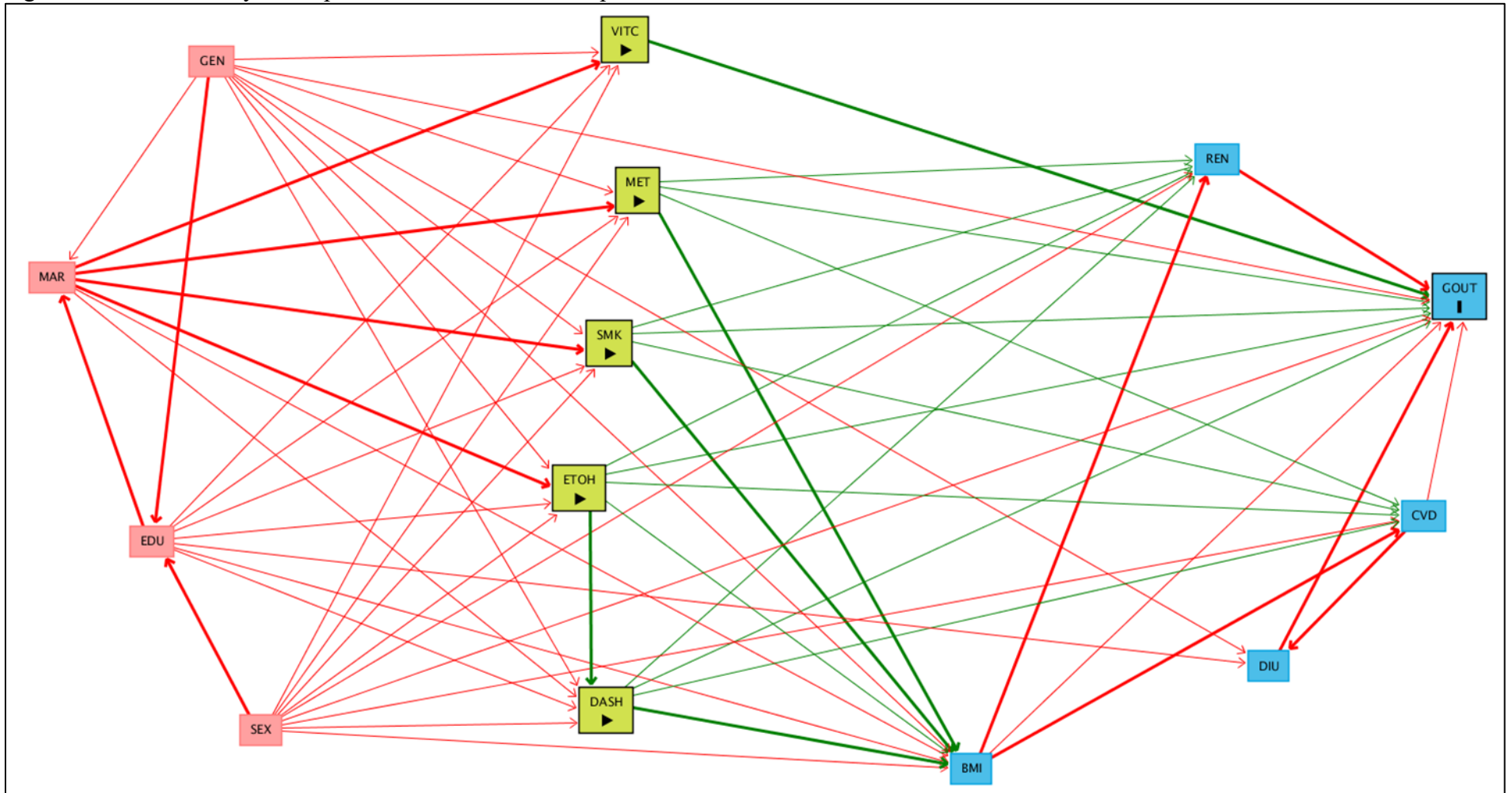
PUBLIC HEALTH

THESIS

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Appendix Part I

Figure S1. Directed Acyclic Graph of Covariate Relationships and Gout



Bold arrows indicate 'atomic direct effects' where no corresponding indirect pathway is theorized in the DAG

Red = probable confounders, green = behavioral exposures, blue = outcome or probable mediator

acronyms: GEN = generation in US, MAR = marital status, EDU = education level, VITC = vitamin C supplementation, MET = metabolic equivalent physical activity, SMK = smoking status, ETOH = alcoholic drinks per day, DASH = DASH diet score, REN = renal insufficiency (proxy measured by history of kidney stones), BMI = body mass index, DIU = diuretic use, CVD = history of cardiovascular disease.

Figure S2. Cumulative Incidence over Time (Age in years) of Gout by Sex

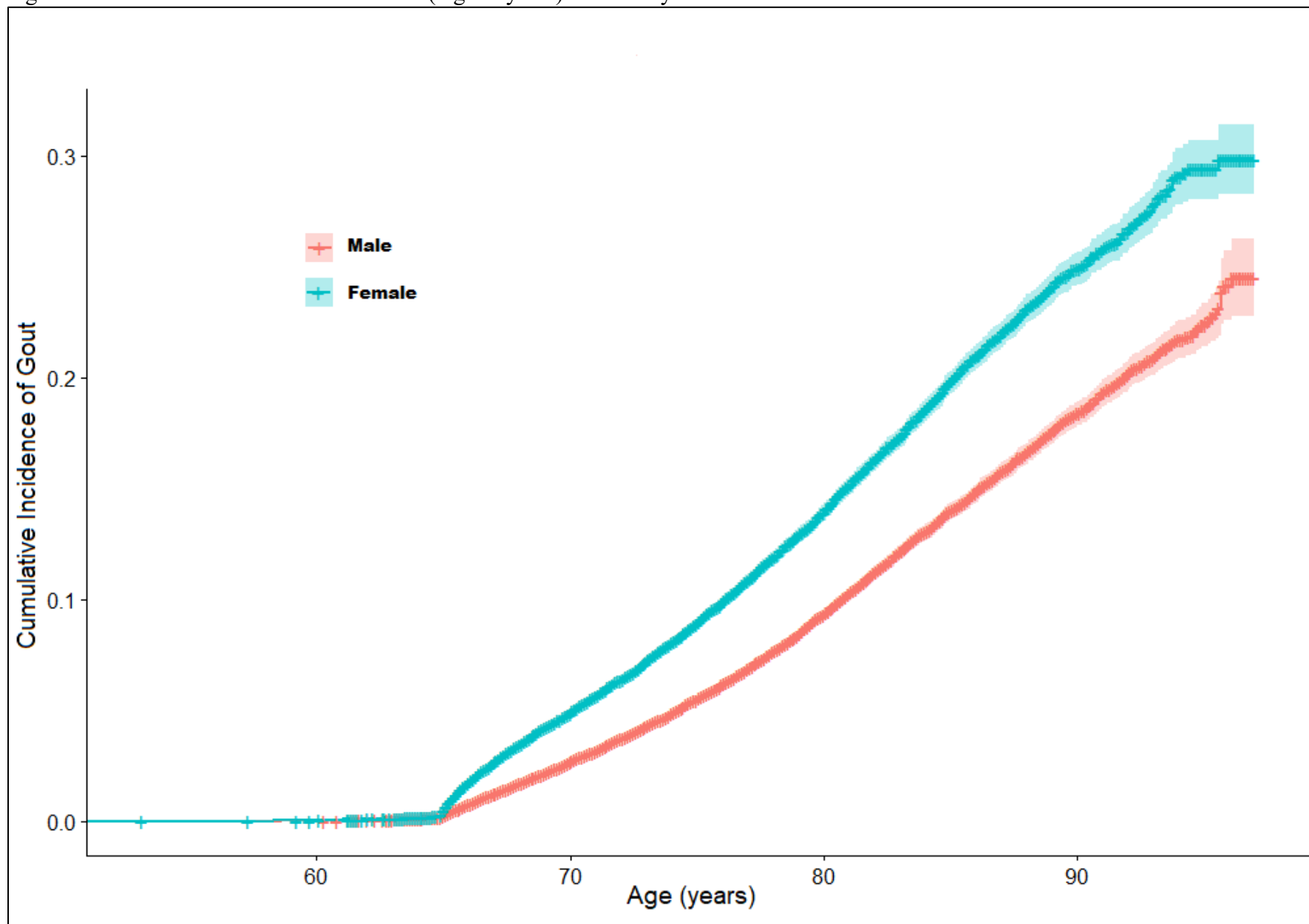


Figure S3a.

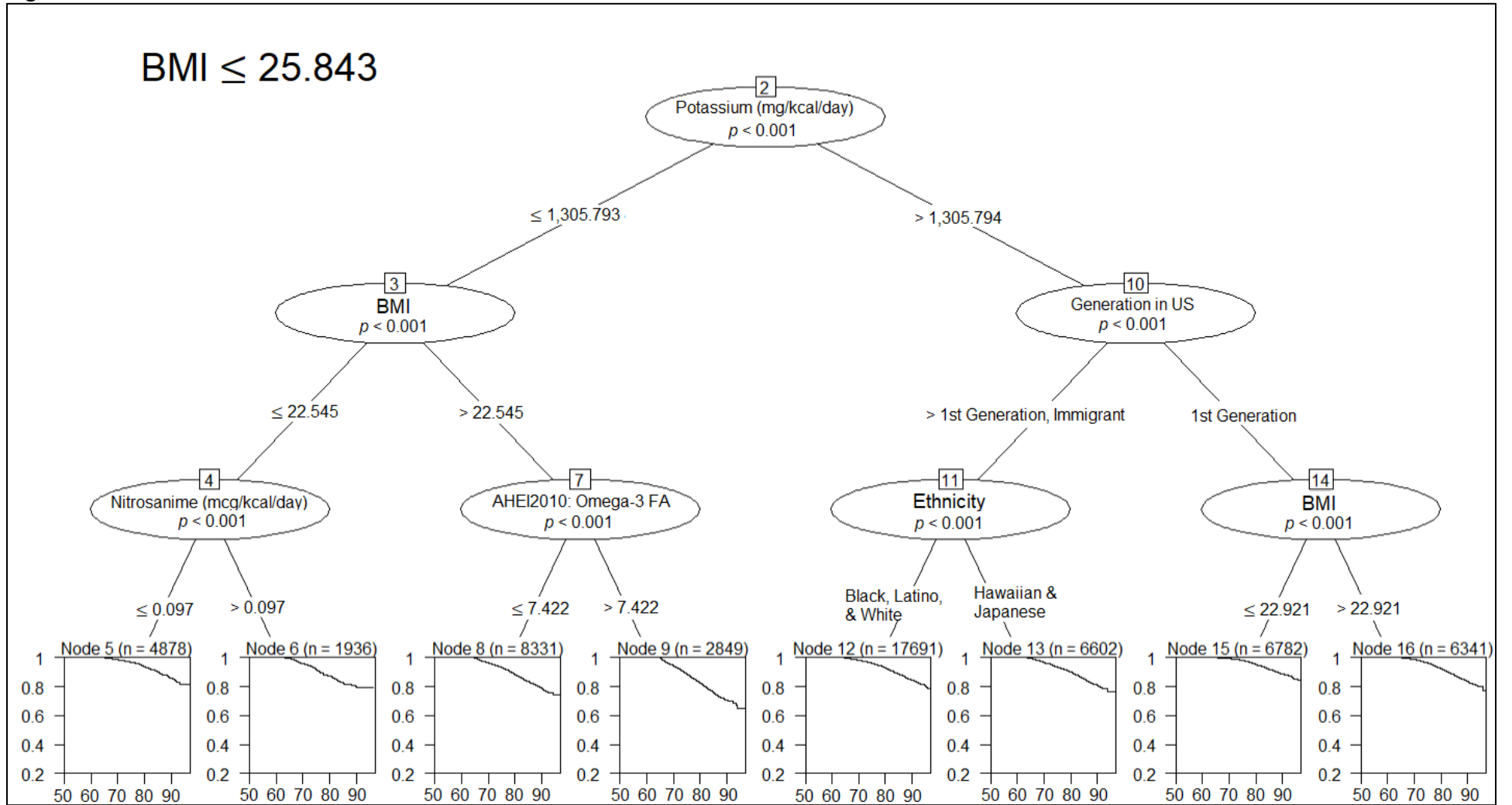


Figure S3b.

