**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.