

TABLE S1.Covariate screening.

Term	coef f	Change.percentag e2	GVI F	D F	GVIF^(1/(2*D f))	colinearit y	selec t
Crude	0	Ref.	1.04 1	1	1.02	0	Ref.
Sex	0	-9	1.33 2	1	1.154	0	Yes
Age	0	-3.5	1.06 6	1	1.033	0	Yes
Race	0	-0.3	1.66 6	4	1.066	0	Yes
PIR	0	-1.2	1.49 1	1	1.221	0	No
Education level	0	-2.5	1.76 4	4	1.074	0	No
Alcohol intake	0	2	1.31 4	2	1.071	0	Yes
Smoking status	0	0.2	1.32 9	2	1.074	0	Yes
Hypertension	0	1	1.16 9	1	1.081	0	Yes
Diabetes	0	-0.1	1.24 1	2	1.056	0	Yes
CVD	0	4.7	1.15 1	1	1.073	0	Yes
HDL-C	0	0.3	1.40 2	1	1.184	0	Yes
Total cholesterol	0	-0.3	1.22 6	1	1.107	0	Yes
BMI	0	-2.1	1.63	24	1.01	0	Yes

TABLE S2.Univariate analysis.

Variable		OR_95CI	P value
Sex	Male	Ref	
	Female	1.63 (1.36~1.96)	<0.001
Age		0.97 (0.94~1)	0.021
Race	Mexican American	Ref	
	Other Hispanic	1.32 (0.93~1.88)	0.114
	Non-Hispanic White	1.54 (1.16~2.04)	0.003
	Non-Hispanic Black	1.62 (1.2~2.2)	0.002
	Other Race	1.21 (0.8~1.81)	0.362
Education level	Non-graduate	Ref	
	high school graduation	0.99 (0.83~1.19)	0.935
PIR	≤1	Ref	
	>1	0.94 (0.75~1.16)	0.552
BMI	≤25	Ref	
	25-30	0.91 (0.7~1.17)	0.464
	>30	1.42 (1.13~1.79)	0.003
Alcohol intake, n (%)	Current	Ref	
	Former	1.16 (0.92~1.47)	0.21
	Never	0.85 (0.66~1.1)	0.22
Smoking status, n (%)	Current		
	Former	1.09 (0.87~1.36)	0.451
	Never	1.05 (0.84~1.31)	0.684
Hypertension, n (%)	Yes	Ref	
	No	0.61 (0.51~0.74)	<0.001
Diabetes, n (%)	Yes	Ref	
	No	0.71 (0.59~0.87)	0.001
	Borderline	0.75 (0.45~1.23)	0.252
CVD	Yes	Ref	
	No	0.58 (0.47~0.71)	<0.001
HDL-C		1.01 (1~1.01)	0.022
Total cholesterol		1 (1~1)	0.461

CVD,cardiovascular disease;P<0.05 presents significant difference.

TABLE S3.The relation of serum Klotho concentration (Q2–Q4 vs. Q1) with the prevalence of asthma in various subgroups.

Subgroup	Variable	Crude model		Adjusted Model		<i>P</i> for interaction
		OR (95%CI)	<i>P</i> value	OR (95%CI)	<i>P</i> value	
Sex						
	Male					0.435
	Q1	1(Ref)		1(Ref)		
	Q2	0.64 (0.48~0.86)	0.003	0.72 (0.52~1.01)	0.056	
	Q3	0.51 (0.37~0.71)	<0.001	0.55 (0.38~0.79)	0.001	
	Q4	0.46 (0.33~0.65)	<0.001	0.52 (0.35~0.76)	0.001	
	Female					
	Q1	1(Ref)		1(Ref)		
	Q2	0.73 (0.5~1.08)	0.116	0.73 (0.48~1.12)	0.155	
	Q3	0.65 (0.44~0.95)	0.027	0.78 (0.51~1.19)	0.242	
	Q4	0.59 (0.4~0.87)	0.008	0.72 (0.47~1.11)	0.137	
Age						
	≤60					0.684
	Q1	1(Ref)		1(Ref)		
	Q2	0.51 (0.32~0.81)	0.005	0.64 (0.38~1.08)	0.097	
	Q3	0.42 (0.26~0.68)	<0.001	0.52 (0.3~0.91)	0.022	
	Q4	0.42 (0.26~0.67)	<0.001	0.51 (0.3~0.87)	0.013	
	60-70					
	Q1	1(Ref)		1(Ref)		
	Q2	0.74 (0.5~1.1)	0.137	0.76 (0.49~1.18)	0.224	
	Q3	0.66 (0.44~1)	0.048	0.71 (0.45~1.13)	0.15	
	Q4	0.46 (0.29~0.73)	0.001	0.52 (0.32~0.87)	0.012	
	>70					
	Q1	1(Ref)		1(Ref)		
	Q2	0.87 (0.59~1.28)	0.486	0.93 (0.61~1.42)	0.735	
	Q3	0.7 (0.46~1.06)	0.093	0.72 (0.46~1.13)	0.147	
	Q4	0.83 (0.55~1.26)	0.39	0.9 (0.57~1.41)	0.633	
BMI						
	≤25					0.822
	Q1	1(Ref)		1(Ref)		
	Q2	0.52 (0.28~0.96)	0.038	0.59 (0.28~1.22)	0.155	
	Q3	0.44 (0.23~0.85)	0.014	0.64 (0.3~1.36)	0.249	
	Q4	0.38 (0.2~0.74)	0.005	0.45 (0.21~0.96)	0.039	
	25-30					
	Q1	1(Ref)		1(Ref)		
	Q2	0.57 (0.36~0.91)	0.018	0.68 (0.41~1.13)	0.139	
	Q3	0.41 (0.24~0.68)	0.001	0.48 (0.28~0.85)	0.012	
	Q4	0.59 (0.37~0.94)	0.026	0.74 (0.44~1.25)	0.261	
	>30					