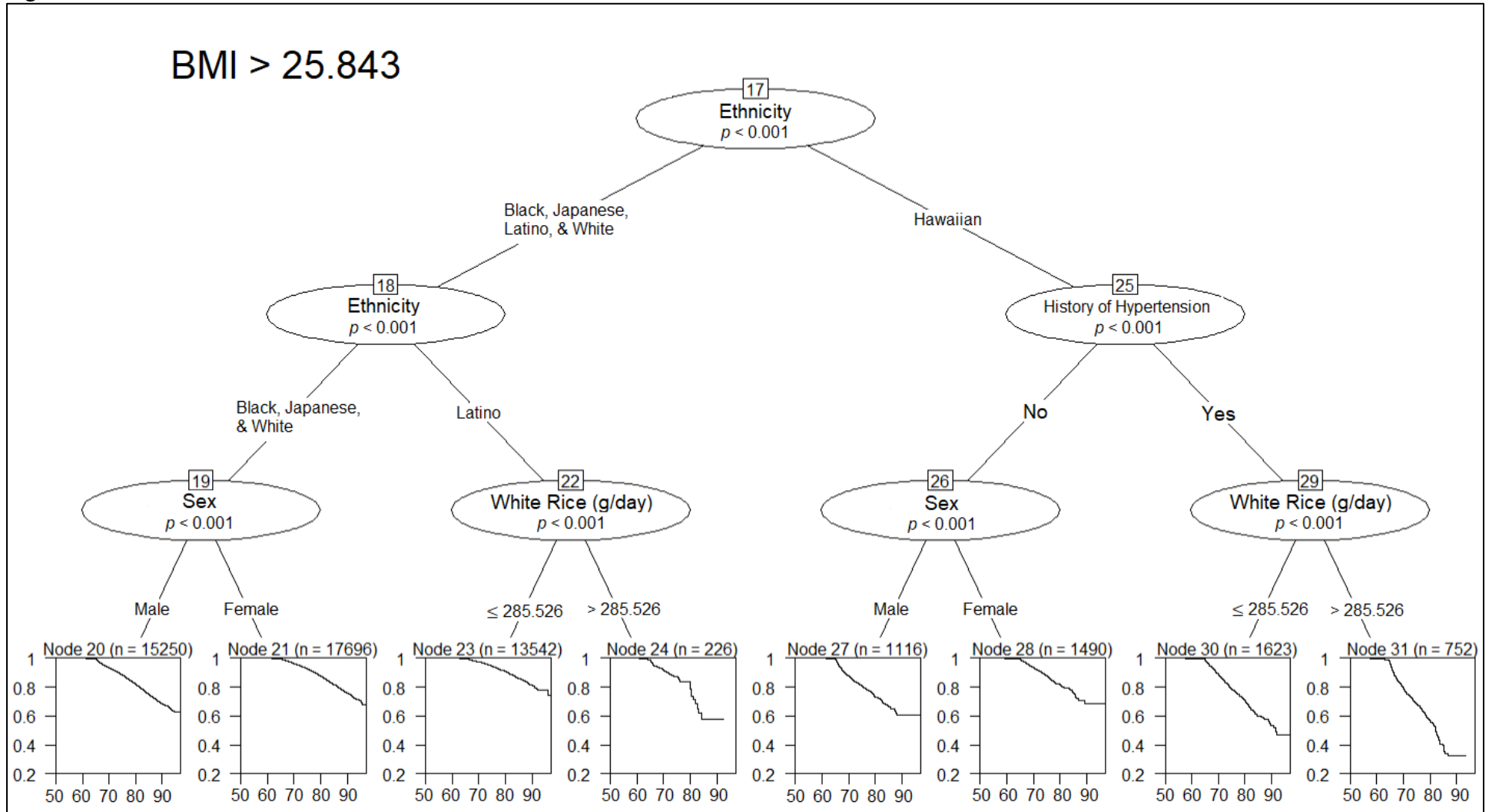


Figure S4a. Cumulative Incidence over Time (Age in years) of Gout, Black vs White by Sex

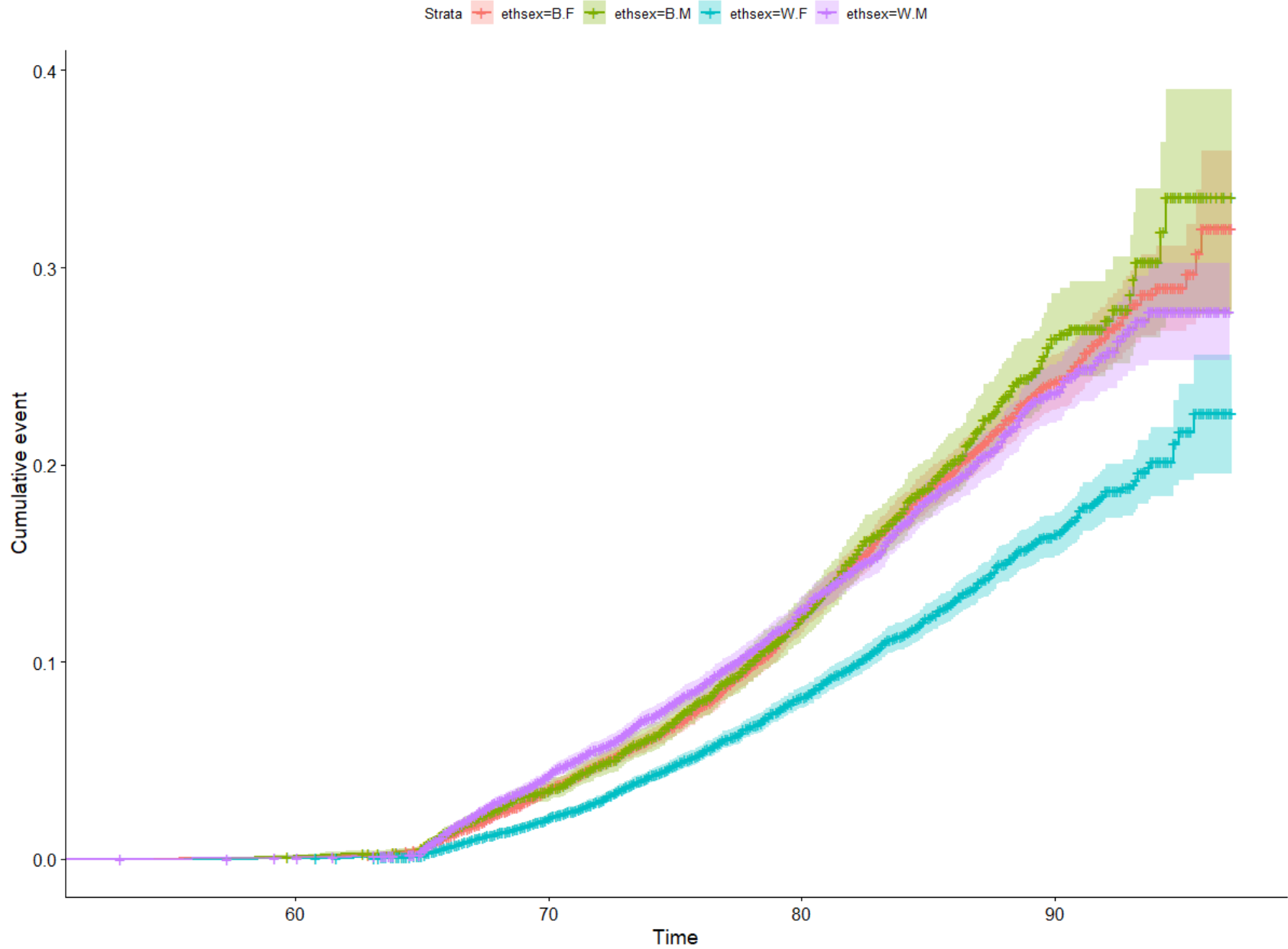


Figure S4b. Cumulative Incidence over Time (Age in years) of Gout, Hawaiian vs White by Sex

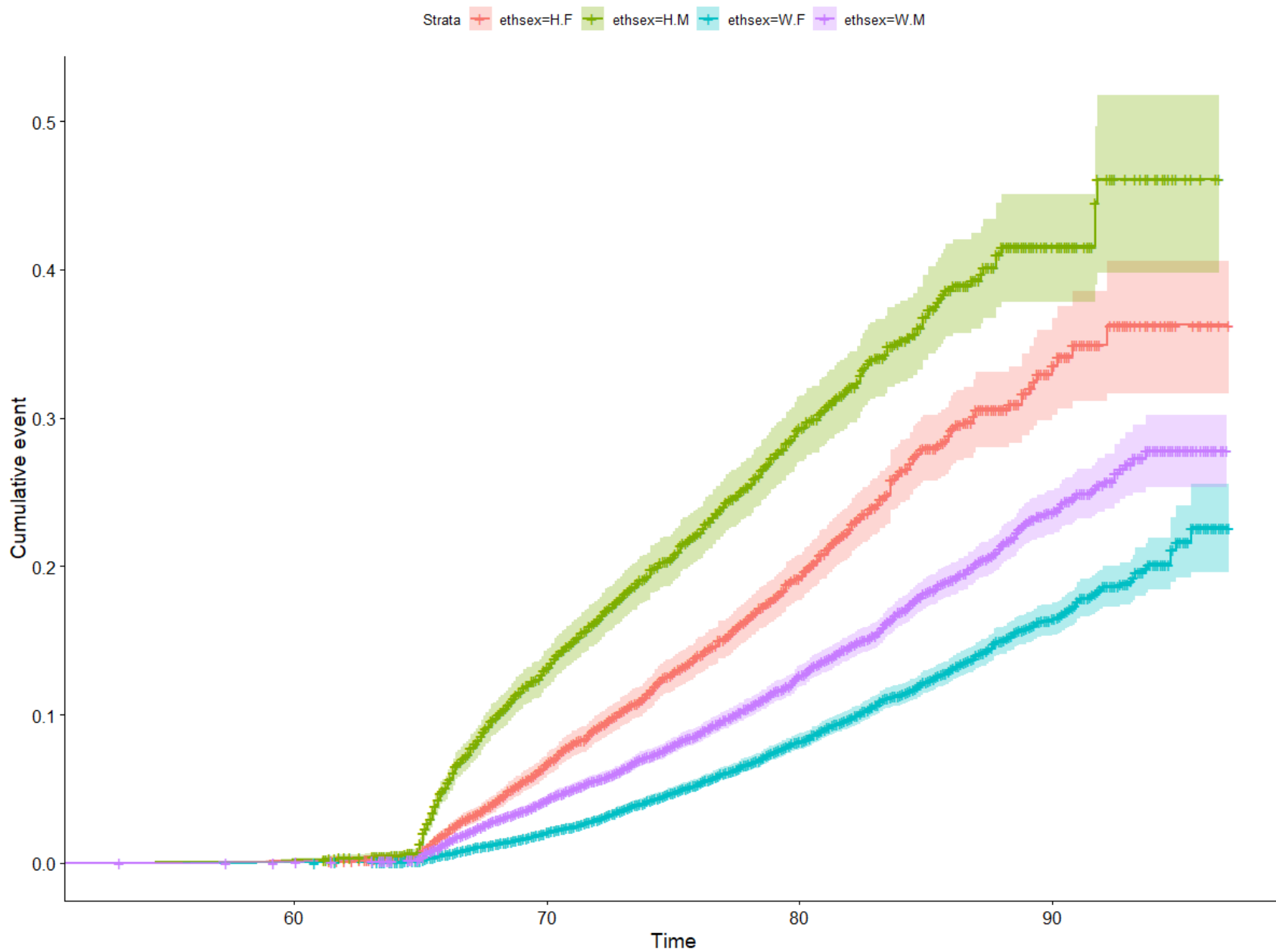


Figure S4c. Cumulative Incidence over Time (Age in years) of Gout, Japanese vs White by Sex

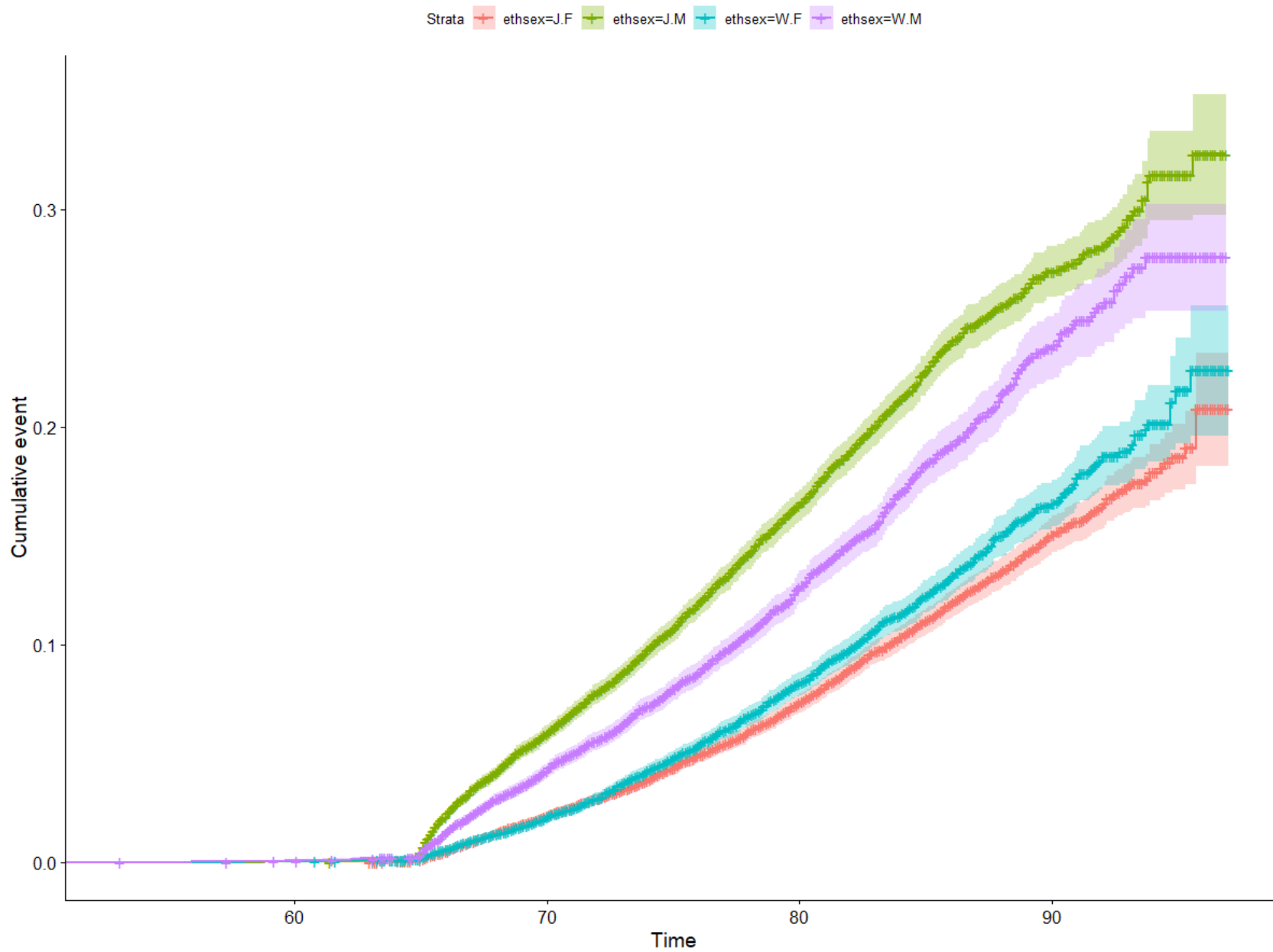


Figure S4d. Cumulative Incidence over Time (Age in years) of Gout, Latino vs White by Sex

