

**Supplementary Table S1.** Descriptive statistics of the characteristics of eligible participants with or without nabothian cysts

Characteristic	Non-nabothian cysts (n = 481)	Nabothian cysts			P value
		Total (n = 184)	Single-cystic (n = 100)	Multiple-cystic (n = 84)	
NAD <sup>+</sup> (μmol/L)	31.7 ± 5.4	30.3 ± 5.1	30.1 ± 5.1	30.5 ± 5.0	0.002
Age (y)	43.9 ± 12.4	40.8 ± 8.2	40.2 ± 8.5	41.4 ± 8.0	< 0.001
Age at menarche (y)	13.9 ± 1.5	13.7 ± 1.3	13.6 ± 1.3	13.7 ± 1.2	0.01
Age at menopausal (y)	49.9 ± 3.9	50.8 ± 3.0	50.7 ± 3.3	50.7 ± 2.9	0.26
Body mass index (N, %)					0.02
< 24 kg/m <sup>2</sup>	286 (59.5)	128 (69.6)	75 (75.0)	53 (63.1)	
≥ 24 kg/m <sup>2</sup>	195 (40.5)	56 (30.4)	25 (25.0)	31 (36.9)	
Education level (N, %)					0.01
Middle school or below	161 (33.9)	43 (23.4)	14 (13.2)	23 (30.3)	
College or above	318 (66.1)	141 (76.6)	63 (81.8)	53 (69.7)	
Physical activity (N, %)					0.15
Inactive	128 (28.7)	60 (33.5)	24 (32.0)	27 (37.0)	
Moderate active	78 (17.5)	38 (21.2)	20 (26.7)	13 (17.8)	
Active	240 (53.8)	81 (45.3)	31 (41.3)	33 (45.2)	
Hypertension (N, %)	89 (18.9)	25 (13.7)	5 (6.5)	14 (18.7)	0.111
Dyslipidemia (N, %)	206 (42.8)	48 (26.1)	18 (23.4)	22 (29.0)	< 0.001
SBP (mmHg)	122.3 ± 18.0	117.7 ± 15.2	115.3 ± 13.5	120.5 ± 16.7	0.003
DBP (mmHg)	75.6 ± 11.6	74.7 ± 12.6	73.1 ± 12.5	76.6 ± 12.7	0.38
RBC (10 <sup>12</sup> /L)	4.4 ± 0.3	4.4 ± 0.4	4.4 ± 0.3	4.5 ± 0.4	0.31
LDL-C (mmol/L)	2.2 ± 0.7	2.1 ± 0.8	2.0 ± 0.8	2.2 ± 0.7	0.03
HDL-C (mmol/L)	1.3 ± 0.3	1.4 ± 0.3	1.3 ± 0.3	1.4 ± 0.2	0.12
TG (mmol/L)	1.5 ± 1.0	1.2 ± 0.7	1.1 ± 0.5	1.3 ± 0.8	< 0.001
TC (mmol/L)	5.2 ± 1.0	4.9 ± 0.9	4.8 ± 0.9	5.0 ± 0.8	0.002
ALT (U/L)	27.1 ± 23.9	24.3 ± 14.8	22.7 ± 13.5	26.3 ± 16.1	0.07
AST (U/L)	24.6 ± 15.9	23.3 ± 8.0	22.4 ± 7.1	24.3 ± 9.0	0.16

**Note.** ALT, alanine aminotransferase; AST, aspartate aminotransferase; DBP, diastolic blood pressure; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; NAD<sup>+</sup>, nicotinamide adenine dinucleotide; RBC, red blood cell; SBP, systolic blood pressure; TC, total cholesterol; TG, triglycerides. Data are shown as frequency and percentage for categorical variables and mean ± standard deviation for continuous variables.

**Supplementary Table S2.** Association of whole blood NAD<sup>+</sup> contents with nabothian cysts in each subgroup

Nabothian cysts	Age		Body Mass Index		Systolic Blood Pressure		Dyslipidemia		P for interaction
	Adjusted OR (95% CI)		Adjusted OR (95% CI)		Adjusted OR (95% CI)		Adjusted OR (95% CI)		
	< 40 y (n = 302)	≥ 40 y (n = 363)	< 24 kg/m <sup>2</sup> (n = 414)	≥ 24 kg/m <sup>2</sup> (n = 251)	<120 mmHg (n = 377)	≥ 120 mmHg (n = 288)	Yes (n = 254)	No (n = 411)	
Total	1.95	1.99	1.53	3.69	2.03	2.52	2.04	2.05	
Q1	(0.93, 4.11)	(0.96, 4.11)	(0.81, 2.89)	(1.51, 9.00)	(1.05, 3.92)	(1.12, 5.69)	(1.10, 3.82)	(0.81, 5.18)	
Q2	0.98	1.21	1.19	0.88	1.50	0.82	1.26	0.88	
Q3	(0.45, 2.13)	(0.57, 2.59)	(0.62, 2.26)	(0.30, 2.54)	(0.77, 2.92)	(0.33, 2.01)	(0.65, 2.43)	(0.32, 2.38)	0.53
Q4	1.41	1.09	1.11	1.52	1.80	1.02	1.14	1.40	
Q3	(0.65, 3.05)	(0.52, 2.28)	(0.58, 2.11)	(0.58, 3.98)	(0.91, 3.56)	(0.45, 2.32)	(0.59, 2.20)	(0.57, 3.44)	
Q4	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	
Single-cystic	1.55	1.47	1.17	4.04	1.58	2.61	1.43	2.20	
Q1	(0.65, 3.70)	(0.55, 3.95)	(0.55, 2.47)	(1.10, 14.84)	(0.74, 3.38)	(0.84, 8.14)	(0.67, 3.03)	(0.63, 7.73)	
Q2	0.97	1.08	1.02	0.97	1.42	0.70	1.08	0.87	
Q3	(0.40, 2.33)	(0.38, 3.02)	(0.48, 2.15)	(0.20, 4.68)	(0.66, 3.03)	(0.18, 2.73)	(0.50, 2.33)	(0.22, 3.47)	0.74
Q4	0.74	1.02	0.63	1.98	1.05	1.08	0.70	1.43	
Q3	(0.27, 2.02)	(0.38, 2.72)	(0.28, 1.42)	(0.50, 7.88)	(0.45, 2.46)	(0.33, 3.54)	(0.31, 1.61)	(0.41, 5.06)	
Q4	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	
Multiple-cystic	3.23	2.62	2.62	3.68	3.66	2.48	3.77	1.82	
Q1	(1.02, 10.34)	(1.02, 6.76)	(0.98, 7.02)	(1.24, 10.89)	(1.21, 11.05)	(0.90, 6.80)	(1.46, 9.69)	(0.53, 6.25)	
Q2	0.96	1.41	1.51	0.83	1.96	0.91	1.66	0.85	
Q3	(0.26, 3.57)	(0.51, 3.88)	(0.64, 4.21)	(0.22, 3.15)	(0.62, 6.24)	(0.30, 2.72)	(0.59, 4.63)	(0.22, 3.27)	0.36
Q4	3.41	1.24	2.39	1.27	4.56	1.06	2.32	1.44	
Q3	(1.10, 10.57)	(0.46, 3.37)	(0.92, 6.24)	(0.37, 4.38)	(1.52, 13.67)	(0.37, 2.99)	(0.88, 6.13)	(0.44, 4.77)	
Q4	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	

**Note.** OR, odds ratio; CI, confidence interval; Ref, reference. Adjustments made for age, body mass index, history of dyslipidemia, systolic blood pressure, triglyceride level, and number of red blood cells.