

Table S3.1

CD3 cells distribution for Vag Biopsy FBS/DMSO specimen comparing BV positive vs negative

| Characteristic | Expected | | | BV | | |
|----------------|----------|---------|-----|-------------|----------|-----|
| | Max N | Missing | N | BV Positive | Negative | |
| CD3- | 197 | | 3 | 194 | 60 | 134 |
| CD4_ofCD45 | 197 | | 23 | 174 | 50 | 124 |
| Treg_of CD3 | 197 | | 147 | 50 | 15 | 35 |
| Treg_of CD4 | 197 | | 147 | 50 | 15 | 35 |
| Treg_ofCD45 | 197 | | 147 | 50 | 15 | 35 |
| Tconv_of CD3 | 197 | | 40 | 157 | 42 | 115 |
| Tconv_of CD45 | 197 | | 40 | 157 | 42 | 115 |
| CD8_of CD45 | 197 | | 25 | 172 | 49 | 123 |

A regression model estimating the association of BV status (Positive vs Negative) with CD3 cells' concentration from Vag Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| CD3 cells | Overall | BV | | Unadjusted Beta | Unadjusted p-value | Adjusted Beta | Adjusted p-value |
|------------|-------------------|-------------------|-------------------|-----------------|--------------------|---------------|------------------|
| | | Negative | BV Positive | | | | |
| live CD45+ | 0.88 (0.30, 1.99) | 0.89 (0.36, 2.07) | 0.75 (0.13, 1.75) | -0.19 | 0.158 | -0.21 | 0.1762 |
| CD3+ | 78 (64, 88) | 77 (63, 87) | 83 (70, 89) | 4.1 | 0.0878 | 4.87 | 0.0485 |
| CD3- | 20 (11, 35) | 22 (12, 35) | 17 (11, 31) | -3.15 | 0.1591 | -3.79 | 0.1019 |
| CD4_ofCD45 | 32 (22, 42) | 34 (24, 42) | 29 (22, 41) | -3 | 0.24 | -2.77 | 0.3027 |

| | | | | | | | |
|---------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| Treg_of CD3 | 1.75 (1.04, 2.85) | 1.82 (1.18, 3.17) | 1.66 (0.95, 2.40) | -0.49 | 0.2534 | -0.57 | 0.0934 |
| Treg_of CD4 | 3.64 (2.01, 5.54) | 3.89 (2.23, 6.48) | 3.57 (1.83, 4.73) | -0.64 | 0.4261 | -0.79 | 0.2904 |
| Treg_of CD45 | 1.56 (0.90, 2.26) | 1.56 (0.99, 2.52) | 1.41 (0.81, 2.02) | -0.34 | 0.317 | -0.47 | 0.1427 |
| Tconv_of CD3 | 40 (29, 53) | 44 (32, 54) | 32 (24, 47) | -7.3 | 0.0322 | -7.96 | 0.018 |
| Tconv_of CD45 | 30 (21, 39) | 31 (22, 40) | 27 (21, 36) | -2.8 | 0.2631 | -2.86 | 0.2282 |
| CD8_of CD45 | 32 (21, 45) | 30 (19, 42) | 38 (25, 55) | 8.5 | 0.0037 | 8.51 | 0.0041 |

Table S3.2

CD3 cells distribution for EctoCx Biopsy FBS/DMSO specimen comparing BV positive vs negative

| Characteristic | Expected | | N | BV Positive | | BV Negative | |
|----------------|----------|---------|-----|-------------|----|-------------|--|
| | Max N | Missing | | | | | |
| CD3- | 197 | | 1 | 196 | 59 | 137 | |
| CD4_ofCD45 | 197 | | 19 | 178 | 52 | 126 | |
| Treg_of CD3 | 197 | | 140 | 57 | 16 | 41 | |
| Treg_of CD4 | 197 | | 140 | 57 | 16 | 41 | |
| Treg_ofCD45 | 197 | | 140 | 57 | 16 | 41 | |
| Tconv_of CD3 | 197 | | 31 | 166 | 47 | 119 | |
| Tconv_of CD45 | 197 | | 31 | 166 | 47 | 119 | |
| CD8_of CD45 | 197 | | 18 | 179 | 53 | 126 | |

A regression model estimating the association of BV status (Positive vs Negative) with CD3 cells' concentration from EctoCx Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| CD3 cells | Overall | BV | | Unadjusted Beta | Unadjusted p-value | Adjusted Beta | Adjusted p-value |
|------------|----------------|----------------|----------------|-----------------|--------------------|---------------|------------------|
| | | Negative | BV Positive | | | | |
| live CD45+ | 1.1 (0.3, 2.9) | 1.1 (0.3, 2.6) | 1.0 (0.2, 3.0) | 0 | 1 | -0.02 | 0.9361 |
| CD3+ | 76 (67, 83) | 77 (67, 83) | 75 (68, 84) | 0.3 | 0.8829 | 0.31 | 0.886 |
| CD3- | 23 (16, 31) | 23 (16, 32) | 24 (15, 31) | -0.3 | 0.8778 | -0.3 | 0.881 |
| CD4_ofCD45 | 38 (29, 45) | 38 (29, 45) | 39 (29, 45) | 0.9 | 0.6813 | 0.74 | 0.7499 |

| | | | | | | | |
|---------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| Treg_of CD3 | 1.65 (1.16, 2.60) | 1.65 (1.11, 2.56) | 1.54 (1.17, 3.40) | 0.1 | 0.7601 | 0.03 | 0.946 |
| Treg_of CD4 | 3.09 (2.24, 5.38) | 3.09 (2.65, 4.86) | 2.94 (1.83, 6.74) | -0.19 | 0.7523 | -0.2 | 0.7809 |
| Treg_of CD45 | 1.30 (0.95, 2.19) | 1.29 (0.93, 1.99) | 1.34 (0.97, 2.55) | 0.1 | 0.7112 | 0.05 | 0.8837 |
| Tconv_of CD3 | 46 (35, 57) | 47 (36, 55) | 46 (35, 57) | -0.1 | 0.971 | -0.2 | 0.948 |
| Tconv_of CD45 | 35 (26, 42) | 35 (26, 42) | 36 (26, 42) | 0.6 | 0.768 | 0.36 | 0.8724 |
| CD8_of CD45 | 26 (19, 36) | 27 (20, 38) | 25 (18, 35) | -2.2 | 0.3118 | -2.48 | 0.2919 |

Table S3.3

CD3 cells distribution for PBMC ACD specimen comparing BV positive vs negative

| Characteristic | Expected | | | N | BV Positive | BV Negative |
|----------------|----------|---------|--|-----|-------------|-------------|
| | Max N | Missing | | | | |
| CD3- | 200 | 0 | | 200 | 60 | 140 |
| CD4_ofCD45 | 200 | 0 | | 200 | 60 | 140 |
| Treg_of CD3 | 200 | 1 | | 199 | 59 | 140 |
| Treg_of CD4 | 200 | 1 | | 199 | 59 | 140 |
| Treg_ofCD45 | 200 | 1 | | 199 | 59 | 140 |
| Tconv_of CD3 | 200 | 0 | | 200 | 60 | 140 |
| Tconv_of CD45 | 200 | 0 | | 200 | 60 | 140 |
| CD8_of CD45 | 200 | 0 | | 200 | 60 | 140 |

A regression model estimating the association of BV status (Positive vs Negative) with CD3 cells' concentration from PBMC ACD specimen, adjusted for hormonal contraceptive use

| CD3 cells | Overall | BV | | Unadjusted Beta | Unadjusted p-value | Adjusted Beta | Adjusted p-value |
|------------|-------------|-------------|-------------|-----------------|--------------------|---------------|------------------|
| | | Negative | BV Positive | | | | |
| live CD45+ | 93 (90, 95) | 93 (91, 95) | 93 (87, 95) | -0.8 | 0.1411 | -0.6 | 0.2906 |
| CD3+ | 74 (67, 78) | 73 (67, 78) | 75 (68, 80) | 2.1 | 0.1137 | 1.9 | 0.1787 |
| CD3- | 26 (21, 33) | 27 (22, 33) | 25 (19, 32) | -2.1 | 0.1063 | -1.9 | 0.1814 |
| CD4_ofCD45 | 45 (40, 50) | 45 (40, 50) | 45 (41, 50) | 0.7 | 0.5952 | 0.7 | 0.6028 |

| | | | | | | | |
|---------------|-------------------|-------------------|-------------------|------|--------|-------|--------|
| Treg_of CD3 | 1.22 (0.95, 1.57) | 1.21 (0.94, 1.55) | 1.28 (0.99, 1.65) | 0.06 | 0.464 | 0.04 | 0.6378 |
| Treg_of CD4 | 1.99 (1.52, 2.53) | 1.95 (1.51, 2.46) | 2.04 (1.57, 2.61) | 0.11 | 0.4031 | 0.08 | 0.5821 |
| Treg_of CD45 | 0.89 (0.66, 1.18) | 0.88 (0.63, 1.12) | 0.97 (0.75, 1.22) | 0.07 | 0.2777 | 0.06 | 0.3751 |
| Tconv_of CD3 | 59 (55, 66) | 59 (55, 66) | 60 (55, 64) | -0.6 | 0.6361 | -0.66 | 0.6261 |
| Tconv_of CD45 | 43 (38, 48) | 43 (38, 48) | 43 (39, 48) | 0.6 | 0.6319 | 0.65 | 0.615 |
| CD8_of CD45 | 21.1 (17.6, 25.3) | 20.3 (17.5, 25.1) | 22.0 (17.9, 26.0) | 0.8 | 0.3869 | 0.8 | 0.4181 |

Table S3.4

CD8+ T cells distribution for Vag Biopsy FBS/DMSO specimen comparing BV positive vs negative

| Characteristic | Expected | | N | BV Positive | BV Negative |
|----------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | | | |
| CD8+ CD4- | 191 | 16 | 175 | 50 | 125 |
| CCR5+ CD8+ | 175 | 18 | 157 | 45 | 112 |
| CCR6+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CCR7+ CD45RA+ | 175 | 19 | 156 | 45 | 111 |
| CCR7+ CD45RA- | 175 | 19 | 156 | 45 | 111 |
| CCR7- CD45RA+ | 175 | 19 | 156 | 45 | 111 |
| CCR7- CD45RA- | 175 | 19 | 156 | 45 | 111 |
| CD25+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD38+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD39+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD101+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD103+ CD69+ CD8+ | 175 | 19 | 156 | 45 | 111 |

| | | | | | |
|--------------------------|-----|-----|-----|----|-----|
| CD103+ CD69- CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD103- CD69+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD103- CD69- CD8+ | 175 | 19 | 156 | 45 | 111 |
| CD161+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CCR7+ CD45RA+ CD8+ | 156 | 39 | 117 | 36 | 81 |
| CCR7+ CD45RA- CD8+ | 156 | 39 | 117 | 36 | 81 |
| CCR7- CD45RA+ CD8+ | 156 | 39 | 117 | 36 | 81 |
| CCR7- CD45RA- CD8+ | 156 | 39 | 117 | 36 | 81 |
| CD161+ CCR6+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| CCR7+ CD45RA+ CD8+ | 156 | 119 | 37 | 13 | 24 |
| CCR7+ CD45RA- CD8+ | 156 | 119 | 37 | 13 | 24 |

| | | | | | |
|--------------------------|-----|-----|-----|----|-----|
| CCR7- CD45RA+ CD8+ | 156 | 119 | 37 | 13 | 24 |
| CCR7- CD45RA- CD8+ | 156 | 119 | 37 | 13 | 24 |
| CXCR3+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| GrzB+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| HLA-DR+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| HLA-DR+ CD38+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| Ki67+ CD8+ | 175 | 111 | 64 | 16 | 48 |
| PD-1+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| PD-1+ TCF-1- CD8+ | 175 | 19 | 156 | 45 | 111 |
| Tbet+ CD8+ | 175 | 19 | 156 | 45 | 111 |
| TCF1+ CD8+ | 175 | 19 | 156 | 45 | 111 |

