

Table 1: Socio demographic, behavioral, anthropometric in comparison of H-*Pylori* positive and negative stool antigen results among healthy adults in Jimma City, Southwest Ethiopia, 2019(n=865) (Pearson's Chi-Square Test)

Variables	H-pylori antigen test results		Total (N, %)	p-value
	Negative (N, %)	Positive (N, %)		
Sex of the participants				0.447
Female	329(38.0)	86(10.0)	415(48)	
Male	366(42.3)	84(9.7)	450(52)	
Age categories				0.960
<35	304(35.1)	74 (8.6)	378(43.7)	
≥35	391(45.2)	96(11.1)	487(56.3)	
currently smoking				<0.001
No	650(75.1)	144(16.6)	794(91.8)	
yes	45(5.2)	26(3.0)	71(8.2)	
Currently chewing khat				<0.001
No	474(54.8)	50(5.8)	550(63.6)	
yes	221(25.5)	120(13.9)	315(36.4)	
Currently drinking alcohol				<0.001
No	635(73.4)	80(9.2)	715(82.6))	
yes	60(7.0)	90(10.4)	150(17.4)	
In hot drink of tea and coffee trend				<0.001
No	199()	20(2.7)	219(25.3)	
Yes	496(57.7)	150(17.0)	646(74.7)	
Health seeking behavior				0.052
Good	456(52.7)	98(11.3)	554(64.0)	
Poor	239(27.6)	72(8.4)	311(34.0)	
Physical activity				0.025
Yes	260(30.1)	48(5.5)	308(35.6)	
No	435(50.3)	122(14.1)	557(63.4)	
Sedentary life				<0.001
<4 hours/ day	300(34.7)	44(5.1)	344(39.8)	
≥4 hours/day	395(45.7)	126(14.5)	521(60.2)	
Waist Circumferences				<0.001
Non-central obese	594(68.7)	56(6.5)	650(75.2)	
Central Obese	101(11.7)	114(13.1)	215(24.8)	
BMI				0.217
Underweight <18.5	106(12.2)	21(2.4)	127(14.7)	
Normal [18.5 - 24.99]	399(46.1)	101(11.7)	500(57.8)	
Over weight[25 - 29.99]	125(15.5)	39(4.5)	164(19.0)	
Obese ≥30	65(7.5)	9(1.1)	74(8.5)	

Economy Wealth index				0.282
Low	284(52.8)	82(9.5)	366(62.3)	
Middle	337(39.0)	73(8.5)	410(47.5)	
Higher	74(8.5)	15(1.7)	89(10.2)	
What type of oil or fat is most often used for meal preparation in your home?				<0.001
Vegetable oil'	602(69.6)	58(6.7)	660(76.3)	
Butter or ghee, margarine	83(9.6)	108(12.5)	191(22.1)	
None in particular	10(1.1)	4(0.5)	14(1.6)	
How many people are currently living in your household, including yourself?				0.834
1-2	110(12.7)	30(3.5)	140(16.2)	
3-4	261(30.2)	64(7.4)	325(37.6)	
≥5	322(37.2)	78(9.0)	400(46.2)	
Dietary diversity score				0.772
Low	84(9.7)	24(2.8)	108(12.5)	
Middle	344(39.8)	82(9.5)	426(49.2)	
High	267(30.8)	64(7.4)	331(38.3)	
How often do you add salt or a salty sauce such as soya sauce to your food?				0.828
Always	639(73.9)	158(18.3)	797(92.1)	
Often	24(2.7)	6(0.7)	30(3.5)	
Some times	32(3.7)	6(0.7)	38(4.4)	
Upper abdominal pains (FD)				<0.001
No	505(58.4)	43(5.0)	548(63.4)	
Yes	192(22.0)	128(14.7)	320(36.6)	
Lower abdominal pains(IBS)				0.391
No	452(52.3)	112(14.1)	564(65.2)	
Yes	243(28.1)	58(6.7)	301(34.8)	
FGIDs(upper and lower co-occurrence of the pains)				<0.001
No	635(73.4)	62(7.3)	697(	
Yes	60(7.0)	108(12.5)	168	

