**S4 Table:** Negative binomial regression models to assess the relationship between cell-associated US HIV RNA and Immune Checkpoints expression on CD4+ T cells.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Outcome | Predictora | Unadjusted | Adjusted for Current CD4 | Adjusted for Nadir CD4 |
| **Result****(95%CI) c, d** | **p-valuee** | **Result****(95%CI)** | **p-value** | **Result****(95%CI)** | **p-value** |
| US HIV RNAb | PD1+  |  1.01 (0.73 to 1.39) | 0.980 | 0.98 (0.64 to 1.51) | 0.940 | 0.96 (0.69 to 1.35) | 0.830 |
|  | CTLA-4+  | 1.08 (0.56 to 2.08) | 0.820 | 1.07 (0.55 to 2.07) | 0.840 | 1.12 (0.58 to 2.17) | 0.740 |
|  | LAG-3+  | 0.96 (0.57 to 1.61) | 0.870 | 0.95 (0.52 to 1.72) | 0.860 | 0.94 (0.56 to 1.57) | 0.810 |
|  | TIGIT+  | 1.10 (0.67 to 1.79) | 0.710 | 1.09 (0.65 to 1.84) | 0.750 | 1.08 (0.67 to 1.74) | 0.760 |
|  | TIM-3+ | 1.23 (0.78 to 1.94) | 0.380 | 1.29 (0.80 to 2.08) | 0.300 | 1.24 (0.79 to 1.95) | 0.360 |
|  | CD160+  | 0.85 (0.69 to 1.05) | 0.130 | 0.85 (0.69 to 1.05) | 0.120 | 0.86 (0.70 to 1.06) | 0.160 |
|  | 2B4+  | 0.95 (0.79 to 1.14) | 0.570 | 0.94 (0.79 to 1.12) | 0.480 | 0.95 (0.79 to 1.13) | 0.560 |

a Percentage CD4+ T cells that express Immune Checkpoint Molecules

b US HIV RNA units (copies/million 18S copies)

c 95% CI = 95% confidence interval

d Result interpretation: fold-change in the outcome (marker of HIV persistence) for each two-fold increase in the predictor (Immune Checkpoint Molecules)

e Statistically significant p values are <0.05 and are bold