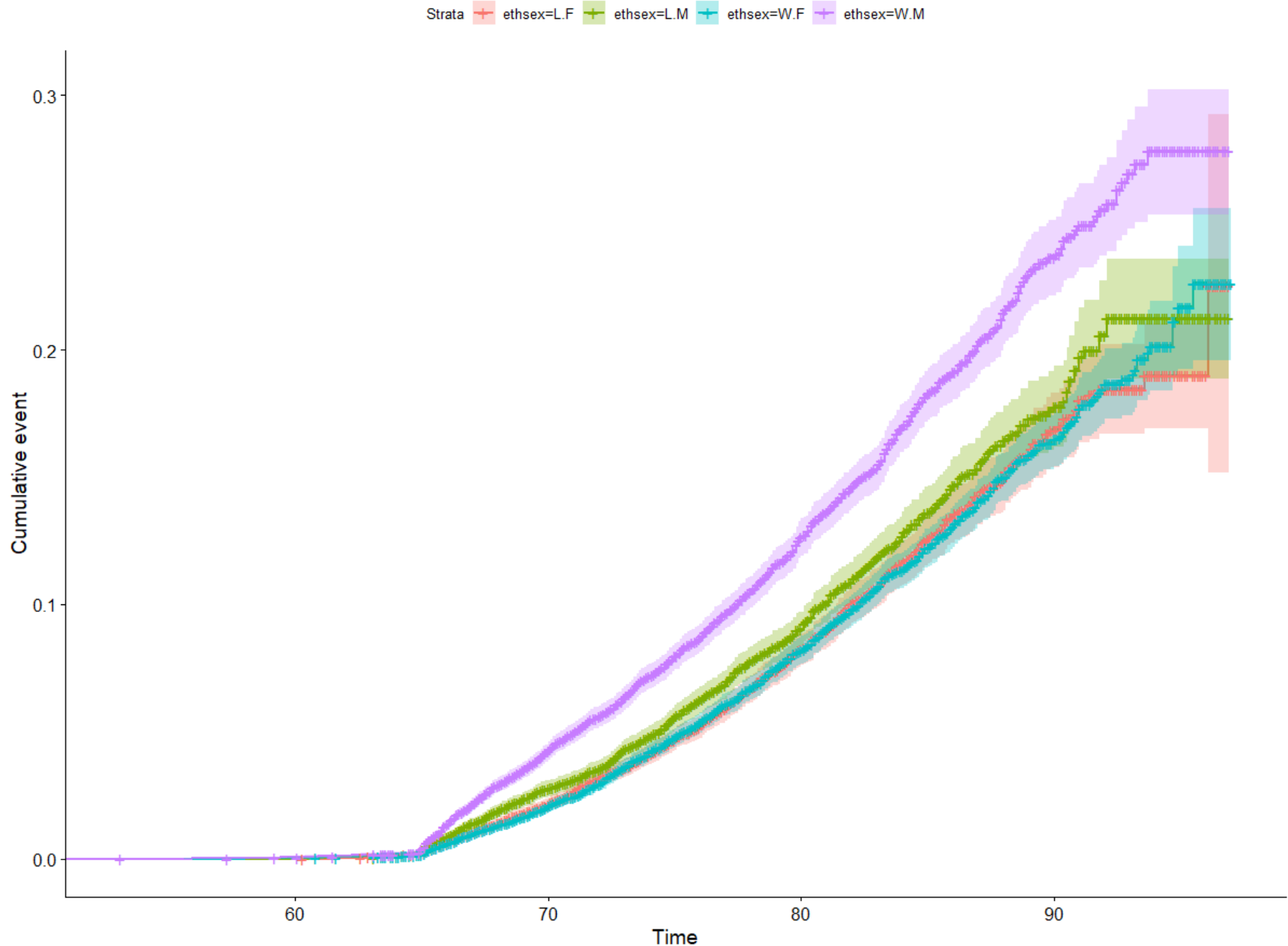


Table S1. Cumulative at Risk, Cases, and Censoring by 10-year intervals

	Age 60			Age 70			Age 80			Age 90		
	at Risk	Cases	Censored	at Risk	Cases	Censored	at Risk	Cases	Censored	at Risk	Cases	Censored
Black	15,645	14	1	13,154	525	2,034	6,542	1,409	7,790	1,270	1,974	12,451
Female	10,363	7	0	8,724	350	1,321	4396	933	5092	952	1307	8140
Male	5,282	7	1	4,420	175	713	2146	476	2698	318	667	4311
Hawaiian	7,589	11	0	5,232	631	1,788	1,771	1,168	4,677	185	1,341	6,083
Female	4,625	6	0	3,276	275	1117	1158	571	2913	116	684	3836
Male	2,964	5	0	1,956	356	671	613	597	1764	69	657	2247
Japanese	32,916	7	0	27,137	1,173	4,733	15,075	2,828	15,174	3,199	3,761	26,052
Female	18,768	5	0	15,821	376	2642	9171	1040	8657	2078	1501	15256
Male	14,148	2	0	11,316	797	2091	5904	1788	6517	1121	2260	10796
Latino	21,791	2	0	18,803	507	2,534	7,744	1,350	12,789	1,081	1,720	19,020
Female	11,710	1	0	10,133	240	1370	4164	685	6909	605	880	10238
Male	10,081	1	0	8,670	267	1164	3580	665	5880	476	840	8782
White	29,112	14	3	23,033	824	5,388	10,432	2,027	16,782	1,824	2,639	24,717
Female	16,195	5	0	13,024	314	2925	6054	895	9310	1186	1211	13840
Male	12,917	9	3	10,009	510	2463	4378	1132	7472	638	1428	10877

Table S2. Gout Incidence

		Average time spent in cohort, years (SD)	# of Events (gout claims)	Incidence Rate per 1,000 person-years (95% CI)
Black	All	17.45 (5.04)	2,019	7.39 (7.07, 7.72)
	Male	16.87 (5.22)	676	7.57 (7.01, 8.17)
	Female	17.74 (4.91)	1,343	7.30 (6.91, 7.70)
Hawaiian	All	17.78 (4.45)	1,347	9.97 (9.45, 10.52)
	Male	17.23 (4.75)	660	12.90 (11.94, 13.93)
	Female	18.13 (4.22)	687	8.18 (7.58, 8.82)
Japanese	All	18.23 (4.25)	3,836	6.39 (6.19, 6.60)
	Male	17.43 (4.78)	2,290	9.28 (8.91, 9.67)
	Female	18.83 (3.68)	1,546	4.37 (4.16, 4.60)
Latino	All	18.44 (4.01)	1,745	4.34 (4.14, 4.55)
	Male	18.08 (4.22)	854	4.68 (4.38, 5.01)
	Female	18.75 (3.79)	891	4.06 (3.80, 4.33)
White	All	18.21 (4.28)	2,692	5.07 (4.88, 5.27)
	Male	17.85 (4.53)	1,447	6.27 (5.95, 6.60)
	Female	18.50 (4.05)	1,245	4.15 (3.93, 4.39)
Total Sample	All	18.12 (4.36)	11,639	6.00 (5.89, 6.11)
	Male	17.62 (4.66)	5,927	7.41 (7.22, 7.60)
	Female	18.49 (4.09)	5,712	5.01 (4.88, 5.14)

Table S3. Minimum Sufficient Adjustment Sets by Primary Exposures

	Total Effect	Direct Effects
Smoking	EDU, GEN, MAR, SEX	1. BMI, CVD, DASH, DIU, ETOH, GEN, MET, REN, SEX, VITC 2. BMI, CVD, DASH, EDU, ETOH, GEN, MAR, MET, REN, SEX 3. BMI, CVD, DASH, EDU, ETOH, GEN, MET, REN, SEX, VITC
Vitamin C	1. BMI, CVD, DASH, DIU, ETOH, GEN, MET, SEX, SMK 2. BMI, DASH, EDU, ETOH, GEN, MET, SEX, SMK 3. EDU, GEN, MAR, SEX	1. BMI, CVD, DASH, DIU, ETOH, GEN, MET, SEX, SMK 2. BMI, DASH, EDU, ETOH, GEN, MET, SEX, SMK 3. EDU, GEN, MAR, SEX
METs	EDU, GEN, MAR, SEX	1. BMI, CVD, DASH, DIU, ETOH, GEN, REN, SEX, SMK, VITC 2. BMI, CVD, DASH, EDU, ETOH, GEN, MAR, REN, SEX, SMK 3. BMI, CVD, DASH, EDU, ETOH, GEN, REN, SEX, SMK, VITC
Alcoholic Drinks	EDU, GEN, MAR, SEX	1. BMI, CVD, DASH, DIU, GEN, MET, REN, SEX, SMK, VITC 2. BMI, CVD, DASH, EDU, GEN, MAR, MET, REN, SEX, SMK 3. BMI, CVD, DASH, EDU, GEN, MET, REN, SEX, SMK, VITC
DASH	EDU, ETOH, GEN, MAR, SEX	1. BMI, CVD, DIU, ETOH, GEN, MET, REN, SEX, SMK, VITC 2. BMI, CVD, EDU, ETOH, GEN, MAR, MET, REN, SEX, SMK 3. BMI, CVD, EDU, ETOH, GEN, MET, REN, SEX, SMK, VITC

Green indicates the final selected adjustment set

Table S4. Final Models 1, 2, and 3 after Checking Proportional Hazards Assumption

