

Supplementary

Table S1 Univariate analysis of baseline factors associated with Western blot band changes (p66, p51, p41, p39, p31, and p24)

Variable	p66 <i>P</i>	p51 <i>P</i>	p41 <i>P</i>	p39 <i>P</i>	p31 <i>P</i>	p24 <i>P</i>
Gender (Overall)	0.822	0.878	> 0.999	0.130	0.683	>0.999
Gender: Male	–	–	–	–	–	–
Gender: Female	–	–	–	–	–	–
Marital Status (Overall)	0.783	0.130	0.787	0.798	0.490	0.600
Marital: Unmarried	–	–	–	–	–	–
Marital: Married	–	–	–	–	–	–
Marital: Divorced/Widowed	–	–	–	–	–	–
Age (Overall)	0.848	0.470	0.472	0.438	0.593	0.129
Age: ≤29	–	–	–	–	–	–
Age: 30-39	–	–	–	–	–	–
Age: 40-49	–	–	–	–	–	–
Age: 50-59	–	–	–	–	–	–
Age: ≥60	–	–	–	–	–	–
Transmission (Overall)	0.908	0.222	0.137	0.970	0.346	0.341
Homosexual	–	–	–	–	–	–
Heterosexual	–	–	–	–	–	–
Education (Overall)	0.251	0.131	0.799	0.673	0.623	0.104
Education: College and above	–	–	–	–	–	–
Education: High school	–	–	–	–	–	–
Education: Junior high school	–	–	–	–	–	–
Education: Primary school and below	–	–	–	–	–	–
Treatment Duration (Overall)	0.601	0.159	0.663	0.527	0.267	0.105
Treatment: 1 year	–	–	–	–	–	–
Treatment: 3 years	–	–	–	–	–	–
Treatment: 5 years	–	–	–	–	–	–
Treatment: 10 years	–	–	–	–	–	–

Data are overall *P* values derived from Chi-square or Fisher's exact tests for each categorical variable, comparing differences in band disappearance or appearance across all subgroups within the variable.

Table S2 Multivariable logistic regression analysis for non-significant Western blot bands (p66, p51, p41, p31 and p24)

Variable	p66 OR (95% CI)	p66 P	p51 OR (95% CI)	p51 P	p41 OR (95% CI)	p41 P	p31 OR (95% CI)	p31 P	p24 OR (95% CI)	p24 P
Marital: Unmarried	NE	NE	1.139 (0.251, 5.164)	0.866	1.133 (0.059, 21.767)	0.934	2.566 (0.431, 15.261)	0.3	NE	NE
Marital: Married	0.692 (0.111, 4.304)	0.693	2.411 (0.854, 6.808)	0.097	2.079 (0.169, 25.542)	0.567	3.294 (0.834, 13.014)	0.089	0.513 (0.039, 6.766)	0.612
Age: ≤29	NE	NE	0.760 (0.129, 4.483)	0.762	NE	NE	0.495 (0.068, 3.623)	0.489	NE	NE
Age: 30-39	NE	NE	0.327 (0.058, 1.840)	0.205	NE	NE	0.179 (0.021, 1.533)	0.116	NE	NE
Age: 40-49	NE	NE	0.546 (0.113, 2.642)	0.452	NE	NE	0.684 (0.115, 4.081)	0.677	NE	NE
Age: 50-59	NE	NE	1.047 (0.214, 5.112)	0.955	NE	NE	0.869 (0.121, 6.245)	0.889	NE	NE
Education: Primary school and below	NE	NE	0.158 (0.015, 1.677)	0.126	NE	NE	NE	NE	NE	NE
Education: Junior high school	0.17 (0.014, 2.006)	0.159	1.405 (0.467, 4.224)	0.545	3.599 (0.286, 45.334)	0.322	0.852 (0.235, 3.091)	0.807	NE	NE
Education: High school	1.406 (0.295, 6.693)	0.668	0.418 (0.112, 1.553)	0.193	1.745 (0.146, 20.868)	0.66	0.974 (0.295, 3.218)	0.966	NE	NE
Treatment: 1 year	NE	NE	0.122 (0.015, 1.017)	0.052	NE	NE	NE	NE	NE	NE
Treatment: 3 years	0.763 (0.095, 6.157)	0.799	1.112 (0.391, 3.164)	0.842	2.944 (0.261, 33.231)	0.383	1.170 (0.331, 4.137)	0.807	0.439 (0.034, 5.593)	0.526
Treatment: 5 years	1.193 (0.204, 6.988)	0.845	0.692 (0.241, 1.991)	0.495	1.292 (0.101, 16.508)	0.844	1.058 (0.313, 3.583)	0.928	NE	NE

NE, not estimable. Multivariable logistic regression models were adjusted for all listed variables. The reference groups were: married status—divorced/widowed; education level—college degree and above; treatment duration — 10 years; age—≥60 years. Due to extremely sparse event counts (e.g., p66: n=9; p24: n=4), the model encountered quasi-complete separation in several strata; these cells are denoted as NE. For estimable parameters, P-values are reported as <0.001 or >0.999 where applicable.