

Supplementary Table S1: *Helicobacter pylori* antibody titre in patients suffering from gastroduodenal ulcer and gastritis is determined by thin layer immunoassay method

S.N o	SAMPL E CODE	C 1	C 2	1: 2	1: 4	1: 8	1:1 6	1:3 2	1:6 4	1:12 8	1:25 6	1:51 2	1:102 4	1:204 8	1:409 6	1:819 2	1:1638 4
1.	A1	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.	A2	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	2	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
4.	3	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
5.	5	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
6.	6	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
7.	7	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
8.	11	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
9.	12	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
10.	13	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
11.	14	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
12.	15	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
13.	16	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
14.	17	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
15.	18	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
16.	19	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
17.	21	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
18.	22	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
19.	23	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
20.	24	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
21.	25	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
22.	26	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
23.	27	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
24.	28	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
25.	29	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
26.	34	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
27.	35	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
28.	36	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
29.	37	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
30.	38	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
31.	39	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-

32.	40	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
33.	41	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
34.	43	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
35.	44	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
36.	48	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
37.	49	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
38.	50	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
39.	51	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
40.	52	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
41.	53	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
42.	54	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
43.	55	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
44.	56	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
45.	59	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
46.	60	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
47.	61	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
48.	67	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
49.	69	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
50.	70	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
51.	71	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
52.	74	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
53.	75	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
54.	77	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
55.	78	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
56.	80	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
57.	86	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
58.	87	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
59.	88	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
60.	89	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
61.	92	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
62.	95	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
63.	97	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
64.	99	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
65.	10s	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-

[illegible]

168.	92t	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
169.	95t	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
170.	97t	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
171.	99t	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
172.	10st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
173.	11st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
174.	12st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
175.	13st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
176.	14st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
177.	18st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
178.	19st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
179.	19st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
180.	1st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
181.	20st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
182.	21st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
183.	22st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
184.	23st	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
185.	25st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
186.	26st	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-
187.	2st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
188.	31st	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-
189.	34st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
190.	39st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
191.	3st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
192.	40st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
193.	41st	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
194.	42st	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-
195.	43st	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-
196.	44st	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
197.	45st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
198.	4st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
199.	50st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
200.	52st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
201.	56st	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-

202.	57st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
203.	59st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
204.	60st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
205.	65st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
206.	67st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
207.	68st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
208.	6st	-	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-
209.	82st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
210.	86st	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-
211.	87st	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-
212.	88st	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-
213.	97st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
214.	9st	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Keys:

C1 = control I

NEGATIVE CONTROL (serum + PBS)

C2 = control II POSITIVE CONTROL (serum + vaccine)

A1=NORMAL PERSON 1

A2=NORMAL PERSON 2

+ = water droplet formation

- = no water droplet formation

Supplementary Table S2: Different type of negative and positive used to develop thin layer immunoassay.

S. No	Control samples	
	Negative controls	Positive controls
1.	<i>H. pylori</i> antigens = 100ul of 0.02025mg/ml	Human gastric patients serum = 100ul of 0.36mg/ml
2.	Phosphate Buffer saline (washing solution) = 100ul	
3.	Secondary antibody = 100ul	<i>H. pylori</i> immunized rabbit serum = 100ul of 0.36mg/ml
4.	Control normal rabbit serum = 100ul of 0.24mg/ml	

5.	Control normal sheep Serum = 100ul of 0.32mg/ml	<i>H. pylori</i> immunized mice serum = 100ul of 0.36mg/ml
6.	Human serum of normal person = 100ul of 0.1mg/ml	

Supplementary Table S3: Anti-*H. pylori* IgM antibody titer values in gastroduodenal ulcer and gastritis patients by IgM commercial kit ELISA (k_M ELISA)[30].

Negative controls (Optical Density)	0.015	Positive controls (Optical Density)	1.405
	0.014		1.157
	0.0106		1.074
Mean \pm SD	0.013 \pm 0.002	Mean \pm SD	1.212 \pm 0.172
Cutoff value = Mean of negative control + 0.250			0.263
Prevalence of <i>H. pylori</i> by IgM ELISA kit			75 % (0.921 \pm 0.633)

Supplementary Table S4: Anti-*H. pylori* IgG antibody titer values in gastroduodenal ulcer and gastritis patients by IgG commercial kit ELISA (k_G ELISA)[30]

Negative controls (Optical Density)	0.0037	Positive controls (Optical Density)	1.006
	0.0032		1.179
	0.0038		1.083
Mean \pm SD	0.003 \pm 0.0003	Mean \pm SD	1.089 \pm 0.0866
Cutoff value = Mean of negative control + 0.250			0.253
Prevalence of <i>H. pylori</i> by IgG ELISA kit			94 % (2.144 \pm 0.997)