VAR	Mod	Formula	
Smok	BM1	age exit,as.numeric(GOUT)~Q1 smokstat+strata(Q1 CORR SEX,mar4,gen)+edul	
	BM2	age exit,as.numeric(GOUT)~Q1 smokstat+bmiq+hyp+stk+hat+strata(dash q,mar4,ndrinks1)+edul+gen+Q1 ac mets+kny+Q1 CORR SEX	
	BM3	age exit,as.numeric(GOUT)~Q1 CORR SEX+edul+gen+strata(dash q,mar4,ndrinks1)+stk+bmiq+hyp+hat+kny+diur+Q1 smokstat+C suppl+Q1 ac mets	
	HM1	age exit,as.numeric(GOUT)~Q1 smokstat+strata(Q1 CORR SEX,gen)+mar4+edul	
	HM2	age exit,as.numeric(GOUT)~Q1 smokstat+bmi+hyp+hat+stk+strata(dash q,Q1 CORR SEX,edu1)+ndrinks1+gen+mar4+Q1 ac mets+kny	
	HM3	age exit,as.numeric(GOUT)~edul+gen+mar4+bmi+hyp+hat+stk+kny+diur+strata(dash q,Q1 CORR SEX)+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	JM1	age exit,as.numeric(GOUT)~Q1 smokstat+strata(gen,Q1 CORR SEX,edu1,mar4)	
	JM2	age exit,as.numeric(GOUT)~Q1 smokstat+bmi+hyp+stk+strata(Q1 CORR SEX,gen,edu1,dash q,mar4,hat)+ndrinks1+Q1 ac mets+kny	
	JM3	age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,gen,edu1,dash q,mar4,hat)+ bmi+hyp+stk+kny+diur+ Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	LM1	age exit,as.numeric(GOUT)~Q1 smokstat+gen+Q1 CORR SEX+edul+mar4	
	LM2	age exit,as.numeric(GOUT)~Q1 smokstat+bmi+hyp+hat+stk+dash q+strata(edu1)+ndrinks1+gen+mar4+Q1 ac mets+kny+Q1 CORR SEX	
	LM3	age exit,as.numeric(GOUT)~strata(edu1,Q1 CORR SEX)+gen+mar4+bmiq+hyp+hat+stk+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+Q1 DP DASH TOTSCORE	
	WM1	age exit,as.numeric(GOUT)~Q1 smokstat+strata(Q1 CORR SEX,mar4,gen)+edul	
	WM2	age exit,as.numeric(GOUT)~Q1 smokstat+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+edul+ndrinks1+Q1 ac mets+kny	
	WM3	age exit,as.numeric(GOUT)~edul+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	VitCS	BM1	age exit,as.numeric(GOUT)~C suppl+Q1 CORR SEX+edul+gen+strata(mar4)
		BM2	age exit,as.numeric(GOUT)~C suppl+bmiq+strata(dash q)+edul+ndrinks1+gen+Q1 ac mets+Q1 smokstat+Q1 CORR SEX
		BM3	age exit,as.numeric(GOUT)~edul+gen+strata(mar4,dash q,Q1 smokstat,hat,ndrinks1,Q1 CORR SEX)+bmiq+hyp+stk+dia+kny+diur+C suppl+Q1 ac mets
HM1		age exit,as.numeric(GOUT)~C suppl+strata(Q1 CORR SEX,gen)+edul+mar4	
HM2		age exit,as.numeric(GOUT)~C suppl+bmi+edul+ndrinks1+Q1 ac mets+Q1 smokstat+strata(Q1 CORR SEX,dash q,gen)	
HM3		age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,dash q,gen)+edul+mar4+bmi+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
JM1		age exit,as.numeric(GOUT)~C suppl+strata(Q1 CORR SEX,gen,edu1,mar4)	
JM2		age exit,as.numeric(GOUT)~C suppl+ndrinks1+Q1 ac mets+Q1 smokstat+strata(bmiq,dash q,Q1 CORR SEX,gen,edu1)	
JM3		age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,gen,edu1,dash q,mar4,hat)+ bmi+hyp+stk+dia+kny+diur+ Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
LM1		age exit,as.numeric(GOUT)~C suppl+strata(Q1 CORR SEX)+gen+edul+mar4	
LM2		age exit,as.numeric(GOUT)~C suppl+bmi+dash q+ndrinks1+gen+Q1 ac mets+Q1 smokstat+strata(Q1 CORR SEX,edu1)	
LM3		age exit,as.numeric(GOUT)~C suppl+strata(Q1 CORR SEX,edu1)+gen+mar4+bmiq+hyp+hat+stk+dia+kny+diur+Q1 smokstat+Q1 ac mets+ndrinks1+Q1 DP DASH TOTSCORE	
WM1		age exit,as.numeric(GOUT)~C suppl+strata(Q1 CORR SEX,mar4,gen)+edul	
WM2		age exit,as.numeric(GOUT)~C suppl+strata(bmiq,dash q,Q1 CORR SEX,gen)+edul+ndrinks1+Q1 ac mets+Q1 smokstat	
WM3		age exit,as.numeric(GOUT)~edul+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
MET		BM1	age exit,as.numeric(GOUT)~Q1 ac mets+Q1 CORR SEX+edul+gen+strata(mar4)
		BM2	age exit,as.numeric(GOUT)~Q1 ac mets+bmiq+hyp+stk+edul+gen+strata(mar4,dash q,hat,ndrinks1,Q1 smokstat,Q1 CORR SEX)+kny
		BM3	age exit,as.numeric(GOUT)~edul+gen+bmiq+hyp+stk+dia+kny+diur+strata(dash q,mar4,Q1 smokstat,Q1 CORR SEX,ndrinks1,hat)+C suppl+Q1 ac mets
	HM1	age exit,as.numeric(GOUT)~Q1 ac mets+strata(Q1 CORR SEX,gen)+edul+mar4	
	HM2	age exit,as.numeric(GOUT)~Q1 ac mets+bmi+hyp+hat+stk+edul+ndrinks1+mar4+kny+Q1 smokstat+strata(Q1 CORR SEX,dash q,gen)	
	HM3	age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,dash q,gen)+edul+mar4+bmi+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	JM1	age exit,as.numeric(GOUT)~Q1 ac mets+strata(Q1 CORR SEX,gen,edu1,mar4)	
	JM2	age exit,as.numeric(GOUT)~Q1 ac mets+hyp+hat+stk+ ndrinks1+kny+Q1 smokstat+strata(Q1 CORR SEX,gen,edu1,dash q,bmiq,mar4)	
	JM3	age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,gen,edu1,dash q,hat,mar4)+bmi+hyp+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	LM1	age exit,as.numeric(GOUT)~Q1 ac mets+strata(Q1 CORR SEX,edu1)+gen+mar4	
	LM2	age exit,as.numeric(GOUT)~Q1 ac mets+bmi+hyp+hat+stk+dash q+strata(edu1)+ndrinks1+gen+mar4+kny+Q1 smokstat+Q1 CORR SEX	
	LM3	age exit,as.numeric(GOUT)~strata(edu1,Q1 CORR SEX)+gen+mar4+bmiq+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+Q1 DP DASH TOTSCORE	
	WM1	age exit,as.numeric(GOUT)~Q1 ac mets+strata(Q1 CORR SEX,gen,mar4)+edul	
	WM2	age exit,as.numeric(GOUT)~Q1 ac mets+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+ ndrinks1+kny+Q1 smokstat	
	WM3	age exit,as.numeric(GOUT)~edul+strata(bmiq,mar4,dash q,Q1 CORR SEX,gen)+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
	EtOH	BM1	age exit,as.numeric(GOUT)~ndrinks1+strata(mar4,Q1 CORR SEX,gen)+edul
		BM2	age exit,as.numeric(GOUT)~ndrinks1+ bmiq+hyp+stk+edul+gen+strata(dash q,mar4,hat,Q1 smokstat)+Q1 ac mets+kny+Q1 CORR SEX
		BM3	age exit,as.numeric(GOUT)~Q1 CORR SEX+edul+gen+strata(mar4,Q1 smokstat,dash q,hat)+bmiq+hyp+stk+dia+kny+diur+C suppl+Q1 ac mets+ndrinks1
HM1		age exit,as.numeric(GOUT)~ndrinks1+mar4+strata(Q1 CORR SEX,gen)+edul	
HM2		age exit,as.numeric(GOUT)~ndrinks1+bmi+hyp+hat+stk+edul+Q1 smokstat+mar4+Q1 ac mets+kny+strata(Q1 CORR SEX,dash q,gen)	
HM3		age exit,as.numeric(GOUT)~strata(Q1 CORR SEX,dash q,gen)+edul+mar4+bmi+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1	
JM1		age exit,as.numeric(GOUT)~ndrinks1+strata(gen,Q1 CORR SEX,edu1,mar4)	
JM2		age exit,as.numeric(GOUT)~ndrinks1+hyp+hat+stk+strata(gen,Q1 CORR SEX,edu1,dash q,bmiq,mar4)+Q1 smokstat+Q1 ac mets+kny	

	JM3	age	exit,as.numeric(GOUT)~strata(Q1 CORR SEX,gen,edu1,dash q,mar4,hat)+bmi+hyp+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1
	LM1	age	exit,as.numeric(GOUT)~ndrinks1+gen+Q1 CORR SEX+edu1+mar4
	LM2	age	exit,as.numeric(GOUT)~ndrinks1+bmi+hyp+hat+stk+dash q+strata(edu1)+Q1 smokstat+gen+mar4+Q1 ac mets+kny+Q1 CORR SEX
	LM3	age	exit,as.numeric(GOUT)~strata(Q1 CORR SEX,edu1)+gen+mar4+bmiq+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+Q1 DP DASH TOTSCORE
	WM1	age	exit,as.numeric(GOUT)~ndrinks1+edu1+strata(mar4,Q1 CORR SEX,gen)
	WM2	age	exit,as.numeric(GOUT)~ndrinks1+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+edu1+Q1 smokstat+Q1 ac mets+kny
	WM3	age	exit,as.numeric(GOUT)~edu1+strata(bmiq,dash q,mar4,Q1 CORR SEX,gen)+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1
DASH	BM1	age	exit,as.numeric(GOUT)~dash t+strata(Q1 CORR SEX,mar4,ndrinks1,gen,edu1)
	BM2	age	exit,as.numeric(GOUT)~dash t+hyp+stk+edu1+gen+strata(mar4,Q1 smokstat,bmiq,ndrinks1,hat,Q1 CORR SEX)+ Q1 ac mets+kny
	BM3	age	exit,as.numeric(GOUT)~edu1+gen+strata(mar4,Q1 smokstat,hat,ndrinks1,Q1 CORR SEX)+bmiq+hyp+dia+stk+kny+diur+C suppl+Q1 ac mets+dash t
	HM1	age	exit,as.numeric(GOUT)~dash t+strata(Q1 CORR SEX,gen)+mar4+ndrinks1+edu1
	HM2	age	exit,as.numeric(GOUT)~dash t+bmi+hyp+hat+stk+Q1 smokstat+ndrinks1+mar4+Q1 ac mets+kny+strata(Q1 CORR SEX,gen,edu1)
	HM3	age	exit,as.numeric(GOUT)~strata(Q1 CORR SEX,gen)+edu1+mar4+bmi+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+dash t
	JM1	age	exit,as.numeric(GOUT)~dash t+strata(gen,Q1 CORR SEX,edu1,mar4,ndrinks1)
	JM2	age	exit,as.numeric(GOUT)~dash t+hyp+stk+Q1 smokstat+metq+kny+ strata(Q1 CORR SEX,gen,edu1,bmiq,mar4,hat,ndrinks1)
	JM3	age	exit,as.numeric(GOUT)~strata(Q1 CORR SEX,edu1,gen,hat,mar4,bmiq)+hyp+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+dash t
	LM1	age	exit,as.numeric(GOUT)~dash t+gen+Q1 CORR SEX+edu1+mar4+ndrinks1
	LM2	age	exit,as.numeric(GOUT)~dash t+bmi+hyp+hat+stk+Q1 smokstat+strata(edu1)+ndrinks1+gen+mar4+Q1 ac mets+kny+Q1 CORR SEX
	LM3	age	exit,as.numeric(GOUT)~strata(Q1 CORR SEX,edu1)+gen+mar4+bmiq+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+dash t
	WM1	age	exit,as.numeric(GOUT)~dash t+strata(Q1 CORR SEX,mar4,gen,ndrinks1)+edu1
	WM2	age	exit,as.numeric(GOUT)~dash t+strata(bmiq,mar4,gen,Q1 CORR SEX)+hyp+hat+stk+Q1 smokstat+edu1+ndrinks1+Q1 ac mets+kny
	WM3	age	exit,as.numeric(GOUT)~edu1+strata(bmiq,mar4,gen,Q1 CORR SEX)+hyp+hat+stk+dia+kny+diur+Q1 smokstat+C suppl+Q1 ac mets+ndrinks1+dash t

Table S5. Summary of Dietary Variables included in the Survival Tree Analyses

Variable Code	Description
Q1_dgm1	Food 1 Cream Soup or Chowder (g/day)
Q1_dgm2	Food 2 Dried Bean or Pea Soup (g/day)
Q1_dgm3	Food 3 Tomato or Vegetable Soup (g/day)
Q1_dgm4	Food 4 Miso Soup (g/day)
Q1_dgm5	Food 5 Broth w/ Noodles or Rice (g/day)
Q1_dgm6	Food 6 Mexican Meat Soup or Stew (g/day)
Q1_dgm7	Food 7 Ramen or Saimin (g/day)
Q1_dgm8	Food 8 Jook (g/day)
Q1_dgm9	Food 9 Chow Mein/Chow Fun/Yakisoba (g/day)
Q1_dgm10	Food 10 Spaghetti/Ravioli/Lasagna (g/day)
Q1_dgm11	Food 11 Pasta with Cheese (g/day)
Q1_dgm12	Food 12 Macaroni or Potato Salad (g/day)
Q1_dgm13	Food 13 Pasta or Somen Salad (g/day)
Q1_dgm14	Food 14 Noodle Casseroles (g/day)
Q1_dgm15	Food 15 Pasta with Cream Sauce (g/day)
Q1_dgm16	Food 16 Arroz Con Pollo (g/day)
Q1_dgm17	Food 17 Stew/Curry-with beef/lamb (g/day)
Q1_dgm18	Food 18 Stew/Curry-with chicken (g/day)
Q1_dgm19	Food 19 Stir-Fried Beef/Pork/Vegs (g/day)
Q1_dgm20	Food 20 Stir-Fried Chicken/Vegs (g/day)
Q1_dgm21	Food 21 Stir-Fried Shrimp/Fish/Vegs (g/day)
Q1_dgm22	Food 22 Stir-Fried Vegs (no meat/day) (g/day)
Q1_dgm23	Food 23 Pork and Greens or Laukaus (g/day)
Q1_dgm24	Food 24 Chili (g/day)
Q1_dgm25	Food 25 Hamburgers - Serving Size A (g/day)
Q1_dgm26	Food 26 Cheeseburgers - Serving Size A (g/day)
Q1_dgm27	Food 27 Meat Loaf/Meatballs/Patties (g/day)
Q1_dgm28	Food 28 Pizza (g/day)
Q1_dgm29	Food 29 Beef Steak/Roast (regular) (g/day)
Q1_dgm30	Food 30 Shortribs (regular) (g/day)
Q1_dgm31	Food 31 Corned Beef (regular) (g/day)
Q1_dgm32	Food 32 Corned Beef Hash (g/day)
Q1_dgm33	Food 33 Pork Chops/Roasts (regular) (g/day)
Q1_dgm34	Food 34 Ham (regular) (g/day)
Q1_dgm35	Food 35 Ham Hocks or Pigs Feet (g/day)
Q1_dgm36	Food 36 Spareribs (g/day)
Q1_dgm37	Food 37 Liver (g/day)
Q1_dgm38	Food 38 Chicken Wings (with skin) (g/day)
Q1_dgm39	Food 39 Fried Chicken (with skin) (g/day)
Q1_dgm40	Food 40 Roasted/Baked Chicken (w skin) (g/day)
Q1_dgm41	Food 41 Turkey (with skin) (g/day)
Q1_dgm42	Food 42 Fried Shrimp/Shellfish (g/day)
Q1_dgm43	Food 43 Cooked/Canned/Raw Shellfish (g/day)
Q1_dgm44	Food 44 Fried Fish (g/day)
Q1_dgm45	Food 45 Baked/Broiled/Raw Fish (g/day)
Q1_dgm46	Food 46 Canned Tunafish (g/day)
Q1_dgm47	Food 47 Other Canned Fish (g/day)
Q1_dgm48	Food 48 Salted and Dried Fish (g/day)
Q1_dgm49	Food 49 Bacon (g/day)
Q1_dgm50	Food 50 Regular Hot Dogs (g/day)
Q1_dgm51	Food 51 Chicken/Turkey Hot Dogs (g/day)
Q1_dgm52	Food 52 Spam/Bologna/Pastrami (g/day)
Q1_dgm53	Food 53 Sausage (g/day)
Q1_dgm54	Food 54 Tacos/Tostadas (beef/pork) (g/day)
Q1_dgm55	Food 55 Tacos/Tostadas (chicken) (g/day)
Q1_dgm56	Food 56 Meat Burritos (g/day)
Q1_dgm57	Food 57 Vegetable/Bean Burritos (g/day)
Q1_dgm58	Food 58 Enchiladas with Chicken (g/day)
Q1_dgm59	Food 59 Enchiladas with Beef (g/day)
Q1_dgm60	Food 60 Enchiladas with Cheese (g/day)
Q1_dgm61	Food 61 Tamales (g/day)
Q1_dgm62	Food 62 Chili Rellenos (g/day)
Q1_dgm63	Food 63 White Rice (g/day)
Q1_dgm64	Food 64 Sushi or Barazushi (g/day)
Q1_dgm65	Food 65 Brown or Wild Rice (g/day)
Q1_dgm66	Food 66 Mexican or Spanish Rice (g/day)
Q1_dgm67	Food 67 Fried Rice (g/day)
Q1_dgm68	Food 68 French-Fried Potatoes (g/day)
Q1_dgm69	Food 69 Mashed/Scalloped Potatoes (g/day)
Q1_dgm70	Food 70 Baked/Boiled White Potatoes (g/day)
Q1_dgm71	Food 71 Yellow-Orange Sweet Potatoes (g/day)