A regression model estimating the association of BV status (Positive vs Negative) with CD8+ T cells' concentration from Vag Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p- value | Adjusted Beta | Adjusted p-value |
|------------------------|-------------|----------------|-------------|--------------------|------------------------|------------------|---------------------|
| CD8 cells CD8+ CD4- | 40 (31, 56) | 38 (28, 54) | 44 (35, 63) | 7.89 | 0.0109 | 8.43 | 0.0075 |
| CCR5+ CD8+ | 86 (65, 94) | 85 (59, 94) | 87 (76, 95) | 2.8 | 0.2372 | 2.65 | 0.293 |

| | | | | | | | |
|--------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CCR6+ CD8+ | 4.9 (2.4, 7.8) | 5.2 (3.1, 7.8) | 4.1 (2.2, 6.4) | -0.79 | 0.2232 | -0.71 | 0.3104 |
| CCR7+ CD45RA+ CD8+ | 5 (2, 15) | 5 (2, 16) | 5 (2, 12) | -0.35 | 0.718 | -0.26 | 0.8133 |
| CCR7+ CD45RA- CD8+ | 9 (5, 14) | 9 (6, 13) | 9 (5, 16) | 0.34 | 0.7391 | 0.53 | 0.6354 |
| CCR7- CD45RA+ CD8+ | 21 (11, 30) | 22 (11, 31) | 18 (11, 28) | -1.8 | 0.466 | -1.92 | 0.4559 |
| CCR7- CD45RA- CD8+ | 59 (43, 73) | 57 (43, 72) | 61 (43, 76) | 2.9 | 0.4631 | 3.35 | 0.4124 |
| CD25+ CD8+ | 0.9 (0.2, 2.7) | 1.1 (0.3, 2.7) | 0.7 (0.0, 2.9) | -0.13 | 0.5192 | -0.18 | 0.4349 |
| CD38+ CD8+ | 3.9 (1.5, 8.2) | 4.8 (1.6, 8.2) | 2.1 (1.1, 7.5) | -1.04 | 0.131 | -1.09 | 0.1273 |
| CD39+ CD8+ | 7 (3, 16) | 7 (2, 17) | 9 (3, 15) | 0.79 | 0.5291 | 1.06 | 0.4582 |
| CD101+ CD8+ | 54 (34, 72) | 52 (31, 70) | 61 (44, 75) | 6.8 | 0.1258 | 6.73 | 0.1446 |
| CD103+ CD69+ CD8+ | 64 (32, 80) | 62 (29, 77) | 69 (43, 83) | 6.2 | 0.1824 | 7.72 | 0.1149 |
| CD103+ CD69- CD8+ | 0.94 (0.33, 2.05) | 0.92 (0.35, 2.32) | 0.97 (0.34, 1.54) | 0 | 1 | -0.09 | 0.6368 |
| CD103- CD69+ CD8+ | 11 (5, 20) | 11 (5, 22) | 11 (6, 18) | -0.41 | 0.807 | -0.6 | 0.7188 |
| CD103- CD69- CD8+ | 14 (5, 53) | 19 (5, 54) | 12 (5, 26) | -3.18 | 0.2812 | -3.93 | 0.215 |
| CD161+ CD8+ | 30 (21, 40) | 29 (20, 41) | 32 (25, 39) | 1.5 | 0.582 | 3.4 | 0.1979 |

| | | | | | | | |
|---|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CD161+CCR7 + CD45RA+ CD8+ | 3 (1, 7) | 3 (1, 7) | 3 (1, 7) | 0 | 1 | 0.13 | 0.8703 |
| CD161+CCR7 + CD45RA- CD8+ | 10 (6, 19) | 10 (5, 16) | 14 (7, 21) | 2.88 | 0.0979 | 3.58 | 0.0441 |
| CD161+CCR7- CD45RA+ CD8+ | 14 (6, 23) | 16 (6, 25) | 13 (7, 19) | -1.05 | 0.6253 | -1.46 | 0.4833 |
| CD161+CCR7- CD45RA- CD8+ | 67 (55, 80) | 67 (56, 81) | 68 (54, 78) | -0.5 | 0.8837 | 0.11 | 0.9757 |
| CD161+ CCR6+ CD8+ | 4.0 (1.9, 6.9) | 4.1 (1.9, 6.6) | 3.8 (2.1, 7.5) | 0.24 | 0.6612 | 0.29 | 0.6202 |
| CD161+ CCR6+ CCR7+ CD45RA+ CD8+ | 3.1 (0.9, 7.3) | 1.6 (0.0, 7.2) | 4.8 (3.0, 8.1) | 2.5 | 0.0275 | 2.31 | 0.0781 |
| CD161+ CCR6+ CCR7+ CD45RA- CD8+ | 21 (10, 32) | 18 (9, 31) | 23 (19, 32) | 7.3 | 0.2104 | 10.87 | 0.0587 |
| CD161+ CCR6+ CCR7- CD45RA+ CD8+ | 6 (3, 12) | 6 (3, 13) | 7 (3, 12) | 1.14 | 0.6813 | -1.45 | 0.6487 |

| | | | | | | | |
|--------------|-------------|-------------|-------------|--------|--------|-------|--------|
| CD161+ | | | | | | | |
| CCR6+ CCR7- | | | | | | | |
| CD45RA- | | | | | | | |
| CD8+ | 62 (46, 78) | 66 (54, 79) | 55 (39, 68) | -11.01 | 0.1315 | -8.69 | 0.2353 |
| CXCR3+ | | | | | | | |
| CD8+ | 82 (55, 90) | 82 (54, 89) | 84 (58, 93) | 3.5 | 0.2365 | 3.48 | 0.2812 |
| GrzB+ CD8+ | 19 (10, 30) | 21 (12, 30) | 18 (8, 25) | -3 | 0.1913 | -2.48 | 0.3051 |
| HLA-DR+ | | | | | | | |
| CD8+ | 25 (16, 37) | 25 (17, 38) | 23 (13, 32) | -4.3 | 0.1159 | -4.78 | 0.1088 |
| HLA-DR+ | 1.7 (0.6, | 2.0 (0.7, | 0.9 (0.0, | | | | |
| CD38+ CD8+ | 4.6) | 5.0) | 3.3) | -0.68 | 0.059 | -0.92 | 0.0309 |
| Ki67+ CD8+ | 4 (2, 6) | 4 (2, 6) | 5 (3, 7) | 0.7 | 0.4776 | 0.81 | 0.3798 |
| PD-1+ CD8+ | 47 (28, 60) | 46 (26, 59) | 50 (35, 63) | 6.4 | 0.116 | 5.95 | 0.1865 |
| PD-1+ TCF-1- | | | | | | | |
| CD8+ | 36 (22, 48) | 36 (20, 49) | 35 (28, 46) | 0.5 | 0.8903 | -0.23 | 0.9535 |
| Tbet+ CD8+ | 14 (6, 23) | 15 (7, 22) | 12 (5, 26) | -0.4 | 0.8399 | -0.77 | 0.7208 |
| TCF1+ CD8+ | 25 (14, 39) | 25 (13, 39) | 24 (16, 36) | -0.2 | 0.946 | -0.37 | 0.9046 |

Table S3.5

CD8+ T cells distribution for EctoCx Biopsy FBS/DMSO specimen comparing BV positive vs negative

| Characteristic | Expected | | | BV Positive | BV Negative |
|----------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | N | | |
| CD8+ CD4- | 194 | 14 | 180 | 53 | 127 |
| CCR5+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CCR6+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CCR7+ CD45RA+ | 180 | 19 | 161 | 46 | 115 |
| CCR7+ CD45RA- | 180 | 19 | 161 | 46 | 115 |
| CCR7- CD45RA+ | 180 | 19 | 161 | 46 | 115 |
| CCR7- CD45RA- | 180 | 19 | 161 | 46 | 115 |
| CD25+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD38+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD39+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD101+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD103+ CD69+ CD8+ | 180 | 19 | 161 | 46 | 115 |

| | | | | | |
|--------------------------|-----|-----|-----|----|-----|
| CD103+ CD69- CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD103- CD69+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD103- CD69- CD8+ | 180 | 19 | 161 | 46 | 115 |
| CD161+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| CCR7+ CD45RA+ CD8+ | 161 | 54 | 107 | 34 | 73 |
| CCR7+ CD45RA- CD8+ | 161 | 54 | 107 | 34 | 73 |
| CCR7- CD45RA+ CD8+ | 161 | 54 | 107 | 34 | 73 |
| CCR7- CD45RA- CD8+ | 161 | 54 | 107 | 34 | 73 |
| CD161+ CCR6+ CD8+ | 180 | 20 | 160 | 46 | 114 |
| CCR7+ CD45RA+ CD8+ | 160 | 126 | 34 | 12 | 22 |
| CCR7+ CD45RA- CD8+ | 160 | 126 | 34 | 12 | 22 |
| CCR7- CD45RA+ CD8+ | 160 | 126 | 34 | 12 | 22 |

| | | | | | |
|--------------------------|-----|-----|-----|----|-----|
| CCR7- CD45RA- CD8+ | 160 | 126 | 34 | 12 | 22 |
| CXCR3+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| GrzB+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| HLA-DR+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| HLA-DR+ CD38+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| Ki67+ CD8+ | 180 | 115 | 65 | 15 | 50 |
| PD-1+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| PD-1+ TCF-1- CD8+ | 180 | 19 | 161 | 46 | 115 |
| Tbet+ CD8+ | 180 | 19 | 161 | 46 | 115 |
| TCF1+ CD8+ | 180 | 19 | 161 | 46 | 115 |

A regression model estimating the association of BV status (Positive vs Negative) with CD8+ T cells' concentration from EctoCx Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| | | BV | | Unadjusted | Unadjusted | Adjusted | Adjusted |
|--------------------------|----------------|----------------|----------------|------------|------------|----------|----------|
| | Overall | Negative | BV Positive | Beta | p-value | Beta | p-value |
| CD8+ cells | | | | | | | |
| CD8+ CD4- | 36 (27, 48) | 38 (28, 48) | 35 (26, 42) | -3.2 | 0.2086 | -3.58 | 0.1814 |
| CCR5+ CD8+ | 78 (45, 92) | 78 (48, 91) | 80 (41, 94) | 2.3 | 0.4869 | 1.98 | 0.5802 |
| CCR6+ CD8+ | 4.7 (2.4, 8.0) | 4.8 (2.7, 7.9) | 3.5 (1.8, 8.0) | -0.71 | 0.2569 | -1 | 0.1515 |
| CCR7+ CD45RA+ CD8+ | 9 (3, 28) | 9 (4, 26) | 6 (2, 27) | -1.72 | 0.2804 | -1.78 | 0.2926 |

| | | | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CCR7+ CD45RA- CD8+ | 9 (6, 13) | 8 (6, 13) | 9 (5, 12) | -0.31 | 0.7439 | 0.11 | 0.9128 |
| CCR7- CD45RA+ CD8+ | 22 (14, 30) | 23 (15, 30) | 22 (13, 27) | -1.4 | 0.5027 | -1.67 | 0.4719 |
| CCR7- CD45RA- CD8+ | 53 (35, 68) | 53 (35, 66) | 56 (35, 73) | 4.1 | 0.3064 | 3.95 | 0.356 |
| CD25+ CD8+ | 1.0 (0.1, 2.4) | 1.1 (0.1, 2.5) | 0.9 (0.3, 2.0) | 0 | 1 | -0.04 | 0.8477 |
| CD38+ CD8+ | 10 (5, 16) | 10 (4, 15) | 10 (5, 17) | -0.1 | 0.9408 | 0.1 | 0.9417 |
| CD39+ CD8+ | 8 (3, 15) | 8 (3, 15) | 8 (3, 15) | -0.19 | 0.8718 | -1.3 | 0.316 |
| CD101+ CD8+ | 47 (30, 67) | 45 (27, 65) | 50 (33, 68) | 4.8 | 0.2867 | 4.65 | 0.3096 |
| CD103+ CD69+ CD8+ | 41 (20, 62) | 40 (20, 62) | 43 (16, 62) | 0.08 | 0.9866 | 0.81 | 0.8799 |
| CD103+ CD69- CD8+ | 1.03 (0.28, 2.56) | 0.89 (0.19, 2.48) | 1.26 (0.50, 2.69) | 0.34 | 0.1093 | 0.28 | 0.2094 |
| CD103- CD69+ CD8+ | 15 (6, 26) | 14 (5, 27) | 15 (7, 26) | 0.2 | 0.9277 | 0.77 | 0.7459 |
| CD103- CD69- CD8+ | 28 (9, 70) | 31 (9, 70) | 22 (9, 69) | -0.64 | 0.8747 | -0.85 | 0.8501 |
| CD161+ CD8+ | 26 (17, 37) | 26 (17, 39) | 28 (17, 37) | -0.8 | 0.7511 | 0.7 | 0.7952 |
| CD161+CCR7 + CD45RA+ CD8+ | 5 (2, 16) | 6 (2, 14) | 4 (2, 22) | -0.36 | 0.7727 | -0.53 | 0.6999 |
| CD161+CCR7 + CD45RA- CD8+ | 10 (6, 15) | 10 (7, 15) | 9 (6, 15) | -0.9 | 0.4937 | -0.17 | 0.9054 |