Table 2: *H. pylori* infection and dyslipidemia among healthy adults in Jimma City, Southwest Ethiopia, 2019(n=865) (*Pearson's Chi-Square Test*)

Variables	H-pylori stool antigen test		Total (N, %)	P. value
	Negative (n, %)	Positive (n, %)		
Total cholesterol (mg/dl)				
Normal	693(80.2)	77(8.9)	770(89.0)	<0.001
Hypercholesterolemia	2(0.2)	93(10.7)	95(11.0)	
Triglyceride(mg/dl)				<0.001
Normal	543(62.8)	81(9.3)	624(72.1)	
Hypertriglyceridemia	152(17.6)	89(10.3)	241(27.9)	
LDL-c (mg/dl)				<0.001
Normal	527(61.0)	73(8.4)	600(69.4)	
Increased	168(19.4)	97(11.2)	265(30.6)	
HDL-c(mg/dl)				<0.001
Normal	391(45.2)	67(7.7)	458(52.9)	
Decreased	304(35.2)	103(11.9)	407(47.1)	
Dyslipidemia				
No	668(77.2)	62(7.2)	730(84.4)	<0.001
Yes	27(3.2)	108(12.5)	135(15.6)	

Table 3: Bivariate and multivariate regression analysis to identify risk factors associated with H. Pylori infection among healthy adults in Jimma City , Southwest Ethiopia 2019(n=865)

Variables	H-pylori antigen test		COR,95%CI	P- value	AOR,95%CI	P-value
	Negative	Positive				
Khat Chewing						
No	500	50	1		1	0.029
yes	195	120	3.60(2.50- 5.18)	<0.001	1.83(1.06 - 3.13)	
Currently drinking alcohol						
No	635	80	1		1	0.19
Yes	60	90	1.61(1.15 - 2.25)	0.006	0.70(0.41-1.19)	
In hot drink of tea, coffee and others trend						
No	199	20	1		1	0.001
Yes	496	150	4.83(1.23 - 9.73)	<0.001	3.85(1.70 - 8.71)	
Type of oil or fat often used						
Vegetable oil	602	58	1		1	0.024
Butter or ghee, margarine	83	108	2.8(0.58-12.04)		2.46(0.55 - 11.03)	
None in particular	10	4	0.54(0.36 - 1.13)		0.58(0.36 - 0.93)	
Physical activity						
Yes	260	48	1		1	0.019
No	435	122	2.14(1.49 - 3.09)	0.000	1.36(0.85 - 2.16)	
Total cholesterol						
Normal	693	77	1		1	<0.001
Higher	2	93	9.73(6.14- 15.42)	<0.001	4.33(2.33 - 8.06)	
Triglyceride(mg/dl)						
Normal <150	543	81	1		1	<0.001
Elevated ≥150	152	89	3.96(2.79 - 5.62)	<0.001	2.50(1.59 -3.92)	
Waist circumference(cm)						
Non obese	594	56	1		1	<0.001

Central obese	101	114	2.14(1.48 -3.09)	<0.001	3.86(2.00- 7.48)	
LDL-c (mg/dl)						
<100 Normal	527	73	1		1	<0.001
>=100 High	168	97	5.39(3.75 - 7.74)	<0.001	2.50(1.59 -3.92)	
HDL-c(mg/dl)						
Desirable ≥ 40 for male and ≥ 50 for women	391	67	1		1	0.042
Low <40(mal) and <50 for woman	304	103	1.98(1.40 - 2.78)	<0.001	1.50(0.96-2.32)	
Dyslipidemia						
No	668	62	1		1	0.001
Yes	27	108	6.36(4.27 - 9.26))	<0.001	5.11(4.27 - 8.46)	
Hypertension						
No	599	74			1	0.022
yes	96	96	1.78(0.83 -2.69)	<0.001	1.34(0.81 -2.17)	
Upper Abdominal pain						
No	509	42	1		1	<0.001
yes	192	128	8.16(5.54-12.01)	<0.001	7.23 (5.23-11.01)	
Co-occurrences of upper and lower abdominal pains						
No	635	62	1	<0.001	1	<0.001
yes	60	108	6.36(4.37 - 9.26)		5.21(4.27 - 8.56)	