Q1_dgm72	Food 72 White/Purple Sweet Potatoes (g/day)
Q1_dgm73	Food 73 Taro (g/day)
Q1_dgm74	Food 74 Poi (g/day)
Q1_dgm75	Food 75 Light Green Lettuce (g/day)
Q1_dgm76	Food 76 Dark Green Lettuce (g/day)
Q1_dgm77	Food 77 Tomatoes (g/day)
Q1_dgm78	Food 78 Coleslaw (g/day)
Q1_dgm79	Food 79 Regular Salad Dressings (g/day)
Q1_dgm80	Food 80 Low-Calorie Dressings (g/day)
Q1_dgm81	Food 81 Eggs, Cooked or Raw (g/day)
Q1_dgm82	Food 82 Egg Substitute (g/day)
Q1_dgm83	Food 83 Tofu (g/day)
Q1_dgm84	Food 84 Vegetarian Meatloaf/Patties (g/day)
Q1_dgm85	Food 85 Broccoli (g/day)
Q1_dgm86	Food 86 Cabbage (g/day)
Q1_dgm87	Food 87 Dark Leafy Greens (g/day)
Q1_dgm88	Food 88 Green Beans or Peas (g/day)
Q1_dgm89	Food 89 Other Green Vegetables (g/day)
Q1_dgm90	Food 90 Cauliflower (g/day)
Q1_dgm91	Food 91 Carrots (g/day)
Q1_dgm92	Food 92 Corn (g/day)
Q1_dgm93	Food 93 Yellow-Orange Squash (g/day)
Q1_dgm94	Food 94 Other Vegetables (g/day)
Q1_dgm95	Food 95 Refried Beans (g/day)
Q1_dgm96	Food 96 Baked Beans/Pork and Beans (g/day)
Q1_dgm97	Food 97 Boiled Dried Beans or Peas (g/day)
Q1_dgm98	Food 98 Oranges (g/day)
Q1_dgm99	Food 99 Tangerines/Mandarin Oranges (g/day)
Q1_dgm100	Food 100 Grapefruit or Pomelo (g/day)
Q1_dgm101	Food 101 Papaya (g/day)
Q1_dgm102	Food 102 Pineapple (g/day)
Q1_dgm103	Food 103 Peaches (g/day)
Q1_dgm104	Food 104 Apricots (g/day)
Q1_dgm105	Food 105 Pears (g/day)
Q1_dgm106	Food 106 Apples and Applesauce (g/day)
Q1_dgm107	Food 107 Bananas (g/day)
Q1_dgm108	Food 108 Cantaloupe (g/day)
Q1_dgm109	Food 109 Watermelon (g/day)
Q1_dgm110	Food 110 Mangos (g/day)
Q1_dgm111	Food 111 Avocodos and Guacamole (g/day)
Q1_dgm112	Food 112 Any Other Fruit (g/day)
Q1_dgm113	Food 113 Orange/Grapefruit Juice (g/day)
Q1_dgm114	Food 114 Tomato or V-8 Juice (g/day)
Q1_dgm115	Food 115 Other Fruit Juices/Drinks (g/day)
Q1_dgm116	Food 116 White Bread (g/day)
Q1_dgm117	Food 117 Whole Wheat or Rye Bread (g/day)
Q1_dgm118	Food 118 Other Bread (g/day)
Q1_dgm119	Food 119 Rolls/Buns/Biscuits (g/day)
Q1_dgm120	Food 120 Non-Latinos: Corn tortillas/bread (g/day)
Q1_dgm121	Food 121 Muffins/Banana Bread (g/day)
Q1_dgm122	Food 122 Sweet Rolls/Coffee Cake (g/day)
Q1_dgm123	Food 123 Pancakes/French Toast (g/day)
Q1_dgm126	Food 126 Peanut Butter Added-Bread (g/day)
Q1_dgm127	Food 127 Jam/Jelly Added to Bread (g/day)
Q1_dgm128	Food 128 Mayonnaise in Sandwiches (g/day)
Q1_dgm129	Food 129 Highly Fortified Cereals (g/day)
Q1_dgm130	Food 130 Bran or High Fiber Cereals (g/day)
Q1_dgm131	Food 131 Other Cold Cereals (g/day)
Q1_dgm132	Food 132 Cooked Cereals (g/day)
Q1_dgm133	Food 133 Whole Milk (g/day)
Q1_dgm134	Food 134 Lowfat Milk (1% or 2%/day) (g/day)
Q1_dgm135	Food 135 Nonfat Milk/Buttermilk (g/day)
Q1_dgm136	Food 136 Yogurt (g/day)
Q1_dgm137	Food 137 Chocolate Milk/Cocoa (g/day)
Q1_dgm138	Food 138 Milkshakes or Malts (g/day)
Q1_dgm139	Food 139 Cottage Cheese (g/day)
Q1_dgm140	Food 140 Lowfat Cheese (g/day)
Q1_dgm141	Food 141 Other Cheese (g/day)
Q1_dgm142	Food 142 Ice Cream (g/day)
Q1_dgm143	Food 143 Ice Milk/Frozen Yogurt (g/day)
Q1_dgm144	Food 144 Cookies/Fruit Bars (g/day)
Q1_dgm145	Food 145 Cake (g/day)
Q1_dgm146	Food 146 Apple/Other Fruit Pies (g/day)
Q1_dgm147	Food 147 Pumpkin/Sweet Potato Pie (g/day)

Q1_dgm148	Food 148 Cream/Custard Pies (g/day)
Q1_dgm149	Food 149 Puddings or Custards (g/day)
Q1_dgm150	Food 150 Chocolate Candy (g/day)
Q1_dgm151	Food 151 Dim Sum/Bao/Manapua (g/day)
Q1_dgm152	Food 152 Other Dim Sum (g/day)
Q1_dgm153	Food 153 Crackers and Pretzels (g/day)
Q1_dgm154	Food 154 Peanuts and Other Nuts (g/day)
Q1_dgm155	Food 155 Chips-Potato/Corn/Tortilla (g/day)
Q1_dgm156	Food 156 Popcorn (g/day)
Q1_dgm157	Food 157 Regular or Draft Beer (g/day)
Q1_dgm158	Food 158 Light Beer (g/day)
Q1_dgm159	Food 159 White or Pink Wine (g/day)
Q1_dgm160	Food 160 Red Wine (g/day)
Q1_dgm161	Food 161 Hard Liquor (g/day)
Q1_dgm162	Food 162 Regular Sodas (g/day)
Q1_dgm163	Food 163 Diet Sodas (g/day)
Q1_dgm195	Food 195 Stick Margarine on bread (g/day)
Q1_dgm196	Food 196 Regular Butter on bread (g/day)
Q1_dgm197	Food 197 Soybean/Corn Oil in cooking (g/day)
Q1_dgm220	Food 220 Latinos: Corn Tortilla/bread (g/day)
Q1_dgm225	Food 225 Hamburgers - Serving Size B (g/day)
Q1_dgm226	Food 226 Cheeseburgers - Serving Size B (g/day)
Q1_dgm229	Food 229 Beef Steak/Roast (lean only) (g/day)
Q1_dgm230	Food 230 Shortribs (lean only) (g/day)
Q1_dgm231	Food 231 Corned Beef (lean only) (g/day)
Q1_dgm233	Food 233 Pork Chops/Roast (lean only) (g/day)
Q1_dgm234	Food 234 Ham (lean only) (g/day)
Q1_dgm238	Food 238 Chicken Wings (No skin) (g/day)
Q1_dgm239	Food 239 Fried Chicken (No skin) (g/day)
Q1_dgm240	Food 240 Roasted/Baked Chicken (No skin) (g/day)
Q1_dgm241	Food 241 Turkey (No skin) (g/day)
Q1_dgm264	Food 264 Sugar for Cappuccino (g/day)
Q1_dgm265	Food 265 Cream for Regular Coffee (g/day)
Q1_dgm266	Food 266 Cream for Decaf Coffee (g/day)
Q1_dgm267	Food 267 Cream for Black Tea (g/day)
Q1_dgm295	Food 295 Regular Tub Margarine on bread (g/day)
Q1_dgm296	Food 296 Whipped Butter on bread (g/day)
Q1_dgm297	Food 297 Olive Oil in cooking (g/day)
Q1_dgm325	Food 325 Hamburgers - Serving Size C (g/day)
Q1_dgm326	Food 326 Cheeseburgers - Serving Size C (g/day)
Q1_dgm364	Food 364 Sugar Substitute for Cappuccino (g/day)
Q1_dgm365	Food 365 Milk for Regular Coffee (g/day)
Q1_dgm366	Food 366 Milk for Decaf Coffee (g/day)
Q1_dgm367	Food 367 Milk for Black Tea (g/day)
Q1_dgm395	Food 395 Diet Margarine on bread (g/day)
Q1_dgm397	Food 397 Canola Oil in cooking (g/day)
Q1_dgm465	Food 465 Non-Dairy Cream- Regular Coffee (g/day)
Q1_dgm466	Food 466 Non-Dairy Cream-Decaf Cof (g/day)
Q1_dgm467	Food 467 Non-Dairy Cream-Black Tea (g/day)
Q1_dgm495	Food 495 Stick Margarine in cooking (g/day)
Q1_dgm496	Food 496 Regular Butter in cooking (g/day)
Q1_dgm497	Food 497 Other Oils in cooking (g/day)
Q1_dgm565	Food 565 Sugar for Regular Coffee (g/day)
Q1_dgm566	Food 566 Sugar for Decaf Coffee (g/day)
Q1_dgm567	Food 567 Sugar for Black Tea (g/day)
Q1_dgm595	Food 595 Regular Tub Margarine-cooking (g/day)
Q1_dgm596	Food 596 Whipped Butter in cooking (g/day)
Q1_dgm665	Food 665 Sugar Substitute - Regular Coffee (g/day)
Q1_dgm666	Food 666 Sugar Substitute - Decaf Coffee (g/day)
Q1_dgm667	Food 667 Sugar Substitute - Black Tea (g/day)
Q1_dgm695	Food 695 Diet Margarine in cooking (g/day)
Q1_dgm165	Food 165 Regular Coffee (g/day)
Q1_dgm166	Food 166 Decaffeinated Coffee (g/day)
Q1_dgm167	Food 167 Black Tea (g/day)
Q1_dgm168	Food 168 Green/Herbal Tea (g/day)
Q1_dgm169	Food 169 Fortified Diet Beverages (g/day)
Q1_dgm170	Food 170 Western Pickles or Relish (g/day)
Q1_dgm171	Food 171 Olives (g/day)
Q1_dgm172	Food 172 Salsa/Hot Chili Peppers (g/day)
Q1_dgm173	Food 173 Garlic (g/day)
Q1_dgm174	Food 174 Onions (g/day)
Q1_dgm175	Food 175 Oriental Salted Vegetables (g/day)
Q1_dgm176	Food 176 Seaweed (fresh or dried) (g/day)
Q1_dgm177	Food 177 Gravy on meat/potato/rice (g/day)

