

Table SI. Comparison of the parameters between neurosyphilis and non-neurosyphilis patients and age- and gender-matched healthy controls.

Parameter	Neurosyphilis	Neurosyphilis matched control	P	Non-neurosyphilis	Non-neurosyphilis matched control	P
Number	87	87	NA	80	80	NA
Age (y)	51.03±13.09	49.53±11.18	0.42	35.20±11.26	34.6±10.30	0.851
Gender (men, %)	54 (62.1)	48 (55.17)	0.98	18 (22.5)	19 (23.8)	1
Peri-WBC (x10 <sup>9</sup> /l)	6.93±2.62	5.89±1.30	0.01	6.83±1.77	5.91±1.24	<0.001
Neutrophil	4.59±2.61	3.45±1.00	<0.001	4.27±1.53	3.50±0.91	<0.001
Lymphocyte	1.58±0.71	1.94±0.48	<0.001	1.98±0.72	1.95±0.50	0.741
NLR (median, IQR)	2.87 (2.04-3.89)	1.74 (1.36-2.21)	<0.001	1.89 (1.45-3.38)	1.87 (1.43-2.22)	0.01
ESR <sup>a</sup>	16.28±16.98	4.12±3.38	<0.001	6.07±4.24	4.12±3.38	0.034
CRP <sup>b</sup>	3.95±4.36	3.32±2.25	0.418	3.38±1.34	3.32±2.25	0.531

Values are expressed as the mean ± standard deviation, n (%) or the median (interquartile range). <sup>a</sup>Determined in 67 of 87 patients with NS and 52 of 80 patients with non-NS. <sup>b</sup>Determined in 42 of 87 patients with NS and 36 of 80 patients with non-NS. NA, no available; NLR, neutrophil-to-lymphocyte ratio; serum-TRUST, serum toluidine red unheated serum test; CSF, cerebrospinal fluid; WBC, white blood cell; ESR, erythrocyte sedimentation rate; CRP, C-reactive protein; NS, neurosyphilis.

Table SII. Changes in parameters after treatment with penicillin at 6-month follow up of 24 NS patients.

Parameter	Pretreatment	Post-treatment at 6-month follow up	P-value
Serum TRUST (median, IQR)	1:16 (1:8-1:32)	1:8 (1:4-1:16)	<0.001
CSF-WBC	14.71±13.18	7.88±7.32	0.027
CSF-protein (mg/dl)	69.01±50.17	47.12±23.77	0.004
CSF-TRUST (median, IQR)	1:2 (0-1:2)	0 (0.0)	0.001
Peri-WBC (x10 <sup>9</sup> /l)	6.90±1.85	6.28±1.71	0.284
Neutrophil	4.41±1.75	3.83±1.05	0.191
Lymphocyte	1.68±0.67	1.85±0.75	0.185
NLR (median, IQR)	2.78 (1.68-3.56)	2.11 (1.65-2.88)	0.025

Values are expressed as the mean ± standard deviation, n (%) or the median (interquartile range). NLR, neutrophil-to-lymphocyte ratio; serum-TRUST, serum toluidine red unheated serum test; CSF, cerebrospinal fluid; WBC, white blood cell.