**S4 Table.** CD4+ T-cell phenotypes in samples from the endocervix and endometrium: (i) percentages in the group with no-gel exposure, (ii) relative effects after exposure to intravaginal N9 or UPG and (iii) relative frequencies, endocervix versus endometrium, in the group with no-gel exposure.For analyses conducted on the logscale, relative effects represent ratios of groups (normal font), whereas for analyses conducted on the decimal scale, relative effects represent differences between groups ***(bold, italic font).***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CD4+ T-Cell phenotype |  | Endocervix | | | Endometrium | | | Cervix:Endom |
| Analysis scale | ***(i) No Gel*** Mean (95% CI) | ***(ii) N9:No Gel*** Mean (95% CI) | ***(ii) UPG:No Gel*** Mean (95% CI) | ***(i) No Gel*** Mean (95% CI) | ***(ii) N9:No Gel*** Mean (95% CI) | ***(ii) UPG:No Gel*** Mean (95% CI) | ***(iii)*** ***No gel*** Mean (95% CI) |
| CD4+/CCR7+ | Log | 46.3  (34.9, 61.4) | 1.01  (0.68, 1.50) | 1.01  (0.76, 1.51) | 11.5  (8.30, 15.9) | 1.31  (0.82, 2.07) | 1.55  (0.97, 2.48) ‡ | 4.02  (2.61, 6.19) † |
| CD4+/CD45RA+ | Log | 11.1  (7.59, 16.1) | 1.28  (0.86, 1.90) | 1.00  (0.67, 1.50) | 3.12  (2.06, 4.72) | 0.81  (0.51, 1.29) | 0.93  (0.57, 1.49) | 3.54  (2.33, 5.40) † |
| CD4+/CCR7-/CD45RA-  (Effector Memory) | Log | 54.7  (49.3, 60.6) | 0.95  (0.83, 1.08) | 0.96  (0.84, 1.10) | 90.1  (80.1, 101) | 0.90  (0.78, 1.05) | 0.93  (0.80, 1.09) | 0.61  (0.53, 0.70) † |
| CD4+/CCR7-/CD45RA+  (Terminally Differentiated Effector) | Log | 3.18  (2.22, 4.54) | 1.20  (0.81, 1.78) | 1.11  (0.74, 1.67) | 2.42  (1.62, 3.60) | 0.72  (0.45, 1.14) | 0.91  (0.56, 1.46) | 1.31  (0.86, 2.01) |
| CD4+/CCR7+/CD45RA-  (Central Memory) | Log | 36.4  (26.8, 49.6) | 0.98  (0.64, 1.50) | 0.98  (0.63, 1.51) | 10.6  (7.44, 15.2) | 1.37  (0.84, 2.25) | 1.59  (0.96, 2.64) ‡ | 3.43  (2.16, 5.44) † |
| CD4+/CCR7+/CD45RA+  (Naïve) | Log | 8.44  (5.88, 12.1) | 1.15  (0.76, 1.76) | 0.98  (0.64, 1.51) | 1.84  (1.23, 2.77) | 1.15  (0.70, 1.87) | 1.03  (0.62, 1.70) | 4.58  (2.92, 7.17) † |
| CD4+/CD38+ | Log | 45.8  (40.5, 51.9) | 1.04  (0.89, 1.21) | 1.02  (0.87, 1.20) | 83.6  (72.5, 96.4) | 0.93  (0.77, 1.12) | 0.94  (0.78, 1.14) | 0.55  (0.46, 0.65) † |
| CD4+/HLADR+ | Log | 5.96  (3.97, 8.97) | 1.30  (0.80, 2.11) | 0.86  (0.52, 1.41) | 29.9  (18.9, 47.4) | 0.81  (0.46, 1.43) | 0.82  (0.46, 1.48) | 0.20  (0.12, 0.34) † |
| CD4+/CD38+HLADR+ | Log | 3.20  (2.11, 4.83) | 1.30  (0.77, 2.18) | 0.98  (0.58, 1.67) | 27.0  (16.8, 43.2) | 0.61  (0.33, 1.13) | 0.75  (0.40, 1.39) | 0.12  (0.07, 0.21) † |
| CD4+/CD38+HLADR- | Log | 42.4  (37.1, 48.5) | 1.00  (0.84, 1.18) | 1.01  (0.85, 1.20) | 59.3  (50.9, 69.2) | 1.00  (0.83, 1.22) | 0.97  (0.79, 1.19) | 0.72  (0.60, 0.86) † |
| CD4+/CD38-HLADR+ | Log | 3.62  (2.76, 4.75) | 1.03  (0.74, 1.42) | 0.85  (0.61, 1.18) | 2.82  (2.08, 3.83) | 1.03  (0.71, 1.50) | 1.00  (0.68, 1.48) | 1.29  (0.91, 1.81) |
| CD4+/X4+ | Decimal | ***44.4***  ***(34.0, 54.8)*** | ***-5.94***  ***(-18.4, 6.55)*** | ***-5.98***  ***(-18.7, 6.76)*** | ***24.6***  ***(12.9, 36.4)*** | ***2.70***  ***(-11.9, 17.3)*** | ***-2.11***  ***(-17.1, 12.9)*** | ***19.8***  ***(6.40, 33.2) ¶*** |
| CD4+/R5+ | Decimal | ***26.4***  ***(16.2, 36.7)*** | ***0.97***  ***(-11.8, 13.8)*** | ***-5.04***  ***(-18.1, 8.05)*** | ***66.2***  ***(54.5, 77.9)*** | ***4.57***  ***(-10.4, 19.5)*** | ***-3.55***  ***(-11.8, 19.0)*** | ***-39.8***  ***(-53.5, -26.0)*** † |
| CD4+/X4+R5+ | Log | 9.07  (5.55, 14.8) | 0.82  (0.44, 1.51) | 0.72  (0.38, 1.35) | 23.0  (13.1, 40.2) | 0.71  (0.35, 1.45) | 0.71  (0.34, 1.49) | 0.39  (0.20, 0.76) ¶ |
| CD4+/X4+R5- | Log | 42.5  (26.1, 69.4) | 0.65  (0.36, 1.16) | 0.59  (0.33, 1.07) ‡ | 5.96  (3.43, 10.3) | 1.14  (0.58, 2.25) | 0.90  (0.44, 1.80) | 7.14  (3.83, 13.3) † |
| CD4+/X4-R5+ | Decimal | ***19.7***  ***(10.3, 29.1)*** | ***0.61***  ***(-11.1, 12.3)*** | ***-3.90***  ***(-15.9, 8.06)*** | ***47.4***  ***(36.8, 58.1)*** | ***5.72***  ***(-7.94, 19.4)*** | ***5.01***  ***(-9.05, 19.1)*** | ***-27.7***  ***(-40.3, -15.1)*** † |

*\*\** *N = 83* Samples analyzed: N9, *n=*29; UPG, *n=*26; No gel, *n=*28; Endocervix (by curettage): *n=48,* Endometrium: *n=35*.

Significance according to Wald chi-square tests: ‡ p < 0.10; \* p < 0.05; ¶ p < 0.01; † p < 0.001.