Q1_dgm178	Food 178 Salt (g/day)
Q1_dgm179	Food 179 Shoyu/Teriyaki Sauce (g/day)
Q1_dgm180	Food 180 Mustard (g/day)
Q1_dgm181	Food 181 Catsup (g/day)
Q1_dgm182	Food 182 Sour Cream (g/day)
Q1_dgm188	Food 187 Lard/Bacon Fat in cooking (g/day)
Q1_dgm189	Food 188 Vegetable Shortening in cooking (g/day)
Q1_dgm192	Food 192 Vegetable spray used in cooking (g/day)
Q1_dgm164	Food 164 Cappuccino (g/day)
Q1_p_ethano	Percent of calories from ethanol
Q1_p_monofat	Percent of calories from monounsaturated fat
Q1_p_polyfat	Percent of calories from polyunsaturated fat
Q1_p_fatdary	Percent of calories from fat from dairy products
Q1_p_fatfish	Percent of calories from fat from fish
Q1_p_fatmt	Percent of calories from fat from meat
Q1_p_fatplt	Percent of calories from fat from poultry
Q1_p_sfatdary	Percent of calories from saturated fat from dairy products
Q1_p_sfatfish	Percent of calories from saturated fat from fish
Q1_p_sfatmt	Percent of calories from saturated fat from meat
Q1_p_sfatplt	Percent of calories from saturated fat from poultry
Q1_d_chol	DENSITY for Cholesterol (mg/kcal/day)
Q1_d_star	DENSITY for Starch (g/kcal/day)
Q1_d_calc	DENSITY for Calcium (mg/kcal/day)
Q1_d_phos	DENSITY for Phosphorus (mg/kcal/day)
Q1_d_magn	DENSITY for Magnesium (mg/kcal/day)
Q1_d_iron	DENSITY for Iron (mg/kcal/day)
Q1_d_sodi	DENSITY for Sodium (mg/kcal/day)
Q1_d_pota	DENSITY for Potassium (mg/kcal/day)
Q1_d_zinc	DENSITY for Zinc (mg/kcal/day)
Q1_d_copp	DENSITY for Copper (mg/kcal/day)
Q1_d_maga	DENSITY for Maganese (mg/kcal/day)
Q1_d_vitai	DENSITY for Vitamin A (IU/kcal/day)
Q1_d_thia	DENSITY for Thiamin (mg/kcal/day)
Q1_d_ribo	DENSITY for Riboflavin (mg/kcal/day)
Q1_d_niac	DENSITY for Niacin (mg/kcal/day)
Q1_d_pant	DENSITY for Pantothenic acid (mg/kcal/day)
Q1_d_vitb6	DENSITY for Vitamin B6 (mg/kcal/day)
Q1_d_vib12	DENSITY for Vitamin B12 (mcg/kcal/day)
Q1_d_vite	DENSITY for Vitamin C (mg/kcal/day)
Q1_d_vitd	DENSITY for Vitamin D (IU/kcal/day)
Q1_d_caff	DENSITY for Caffeine (mg/kcal/day)
Q1_d_iodi	DENSITY for Iodine (mcg/kcal/day)
Q1_d_sele	DENSITY for Selenium (mcg/kcal/day)
Q1_d_ntra	DENSITY for Nitrate (mg/kcal/day)
Q1_d_ntri	DENSITY for Nitrite (mg/kcal/day)
Q1_d_ntro	DENSITY for Nitrosamine (mcg/kcal/day)
Q1_d_ome3	DENSITY for Omega 3 F.A. (g/kcal/day)
Q1_d_ome6	DENSITY for Omega 6 F.A. (g/kcal/day)
Q1_d_acar	DENSITY for Alpha carotene (mcg/kcal/day)
Q1_d_bcar	DENSITY for Beta Carotene (mcg/kcal/day)
Q1_d_bery	DENSITY for Beta Cryptoxanthin (mcg/kcal/day)
Q1_d_lyco	DENSITY for Lycopene (mcg/kcal/day)
Q1_d_lute	DENSITY for Lutein (mcg/kcal/day)
Q1_d_gamm	DENSITY for Gamma Tocopherol (mg/kcal/day)
Q1_d_delt	DENSITY for Delta Tocopherol (mg/kcal/day)
Q1_d_nsp	DENSITY for Total NSP (g/kcal/day)
Q1_d_inso	DENSITY for Insoluble NSP (g/kcal/day)
Q1_d_soln	DENSITY for Soluble NSP (g/kcal/day)
Q1_d_cell	DENSITY for Cellulose (g/kcal/day)
Q1_d_alph	DENSITY for Alpha Tocopherol (mg/kcal/day)
Q1_d_beta	DENSITY for Beta Tocopherol (mg/kcal/day)
Q1_d_dfib	DENSITY for Dietary Fiber (g/kcal/day)
Q1_d_sucr	DENSITY for Sucrose (g/kcal/day)
Q1_d_malt	DENSITY for Maltose (g/kcal/day)
Q1_d_suga	DENSITY for Total Sugar (g/kcal/day)
Q1_d_gala	DENSITY for Galactose (g/kcal/day)
Q1_d_gluc	DENSITY for Glucose (g/kcal/day)
Q1_d fruc	DENSITY for Fructose (g/kcal/day)
Q1_d_lact	DENSITY for Lactose (g/kcal/day)
Q1_d_tcar	DENSITY for Total Carotene (mcg/kcal/day)
Q1_d_geni	DENSITY for Genistein (mg/kcal/day)
Q1_d_daidd	DENSITY for Daidzein (mg/kcal/day)
Q1_d_glyc	DENSITY for Glycitein (mg/kcal/day)
Q1_d_isof	DENSITY for Total isoflavonoids (mg/kcal/day)

Q1 d tryp	DENSITY for Tryptophan (g/kcal/day)
Q1 d thre	DENSITY for Threonine (g/kcal/day)
Q1 d isol	DENSITY for Isoleucine (g/kcal/day)
Q1 d leuc	DENSITY for Leucine (g/kcal/day)
Q1 d lysi	DENSITY for Lysine (g/kcal/day)
Q1 d meth	DENSITY for Methionine (g/kcal/day)
Q1 d cyst	DENSITY for Cystine (g/kcal/day)
Q1 d phen	DENSITY for Phenylalanine (g/kcal/day)
Q1 d tyro	DENSITY for Tyrosine (g/kcal/day)
Q1 d vali	DENSITY for Valine (g/kcal/day)
Q1 d argi	DENSITY for Arginine (g/kcal/day)
Q1 d hist	DENSITY for Histidine (g/kcal/day)
Q1 d alan	DENSITY for Alanine (g/kcal/day)
Q1 d aspa	DENSITY for Aspartic Acid (g/kcal/day)
Q1 d glut	DENSITY for Glutamic Acid Acid (g/kcal/day)
Q1 d glycine	DENSITY for Glycine (g/kcal/day)
Q1 d prol	DENSITY for Proline (g/kcal/day)
Q1 d seri	DENSITY for Serine (g/kcal/day)
Q1 d quer	DENSITY for Quercetin (g/kcal/day)
Q1 d kaem	DENSITY for Kaempferol (mg/kcal/day)
Q1 d myri	DENSITY for Myricetin (mg/kcal/day)
Q1 d hgly	DENSITY for Hesperidin glycosides (mg/kcal/day)
Q1 d ngly	DENSITY for Naringin glycosides (mg/kcal/day)
Q1 d vitk	DENSITY for Vitamin K (mcg/kcal/day)
Q1 d reti	DENSITY for Retinol (IU/kcal/day)
Q1 d mfp	DENSITY for Meat, Fish, Poultry iron (mg/kcal/day)
Q1 d dfe	DENSITY for DFE from all sources-Dietary Folate Equivalents (mcg/kcal/day)
Q1 d seco	DENSITY for Secoisolariciresinol (mcg/kcal/day)
Q1 d mata	DENSITY for Matairesinol (mcg/kcal/day)
Q1 d vitarae	DENSITY for Vitamin A (RAE/kcal/day)
Q1 d lutez	DENSITY for Lutein + Zeaxanthin (mcg/kcal/day)
Q1 d cla	DENSITY for Conjugated Linoleic Acid (CLA) DENSITY (mg/kcal/day)
Q1 d fdgp1	DENSITY for Food group: Beef (g/kcal/day)
Q1 d fdgp2	DENSITY for Food group: Pork (g/kcal/day)
Q1 d fdgp3	DENSITY for Food group: Red Meat excluding processed meat (g/kcal/day)
Q1 d fdgp4	DENSITY for Food group: Processed Red Meat (g/kcal/day)
Q1 d fdgp5	DENSITY for Food group: Fresh Poultry (g/kcal/day)
Q1 d fdgp6	DENSITY for Food group: Fish excluding shellfish (g/kcal/day)
Q1 d fdgp7	DENSITY for Food group: Shellfish (g/kcal/day)
Q1 d fdgp8	DENSITY for Food group: All Legumes (g/kcal/day)
Q1 d fdgp9	DENSITY for Food group: Tofu (g/kcal/day)
Q1 d fdgp10a	DENSITY for Food group: Soy from Tofu - Item 83 (g/kcal/day)
Q1 d fdgp10b	DENSITY for Food group: Soy from Tofu, Miso - Items 4 and 83 (g/kcal/day)
Q1 d fdgp10c	DENSITY for Food group: Soy from Tofu, Miso, Veg Meat-Items 4, 83, 84 (g/kcal/day)
Q1 d fdgp12	DENSITY for Food group: Total Vegetables (g/kcal/day)
Q1 d fdgp13	DENSITY for Food group: Light Green Vegetables (g/kcal/day)
Q1 d fdgp14	DENSITY for Food group: Dark Green Vegetables (g/kcal/day)
Q1 d fdgp15	DENSITY for Food group: Yellow-Orange Vegetables (g/kcal/day)
Q1 d fdgp16	DENSITY for Food group: Cruciferae (g/kcal/day)
Q1 d fdgp17	DENSITY for Food group: Tomato Products including Juice (g/kcal/day)
Q1 d fdgp18	DENSITY for Food group: Carrots (g/kcal/day)
Q1 d fdgp19	DENSITY for Food group: Broccoli (g/kcal/day)
Q1 d fdgp20	DENSITY for Food group: Rice (g/kcal/day)
Q1 d fdgp21	DENSITY for Food group: Potatoes and Tubers (g/kcal/day)
Q1 d fdgp21 pot	DENSITY for Food group: Potatoes (g/kcal/day)
Q1 d fdgp21 tub	DENSITY for Food group: Tubers (g/kcal/day)
Q1 d fdgp22	DENSITY for Food group: All Fruits plus Juice (g/kcal/day)
Q1 d fdgp23	DENSITY for Food group: Fruit Juice alone (g/kcal/day)
Q1 d fdgp24	DENSITY for Food group: Citrus Fruit (g/kcal/day)
Q1 d fdgp25	DENSITY for Food group: Yellow-Orange Fruit (g/kcal/day)
Q1 d fdgp26	DENSITY for Food group: All Dairy Products (g/kcal/day)
Q1 d fdgp27	DENSITY for Food group: Breakfast Cereals (g/kcal/day)
Q1 d fdgp28	DENSITY for Food group: Breads (g/kcal/day)
Q1 d fdgp29	DENSITY for Food group: Pasta (g/kcal/day)
Q1 d fdgp30	DENSITY for Food group: Eggs (g/kcal/day)
Q1 d fdgp31	DENSITY for Food group: Milk (g/kcal/day)
Q1 d fdgp32	DENSITY for Food group: Beer (g/kcal/day)
Q1 d fdgp33	DENSITY for Food group: Wine (g/kcal/day)
Q1 d fdgp34	DENSITY for Food group: Nuts excluding Coconut (g/kcal/day)
Q1 d fdgp35	DENSITY for Food group: Onion (g/kcal/day)
Q1 d fdgp36	DENSITY for Food group: Processed Poultry (g/kcal/day)
Q1 d fdgp37	DENSITY for Food group: Vegetable excluding legumes (g/kcal/day)
Q1 mped_g total	MyPyramid Equivalent Database: Grains, Total (oz/day)
Q1_mped_g_whl	MyPyramid Equivalent Database: Grains, Whole (oz/day)

