**S5 Table.** CD8+ 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).***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CD8+ 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) |
| CD8+/CCR7+ | Log | 21.7  (13.1, 35.9) | 1.14  (0.62, 2.08) | 0.70  (0.38, 1.27) | 12.8  (7.20, 22.8) | 0.96  (0.47, 1.94) | 0.52  (0.25, 1.06) ‡ | 1.69  (0.88, 3.25) |
| CD8+/CD45RA+ | Log | 24.8  (17.5, 35.2) | 1.10  (0.74, 1.64) | 1.06  (0.72, 1.57) | 9.57  (6.45, 14.2) | 0.98  (0.62, 1.56) | 1.00  (0.63, 1.60) | 2.59  (1.69, 3.97) † |
| CD8+/CCR7-/CD45RA-  (Effector Memory) | Decimal | ***64.9***  ***(57.3, 72.4)*** | ***-7.27***  ***(-15.6, 1.01)* ‡** | ***4.90***  ***(-3.34, 13.1)*** | ***76.2***  ***(67.8, 84.7)*** | ***2.12***  ***(-7.58, 11.8)*** | ***7.45***  ***(-2.40, 17.3)*** | ***-11.4***  ***(-20.3, -2.40) \**** |
| CD8+/CCR7-/CD45RA+  (Terminally Differentiated Effector) | Log | 12.6  (8.43, 18.8) | 1.17  (0.78, 1.74) | 1.24  (0.83, 1.85) | 7.31  (4.69, 11.4) | 0.98  (0.61, 1.56) | 1.14  (0.70, 1.83) | 1.72  (1.12, 2.66) \* |
| CD8+/CCR7+/CD45RA-  (Central Memory) | Log | 10.7  (6.42, 17.7) | 0.96  (0.52, 1.76) | 0.52  (0.29, 0.96) \* | 14.5  (8.14, 26.0) | 0.80  (0.39, 1.63) | 0.54  (0.26, 1.11) ‡ | 0.73  (0.38, 1.43) |
| CD8+/CCR7+/CD45RA+  (Naïve) | Log | 13.7  (9.12, 20.4) | 0.82  (0.49, 1.38) | 0.82  (0.49, 1.38) | 2.96  (1.85, 4.73) | 1.00  (0.55, 1.84) | 0.76  (0.41, 1.41) | 4.61  (2.61, 8.15) † |
| CD8+/CD38+ | Decimal | ***55.7***  ***(47.2, 64.2)*** | ***-3.74***  ***(-14.1, 6.63)*** | ***-4.81***  ***(-15.1, 5.52)*** | ***88.5***  ***(78.7, 98.2)*** | ***-5.64***  ***(-17.8, 6.50)*** | ***1.72***  ***(-10.6, 14.1)*** | ***-32.7***  ***(-44.0, -21.4)*** |
| CD8+/HLADR+ | Log | 8.35  (6.02, 11.6) | 0.99  (0.69, 1.43) | 1.12  (0.78, 1.62) | 33.1  (22.8, 47.9) | 0.96  (0.63, 1.49) | 1.23  (0.79, 1.91) | 0.25  (0.17, 0.38) † |
| CD8+/CD38+HLADR+ | Log | 6.54  (4.74, 9.02) | 0.92  (0.63, 1.35) | 1.11  (0.75, 1.62) | 33.8  (23.4, 48.8) | 0.71  (0.45, 1.12) | 1.06  (0.67, 1.67) | 0.19  (0.13, 0.29) † |
| CD8+/CD38+HLADR- | Log | 52.7  (42.6, 65.2) | 0.82  (0.64, 1.06) | 0.82  (0.64, 1.05) | 60.2  (47.3, 76.6) | 0.87  (0.65, 1.16) | 0.87  (0.65, 1.17) | 0.88  (0.67, 1.15) |
| CD8+/CD38-HLADR+ | Log | 3.04  (2.27, 4.08) | 1.09  (0.78, 1.54) | 0.92  (0.66, 1.29) | 2.33  (1.67, 3.25) | 1.02  (0.69, 1.52) | 0.90  (0.60, 1.35) | 1.30  (0.90, 1.88) |
| CD8+/X4+ | Log | 32.5  (21.6, 49.0) | 0.90  (0.56, 1.45) | 0.84  (0.52, 1.36) | 20.7  (13.0, 33.1) | 0.83  (0.47, 1.45) | 0.78  (0.44, 1.37) | 1.57  (0.93, 2.63) ‡ |
| CD8+/R5+ | Decimal | ***39.1***  ***(25.6, 52.6)*** | ***3.41***  ***(-12.7, 19.6)*** | ***-2.86***  ***(-19.0, 13.2)*** | ***70.1***  ***(54.7, 85.5)*** | ***8.30***  ***(-10.6, 27.2)*** | ***6.49***  ***(-12.8, 25.7)*** | ***-31.0***  ***(-48.5, -13.4)*** † |
| CD8+/X4+R5+ | Log | 10.1  (5.79, 17.6) | 1.04  (0.51, 2.09) | 0.79  (0.39, 1.59) | 20.7  (10.9, 39.3) | 0.79  (0.35, 1.80) | 0.85  (0.37, 1.97) | 0.49  (0.23, 1.05) ‡ |
| CD8+/X4+R5- | Log | 26.3  (17.7, 39.1) | 0.66  (0.41, 1.06) ‡ | 0.88  (0.54, 1.42) | 3.59  (2.28, 5.65) | 1.05  (0.59, 1.84) | 0.85  (0.48, 1.51) | 7.33  (4.34, 12.4) † |
| CD8+/X4-R5+ | Decimal | ***32.1***  ***(21.0, 43.1)*** | ***-2.63***  ***(-15.3, 10.1)*** | ***-4.79***  ***(-17.4, 7.84)*** | ***52.2***  ***(39.7, 64.7)*** | ***10.3***  ***(-4.52, 25.2)*** | ***7.50***  ***(-7.60, 22.6)*** | ***-20.1***  ***(-33.9, -6.36)*** ¶ |

\*\* N = 81 samples analyzed: N9, n=28; UPG, n=27; No gel, n=26; Endocervix (by curettage): n=47, Endometrium: n=34.

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