| | | | | | | | |
|---|-----------------|----------------|-----------------|-------|--------|-------|--------|
| CD161+CCR7- CD45RA+ CD8+ | 16 (8, 24) | 18 (10, 23) | 14 (7, 26) | -2.01 | 0.3775 | -2.31 | 0.3335 |
| CD161+CCR7- CD45RA- CD8+ | 62 (45, 73) | 61 (44, 71) | 65 (46, 75) | 3.4 | 0.4159 | 3.75 | 0.4043 |
| CD161+ CCR6+ CD8+ | 3.0 (1.8, 6.0) | 3.2 (2.0, 6.0) | 2.3 (1.1, 5.9) | -0.75 | 0.086 | -0.94 | 0.057 |
| CD161+ CCR6+ CCR7+ CD45RA+ CD8+ | 4.1 (1.7, 10.0) | 4.1 (2.7, 6.7) | 5.5 (1.0, 11.6) | 0.56 | 0.7848 | 3.91 | 0.185 |
| CD161+ CCR6+ CCR7+ CD45RA- CD8+ | 15 (10, 31) | 12 (10, 32) | 18 (14, 27) | 3.73 | 0.4388 | 0.56 | 0.9352 |
| CD161+ CCR6+ CCR7- CD45RA+ CD8+ | 10 (2, 17) | 9 (1, 16) | 12 (5, 17) | 1.4 | 0.6519 | 6.25 | 0.128 |
| CD161+ CCR6+ CCR7- CD45RA- CD8+ | 63 (49, 75) | 61 (54, 77) | 65 (46, 71) | -4.18 | 0.6001 | -4.41 | 0.66 |
| CXCR3+ CD8+ | 72 (51, 86) | 72 (55, 85) | 72 (47, 88) | -1 | 0.7923 | -0.43 | 0.9175 |
| GrzB+ CD8+ | 24 (16, 34) | 24 (16, 33) | 25 (18, 36) | 2 | 0.4149 | 2.91 | 0.2817 |
| HLA-DR+ CD8+ | 33 (20, 47) | 33 (20, 48) | 29 (21, 45) | -0.7 | 0.8277 | -1.2 | 0.728 |

| | | | | | | | | |
|--------------|-------------|-------------|-------------|-------|--------|-------|--------|--|
| HLA-DR+ | | | | | | | | |
| CD38+ CD8+ | 4 (2, 9) | 4 (3, 9) | 4 (2, 8) | -0.85 | 0.2239 | -0.78 | 0.2893 | |
| | 3.4 (1.7, | 3.4 (1.6, | 3.8 (2.1, | | | | | |
| Ki67+ CD8+ | 6.6) | 6.4) | 7.1) | 0.41 | 0.6721 | -0.82 | 0.2319 | |
| PD-1+ CD8+ | 39 (20, 57) | 38 (20, 58) | 42 (22, 55) | -0.1 | 0.98 | 0.91 | 0.83 | |
| PD-1+ TCF-1- | | | | | | | | |
| CD8+ | 31 (15, 49) | 31 (15, 50) | 30 (14, 48) | -2.5 | 0.4713 | -1.79 | 0.6218 | |
| Tbet+ CD8+ | 17 (8, 31) | 17 (9, 29) | 18 (7, 33) | 0.7 | 0.7688 | 1.21 | 0.6506 | |
| TCF1+ CD8+ | 29 (14, 43) | 28 (14, 42) | 32 (19, 47) | 3.7 | 0.2543 | 4.34 | 0.2462 | |

Table S3.6

CD8+ T cells distribution for PBMC ACD specimen comparing BV positive vs negative

| Characteristic | Expected | | | N | BV Positive | BV Negative |
|----------------------|----------|---------|--|-----|-------------|-------------|
| | Max N | Missing | | | | |
| CD8+ CD4- | 200 | 0 | | 200 | 60 | 140 |
| CCR5+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CCR6+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CCR7+ CD45RA+ | | | | | | |
| CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CCR7+ CD45RA- | | | | | | |
| CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CCR7- CD45RA+ | | | | | | |
| CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CCR7- CD45RA- | | | | | | |
| CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CD25+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CD38+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CD39+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CD101+ CD8+ | 200 | 0 | | 200 | 60 | 140 |
| CD103+ CD69+ CD8+ | 200 | 0 | | 200 | 60 | 140 |

| | | | | | |
|--------------------------|-----|---|-----|----|-----|
| CD103+ CD69- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CD161+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CD161+ CCR6+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA+ CD8+ | 200 | 0 | 200 | 60 | 140 |

| | | | | | |
|--------------------------|-----|-----|-----|----|-----|
| CCR7- CD45RA- CD8+ | 200 | 0 | 200 | 60 | 140 |
| CXCR3+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| GrzB+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD38+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| Ki67+ CD8+ | 200 | 120 | 80 | 22 | 58 |
| PD-1+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| PD-1+ TCF-1- CD8+ | 200 | 0 | 200 | 60 | 140 |
| Tbet+ CD8+ | 200 | 0 | 200 | 60 | 140 |
| TCF1+ CD8+ | 200 | 0 | 200 | 60 | 140 |

A regression model estimating the association of BV status (Positive vs Negative) with CD8+ T cells' concentration from PBMC ACD specimen, adjusted for hormonal contraceptive use

| CD8_cells | Overall | BV | | Unadjusted | | Adjusted | |
|--------------------------|-------------------|-------------------|-------------------|------------|---------|---------------|---------|
| | | Negative | BV Positive | Beta | p-value | Adjusted Beta | p-value |
| CD8+ CD4- | 30 (25, 35) | 30 (25, 35) | 30 (25, 34) | 0.3 | 0.7841 | 0.4 | 0.7249 |
| CCR5+ CD8+ | 23 (15, 32) | 22 (15, 31) | 26 (16, 34) | 2.7 | 0.1417 | 2.6 | 0.1878 |
| CCR6+ CD8+ | 2.36 (1.46, 3.54) | 2.56 (1.49, 3.72) | 2.27 (1.36, 3.16) | -0.27 | 0.2365 | -0.32 | 0.1928 |
| CCR7+ CD45RA+ CD8+ | 40 (31, 52) | 40 (31, 50) | 42 (31, 53) | 2.5 | 0.3146 | 2.4 | 0.3453 |

| | | | | | | | |
|---------------------------------|----------------------------|----------------------------|----------------------------|-------|--------|-------|--------|
| CCR7+ CD45RA- CD8+ | 4.1 (2.5, 6.0) | 4.1 (2.5, 6.0) | 3.8 (2.5, 6.1) | 0.01 | 0.9781 | 0.04 | 0.9281 |
| CCR7- CD45RA+ CD8+ | 33 (25, 41) | 33 (26, 41) | 32 (24, 42) | -0.4 | 0.8417 | -0.5 | 0.8059 |
| CCR7- CD45RA- CD8+ | 18 (14, 25) | 18 (14, 27) | 19 (14, 23) | -1.3 | 0.3527 | -1.4 | 0.3663 |
| CD25+ CD8+ | 0.06 (0.02, 0.25) | 0.07 (0.02, 0.25) | 0.05 (0.02, 0.21) | 0 | 0.8899 | 0 | 0.7499 |
| CD38+ CD8+ | 8.3 (4.7, 11.8) | 7.8 (4.9, 11.4) | 8.6 (4.2, 13.3) | 0.4 | 0.5813 | 0.84 | 0.2629 |
| CD39+ CD8+ | 1.29 (0.75, 1.89) | 1.26 (0.75, 1.82) | 1.38 (0.76, 1.93) | 0.11 | 0.3974 | 0.1 | 0.4378 |
| CD101+ CD8+ | 29 (18, 42) | 29 (17, 39) | 30 (18, 46) | 2.3 | 0.3957 | 2.6 | 0.3338 |
| CD103+ CD69+ CD8+ | 0.05 (0.03, 0.09) | 0.06 (0.03, 0.09) | 0.05 (0.03, 0.09) | 0 | 0.4159 | -0.01 | 0.2747 |
| CD103+ CD69- CD8+ | 1.99 (1.38, 2.77) | 2.07 (1.43, 2.77) | 1.84 (1.29, 2.57) | -0.2 | 0.2051 | -0.2 | 0.2092 |
| CD103- CD69+ CD8+ | 1.23 (0.84, 1.73) | 1.25 (0.88, 1.70) | 1.14 (0.76, 1.77) | -0.08 | 0.4262 | -0.12 | 0.2313 |
| CD103- CD69- CD8+ | 96.50 (95.58, 97.40) | 96.40 (95.50, 97.30) | 96.75 (95.78, 97.63) | 0.3 | 0.278 | 0.35 | 0.1304 |
| CD161+ CD8+ | 13 (9, 20) | 13 (9, 21) | 14 (8, 17) | -0.97 | 0.4512 | -0.42 | 0.7411 |
| CD161+CCR7 + CD45RA+ CD8+ | 40 (29, 54) | 39 (28, 52) | 42 (30, 57) | 2.36 | 0.3952 | 3.35 | 0.2162 |

| | | | | | | | |
|---|----------------------|----------------------|----------------------|-------|--------|-------|--------|
| CD161+CCR7 + CD45RA- CD8+ | 5.1 (2.9, 7.6) | 5.2 (3.2, 7.8) | 4.5 (2.6, 7.1) | -0.73 | 0.1502 | -0.55 | 0.2935 |
| CD161+CCR7- CD45RA+ CD8+ | 25 (18, 34) | 25 (18, 34) | 26 (18, 35) | 1 | 0.5973 | 0.4 | 0.83 |
| CD161+CCR7- CD45RA- CD8+ | 24 (16, 34) | 25 (17, 34) | 21 (14, 30) | -2.6 | 0.1781 | -3.35 | 0.1008 |
| CD161+ CCR6+ CD8+ | 1.19 (0.71, 2.19) | 1.11 (0.72, 2.29) | 1.35 (0.71, 1.99) | 0.02 | 0.8764 | 0.02 | 0.882 |
| CD161+ CCR6+CCR7+ CD45RA+ CD8+ | 13 (7, 25) | 13 (6, 24) | 14 (8, 26) | 1.87 | 0.2503 | 2.02 | 0.2309 |
| CD161+ CCR6+CCR7+ CD45RA- CD8+ | 9 (6, 14) | 9 (6, 14) | 9 (5, 14) | 0.2 | 0.8261 | 0.4 | 0.6746 |
| CD161+ CCR6+CCR7- CD45RA+ CD8+ | 13 (8, 21) | 13 (7, 22) | 15 (9, 18) | 0.97 | 0.4714 | 0.86 | 0.5346 |
| CD161+ CCR6+CCR7- CD45RA- CD8+ | 57 (43, 70) | 57 (45, 71) | 57 (40, 66) | -2.9 | 0.3432 | -3.26 | 0.2955 |
| CXCR3+ CD8+ | 50 (26, 64) | 49 (28, 63) | 50 (12, 67) | -1.7 | 0.6499 | -3.03 | 0.4241 |
| GrzB+ CD8+ | 34 (21, 44) | 34 (21, 45) | 33 (22, 42) | -1.4 | 0.5748 | -1 | 0.7095 |

| | | | | | | | | |
|--------------|-------------|-------------|-------------|-------|--------|-------|--------|--|
| HLA-DR+ | | | | | | | | |
| CD8+ | 18 (12, 25) | 17 (12, 25) | 18 (14, 25) | 0.9 | 0.5333 | 0.5 | 0.7211 | |
| HLA-DR+ | 2.66 (1.70, | 2.58 (1.72, | 2.78 (1.61, | | | | | |
| CD38+ CD8+ | 3.89) | 3.49) | 4.65) | 0.32 | 0.1884 | 0.34 | 0.1645 | |
| | 0.69 (0.44, | 0.74 (0.44, | 0.63 (0.49, | | | | | |
| Ki67+ CD8+ | 1.08) | 1.09) | 0.96) | -0.04 | 0.7046 | -0.03 | 0.7669 | |
| | 6.7 (4.5, | 6.9 (4.5, | 6.3 (4.7, | | | | | |
| PD-1+ CD8+ | 10.6) | 11.1) | 10.1) | -0.42 | 0.5134 | -0.58 | 0.3788 | |
| PD-1+ TCF-1- | 3.9 (2.1, | 4.3 (2.3, | 3.2 (2.1, | | | | | |
| CD8+ | 6.7) | 6.9) | 5.9) | -0.53 | 0.2293 | -0.62 | 0.1744 | |
| Tbet+ CD8+ | 38 (26, 47) | 38 (25, 47) | 38 (26, 47) | 0.3 | 0.9054 | 1 | 0.7053 | |
| TCF1+ CD8+ | 55 (42, 69) | 55 (42, 69) | 59 (41, 70) | 1.3 | 0.6532 | 1.2 | 0.6851 | |