Alcohol intake		Q1	1(Ref)		1(Ref)	
		Q2	0.79 (0.58~1.07)	0.124	0.81 (0.58~1.14)	0.231
		Q3	0.67 (0.49~0.91)	0.012	0.71 (0.5~1.01)	0.054
		Q4	0.49 (0.35~0.69)	<0.001	0.61 (0.41~0.89)	0.01
	Current					0.012
	Former	Q1	1(Ref)		1(Ref)	
		Q2	0.69 (0.53~0.9)	0.007	0.78 (0.58~1.06)	0.108
		Q3	0.5 (0.37~0.67)	<0.001	0.54 (0.39~0.75)	<0.001
		Q4	0.43 (0.31~0.6)	<0.001	0.49 (0.35~0.7)	<0.001
	Never	Q1	1(Ref)		1(Ref)	
		Q2	0.51 (0.25~1.05)	0.069	0.56 (0.25~1.28)	0.17
		Q3	0.69 (0.37~1.3)	0.254	1.27 (0.6~2.66)	0.534
		Q4	0.85 (0.47~1.52)	0.58	1.75 (0.87~3.54)	0.119
Smoking status		Q1	1(Ref)		1(Ref)	
		Q2	0.74 (0.39~1.39)	0.348	0.8 (0.38~1.66)	0.547
		Q3	0.68 (0.36~1.32)	0.257	0.87 (0.42~1.81)	0.709
		Q4	0.39 (0.19~0.8)	0.01	0.49 (0.22~1.08)	0.077
	Current					0.445
	Former	Q1	1(Ref)		1(Ref)	
		Q2	0.66 (0.45~0.96)	0.028	0.66 (0.43~1.02)	0.059
		Q3	0.43 (0.28~0.66)	<0.001	0.48 (0.29~0.78)	0.003
		Q4	0.4 (0.26~0.62)	<0.001	0.47 (0.29~0.76)	0.002
	Never	Q1	1(Ref)		1(Ref)	
		Q2	0.86 (0.6~1.25)	0.441	0.92 (0.61~1.39)	0.686
		Q3	0.65 (0.44~0.98)	0.037	0.71 (0.45~1.11)	0.128
		Q4	0.63 (0.42~0.97)	0.034	0.77 (0.48~1.22)	0.26
Hypertension	Yes	Q1	1(Ref)		1(Ref)	
		Q2	0.74 (0.57~0.96)	0.021	0.74 (0.56~0.99)	0.04
		Q3	0.55 (0.41~0.73)	<0.001	0.57 (0.42~0.77)	<0.001
		Q4	0.53 (0.4~0.71)	<0.001	0.6 (0.44~0.82)	0.001
						0.329
		Q1	1(Ref)		1(Ref)	
		Q2	0.74 (0.57~0.96)	0.021	0.74 (0.56~0.99)	0.04
		Q3	0.55 (0.41~0.73)	<0.001	0.57 (0.42~0.77)	<0.001
		Q4	0.53 (0.4~0.71)	<0.001	0.6 (0.44~0.82)	0.001

Diabetes	No	Q1	1(Ref)		1(Ref)		
		Q2	0.69 (0.39~1.23)	0.207	0.82 (0.43~1.56)	0.541	
		Q3	0.82 (0.47~1.41)	0.465	0.93 (0.5~1.73)	0.815	
		Q4	0.46 (0.24~0.89)	0.021	0.64 (0.31~1.31)	0.225	
	Yes	Q1	1(Ref)		1(Ref)		0.056
		Q2	0.63 (0.43~0.91)	0.015	0.65 (0.42~0.99)	0.042	
		Q3	0.45 (0.29~0.68)	<0.001	0.52 (0.32~0.82)	0.005	
		Q4	0.54 (0.37~0.79)	0.002	0.72 (0.47~1.09)	0.119	
	No	Q1	1(Ref)		1(Ref)		
		Q2	0.73 (0.53~0.99)	0.045	0.79 (0.56~1.11)	0.179	
		Q3	0.64 (0.47~0.88)	0.007	0.68 (0.48~0.97)	0.032	
		Q4	0.4 (0.28~0.59)	<0.001	0.47 (0.31~0.71)	<0.001	
	Borderline	Q1	1(Ref)		1(Ref)		
		Q2	3.52 (0.39~32.11)	0.265	6.43 (0.47~88.51)	0.164	
		Q3	3.56 (0.39~32.47)	0.261	8.78 (0.6~127.82)	0.112	
		Q4	4.65 (0.53~40.68)	0.165	6.98 (0.55~89.29)	0.135	
CVD	Yes	Q1	1(Ref)		1(Ref)		0.147
		Q2	0.87 (0.63~1.19)	0.377	0.87 (0.62~1.21)	0.403	
		Q3	0.72 (0.52~1)	0.052	0.73 (0.52~1.03)	0.075	
		Q4	0.75 (0.54~1.06)	0.104	0.8 (0.56~1.13)	0.208	
	No	Q1	1(Ref)		1(Ref)		
		Q2	0.56 (0.37~0.85)	0.006	0.69 (0.45~1.04)	0.079	
		Q3	0.47 (0.3~0.72)	0.001	0.59 (0.37~0.91)	0.018	
		Q4	0.36 (0.22~0.57)	<0.001	0.4 (0.25~0.65)	<0.001	

Adjusted for gender,age,body mass index,alcohol intake,smoking status,hypertension, diabetes,CVD. if not stratified.