

**S2 Table. Basic characteristics of patients with seropositive and serodiscrepant samples**

Clinical characteristics		Swab samples (n = 411)		Whole-blood samples (n = 404)			
		PCR positive (314; 257 SP, 57 SD)	PCR negative (97; 72 SP, 25 SD)	PCR positive (132; 112 SP, 20 SD)	PCR negative (272; 210 SP, 62 SD)		
<b>Mean age</b>	All	All	35.7 (0 – 71)	34.7 (16 – 71)	35.4 (0 – 71)	36.6. (16 – 77)	
		Men	SP	36 (0 – 71)	35.1 (16 – 71)	35.9 (0 – 71)	36.3 (16 – 67)
			SD	34.4 (17 – 61)	33.2 (23 – 46)	32.5 (18 – 43)	37.5 (20 – 77)
	Women	All	27.5 (0 – 53)	32 (18 – 61)	31.3. (20 – 56)	31.9 (0 – 73)	
		SP	27.1 (0 – 53)	26.4 (18 – 30)	30.1 (20 – 56)	29.7 (0 – 53)	
		SD	30.4. (20 – 38)	36.5. (20 – 61)	51 (51)*	35.8 (21 – 73)	
<b>Sex, n (%)</b>	Men	All	275 (87.6)	79 (81.4)	114 (86.4)	223 (82)	
		SP	223 (86.8)	64 (88.9)	95 (84.8)	178 (84.8)	
		SD	52 (91.2)	15 (60)	19 (95)	45 (72. 6)	
	Women	All	39 (12.4)	18 (18.6)	18 (13.6)	48 (17.6)**	
		SP	34 (13.2)	8 (11.1)	17 (15.2)	31 (14.8)***	
		SD	5 (8.8)	10 (40)	1 (5)	17 (27.4)	
<b>Serology</b>	TPPA/ TPHA	All	291 P, 6 N, 17 n.d.	80 P, 13 N, 4 n.d.	117 P, 3 N, 12 n.d.	252 P, 10 N, 10 n.d.	
		SP	245 P, 5 N, 12 n.d.	67 P, 2 N, 3 n.d.	112 P, 10 n.d.	202 P, 1 N. 7 n.d.	
		SD	46 P, 1 N, 5 n.d.	13 P, 11N, 1 n.d.	15 P, 3 N. 2 n.d.	50 P, 9 N, 3 n.d.	
	RPR	All	259 P, 55 N average log: -3.26	72 P, 23 N, 2 n.d. average log: -2.77	112 P, 18 N, 2 n.d. average log: - 3.63	210 P, 58 N, 4 n.d. average log: -3.08	
		SP	257 P, 5 N average log: -3.25	70 P, 2 n.d. average log: -3.78	110 P, 2 n.d. average log: - 4.25	206 P, 4 n.d. average log: -3.99	
		SD	2 P, 50 N average log: -0.07	2 P, 23 N average log: -0.08	2 P, 18 N average log: - 0.30	4 P, 58 N average log: -0.05	
	IgM	All	285 P, 22 N, 6 n.d.	71 P. 23 N, 3 n.d.	116 P, 11 N, 5 n.d.	195 P, 66 N, 11 n.d.	
		SP	246 P, 12 N, 3 n.d.	59 P, 10 N, 3 n.d.	104 P, 4 N, 4 n.d.	189 P, 24 N, 10 n.d.	
		SD	39 P, 10 N, 3 n.d.	12 P, 13N	12 P, 7 N, 1 n.d.	6 P, 42 N, 1 n.d.	
	IgG	All	301 P, 5 N, 8 n.d.	85 P, 9 N, 3 n.d.	116 P, 4 N, 12 n.d.	245 P, 15 N, 12 n.d.	
		SP	256 P, 2 N, 4 n.d.	69 P, 3 n.d.	104 P, 8 n.d.	197 P, 2 N, 11 n.d.	
		SD	45 P, 3 N, 4 n.d.	16 P, 9 N	12 P, 4 N, 4 n.d.	48 P, 13 N, 1 n.d.	
<b>Syphilis stage</b>	primary	All	203	41	52	62	
		SP	166	31	40	55	
		SD	37	10	12	7	
	secondary	All	42	13	39	57	
		SP	41	13	39	55	
		SD	1	0	0	2	
	others	All	69	43	41	153	

---

SP	50	28	33	100
SD	19	15	8	53

---

SP – seropositive, SD - serodiscrepant

P – positive, N – negative, n.d. – not determined

\* one woman in age of 51

\*\* unknown sex: 1 (0.4%)

\*\*\* unknown sex: 1 (0.4%)