Q1 mped g nwhl	MyPyramid Equivalent Database: Grains, Non-whole (oz/day)
Q1 mped v total	MyPyramid Equivalent Database: Vegetables, Total (cups/day)
Q1 mped v drkgr	MyPyramid Equivalent Database: Vegetables, Dark Green (cups/day)
Q1 mped v dpyel	MyPyramid Equivalent Database: Vegetables, Orange (cups/day)
Q1 mped v potato	MyPyramid Equivalent Database: Vegetables, White Potatoes (cups/day)
Q1 mped v starcy	MyPyramid Equivalent Database: Vegetables, Other Starchy (cups/day)
Q1 mped v tomato	MyPyramid Equivalent Database: Vegetables, Tomato (cups/day)
Q1 mped v other	MyPyramid Equivalent Database: Vegetables, Other (cups/day)
Q1 mped f total	MyPyramid Equivalent Database: Fruits, Total, Whole+Juice (cups/day)
Q1 mped f citmlb	MyPyramid Equivalent Database: Fruits, Citrus/Melon/Berries, Whole+Juice (cups/day)
Q1 mped f other	MyPyramid Equivalent Database: Fruits, Other, Whole+Juice (cups/day)
Q1 mped d total	MyPyramid Equivalent Database: Dairy, Total (cups/day)
Q1 mped d milk	MyPyramid Equivalent Database: Dairy, Milk, includes Soy (cups/day)
Q1 mped d yogurt	MyPyramid Equivalent Database: Dairy, Yogurt (cups/day)
Q1 mped d cheese	MyPyramid Equivalent Database: Dairy, Cheese (cups/day)
Q1 mped m mpf	MyPyramid Equivalent Database: Meats, Meat/Poultry/Fish (oz/day)
Q1 mped m meat	MyPyramid Equivalent Database: Meats, Meat (oz/day)
Q1 mped m organ	MyPyramid Equivalent Database: Meats, Organ Meats (oz/day)
Q1 mped m frank	MyPyramid Equivalent Database: Meats, Frankfurters/Sausage/Luncheon Meat (oz/day)
Q1 mped m poult	MyPyramid Equivalent Database: Meats, Poultry (oz/day)
Q1 mped m fish hi	MyPyramid Equivalent Database: Meats, Fish, High-Omega-3 (oz/day)
Q1 mped m fish lo	MyPyramid Equivalent Database: Meats, Fish, Low-Omega-3 (oz/day)
Q1 mped m egg	MyPyramid Equivalent Database: Meats, Egg (oz/day)
Q1 mped m soy	MyPyramid Equivalent Database: Meats, Soy (oz/day)
Q1 mped m nutsd	MyPyramid Equivalent Database: Meats, Nuts & Seeds (oz/day)
Q1 mped v legume	MyPyramid Equivalent Database: Vegetables, Legumes (cups/day)
Q1 mped discfat oil	MyPyramid Equivalent Database: Discretionary Oil (g/day)
Q1 mped discfat solid	MyPyramid Equivalent Database: Discretionary Solid Fat (g/day)
Q1 mped add sug	MyPyramid Equivalent Database: Added Sugars (tsp/day)
Q1 mped a bev	MyPyramid Equivalent Database: Alcoholic Beverages (drinks/day)
Q1 mped f total juice	MyPyramid Equivalent Database: Fruits, Total, Juice only (cups/day)
Q1 mped f citmlb juice	MyPyramid Equivalent Database: Fruits, Citrus/Melon/Berries, Juice only (cups/day)
Q1 mped f other juice	MyPyramid Equivalent Database: Fruits, Other, Juice only (cups/day)
Q1 DP AMDS mds1	Dietary Patterns, Alternate Mediterranean component, vegetables, without potato
Q1 DP AMDS mds2	Dietary Patterns, Alternate Mediterranean component, fruit
Q1 DP AMDS mds3	Dietary Patterns, Alternate Mediterranean component, nuts
Q1 DP AMDS mds4	Dietary Patterns, Alternate Mediterranean component, legumes
Q1 DP AMDS mds5	Dietary Patterns, Alternate Mediterranean component, fish
Q1 DP AMDS mds6	Dietary Patterns, Alternate Mediterranean component, whole grains
Q1 DP AMDS mds7	Dietary Patterns, Alternate Mediterranean component, M:S ratio
Q1 DP AMDS mds8	Dietary Patterns, Alternate Mediterranean component, alcohol
Q1 DP AMDS mds9	Dietary Patterns, Alternate Mediterranean component, red and processed meat
Q1 DP AMDS E mds1e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, vegetables, without potato
Q1 DP AMDS E mds2e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, fruit
Q1 DP AMDS E mds3e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, nuts
Q1 DP AMDS E mds4e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, legumes
Q1 DP AMDS E mds5e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, fish
Q1 DP AMDS E mds6e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, whole grains
Q1 DP AMDS E mds7e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, M:S ratio
Q1 DP AMDS E mds8e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, alcohol
Q1 DP AMDS E mds9e	Dietary Patterns, Alternate Mediterranean, energy adjusted, component, red and processed meat
Q1 DP AHEI2010 hds1	Dietary Patterns, Alternate HEI2010 component, total vegetables
Q1 DP AHEI2010 hds2	Dietary Patterns, Alternate HEI2010 component, fruit
Q1 DP AHEI2010 hds3	Dietary Patterns, Alternate HEI2010 component gender specific whole grains
Q1 DP AHEI2010 hds4	Dietary Patterns, Alternate HEI2010 component Sugar Sweetened Beverages, plus fruit juice
Q1 DP AHEI2010 hds5	Dietary Patterns, Alternate HEI2010 component nuts, soy and legumes
Q1 DP AHEI2010 hds6	Dietary Patterns, Alternate HEI2010 component trans fat
Q1 DP AHEI2010 hds7	Dietary Patterns, Alternate HEI2010 component omega-3
Q1 DP AHEI2010 hds8	Dietary Patterns, Alternate HEI2010 component PUFA-EPA DHA
Q1 DP AHEI2010 hds9	Dietary Patterns, Alternate HEI2010 component alcohol
Q1 DP AHEI2010 hds10	Dietary Patterns, Alternate HEI2010 component sodium
Q1 DP AHEI2010 hds11	Dietary Patterns, Alternate HEI2010 component red and processed meat
Q1 DP DASH fruitq	Dietary Patterns DASH(Fung) component, gender specific quintile, fruits
Q1 DP DASH veg nopotq	Dietary Patterns DASH(Fung) component, gender specific quintile, vegetables, without potatoes
Q1 DP DASH nutlegq	Dietary Patterns DASH(Fung) component, gender specific quintile, nuts, seeds, legumes
Q1 DP DASH dairyq	Dietary Patterns DASH(Fung) component, gender specific quintile, dairy
Q1 DP DASH whgrq	Dietary Patterns DASH(Fung) component, gender specific quintile, whole grains
Q1 DP DASH sodiumq	Dietary Patterns DASH(Fung) component, gender specific quintile, sodium
Q1 DP DASH ssbq	Dietary Patterns DASH(Fung) component, gender specific quintile, sweetened beverages
Q1 DP DASH redmeatq	Dietary Patterns DASH(Fung) component, gender specific quintile, red meat
Q1 DP HEI2010 heix1	Dietary Patterns, HEI2010 component, total vegetables
Q1 DP HEI2010 heix2	Dietary Patterns, HEI2010 component, greens and beans
Q1 DP HEI2010 heix3	Dietary Patterns, HEI2010 component, total fruit
Q1_DP_HEI2010_heix4	Dietary Patterns, HEI2010 component, whole fruit

Q1 DP HEI2010 heix5	Dietary Patterns, HEI2010 component, whole grains
Q1 DP HEI2010 heix6	Dietary Patterns, HEI2010 component, dairy
Q1 DP HEI2010 heix7	Dietary Patterns, HEI2010 component, total protein foods
Q1 DP HEI2010 heix8	Dietary Patterns, HEI2010 component, seafood and plant protein
Q1 DP HEI2010 heix9	Dietary Patterns, HEI2010 component, fatty acid ratio
Q1 DP HEI2010 heix10	Dietary Patterns, HEI2010 component, sodium
Q1 DP HEI2010 heix11	Dietary Patterns, HEI2010 component, refined grains
Q1 DP HEI2010 heix12	Dietary Patterns, HEI2010 component, empty calories

Table S6a. Sex- and Ethnic-Stratified Hazard Ratios and 95% Confidence Intervals for Modifiable Lifestyle Factors, Part 1

		Black		Hawaiian		Japanese	
		Female	Male	Female	Male	Female	Male
Past Smoking (ref. Never)	Crude	1.14 (1.01, 1.29) *	1.06 (0.88, 1.28)	1.07 (0.90, 1.27)	0.90 (0.76, 1.08)	1.22 (1.08, 1.38) **	1.11 (1.01, 1.22) *
	Model 1	1.13 (1.00, 1.28)	1.09 (0.90, 1.32)	1.07 (0.90, 1.27)	0.92 (0.78, 1.10)	1.17 (1.03, 1.32) *	1.13 (1.03, 1.25) **
	Model 2[‡]	1.07 (0.93, 1.24)	0.98 (0.80, 1.21)	0.99 (0.82, 1.17)	0.86 (0.71, 1.03)	1.03 (0.91, 1.18)	1.02 (0.92, 1.13)
	Model 3	1.05 (0.90, 1.22)	0.98 (0.79, 1.21)	0.95 (0.79, 1.16)	0.86 (0.71, 1.05)	1.05 (0.92, 1.21)	1.00 (0.91, 1.11)
Current Smoking (ref. Never)	Crude	1.41 (1.22, 1.64) ***	1.18 (0.95, 1.47)	1.16 (0.94, 1.42)	1.01 (0.81, 1.25)	1.48 (1.23, 1.77) ***	1.24 (1.08, 1.42) **
	Model 1	1.41 (1.21, 1.64) ***	1.22 (0.97, 1.53)	1.18 (0.95, 1.45)	1.01 (0.81, 1.26)	1.41 (1.17, 1.69) ***	1.21 (1.05, 1.39) **
	Model 2[‡]	1.36 (1.14, 1.64) ***	1.11 (0.85, 1.45)	0.89 (0.74, 1.07)	1.02 (0.80, 1.29)	1.42 (1.17, 1.73) ***	1.08 (0.93, 1.26)
	Model 3	1.36 (1.12, 1.64) **	1.16 (0.88, 1.52)	1.23 (0.96, 1.57)	1.03 (0.80, 1.31)	1.40 (1.15, 1.72) ***	1.08 (0.92, 1.25)
Vitamin C Use (ref. No Use)	Crude	0.93 (0.83, 1.04)	1.17 (1.00, 1.37) *	0.84 (0.71, 0.99) *	0.78 (0.65, 0.93) **	0.86 (0.77, 0.95) **	0.86 (0.79, 0.94) ***
	Model 1	0.93 (0.82, 1.04)	1.16 (0.98, 1.36)	0.84 (0.70, 0.99) *	0.77 (0.64, 0.93) **	0.87 (0.78, 0.97) **	0.85 (0.78, 0.93) ***
	Model 2[‡]	0.96 (0.84, 1.10)	1.20 (1.01, 1.44) *	0.89 (0.74, 1.07)	0.85 (0.70, 1.04)	0.88 (0.79, 0.98) *	0.93 (0.85, 1.02)
	Model 3	0.96 (0.84, 1.10)	1.21 (1.01, 1.46) *	0.90 (0.75, 1.09)	0.80 (0.66, 0.98) *	0.90 (0.81, 1.01)	0.92 (0.84, 1.01)
MET Score	Crude	0.72 (0.57, 0.91) **	0.95 (0.72, 1.24)	0.81 (0.62, 1.06)	0.91 (0.73, 1.15)	0.68 (0.55, 0.85) ***	0.87 (0.74, 1.01)
	Model 1	0.72 (0.56, 0.92) **	0.99 (0.75, 1.31)	0.80 (0.61, 1.05)	0.92 (0.74, 1.16)	0.76 (0.61, 0.96) *	0.96 (0.82, 1.13)
	Model 2[‡]	0.91 (0.71, 1.18)	1.22 (0.92, 1.61)	1.11 (0.84, 1.47)	1.02 (0.81, 1.28)	0.92 (0.73, 1.17)	1.05 (0.90, 1.23)
	Model 3	0.91 (0.70, 1.19)	1.24 (0.93, 1.66)	1.12 (0.84, 1.50)	1.01 (0.80, 1.28)	0.86 (0.68, 1.10)	1.06 (0.90, 1.25)
1 to 2 Alcoholic Drinks per Day (ref. None)	Crude	1.13 (0.93, 1.37)	1.16 (0.96, 1.41)	0.81 (0.62, 1.06)	1.06 (0.88, 1.29)	1.06 (0.83, 1.36)	1.23 (1.11, 1.36) ***
	Model 1	1.17 (0.97, 1.42)	1.15 (0.95, 1.40)	0.82 (0.62, 1.08)	1.04 (0.86, 1.26)	1.02 (0.80, 1.31)	1.23 (1.11, 1.36) ***
	Model 2[‡]	1.25 (1.01, 1.55) *	1.18 (0.95, 1.45)	0.99 (0.74, 1.32)	1.12 (0.92, 1.37)	1.11 (0.86, 1.44)	1.25 (1.12, 1.39) ***
	Model 3	1.26 (1.01, 1.57) *	1.16 (0.93, 1.45)	1.06 (0.79, 1.42)	1.09 (0.88, 1.34)	1.16 (0.89, 1.51)	1.23 (1.11, 1.37) ***
3+ Alcoholic Drinks per Day (ref. None)	Crude	1.77 (1.31, 2.41) ***	1.28 (0.98, 1.67)	1.16 (0.74, 1.84)	1.30 (1.06, 1.60) *	1.64 (0.88, 3.06)	1.53 (1.35, 1.74) **
	Model 1	1.73 (1.26, 2.37) ***	1.29 (0.98, 1.68)	1.15 (0.72, 1.84)	1.26 (1.02, 1.56) *	1.58 (0.85, 2.96)	1.55 (1.36, 1.77) ***
	Model 2[‡]	1.97 (1.42, 2.75) ***	1.35 (1.00, 1.83)	1.21 (0.74, 1.97)	1.36 (1.08, 1.71) **	1.05 (0.50, 2.21)	1.54 (1.34, 1.76) ***
	Model 3	1.93 (1.36, 2.74) ***	1.23 (0.89, 1.69)	1.34 (0.82, 2.19)	1.41 (1.12, 1.78) **	1.09 (0.51, 2.29)	1.55 (1.35, 1.78) ***
DASH Tertile 2 [22-26] (ref. Tertile 1)	Crude	0.78 (0.69, 0.89) ***	0.89 (0.74, 1.07)	0.79 (0.66, 0.95) *	0.86 (0.72, 1.04)	0.82 (0.73, 0.93) **	0.71 (0.65, 0.79) ***
	Model 1[†]	0.80 (0.70, 0.92) **	0.87 (0.72, 1.05)	0.81 (0.68, 0.98) *	0.88 (0.73, 1.05)	0.87 (0.77, 0.98) *	0.75 (0.68, 0.83) ***
	Model 2[‡]	0.86 (0.74, 0.99) *	0.88 (0.72, 1.09)	0.86 (0.71, 1.05)	0.86 (0.71, 1.04)	0.91 (0.80, 1.04)	0.76 (0.68, 0.84) ***
	Model 3	0.86 (0.73, 1.00)	0.86 (0.69, 1.06)	0.87 (0.71, 1.06)	0.87 (0.71, 1.06)	0.93 (0.82, 1.06)	0.78 (0.70, 0.86) ***
DASH Tertile 3 [26-40] (ref. Tertile 1)	Crude	0.73 (0.64, 0.84) ***	0.77 (0.64, 0.94) **	0.71 (0.58, 0.86) ***	0.70 (0.58, 0.86) ***	0.72 (0.64, 0.82) ***	0.62 (0.56, 0.69) ***
	Model 1[†]	0.74 (0.64, 0.85) ***	0.76 (0.62, 0.92) **	0.73 (0.60, 0.89) **	0.70 (0.57, 0.87) ***	0.77 (0.67, 0.87) ***	0.68 (0.61, 0.75) ***
	Model 2[‡]	0.81 (0.69, 0.95) *	0.83 (0.67, 1.03)	0.86 (0.70, 1.07)	0.75 (0.61, 0.93) **	0.85 (0.74, 0.97) *	0.72 (0.64, 0.81) ***
	Model 3	0.82 (0.69, 0.97) *	0.79 (0.63, 1.00) *	0.83 (0.66, 1.03)	0.77 (0.62, 0.96) *	0.85 (0.74, 0.98) *	0.74 (0.66, 0.83) ***

Model 1 (Total Effects Model) is adjusted for education level, generation in the United States, and marital status. [†]In addition, Model 1 is adjusted for number of alcoholic drinks per day for the total effects of DASH tertiles.