Table S3.7**Conventional T helper cells distribution for Vag Biopsy FBS/DMSO specimen comparing BV positive vs negative**

| Characteristic | Expected | | | BV Positive | BV Negative |
|------------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | N | | |
| CD25- CD127-+ | 174 | 17 | 157 | 42 | 115 |
| CCR5+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CCR6+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CCR7+ CD45RA+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CCR7+ CD45RA- Tconv | 157 | 2 | 155 | 40 | 115 |
| CCR7- CD45RA+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CCR7- CD45RA- Tconv | 157 | 2 | 155 | 40 | 115 |
| CD38+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CD39+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CD69+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CD101+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CD103+ CD69+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CD103+ CD69- Tconv | 157 | 2 | 155 | 40 | 115 |
| CD103- CD69+ Tconv | 157 | 2 | 155 | 40 | 115 |

| | | | | | |
|------------------------|-----|-----|-----|----|-----|
| CD103- CD69- Tconv | 157 | 2 | 155 | 40 | 115 |
| CTLA-4+ Tconv | 157 | 2 | 155 | 40 | 115 |
| CXCR3+ Tconv | 157 | 2 | 155 | 40 | 115 |
| GrzB+ Tconv | 157 | 2 | 155 | 40 | 115 |
| HLA-DR+ Tconv | 157 | 2 | 155 | 40 | 115 |
| HLA-DR+ CD38+ Tconv | 157 | 2 | 155 | 40 | 115 |
| Ki67+ Tconv | 157 | 96 | 61 | 13 | 48 |
| PD-1+ Tconv | 157 | 2 | 155 | 40 | 115 |
| PD-1+TCF-1- Tconv | 157 | 2 | 155 | 40 | 115 |
| TCF-1+ Tconv | 157 | 2 | 155 | 40 | 115 |
| Tbet+ | 157 | 2 | 155 | 40 | 115 |
| CCR5+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CCR7+ CD45RA+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CCR7+ CD45RA- Th1 | 155 | 119 | 36 | 11 | 25 |
| CCR7- CD45RA+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CCR7- CD45RA- Th1 | 155 | 119 | 36 | 11 | 25 |
| CD38+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD39+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD101+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD103+ CD69+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD103+ CD69- Th1 | 155 | 119 | 36 | 11 | 25 |

| | | | | | |
|-----------------------|-----|-----|-----|----|-----|
| CD103- CD69+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD103- CD69- Th1 | 155 | 119 | 36 | 11 | 25 |
| CTLA-4+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CXCR3+ Th1 | 155 | 119 | 36 | 11 | 25 |
| GrzB+ Th1 | 155 | 119 | 36 | 11 | 25 |
| HLA-DR+ Th1 | 155 | 119 | 36 | 11 | 25 |
| HLA-DR+ CD38+ Th1 | 155 | 119 | 36 | 11 | 25 |
| Ki67+ Th1 | 155 | 144 | 11 | 2 | 9 |
| PD-1+ Th1 | 155 | 119 | 36 | 11 | 25 |
| TCF-1+ Th1 | 155 | 119 | 36 | 11 | 25 |
| CD161+ CCR6+ | 157 | 2 | 155 | 40 | 115 |
| CCR5+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CCR7+ CD45RA+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CCR7+ CD45RA- Th17 | 155 | 107 | 48 | 16 | 32 |
| CCR7- CD45RA+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CCR7- CD45RA- Th17 | 155 | 107 | 48 | 16 | 32 |
| CD38+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CD39+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CD101+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CD103+ CD69+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CD103+ CD69- Th17 | 155 | 107 | 48 | 16 | 32 |

| | | | | | |
|-----------------------|-----|-----|----|----|----|
| CD103- CD69+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CD103- CD69- Th17 | 155 | 107 | 48 | 16 | 32 |
| CTLA-4+ Th17 | 155 | 107 | 48 | 16 | 32 |
| CXCR3+ Th17 | 155 | 107 | 48 | 16 | 32 |
| GrzB+ Th17 | 155 | 107 | 48 | 16 | 32 |
| HLA-DR+ Th17 | 155 | 107 | 48 | 16 | 32 |
| HLA-DR+ CD38+ Th17 | 155 | 107 | 48 | 16 | 32 |
| Ki67+ Th17 | 155 | 137 | 18 | 4 | 14 |
| PD-1+ Th17 | 155 | 107 | 48 | 16 | 32 |
| TCF-1+ Th17 | 155 | 107 | 48 | 16 | 32 |

A regression model estimating the association of BV status (Positive vs Negative) with conventional T helper cells' concentration from Vag Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| Tconv cells | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p- value | Adjusted Beta | Adjusted p-value |
|------------------------|-------------------|-------------------|-------------------|--------------------|------------------------|------------------|---------------------|
| CD25- CD127-+ | 91.0 (86.7, 94.4) | 91.0 (86.3, 94.8) | 91.1 (88.2, 93.6) | 0 | 1 | -0.07 | 0.9469 |
| CCR5+ Tconv | 81 (40, 93) | 78 (37, 93) | 87 (64, 93) | 4.89 | 0.1859 | 4.98 | 0.2157 |
| CCR6+ Tconv | 14 (9, 18) | 14 (8, 18) | 15 (11, 18) | 1.4 | 0.3467 | 1.44 | 0.2965 |
| CCR7+ CD45RA+ Tconv | 4 (1, 20) | 5 (1, 24) | 3 (1, 9) | -1.03 | 0.322 | -0.98 | 0.3704 |
| CCR7+ CD45RA- Tconv | 15 (9, 21) | 16 (9, 21) | 15 (8, 20) | -0.8 | 0.638 | -0.71 | 0.6831 |
| CCR7- CD45RA+ Tconv | 1.5 (0.5, 4.1) | 1.5 (0.6, 4.6) | 1.1 (0.2, 2.7) | -0.37 | 0.2492 | -0.49 | 0.1559 |

| | | | | | | | |
|------------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CCR7- CD45RA- Tconv | 76 (49, 87) | 74 (49, 87) | 79 (51, 88) | 3.5 | 0.3163 | 3.77 | 0.3142 |
| CD38+ Tconv | 6 (2, 12) | 7 (2, 13) | 5 (1, 10) | -1.42 | 0.2104 | -1.6 | 0.1862 |
| CD39+ Tconv | 19 (6, 41) | 15 (5, 40) | 30 (11, 44) | 6.78 | 0.0166 | 6.63 | 0.0331 |
| CD69+ Tconv | 78 (20, 93) | 72 (18, 91) | 87 (59, 95) | 7.4 | 0.063 | 7.5 | 0.0884 |
| CD101+ Tconv | 28 (12, 48) | 27 (11, 44) | 38 (20, 59) | 9.7 | 0.0147 | 10.88 | 0.0118 |
| CD103+ CD69+ Tconv | 26 (9, 46) | 24 (7, 43) | 38 (20, 54) | 11.98 | 0.0032 | 12.25 | 0.0061 |
| CD103+ CD69- Tconv | 0.05 (0.00, 0.54) | 0.07 (0.00, 0.63) | 0.00 (0.00, 0.44) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Tconv | 30 (9, 50) | 28 (7, 51) | 35 (14, 46) | 2 | 0.6056 | 2.35 | 0.6066 |
| CD103- CD69- Tconv | 21 (7, 79) | 27 (9, 82) | 13 (5, 41) | -7.3 | 0.0663 | -7.2 | 0.0899 |
| CTLA-4+ Tconv | 4 (2, 10) | 5 (2, 10) | 3 (2, 8) | -0.62 | 0.4336 | -0.4 | 0.6383 |
| CXCR3+ Tconv | 36 (22, 51) | 36 (22, 53) | 34 (19, 44) | -3.4 | 0.3837 | -5.15 | 0.176 |
| GrzB+ Tconv | 1.8 (0.4, 4.2) | 1.8 (0.4, 4.6) | 2.2 (0.7, 3.6) | 0 | 1 | -0.02 | 0.97 |
| HLA-DR+ Tconv | 25 (11, 42) | 21 (10, 43) | 27 (19, 40) | 3.48 | 0.3089 | 3.12 | 0.3864 |
| HLA-DR+ CD38+ Tconv | 0.80 (0.00, 2.24) | 0.80 (0.00, 2.25) | 0.92 (0.00, 2.02) | 0 | 1 | 0 | 1 |
| Ki67+ Tconv | 3 (1, 6) | 3 (1, 5) | 4 (2, 7) | 1.16 | 0.2122 | 1.13 | 0.2351 |
| PD-1+ Tconv | 43 (20, 62) | 41 (19, 62) | 51 (27, 64) | 5.4 | 0.2149 | 5.55 | 0.261 |
| PD-1+TCF-1- Tconv | 34 (14, 56) | 34 (13, 57) | 40 (19, 51) | 2.1 | 0.6226 | 2.09 | 0.6578 |
| TCF-1+ Tconv | 27 (14, 52) | 30 (15, 58) | 24 (10, 31) | -8.6 | 0.0435 | -9.2 | 0.0401 |
| Tbet+ | 2.7 (1.0, 7.0) | 2.9 (1.0, 7.2) | 2.1 (0.7, 5.9) | -0.57 | 0.3284 | -0.6 | 0.3237 |
| CCR5+ Th1 | 93 (78, 100) | 93 (75, 100) | 93 (88, 98) | 0 | 1 | -3.19 | 0.549 |

| | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------|--------|--------|--------|
| CCR7+ CD45RA+ Th1 | 0.9 (0.0, 3.2) | 2.1 (0.0, 3.3) | 0.4 (0.0, 2.7) | 0 | 1 | -0.18 | 0.8094 |
| CCR7+ CD45RA- Th1 | 10 (4, 17) | 11 (4, 17) | 7 (4, 16) | -1.34 | 0.7078 | -1.03 | 0.8208 |
| CCR7- CD45RA+ Th1 | 4 (0, 9) | 4 (0, 8) | 3 (0, 12) | 0 | 1 | -0.62 | 0.8211 |
| CCR7- CD45RA- Th1 | 81 (66, 87) | 82 (69, 87) | 75 (46, 89) | -5.4 | 0.4256 | -15.03 | 0.0771 |
| CD38+ Th1 | 6 (1, 16) | 6 (3, 18) | 4 (0, 14) | -2.08 | 0.444 | -2.29 | 0.4961 |
| CD39+ Th1 | 7 (0, 23) | 15 (1, 39) | 5 (0, 14) | -3.3 | 0.5036 | -6.1 | 0.412 |
| CD101+ Th1 | 22 (6, 42) | 21 (9, 49) | 23 (1, 40) | -6.5 | 0.4177 | -8.21 | 0.4102 |
| CD103+ CD69+ Th1 | 4 (0, 21) | 6 (0, 24) | 4 (1, 10) | -0.56 | 0.8891 | -4.87 | 0.349 |
| CD103+ CD69- Th1 | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0 | 1 | 0 NaN | |
| CD103- CD69+ Th1 | 32 (4, 51) | 32 (3, 49) | 27 (5, 66) | 2.4 | 0.7888 | 8.08 | 0.5701 |
| CD103- CD69- Th1 | 44 (19, 93) | 44 (20, 96) | 44 (14, 64) | -6.9 | 0.564 | -16.29 | 0.3054 |
| CTLA-4+ Th1 | 4 (0, 14) | 6 (0, 18) | 1 (0, 3) | -5.01 | 0.1142 | -6.44 | 0.0973 |
| CXCR3+ Th1 | 55 (32, 71) | 54 (33, 62) | 61 (13, 81) | 4.4 | 0.6927 | 3.37 | 0.7827 |
| GrzB+ Th1 | 29 (13, 50) | 33 (13, 55) | 26 (10, 47) | -6.4 | 0.54 | -12.82 | 0.3504 |
| HLA-DR+ Th1 | 35 (23, 55) | 33 (21, 62) | 39 (24, 47) | -3.5 | 0.7107 | -5.59 | 0.5347 |
| HLA-DR+ CD38+ Th1 | 4 (1, 11) | 4 (2, 14) | 3 (0, 8) | -1.71 | 0.4123 | -1.76 | 0.4324 |
| Ki67+ Th1 | 3 (0, 9) | 3 (0, 11) | 3 (2, 5) | 0 | 1 | 1.13 | 0.2351 |
| PD-1+ Th1 | 68 (41, 81) | 67 (42, 81) | 69 (39, 81) | -3 | 0.7358 | -11.45 | 0.2561 |
| TCF-1+ Th1 | 18 (8, 31) | 15 (7, 31) | 24 (10, 37) | 3.8 | 0.5835 | 3.48 | 0.6986 |
| CD161+ CCR6+ Th1 | 6 (4, 10) | 6 (4, 10) | 6 (4, 12) | 0.7 | 0.4213 | 0.81 | 0.3618 |
| CCR5+ Th17 | 96 (91, 99) | 96 (88, 100) | 97 (93, 99) | 1.2 | 0.5302 | 2.64 | 0.2767 |

