**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.