[‡]Model 2 is adjusted for the minimum sufficient adjustment set for the direct effect of each covariate as determined by directed acyclic graphs; in Model 2 the effects of:

Smoking Status is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease (hypertension, heart attack, angina, and stroke (yes/no)), history of kidney stones (yes/no), total DASH score (continuous), number of alcoholic drinks per day, and physical activity (METs Score, continuous).

Vitamin C Use is adjusted for BMI (continuous), education level, generation in the United States, total DASH score (continuous), number of alcoholic drinks per day, and smoking status.

MET Score is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, total DASH score, number of alcoholic drinks per day, and smoking status.

Alcoholic Drinks is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, total DASH score, physical activity, and smoking status.

DASH Score is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, number of alcoholic drinks per day, physical activity, and smoking status.

Model 3 is adjusted for all covariates.

Acronyms: BMI = Body Mass Index, MET = Metabolic Equivalent, DASH = Dietary Approaches to Stop Hypertension

MET = [(# Hours Sleeping × 0.91) + (# Hours Sitting × 1.0) + (# Hours in Light Activities × 2.4) + (# Hours in Moderate Activity × 4.0) + (# Hours in Vigorous Activity × 7.2)] / 24

*p<0.05, **p<0.01, ***p<0.001

Table S6b. Sex- and Ethnic-Stratified Hazard Ratios and 95% Confidence Intervals for Modifiable Lifestyle Factors, Part 2

		Latino		White		Total	
		Female	Male	Female	Male	Female	Male
Past Smoking (ref. Never)	Crude	1.18 (1.01, 1.38) *	1.04 (0.89, 1.21)	1.16 (1.03, 1.31) *	1.09 (0.97, 1.23)	1.24 (1.17, 1.32) ***	1.07 (1.01, 1.13) *
	Model 1	1.20 (1.02, 1.40) *	1.05 (0.90, 1.23)	1.19 (1.05, 1.34) **	1.10 (0.98, 1.24)	1.16 (1.10, 1.24) ***	1.09 (1.03, 1.15) **
	Model 2[‡]	1.13 (0.95, 1.34)	0.98 (0.82, 1.16)	1.20 (1.05, 1.37) **	1.01 (0.89, 1.14)	1.10 (1.03, 1.18) **	1.00 (0.93, 1.06)
	Model 3	1.10 (0.92, 1.32)	0.94 (0.79, 1.13)	1.21 (1.06, 1.38) **	1.02 (0.90, 1.16)	1.09 (1.02, 1.17) **	0.99 (0.93, 1.05)
Current Smoking (ref. Never)	Crude	1.25 (0.99, 1.56)	0.97 (0.78, 1.20)	1.09 (0.91, 1.30)	1.09 (0.91, 1.29)	1.44 (1.33, 1.56) ***	1.12 (1.03, 1.21) **
	Model 1	1.22 (0.96, 1.54)	0.97 (0.78, 1.22)	1.10 (0.92, 1.32)	1.10 (0.92, 1.31)	1.30 (1.19, 1.41) ***	1.14 (1.05, 1.24) **
	Model 2[‡]	1.06 (0.80, 1.40)	0.98 (0.77, 1.25)	1.16 (0.95, 1.41)	1.07 (0.89, 1.29)	1.30 (1.19, 1.43) ***	1.08 (0.99, 1.18)
	Model 3	1.06 (0.80, 1.42)	0.91 (0.70, 1.18)	1.13 (0.92, 1.39)	1.09 (0.90, 1.32)	1.28 (1.16, 1.41) ***	1.08 (0.98, 1.18)
Vitamin C Use (ref. No Use)	Crude	0.91 (0.79, 1.05)	0.89 (0.76, 1.03)	0.96 (0.86, 1.08)	0.92 (0.82, 1.02)	0.87 (0.83, 0.92) ***	0.89 (0.85, 0.94) ***
	Model 1	0.89 (0.77, 1.04)	0.87 (0.75, 1.02)	0.98 (0.87, 1.10)	0.90 (0.81, 1.00)	0.90 (0.85, 0.95) ***	0.88 (0.84, 0.93) ***
	Model 2[‡]	0.99 (0.84, 1.17)	0.98 (0.83, 1.16)	1.06 (0.93, 1.20)	1.02 (0.91, 1.14)	0.95 (0.90, 1.01)	0.97 (0.92, 1.03)
	Model 3	0.95 (0.80, 1.13)	0.96 (0.80, 1.14)	1.08 (0.95, 1.23)	1.00 (0.89, 1.12)	0.96 (0.90, 1.02)	0.96 (0.90, 1.01)
MET Score	Crude	0.59 (0.45, 0.79) ***	0.72 (0.57, 0.90) **	0.66 (0.52, 0.83) ***	1.01 (0.85, 1.20)	0.69 (0.61, 0.77) ***	0.89 (0.81, 0.97) **
	Model 1	0.59 (0.44, 0.79) ***	0.78 (0.62, 0.99) *	0.66 (0.52, 0.83) ***	0.99 (0.83, 1.18)	0.70 (0.62, 0.78) ***	0.93 (0.85, 1.01)
	Model 2[‡]	0.63 (0.47, 0.85) **	0.87 (0.69, 1.11)	0.91 (0.71, 1.16)	1.19 (0.99, 1.42)	0.88 (0.79, 0.99) *	1.06 (0.97, 1.16)
	Model 3	0.68 (0.49, 0.92) *	0.87 (0.67, 1.11)	0.87 (0.68, 1.12)	1.19 (0.99, 1.43)	0.87 (0.77, 0.98) *	1.07 (0.97, 1.17)
1 to 2 Alcoholic Drinks per Day (ref. None)	Crude	1.18 (0.91, 1.51)	0.99 (0.84, 1.17)	0.85 (0.74, 0.97) *	1.08 (0.96, 1.22)	0.96 (0.88, 1.05)	1.10 (1.03, 1.17) **
	Model 1	1.18 (0.91, 1.52)	1.00 (0.84, 1.19)	0.84 (0.73, 0.97) *	1.10 (0.97, 1.24)	0.94 (0.86, 1.04)	1.12 (1.05, 1.19) ***
	Model 2[‡]	1.22 (0.92, 1.61)	1.04 (0.87, 1.25)	0.90 (0.77, 1.05)	1.12 (0.99, 1.28)	1.02 (0.93, 1.13)	1.16 (1.08, 1.24) ***
	Model 3	1.14 (0.85, 1.54)	1.04 (0.86, 1.26)	0.92 (0.79, 1.08)	1.11 (0.98, 1.27)	1.04 (0.94, 1.15)	1.14 (1.07, 1.22) ***
3+ Alcoholic Drinks per Day (ref. None)	Crude	0.66 (0.33, 1.33)	1.23 (0.99, 1.53)	1.11 (0.89, 1.38)	1.47 (1.29, 1.68) ***	1.25 (1.07, 1.45) **	1.41 (1.31, 1.52) ***
	Model 1	0.63 (0.30, 1.32)	1.25 (1.00, 1.56) *	1.13 (0.91, 1.41)	1.48 (1.30, 1.70) ***	1.22 (1.04, 1.42) *	1.42 (1.31, 1.53) ***
	Model 2[‡]	0.53 (0.24, 1.19)	1.27 (1.00, 1.61) *	1.14 (0.91, 1.44)	1.46 (1.26, 1.68) ***	1.21 (1.02, 1.42) *	1.43 (1.32, 1.55) ***
	Model 3	0.59 (0.26, 1.33)	1.31 (1.02, 1.68) *	1.16 (0.92, 1.47)	1.46 (1.26, 1.69) ***	1.25 (1.06, 1.48) **	1.44 (1.33, 1.57) ***
Total DASH Score	Crude	0.87 (0.74, 1.03)	0.90 (0.77, 1.07)	0.78 (0.67, 0.90) ***	0.76 (0.66, 0.87) ***	0.79 (0.74, 0.85) ***	0.75 (0.70, 0.80) ***
	Model 1[†]	0.87 (0.73, 1.03)	0.92 (0.78, 1.10)	0.76 (0.66, 0.89) ***	0.76 (0.66, 0.87) ***	0.82 (0.76, 0.87) ***	0.79 (0.74, 0.84) ***
	Model 2[‡]	0.90 (0.75, 1.09)	0.92 (0.77, 1.11)	0.82 (0.71, 0.96) *	0.75 (0.65, 0.86) ***	0.86 (0.81, 0.93) ***	0.79 (0.74, 0.85) ***
	Model 3	0.90 (0.74, 1.09)	0.90 (0.74, 1.10)	0.83 (0.71, 0.98) *	0.74 (0.64, 0.86) ***	0.87 (0.81, 0.94) ***	0.80 (0.74, 0.85) ***
Total DASH Score	Crude	0.95 (0.81, 1.12)	0.82 (0.69, 0.97) *	0.62 (0.54, 0.72) ***	0.65 (0.57, 0.74) ***	0.71 (0.67, 0.76) ***	0.64 (0.60, 0.68) ***
	Model 1[†]	0.94 (0.79, 1.11)	0.85 (0.71, 1.01)	0.63 (0.54, 0.73) ***	0.66 (0.58, 0.76) ***	0.73 (0.69, 0.79) ***	0.69 (0.65, 0.74) ***
	Model 2[‡]	0.96 (0.79, 1.17)	0.85 (0.70, 1.03)	0.70 (0.60, 0.83) ***	0.70 (0.61, 0.80) ***	0.80 (0.75, 0.87) ***	0.73 (0.68, 0.79) ***
	Model 3	0.97 (0.79, 1.18)	0.84 (0.69, 1.03)	0.69 (0.59, 0.82) ***	0.70 (0.61, 0.81) ***	0.80 (0.74, 0.87) ***	0.74 (0.69, 0.80) ***

Model 1 (Total Effects Model) is adjusted for education level, generation in the United States, and marital status. [†]In addition, Model 1 is adjusted for number of alcoholic drinks per day for the total effects of DASH tertiles.

[‡]Model 2 is adjusted for the minimum sufficient adjustment set for the direct effect of each covariate as determined by directed acyclic graphs; in Model 2 the effects of:

Smoking Status is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease (hypertension, heart attack, angina, and stroke (yes/no)), history of kidney stones (yes/no), total DASH score (continuous), number of alcoholic drinks per day, and physical activity (METs Score, continuous).

Vitamin C Use is adjusted for BMI (continuous), education level, generation in the United States, total DASH score (continuous), number of alcoholic drinks per day, and smoking status.

MET Score is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, total DASH score, number of alcoholic drinks per day, and smoking status.

Alcoholic Drinks is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, total DASH score, physical activity, and smoking status.

DASH Score is adjusted for BMI (continuous), education level, generation in the United States, marital status, history of cardiovascular disease, history of kidney stones, number of alcoholic drinks per day, physical activity, and smoking status.

Model 3 is adjusted for all covariates.

Acronyms: BMI = Body Mass Index, MET = Metabolic Equivalent, DASH = Dietary Approaches to Stop Hypertension

MET = [(# Hours Sleeping × 0.91) + (# Hours Sitting × 1.0) + (# Hours in Light Activities × 2.4) + (# Hours in Moderate Activity × 4.0) + (# Hours in Vigorous Activity × 7.2)] / 24

*p<0.05, **p<0.01, ***p<0.001

Table S7. Univariate Baseline Characteristics of Study 2 Subsample

var	levels	stats	nmiss
Ethnicity	Black	1094(16.66%)	0
	Hawaiian	1223(18.62%)	
	Japanese	1659(25.26%)	
	Latino	2146(32.68%)	
Sex	White	445(6.78%)	0
	Male	2982(45.41%)	
	Female	3585(54.59%)	
Age at Blood Draw	mean(SD)	67.63(7.72)	0
	median(Q1,Q3)	66.88(61.74,73.38)	
	min_max	(48.34,87.98)	
Education Level	High School or Less	2502(38.41%)	53
	Vocational/Some College	2065(31.70%)	
	Grad College/Grad School	1947(29.89%)	
Number of Children	None	737(11.39%)	98
	1-2	2155(33.31%)	
	3-4	2372(36.67%)	
	5+	1205(18.63%)	
Place of Birth	US-born	5258(80.27%)	17
	Foreign-born	1292(19.73%)	
Marital Status	Married	4605(70.68%)	52
	Not Married	1910(29.32%)	
Body Mass Index	mean(SD)	26.65(4.79)	11
	median(Q1,Q3)	25.88(23.46,28.95)	
	min_max	(14.8,77.9)	
Smoking Status	Never	3101(47.94%)	99
	Past	2568(39.70%)	
	Current	799(12.35%)	
Vitamin C Use	No	3858(61.33%)	276
	Yes	2433(38.67%)	
METs	mean(SD)	1.63(0.31)	520
	median(Q1,Q3)	1.62(1.42,1.79)	
	min_max	(0.97,3.84)	
Number Drinks/Day	None	4890(76.35%)	162
	1-2	1098(17.14%)	
	3+	417(6.51%)	
Diuretic Use	Never	5083(80.98%)	290
	Past	506(8.06%)	
	Current	688(10.96%)	
DASH Score	mean(SD)	24.05(4.34)	162
	median(Q1,Q3)	24(21,27)	
	min_max	(10,38)	