| | | | | | | | |
|--------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CCR7+ CD45RA+ Th17 | 0.00 (0.00, 2.33) | 0.34 (0.00, 2.87) | 0.00 (0.00, 0.28) | 0 | 1 | 0 | 0.9951 |
| CCR7+ CD45RA- Th17 | 12 (6, 25) | 12 (4, 26) | 13 (7, 19) | 2.06 | 0.5762 | 0.23 | 0.9604 |
| CCR7- CD45RA+ Th17 | 0.00 (0.00, 0.57) | 0.00 (0.00, 2.03) | 0.00 (0.00, 0.00) | 0 | 1 | 0 | 1 |
| CCR7- CD45RA- Th17 | 84 (70, 93) | 80 (69, 95) | 88 (74, 93) | 0.27 | 0.9549 | 3.56 | 0.52 |
| CD38+ Th17 | 5 (1, 13) | 6 (1, 17) | 4 (0, 9) | -1.55 | 0.4666 | -0.75 | 0.7314 |
| CD39+ Th17 | 57 (32, 76) | 52 (16, 77) | 59 (47, 71) | 7.96 | 0.4029 | 6.23 | 0.5373 |
| CD101+ Th17 | 53 (24, 74) | 47 (17, 65) | 65 (52, 79) | 23.03 | 0.0132 | 27.02 | 0.0024 |
| CD103+ CD69+ Th17 | 50 (23, 67) | 49 (22, 60) | 59 (43, 78) | 17.95 | 0.0293 | 21.15 | 0.0059 |
| CD103+ CD69- Th17 | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Th17 | 39 (20, 60) | 39 (22, 64) | 38 (20, 50) | -4.27 | 0.6272 | -4.5 | 0.6827 |
| CD103- CD69- Th17 | 3 (0, 6) | 3 (1, 7) | 1 (0, 3) | -1.17 | 0.3898 | -1.35 | 0.423 |
| CTLA-4+ Th17 | 10 (3, 23) | 13 (6, 27) | 7 (2, 11) | -5.9 | 0.1426 | -3.87 | 0.4037 |
| CXCR3+ Th17 | 26 (17, 48) | 34 (19, 54) | 18 (15, 41) | -8.04 | 0.2032 | -12.5 | 0.0613 |
| GrzB+ Th17 | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 3.71) | 0 | 1 | 0 | 1 |
| HLA-DR+ Th17 | 45 (31, 60) | 38 (28, 69) | 48 (36, 52) | -1.36 | 0.8604 | 1 | 0.9151 |
| HLA-DR+ CD38+ Th17 | 2 (0, 7) | 3 (0, 7) | 2 (0, 4) | -1.02 | 0.296 | 0 | 1 |
| Ki67+ Th17 | 5 (1, 8) | 5 (1, 8) | 5 (2, 9) | 0 | 1 | 1.13 | 0.2351 |
| PD-1+ Th17 | 68 (47, 84) | 71 (40, 86) | 65 (50, 75) | -7.5 | 0.2902 | -3.27 | 0.6899 |
| TCF-1+ Th17 | 10 (5, 22) | 13 (6, 28) | 8 (2, 18) | -5.36 | 0.1293 | -5.68 | 0.1451 |

Table S3.8

**Conventional T helper cells distribution for EctoCx Biopsy FBS/DMSO specimen
comparing BV positive vs negative**

| Characteristic | Expected Max N | Missing | N | BV Positive | BV Negative | |
|------------------------|-------------------|---------|----|-------------|-------------|-----|
| CD25- CD127-+ | 178 | | 12 | 166 | 47 | 119 |
| CCR5+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CCR6+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CCR7+ | | | | | | |
| CD45RA+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CCR7+ CD45RA- Tconv | 166 | | 2 | 164 | 46 | 118 |
| CCR7- | | | | | | |
| CD45RA+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CCR7- CD45RA- Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD38+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD39+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD69+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD101+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD103+ CD69+ Tconv | 166 | | 2 | 164 | 46 | 118 |
| CD103+ CD69- Tconv | 166 | | 2 | 164 | 46 | 118 |

| | | | | | |
|------------------------|-----|-----|-----|----|-----|
| CD103- CD69+ Tconv | 166 | 2 | 164 | 46 | 118 |
| CD103- CD69- Tconv | 166 | 2 | 164 | 46 | 118 |
| CTLA-4+ Tconv | 166 | 2 | 164 | 46 | 118 |
| CXCR3+ Tconv | 166 | 2 | 164 | 46 | 118 |
| GrzB+ Tconv | 166 | 2 | 164 | 46 | 118 |
| HLA-DR+ Tconv | 166 | 2 | 164 | 46 | 118 |
| HLA-DR+ CD38+ Tconv | 166 | 2 | 164 | 46 | 118 |
| Ki67+ Tconv | 166 | 101 | 65 | 15 | 50 |
| PD-1+ Tconv | 166 | 2 | 164 | 46 | 118 |
| PD-1+TCF-1- Tconv | 166 | 2 | 164 | 46 | 118 |
| TCF-1+ Tconv | 166 | 2 | 164 | 46 | 118 |
| Tbet+ | 166 | 2 | 164 | 46 | 118 |
| CCR5+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CCR7+ CD45RA+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CCR7+ CD45RA- Th1 | 164 | 125 | 39 | 14 | 25 |
| CCR7- CD45RA+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CCR7- CD45RA- Th1 | 164 | 125 | 39 | 14 | 25 |
| CD38+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CD39+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CD101+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CD103+ CD69+ Th1 | 164 | 125 | 39 | 14 | 25 |

| | | | | | |
|-----------------------|-----|-----|-----|----|-----|
| CD103+ CD69- Th1 | 164 | 125 | 39 | 14 | 25 |
| CD103- CD69+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CD103- CD69- Th1 | 164 | 125 | 39 | 14 | 25 |
| CTLA-4+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CXCR3+ Th1 | 164 | 125 | 39 | 14 | 25 |
| GrzB+ Th1 | 164 | 125 | 39 | 14 | 25 |
| HLA-DR+ Th1 | 164 | 125 | 39 | 14 | 25 |
| HLA-DR+ CD38+ Th1 | 164 | 125 | 39 | 14 | 25 |
| Ki67+ Th1 | 164 | 155 | 9 | 2 | 7 |
| PD-1+ Th1 | 164 | 125 | 39 | 14 | 25 |
| TCF-1+ Th1 | 164 | 125 | 39 | 14 | 25 |
| CD161+ CCR6+ | 166 | 2 | 164 | 46 | 118 |
| CCR5+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CCR7+ CD45RA+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CCR7+ CD45RA- Th17 | 164 | 108 | 56 | 20 | 36 |
| CCR7- CD45RA+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CCR7- CD45RA- Th17 | 164 | 108 | 56 | 20 | 36 |
| CD38+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CD39+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CD101+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CD103+ CD69+ Th17 | 164 | 108 | 56 | 20 | 36 |

| | | | | | |
|-----------------------|-----|-----|----|----|----|
| CD103+ CD69- Th17 | 164 | 108 | 56 | 20 | 36 |
| CD103- CD69+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CD103- CD69- Th17 | 164 | 108 | 56 | 20 | 36 |
| CTLA-4+ Th17 | 164 | 108 | 56 | 20 | 36 |
| CXCR3+ Th17 | 164 | 108 | 56 | 20 | 36 |
| GrzB+ Th17 | 164 | 108 | 56 | 20 | 36 |
| HLA-DR+ Th17 | 164 | 108 | 56 | 20 | 36 |
| HLA-DR+ CD38+ Th17 | 164 | 108 | 56 | 20 | 36 |
| Ki67+ Th17 | 164 | 148 | 16 | 5 | 11 |
| PD-1+ Th17 | 164 | 108 | 56 | 20 | 36 |
| TCF-1+ Th17 | 164 | 108 | 56 | 20 | 36 |

A regression model estimating the association of BV status (Positive vs Negative) with conventional T helper cells' concentration from EctoCx Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| Tconv cells | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p-value | Adjusted Beta | Adjusted p- value |
|------------------------|-------------------|-------------------|-------------------|--------------------|-----------------------|------------------|----------------------|
| CD25- CD127-+ | 91.4 (86.7, 94.4) | 91.4 (87.4, 94.0) | 90.5 (85.8, 94.9) | -0.5 | 0.5719 | -0.55 | 0.5907 |
| CCR5+ Tconv | 62 (29, 86) | 61 (30, 85) | 70 (24, 87) | 2.4 | 0.6179 | 1.53 | 0.7716 |
| CCR6+ Tconv | 15 (9, 22) | 15 (9, 22) | 15 (10, 22) | 0.9 | 0.5368 | 0.44 | 0.788 |
| CCR7+ CD45RA+ Tconv | 11 (2, 28) | 13 (4, 27) | 10 (1, 28) | -1.37 | 0.4519 | -1.38 | 0.5254 |

| | | | | | | | |
|------------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CCR7+ CD45RA- Tconv | 16 (10, 22) | 16 (11, 22) | 13 (9, 23) | -1.3 | 0.3586 | -1.27 | 0.4248 |
| CCR7- CD45RA+ Tconv | 2.8 (0.9, 5.5) | 2.9 (0.9, 6.0) | 2.4 (1.0, 5.0) | -0.35 | 0.4445 | -0.34 | 0.5244 |
| CCR7- CD45RA- Tconv | 65 (44, 82) | 64 (45, 80) | 70 (44, 87) | 3 | 0.4348 | 2.67 | 0.5188 |
| CD38+ Tconv | 12 (5, 21) | 11 (5, 19) | 18 (7, 22) | 3.23 | 0.066 | 3.01 | 0.1091 |
| CD39+ Tconv | 13 (4, 37) | 12 (5, 34) | 15 (4, 39) | 0.53 | 0.8157 | 0.5 | 0.8667 |
| CD69+ Tconv | 56 (12, 85) | 54 (13, 83) | 59 (8, 86) | 0.4 | 0.9268 | 1.46 | 0.7789 |
| CD101+ Tconv | 22 (8, 47) | 22 (8, 41) | 22 (11, 57) | 3.1 | 0.361 | 4.47 | 0.2583 |
| CD103+ CD69+ Tconv | 17 (4, 42) | 16 (4, 42) | 19 (2, 42) | 0 | 1 | 0.53 | 0.8926 |
| CD103+ CD69- Tconv | 0.13 (0.00, 0.50) | 0.00 (0.00, 0.47) | 0.27 (0.00, 0.66) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Tconv | 20 (5, 41) | 19 (5, 41) | 22 (4, 40) | 0.4 | 0.8919 | 1.92 | 0.6056 |
| CD103- CD69- Tconv | 44 (15, 87) | 46 (17, 86) | 44 (13, 90) | -0.48 | 0.9147 | -1.44 | 0.7828 |
| CTLA-4+ Tconv | 4 (2, 10) | 4 (2, 9) | 4 (1, 12) | 0.14 | 0.8595 | 0.05 | 0.9536 |
| CXCR3+ Tconv | 31 (21, 43) | 31 (21, 45) | 32 (21, 39) | -1.7 | 0.575 | -2.29 | 0.4947 |
| GrzB+ Tconv | 1.9 (0.4, 4.8) | 1.9 (0.4, 4.4) | 2.1 (0.4, 5.6) | 0.24 | 0.4799 | 0.4 | 0.3374 |
| HLA-DR+ Tconv | 25 (9, 40) | 24 (9, 40) | 28 (13, 39) | 1.7 | 0.5581 | 1.55 | 0.6607 |
| HLA-DR+ CD38+ Tconv | 1.5 (0.5, 3.6) | 1.4 (0.5, 3.1) | 1.6 (0.9, 5.9) | 0.27 | 0.4246 | 0.35 | 0.3406 |
| Ki67+ Tconv | 2.3 (0.9, 5.1) | 2.0 (0.7, 5.0) | 2.7 (1.5, 5.6) | 0.53 | 0.4947 | 0.52 | 0.5148 |
| PD-1+ Tconv | 35 (16, 57) | 33 (15, 57) | 39 (18, 63) | 3.9 | 0.2971 | 3.83 | 0.3309 |
| PD-1+TCF-1- Tconv | 27 (10, 45) | 27 (10, 44) | 28 (10, 46) | 1.47 | 0.6669 | 0.8 | 0.8223 |

| | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------|--------|--------|--------|
| TCF-1+ Tconv | 43 (19, 60) | 42 (20, 57) | 43 (19, 65) | 0.61 | 0.8991 | 0.64 | 0.8956 |
| Tbet+ | 3.0 (1.4, 6.1) | 2.9 (1.1, 5.7) | 3.5 (1.9, 6.6) | 0.57 | 0.2871 | 0.59 | 0.2949 |
| CCR5+ Th1 | 84 (70, 98) | 85 (70, 98) | 81 (70, 96) | 0 | 1 | -1.79 | 0.8019 |
| CCR7+ CD45RA+ Th1 | 1.6 (0.0, 2.9) | 1.6 (0.0, 2.9) | 1.9 (0.0, 2.9) | 0 | 1 | 0.04 | 0.9764 |
| CCR7+ CD45RA- Th1 | 11 (3, 15) | 10 (3, 14) | 11 (3, 21) | 1.1 | 0.7198 | 1.96 | 0.5246 |
| CCR7- CD45RA+ Th1 | 4 (0, 10) | 3 (0, 10) | 6 (2, 9) | 1.45 | 0.497 | 1.61 | 0.5283 |
| CCR7- CD45RA- Th1 | 78 (68, 92) | 81 (68, 91) | 77 (64, 90) | -2.03 | 0.7621 | -2.47 | 0.7479 |
| CD38+ Th1 | 13 (7, 25) | 13 (9, 19) | 8 (5, 38) | -2.52 | 0.5028 | -5.34 | 0.2254 |
| CD39+ Th1 | 13 (4, 28) | 15 (7, 30) | 4 (2, 22) | -4.02 | 0.4303 | -10.95 | 0.2051 |
| CD101+ Th1 | 35 (12, 55) | 26 (10, 56) | 42 (23, 54) | 7.32 | 0.4167 | 13.75 | 0.2556 |
| CD103+ CD69+ Th1 | 6 (0, 19) | 6 (0, 17) | 3 (0, 22) | 0 | 1 | -4.76 | 0.4194 |
| CD103+ CD69- Th1 | 0.00 (0.00, 0.05) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.17) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Th1 | 22 (11, 52) | 22 (13, 55) | 16 (4, 46) | -8.9 | 0.2788 | -11.16 | 0.3275 |
| CD103- CD69- Th1 | 50 (9, 88) | 44 (8, 79) | 82 (13, 95) | 10.56 | 0.293 | 12.89 | 0.3617 |
| CTLA-4+ Th1 | 9 (1, 18) | 10 (5, 17) | 2 (0, 22) | -3.12 | 0.3442 | -4.42 | 0.2962 |
| CXCR3+ Th1 | 57 (38, 71) | 57 (39, 72) | 59 (39, 67) | -3.76 | 0.6623 | -5.8 | 0.5873 |
| GrzB+ Th1 | 26 (2, 72) | 14 (1, 59) | 41 (12, 84) | 16.1 | 0.1546 | 21.34 | 0.1259 |
| HLA-DR+ Th1 | 36 (24, 67) | 36 (27, 55) | 37 (21, 70) | 0.79 | 0.9328 | -6.84 | 0.4929 |
| HLA-DR+ CD38+ Th1 | 10 (3, 19) | 10 (4, 19) | 8 (3, 21) | 0.4 | 0.9034 | -3.66 | 0.4093 |
| Ki67+ Th1 | 6 (6, 16) | 6 (5, 11) | 25 (18, 32) | 17.19 | 0.161 | 25.64 | 0.0984 |
| PD-1+ Th1 | 64 (40, 82) | 64 (40, 75) | 64 (37, 84) | 3.94 | 0.6746 | 5.38 | 0.6746 |

| | | | | | | | |
|--------------------|-------------------|-------------------|-------------------|-------|--------|--------|--------|
| TCF-1+ Th1 | 21 (14, 39) | 23 (16, 40) | 19 (14, 30) | -6.2 | 0.3501 | -10.58 | 0.1458 |
| CD161+ CCR6+ | 6.3 (3.9, 10.1) | 6.1 (4.0, 9.8) | 7.1 (3.8, 12.2) | 0.58 | 0.4554 | 0.33 | 0.7036 |
| CCR5+ Th17 | 89 (71, 95) | 89 (71, 93) | 88 (70, 97) | 0.7 | 0.8465 | 5.23 | 0.1931 |
| CCR7+ CD45RA+ Th17 | 0.38 (0.00, 2.01) | 0.33 (0.00, 2.01) | 0.91 (0.00, 1.73) | 0 | 1 | -0.07 | 0.8357 |
| CCR7+ CD45RA- Th17 | 16 (10, 28) | 16 (10, 28) | 16 (10, 35) | 0.97 | 0.7939 | 0.98 | 0.8228 |
| CCR7- CD45RA+ Th17 | 0.00 (0.00, 0.79) | 0.00 (0.00, 0.53) | 0.00 (0.00, 0.85) | 0 | 1 | 0 | 1 |
| CCR7- CD45RA- Th17 | 81 (69, 88) | 82 (71, 88) | 80 (63, 88) | -1.4 | 0.72 | 0.41 | 0.9326 |
| CD38+ Th17 | 11 (4, 22) | 10 (4, 18) | 11 (5, 39) | 4.66 | 0.2257 | 6.18 | 0.1406 |
| CD39+ Th17 | 45 (14, 63) | 44 (13, 63) | 53 (20, 71) | 3.9 | 0.6266 | 2.66 | 0.7689 |
| CD101+ Th17 | 39 (16, 76) | 36 (16, 71) | 52 (16, 80) | 4.85 | 0.5073 | 11.9 | 0.1884 |
| CD103+ CD69+ Th17 | 33 (15, 62) | 31 (12, 61) | 39 (17, 70) | 3.5 | 0.6841 | 8.02 | 0.3772 |
| CD103+ CD69- Th17 | 0.00 (0.00, 0.46) | 0.00 (0.00, 0.26) | 0.00 (0.00, 0.90) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Th17 | 31 (9, 52) | 32 (15, 54) | 24 (8, 47) | -5.43 | 0.473 | -3.23 | 0.7132 |
| CD103- CD69- Th17 | 10 (2, 34) | 10 (3, 32) | 10 (2, 41) | -0.35 | 0.9372 | -5.85 | 0.3004 |
| CTLA-4+ Th17 | 13 (4, 26) | 13 (7, 19) | 13 (2, 28) | -0.34 | 0.9208 | 1.24 | 0.7772 |
| CXCR3+ Th17 | 38 (21, 48) | 38 (25, 49) | 36 (20, 44) | -3.7 | 0.4894 | -3.09 | 0.5853 |
| GrzB+ Th17 | 0.00 (0.00, 0.14) | 0.00 (0.00, 0.72) | 0.00 (0.00, 0.00) | 0 | 1 | 0 | 1 |
| HLA-DR+ Th17 | 45 (23, 65) | 45 (23, 61) | 46 (29, 70) | 3.05 | 0.7202 | 7.2 | 0.3991 |
| HLA-DR+ CD38+ Th17 | 5 (2, 13) | 6 (1, 11) | 5 (2, 21) | 2.63 | 0.2297 | 4.63 | 0.0514 |

| | | | | | | | |
|-------------|-----------------|-----------------|-----------------|------|--------|-------|--------|
| Ki67+ Th17 | 7.3 (3.1, 13.0) | 5.3 (2.8, 10.5) | 8.1 (7.3, 13.7) | 3.87 | 0.3186 | 4.31 | 0.2214 |
| PD-1+ Th17 | 68 (38, 77) | 68 (40, 76) | 69 (34, 81) | 1.59 | 0.8027 | 4.8 | 0.5425 |
| TCF-1+ Th17 | 25 (11, 36) | 22 (11, 35) | 26 (10, 51) | 2.02 | 0.7254 | -1.75 | 0.7722 |

Table S3.9**Conventional T helper cells distribution for PBMC ACD specimen comparing BV positive vs negative**

| Characteristic | Expected | | N | BV Positive | BV Negative |
|------------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | | | |
| CD25- CD127-+ | 200 | 0 | 200 | 60 | 140 |
| CCR5+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CCR6+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CCR7+ | | | | | |
| CD45RA+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- Tconv | 200 | 0 | 200 | 60 | 140 |
| CCR7- | | | | | |
| CD45RA+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA- Tconv | 200 | 0 | 200 | 60 | 140 |
| CD38+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD39+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD69+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD101+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69- Tconv | 200 | 0 | 200 | 60 | 140 |

| | | | | | |
|------------------------|-----|-----|-----|----|-----|
| CD103- CD69+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69- Tconv | 200 | 0 | 200 | 60 | 140 |
| CTLA-4+ Tconv | 200 | 0 | 200 | 60 | 140 |
| CXCR3+ Tconv | 200 | 0 | 200 | 60 | 140 |
| GrzB+ Tconv | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ Tconv | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD38+ Tconv | 200 | 0 | 200 | 60 | 140 |
| Ki67+ Tconv | 200 | 120 | 80 | 22 | 58 |
| PD-1+ Tconv | 200 | 0 | 200 | 60 | 140 |
| PD-1+TCF-1- Tconv | 200 | 0 | 200 | 60 | 140 |
| TCF-1+ Tconv | 200 | 0 | 200 | 60 | 140 |
| Tbet+ | 200 | 0 | 200 | 60 | 140 |
| CCR5+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- Th1 | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA- Th1 | 200 | 0 | 200 | 60 | 140 |
| CD38+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CD39+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CD101+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69+ Th1 | 200 | 0 | 200 | 60 | 140 |

| | | | | | |
|-----------------------|-----|-----|-----|----|-----|
| CD103+ CD69- Th1 | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69- Th1 | 200 | 0 | 200 | 60 | 140 |
| CTLA-4+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CXCR3+ Th1 | 200 | 0 | 200 | 60 | 140 |
| GrzB+ Th1 | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ Th1 | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD38+ Th1 | 200 | 0 | 200 | 60 | 140 |
| Ki67+ Th1 | 200 | 120 | 80 | 22 | 58 |
| PD-1+ Th1 | 200 | 0 | 200 | 60 | 140 |
| TCF-1+ Th1 | 200 | 0 | 200 | 60 | 140 |
| CD161+ CCR6+ | 200 | 0 | 200 | 60 | 140 |
| CCR5+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- Th17 | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA- Th17 | 200 | 0 | 200 | 60 | 140 |
| CD38+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CD39+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CD101+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69+ Th17 | 200 | 0 | 200 | 60 | 140 |

| | | | | | |
|-----------------------|-----|-----|-----|----|-----|
| CD103+ CD69- Th17 | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69- Th17 | 200 | 0 | 200 | 60 | 140 |
| CTLA-4+ Th17 | 200 | 0 | 200 | 60 | 140 |
| CXCR3+ Th17 | 200 | 0 | 200 | 60 | 140 |
| GrzB+ Th17 | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ Th17 | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD38+ Th17 | 200 | 0 | 200 | 60 | 140 |
| Ki67+ Th17 | 200 | 120 | 80 | 22 | 58 |
| PD-1+ Th17 | 200 | 0 | 200 | 60 | 140 |
| TCF-1+ Th17 | 200 | 0 | 200 | 60 | 140 |

A regression model estimating the association of BV status (Positive vs Negative) with conventional T helper cells' concentration from PBMC ACD specimen, adjusted for hormonal contraceptive use

| Tconv cells | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p- value | Adjusted Beta | Adjusted p- value |
|---------------|------------------|------------------|------------------|--------------------|------------------------|------------------|----------------------|
| | 95.20 (94.18, | 95.20 (94.10, | 95.35 (94.20, | | | | |
| CD25- CD127-+ | 96.40) | 96.40) | 96.18) | 0 | 1 | 0 | 1 |
| CCR5+ Tconv | 13 (9, 17) | 13 (9, 17) | 12 (9, 17) | -0.3 | 0.7375 | -0.73 | 0.4413 |
| CCR6+ Tconv | 14 (11, 19) | 14 (11, 19) | 14 (11, 18) | 0.2 | 0.8348 | -0.2 | 0.8521 |
| CCR7+ | | | | | | | |
| CD45RA+ Tconv | 37 (28, 45) | 36 (28, 46) | 38 (29, 45) | 1 | 0.6205 | 1.5 | 0.4824 |

| | | | | | | | |
|------------------------|----------------------------|----------------------------|----------------------------|-------|--------|-------|--------|
| CCR7+ CD45RA- Tconv | 20 (15, 25) | 20 (15, 25) | 19 (15, 25) | -0.3 | 0.7702 | -0.4 | 0.7165 |
| CCR7- CD45RA+ Tconv | 7.0 (4.3, 10.8) | 7.0 (4.4, 10.8) | 6.8 (4.2, 10.6) | -0.21 | 0.7502 | -0.09 | 0.8942 |
| CCR7- CD45RA- Tconv | 34 (26, 43) | 35 (26, 43) | 32 (24, 42) | -1.9 | 0.3091 | -2.6 | 0.195 |
| CD38+ Tconv | 21 (13, 32) | 21 (14, 32) | 20 (12, 33) | -0.2 | 0.9097 | 0.6 | 0.7558 |
| CD39+ Tconv | 3.45 (2.07, 4.67) | 3.45 (1.87, 4.64) | 3.45 (2.28, 4.68) | 0.14 | 0.6364 | 0.11 | 0.73 |
| CD69+ Tconv | 0.86 (0.59, 1.30) | 0.88 (0.60, 1.28) | 0.81 (0.59, 1.32) | -0.02 | 0.7785 | -0.06 | 0.3942 |
| CD101+ Tconv | 4.7 (2.8, 7.7) | 4.3 (2.8, 7.6) | 5.2 (2.9, 8.1) | 0.22 | 0.6846 | 0.39 | 0.4913 |
| CD103+ CD69+ Tconv | 0.009 (0.005, 0.019) | 0.009 (0.005, 0.017) | 0.009 (0.004, 0.023) | 0 | 0.8643 | 0 | 0.6694 |
| CD103+ CD69- Tconv | 0.46 (0.33, 0.62) | 0.49 (0.35, 0.62) | 0.40 (0.33, 0.64) | -0.05 | 0.128 | -0.05 | 0.153 |
| CD103- CD69+ Tconv | 0.81 (0.57, 1.18) | 0.86 (0.59, 1.18) | 0.76 (0.52, 1.17) | -0.07 | 0.2722 | -0.09 | 0.2227 |
| CD103- CD69- Tconv | 98.70 (98.20, 99.00) | 98.70 (98.30, 99.00) | 98.80 (98.20, 99.10) | 0.1 | 0.4936 | 0.1 | 0.5059 |
| CTLA-4+ Tconv | 1.33 (0.83, 1.92) | 1.34 (0.83, 1.96) | 1.24 (0.85, 1.76) | -0.09 | 0.4868 | -0.1 | 0.431 |
| CXCR3+ Tconv | 22 (16, 30) | 23 (17, 30) | 20 (9, 31) | -2.3 | 0.2112 | -3.4 | 0.0797 |
| GrzB+ Tconv | 2.6 (1.2, 5.4) | 3.0 (1.4, 5.5) | 1.8 (0.9, 4.0) | -0.68 | 0.0573 | -0.8 | 0.0393 |
| HLA-DR+ Tconv | 4.80 (3.64, 6.21) | 4.83 (3.60, 6.15) | 4.66 (3.69, 7.10) | 0.13 | 0.685 | 0.01 | 0.9755 |

| | | | | | | | |
|---------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| HLA-DR+ CD38+ Tconv | 1.38 (1.03, 1.85) | 1.33 (1.04, 1.76) | 1.54 (0.98, 2.29) | 0.13 | 0.1834 | 0.12 | 0.2266 |
| Ki67+ Tconv | 0.90 (0.65, 1.19) | 0.91 (0.65, 1.25) | 0.86 (0.62, 1.14) | -0.03 | 0.7871 | -0.01 | 0.9297 |
| PD-1+ Tconv | 8.9 (6.7, 12.8) | 8.8 (6.8, 13.1) | 9.2 (6.6, 12.0) | 0 | 1 | -0.17 | 0.8046 |
| PD-1+TCF-1- Tconv | 4.2 (2.3, 6.6) | 4.2 (2.3, 6.7) | 3.9 (2.2, 6.3) | -0.25 | 0.5873 | -0.3 | 0.5131 |
| TCF-1+ Tconv | 79 (64, 85) | 79 (63, 85) | 75 (65, 86) | 0.2 | 0.9227 | 0.6 | 0.7848 |
| Tbet+ CCR5+ Th1 | 4.8 (2.6, 8.0) | 5.0 (2.9, 7.9) | 4.2 (2.2, 8.2) | -0.41 | 0.4555 | -0.53 | 0.3713 |
| CCR7+ CD45RA+ Th1 | 68 (51, 80) | 67 (49, 79) | 73 (58, 83) | 5.3 | 0.0773 | 3.6 | 0.2653 |
| CCR7+ CD45RA- Th1 | 6 (3, 12) | 6 (3, 11) | 6 (3, 15) | 0.75 | 0.3133 | 0.66 | 0.4006 |
| CCR7- CD45RA+ Th1 | 7 (4, 14) | 7 (4, 14) | 7 (4, 14) | -0.9 | 0.3326 | -0.73 | 0.4588 |
| CCR7- CD45RA- Th1 | 8 (4, 14) | 8 (4, 14) | 9 (5, 16) | 0.64 | 0.5204 | 0.9 | 0.3712 |
| CD38+ Th1 | 73 (61, 82) | 73 (61, 80) | 72 (61, 82) | -0.9 | 0.698 | -1.1 | 0.6495 |
| CD39+ Th1 | 13 (8, 19) | 13 (8, 18) | 16 (9, 28) | 3.4 | 0.0095 | 3.1 | 0.0239 |
| CD101+ Th1 | 3.8 (1.7, 6.5) | 3.7 (1.7, 5.5) | 3.9 (1.9, 8.6) | 0.67 | 0.1202 | 0.44 | 0.3153 |
| CD103+ CD69+ Th1 | 14 (8, 30) | 13 (8, 25) | 18 (8, 39) | 2.8 | 0.1589 | 3.38 | 0.1123 |
| CD103+ CD69- Th1 | 0.00 (0.00, 0.05) | 0.00 (0.00, 0.04) | 0.00 (0.00, 0.10) | 0 | 1 | 0 | 1 |
| CD103- CD69+ Th1 | 0.19 (0.10, 0.37) | 0.19 (0.11, 0.36) | 0.17 (0.06, 0.52) | 0 | 1 | 0 | 0.9998 |
| CD103- CD69- Th1 | 2.69 (1.62, 4.31) | 2.69 (1.59, 4.20) | 2.69 (1.68, 4.67) | 0.09 | 0.7612 | 0 | 1 |

| | | | | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|-------|--------|-------|--------|
| CD103- CD69- Th1 | 96.95 (95.38, 98.20) | 97.00 (95.48, 98.20) | 96.90 (94.95, 98.05) | -0.2 | 0.4827 | -0.05 | 0.8796 |
| CTLA-4+ Th1 | 2.32 (1.16, 4.34) | 2.31 (1.13, 4.12) | 2.43 (1.19, 5.32) | 0.18 | 0.5726 | 0.17 | 0.6047 |
| CXCR3+ Th1 | 31 (16, 57) | 30 (20, 55) | 31 (9, 60) | -2.3 | 0.5354 | -4 | 0.3115 |
| GrzB+ Th1 | 57 (34, 72) | 60 (39, 72) | 44 (28, 62) | -10.1 | 0.0076 | -9.77 | 0.0104 |
| HLA-DR+ Th1 | 25 (18, 33) | 24 (17, 31) | 27 (19, 37) | 3.4 | 0.0544 | 3.33 | 0.0824 |
| HLA-DR+ CD38+ Th1 | 6.6 (4.1, 11.5) | 6.3 (4.0, 10.4) | 8.8 (4.2, 16.0) | 2 | 0.0069 | 1.57 | 0.032 |
| Ki67+ Th1 | 4.7 (2.3, 7.2) | 4.4 (2.3, 6.8) | 5.3 (3.1, 10.9) | 1.04 | 0.2503 | 1.08 | 0.2239 |
| PD-1+ Th1 | 39 (25, 51) | 38 (25, 50) | 40 (24, 51) | 0.83 | 0.7729 | 0.27 | 0.9242 |
| TCF-1+ Th1 | 33 (19, 49) | 31 (19, 47) | 36 (21, 50) | 4.1 | 0.1961 | 4.16 | 0.2082 |
| CD161+ CCR6+ CCR5+ Th17 | 4.78 (3.35, 6.06) | 4.81 (3.25, 6.06) | 4.76 (3.42, 5.98) | 0.03 | 0.9311 | -0.12 | 0.7336 |
| CCR7+ CD45RA+ Th17 | 29 (23, 37) | 29 (23, 36) | 30 (24, 37) | 0.6 | 0.7062 | 0.1 | 0.9503 |
| CCR7+ CD45RA- Th17 | 2.8 (1.8, 4.7) | 2.9 (1.9, 4.7) | 2.8 (1.6, 5.9) | 0.07 | 0.8264 | 0.01 | 0.9752 |
| CCR7- CD45RA+ Th17 | 33 (25, 42) | 33 (25, 42) | 33 (23, 43) | 0.9 | 0.6297 | 1.6 | 0.4102 |
| CCR7- CD45RA- Th17 | 0.99 (0.58, 1.51) | 0.99 (0.60, 1.48) | 0.98 (0.53, 1.61) | 0 | 1 | -0.03 | 0.7635 |
| CD38+ Th17 | 61 (53, 71) | 62 (54, 71) | 60 (48, 71) | -1.9 | 0.361 | -2.7 | 0.2383 |
| CD39+ Th17 | 12 (8, 16) | 12 (8, 15) | 13 (7, 17) | 0.38 | 0.6873 | 0.71 | 0.4789 |
| CD101+ Th17 | 7.1 (4.0, 11.4) | 7.2 (3.8, 11.3) | 6.5 (4.3, 11.6) | -0.02 | 0.9782 | -0.03 | 0.9691 |
| | 5.7 (3.2, 10.2) | 5.8 (3.2, 10.2) | 5.5 (3.3, 9.4) | 0.06 | 0.923 | 0.08 | 0.9047 |

| | | | | | | | |
|--------------------|----------------------|----------------------|----------------------|-------|--------|-------|--------|
| CD103+ CD69+ Th17 | 0.06 (0.00, 0.12) | 0.06 (0.01, 0.11) | 0.05 (0.00, 0.14) | 0 | 1 | 0 | 0.7556 |
| CD103+ CD69- Th17 | 1.82 (1.14, 2.59) | 1.95 (1.27, 2.80) | 1.63 (1.05, 2.21) | -0.31 | 0.0547 | -0.23 | 0.1686 |
| CD103- CD69+ Th17 | 1.38 (0.95, 2.42) | 1.46 (0.96, 2.44) | 1.24 (0.89, 2.16) | -0.11 | 0.4191 | -0.16 | 0.2544 |
| CD103- CD69- Th17 | 96.50 (95.00, 97.50) | 96.40 (94.80, 97.33) | 97.20 (95.58, 97.90) | 0.5 | 0.0838 | 0.55 | 0.047 |
| CTLA-4+ Th17 | 4.2 (2.4, 6.9) | 4.2 (2.6, 6.9) | 4.1 (2.3, 6.4) | -0.33 | 0.4823 | -0.4 | 0.3961 |
| CXCR3+ Th17 | 35 (23, 41) | 35 (25, 41) | 34 (15, 42) | -2.3 | 0.2922 | -3.44 | 0.1258 |
| GrzB+ Th17 | 0.39 (0.17, 1.14) | 0.44 (0.19, 1.28) | 0.33 (0.11, 0.81) | -0.11 | 0.0989 | -0.12 | 0.0912 |
| HLA-DR+ Th17 | 6.1 (4.3, 8.5) | 6.1 (4.3, 8.4) | 6.2 (4.6, 8.9) | 0.2 | 0.6631 | 0 | 1 |
| HLA-DR+ CD38+ Th17 | 2.05 (1.27, 3.37) | 1.95 (1.25, 3.23) | 2.24 (1.37, 3.73) | 0.19 | 0.3314 | 0.16 | 0.4363 |
| Ki67+ Th17 | 1.33 (0.79, 1.90) | 1.40 (0.79, 2.02) | 1.26 (0.90, 1.69) | -0.2 | 0.2785 | -0.21 | 0.259 |
| PD-1+ Th17 | 15 (11, 20) | 15 (11, 20) | 15 (11, 19) | 0.2 | 0.8552 | 0.1 | 0.9273 |
| TCF-1+ Th17 | 75 (61, 85) | 75 (61, 84) | 74 (61, 87) | 1 | 0.6649 | 1 | 0.6827 |

Table S3.10

Regulatory T cell distribution for Vag Biopsy FBS/DMSO specimen comparing BV positive vs negative

| Characteristic | Expected | | N | BV Positive | BV Negative |
|---------------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | | | |
| live CD45+ | 197 | 0 | 197 | 61 | 136 |
| CD3+ | 197 | 6 | 191 | 58 | 133 |
| CD4+ CD8- | 191 | 17 | 174 | 50 | 124 |
| CD25+ CD127 low | 174 | 17 | 157 | 42 | 115 |
| Foxp3+ | 157 | 107 | 50 | 15 | 35 |
| CCR5+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CCR6+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CCR7+ CD45RA+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CCR7+ CD45RA- Tregs | 50 | 29 | 21 | 5 | 16 |
| CCR7- CD45RA+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CCR7- CD45RA- Tregs | 50 | 29 | 21 | 5 | 16 |
| CD38+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CD39+ Tregs | 50 | 29 | 21 | 5 | 16 |

| | | | | | |
|------------------------|----|----|----|---|----|
| CD69+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CD101+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CD103+ CD69+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CD103+ CD69- Tregs | 50 | 29 | 21 | 5 | 16 |
| CD103- CD69+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CD103- CD69- Tregs | 50 | 29 | 21 | 5 | 16 |
| CTLA-4+ Tregs | 50 | 29 | 21 | 5 | 16 |
| CXCR3+ Tregs | 50 | 29 | 21 | 5 | 16 |
| GrzB+ Tregs | 50 | 29 | 21 | 5 | 16 |
| HLA-DR+ Tregs | 50 | 29 | 21 | 5 | 16 |
| HLA-DR+ CD38+ Tregs | 50 | 29 | 21 | 5 | 16 |
| Ki67+ Tregs | 50 | 40 | 10 | 0 | 10 |
| PD-1+ Tregs | 50 | 29 | 21 | 5 | 16 |
| PD-1+TCF-1- Tregs | 50 | 29 | 21 | 5 | 16 |
| TCF-1+ Tregs | 50 | 29 | 21 | 5 | 16 |
| Tbet+ (Th1) | 50 | 29 | 21 | 5 | 16 |
| CD161+ CCR6+ (Th17) | 50 | 29 | 21 | 5 | 16 |

A regression model estimating the association of BV status (Positive vs Negative) with regulatory T cells' concentration from Vag Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| Treg cells | Overall | BV | | Unadjusted Beta | Unadjusted p-value | Adjusted Beta | Adjusted p-value |
|---------------------|-------------------|-------------------|-------------------|-----------------|--------------------|---------------|------------------|
| | | Negative | BV Positive | | | | |
| live CD45+ | 0.88 (0.30, 1.99) | 0.89 (0.36, 2.07) | 0.75 (0.13, 1.75) | -0.19 | 0.158 | -0.21 | 0.1762 |
| CD3+ | 78 (64, 88) | 77 (63, 87) | 83 (70, 89) | 4.1 | 0.0878 | 4.87 | 0.0485 |
| CD4+ CD8- | 43 (31, 56) | 45 (33, 58) | 37 (27, 50) | -6.9 | 0.0312 | -7.18 | 0.0303 |
| CD25+ CD127 low | 6.4 (3.8, 9.4) | 6.5 (3.6, 10.2) | 6.2 (4.3, 8.4) | -0.13 | 0.874 | 0.27 | 0.7366 |
| Foxp3+ | 44 (34, 57) | 46 (36, 62) | 42 (27, 49) | -8.6 | 0.1681 | -7.83 | 0.1491 |
| CCR5+ Tregs | 88 (67, 94) | 81 (63, 94) | 92 (89, 94) | 11.25 | 0.303 | 28.47 | 0.0815 |
| CCR6+ Tregs | 14 (8, 19) | 14 (8, 20) | 16 (11, 19) | 2.34 | 0.6915 | 11.23 | 0.0808 |
| CCR7+ CD45RA+ Tregs | 0.0 (0.0, 2.9) | 0.3 (0.0, 1.8) | 0.0 (0.0, 3.0) | 0 | 1 | 0 | 1 |
| CCR7+ CD45RA- Tregs | 10 (8, 20) | 9 (8, 20) | 11 (9, 33) | 2.33 | 0.6688 | 3.38 | 0.5778 |
| CCR7- CD45RA+ Tregs | 0.00 (0.00, 2.50) | 0.39 (0.00, 2.59) | 0.00 (0.00, 0.00) | 0 | 1 | -2 | 0.0883 |
| CCR7- CD45RA- Tregs | 83 (73, 91) | 82 (76, 91) | 89 (64, 92) | -1.09 | 0.8888 | 4.54 | 0.6457 |
| CD38+ Tregs | 13 (9, 23) | 11 (7, 25) | 13 (10, 21) | 0.21 | 0.969 | -4.08 | 0.5579 |
| CD39+ Tregs | 76 (54, 86) | 80 (52, 89) | 74 (62, 85) | -3.36 | 0.7618 | 13.17 | 0.3921 |
| CD69+ Tregs | 77 (62, 81) | 76 (48, 82) | 77 (76, 79) | -0.41 | 0.9637 | 22.58 | 0.2187 |

| | | | | | | | | |
|------------------------|-------------------|-------------------|-------------------|----|--------|--------|--------|--------|
| CD101+ Tregs | 27 (15, 57) | 27 (15, 58) | 27 (23, 47) | | 1.97 | 0.8828 | 21.5 | 0.2558 |
| CD103+ | | | | | | | | |
| CD69+ Tregs | 13 (3, 20) | 17 (3, 29) | 11 (6, 13) | | -4.35 | 0.6032 | -3.44 | 0.8117 |
| CD103+ CD69- Tregs | 0.00 (0.00, 1.96) | 0.06 (0.00, 2.06) | 0.00 (0.00, 0.00) | | 0 | 1 | -0.96 | 0.3479 |
| CD103- CD69+ Tregs | 61 (37, 65) | 48 (34, 64) | 65 (64, 68) | | 17.93 | 0.1673 | 30.6 | 0.0313 |
| CD103- CD69- Tregs | 23 (18, 37) | 23 (17, 44) | 23 (21, 24) | | 0 | 1 | -13.77 | 0.4187 |
| CTLA-4+ Tregs | 50 (18, 71) | 55 (17, 73) | 36 (21, 39) | | -15.5 | 0.393 | 2.31 | 0.9208 |
| CXCR3+ Tregs | 41 (26, 63) | 32 (20, 44) | 74 (70, 87) | | 41.07 | 0.0004 | 40.95 | 0.0039 |
| GrzB+ Tregs | 0.00 (0.00, 1.96) | 0.00 (0.00, 0.00) | 2.13 (0.00, 3.03) | | 1.18 | 0.993 | 0 | 1 |
| HLA-DR+ Tregs | 58 (50, 83) | 62 (52, 84) | 52 (40, 52) | | -15.31 | 0.1251 | -0.53 | 0.974 |
| HLA-DR+ CD38+ Tregs | 9 (6, 19) | 9 (7, 22) | 9 (6, 11) | | -0.67 | 0.8553 | -6.31 | 0.3472 |
| Ki67+ Tregs | 3.7 (1.7, 7.4) | 3.7 (1.7, 7.4) | NA (NA, NA) | NA | NA | NA | NA | NA |
| PD-1+ Tregs | 61 (44, 72) | 50 (36, 71) | 68 (64, 75) | | 17.7 | 0.1675 | 17.3 | 0.2308 |
| PD-1+TCF-1- Tregs | 50 (27, 64) | 46 (24, 55) | 64 (57, 68) | | 22.37 | 0.092 | 23.95 | 0.055 |
| TCF-1+ Tregs | 10 (4, 23) | 11 (5, 24) | 5 (0, 8) | | -5.25 | 0.3719 | -10.33 | 0.0722 |
| Tbet+ (Th1) | 3 (1, 14) | 3 (1, 8) | 3 (3, 19) | | 1.23 | 0.6415 | -0.54 | 0.9004 |
| CD161+ CCR6+ (Th17) | 6 (3, 12) | 5 (3, 12) | 8 (6, 18) | | 3.23 | 0.4219 | 11.52 | 0.0551 |

Table S3.11

**Regulatory T cell distribution for EctoCx Biopsy FBS/DMSO specimen
comparing BV positive vs negative**

| Characteristic | Expected | | N | BV Positive | | BV Negative | |
|---------------------------|----------|---------|-----|-------------|----|-------------|--|
| | Max N | Missing | | | | | |
| live CD45+ | 197 | | 0 | 197 | 59 | 138 | |
| CD3+ | 197 | | 3 | 194 | 59 | 135 | |
| CD4+ CD8- | 194 | | 16 | 178 | 52 | 126 | |
| CD25+ CD127 low | 178 | | 13 | 165 | 47 | 118 | |
| Foxp3+ | 165 | | 107 | 58 | 17 | 41 | |
| CCR5+ Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CCR6+ Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CCR7+ CD45RA+ Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CCR7+ CD45RA- Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CCR7- CD45RA+ Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CCR7- CD45RA- Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CD38+ Tregs | 58 | | 29 | 29 | 11 | 18 | |
| CD39+ Tregs | 58 | | 29 | 29 | 11 | 18 | |

| | | | | | |
|---------------------|----|----|----|----|----|
| CD69+ Tregs | 58 | 29 | 29 | 11 | 18 |
| CD101+ Tregs | 58 | 29 | 29 | 11 | 18 |
| CD103+ CD69+ Tregs | 58 | 29 | 29 | 11 | 18 |
| CD103+ CD69- Tregs | 58 | 29 | 29 | 11 | 18 |
| CD103- CD69+ Tregs | 58 | 29 | 29 | 11 | 18 |
| CD103- CD69- Tregs | 58 | 29 | 29 | 11 | 18 |
| CTLA-4+ Tregs | 58 | 29 | 29 | 11 | 18 |
| CXCR3+ Tregs | 58 | 29 | 29 | 11 | 18 |
| GrzB+ Tregs | 58 | 29 | 29 | 11 | 18 |
| HLA-DR+ Tregs | 58 | 29 | 29 | 11 | 18 |
| HLA-DR+ CD38+ Tregs | 58 | 29 | 29 | 11 | 18 |
| Ki67+ Tregs | 58 | 47 | 11 | 3 | 8 |
| PD-1+ Tregs | 58 | 29 | 29 | 11 | 18 |
| PD-1+TCF-1- Tregs | 58 | 29 | 29 | 11 | 18 |
| TCF-1+ Tregs | 58 | 29 | 29 | 11 | 18 |
| Tbet+ (Th1) | 58 | 29 | 29 | 11 | 18 |
| CD161+ CCR6+ (Th17) | 58 | 29 | 29 | 11 | 18 |

A regression model estimating the association of BV status (Positive vs Negative) with regulatory T cells' concentration from EctoCx Biopsy FBS/DMSO specimen, adjusted for hormonal contraceptive use, semen exposure, HIV exposure, and HSV2 status

| Treg cells | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p- value | Adjusted Beta | Adjusted p-value |
|---------------------------|----------------------|----------------------|----------------------|--------------------|------------------------|------------------|---------------------|
| live CD45+ | 1.1 (0.3, 2.9) | 1.1 (0.3, 2.6) | 1.0 (0.2, 3.0) | 0 | 1 | -0.02 | 0.9361 |
| CD3+ | 76 (67, 83) | 77 (67, 83) | 75 (68, 84) | 0.3 | 0.8829 | 0.31 | 0.886 |
| CD4+ CD8- | 51 (39, 60) | 50 (39, 59) | 51 (37, 62) | 1.2 | 0.6645 | 0.81 | 0.7745 |
| CD25+ CD127 low | 6.3 (4.2, 10.1) | 6.3 (4.2, 9.9) | 5.9 (4.0, 10.3) | 0.08 | 0.9099 | 0.28 | 0.7147 |
| Foxp3+ | 47 (36, 61) | 44 (36, 61) | 52 (40, 64) | 6 | 0.345 | 2.36 | 0.724 |
| CCR5+ Tregs | 86 (63, 93) | 89 (64, 94) | 81 (68, 88) | -4.3 | 0.4632 | 4 | 0.6465 |
| CCR6+ Tregs | 13 (7, 19) | 17 (8, 24) | 10 (7, 13) | -5.67 | 0.1792 | -6.33 | 0.2215 |
| CCR7+ CD45RA+ Tregs | 0.5 (0.0, 3.7) | 0.3 (0.0, 3.5) | 0.8 (0.1, 4.4) | 0.23 | 0.769 | -0.23 | 0.8672 |
| CCR7+ CD45RA- Tregs | 8 (6, 13) | 8 (6, 11) | 7 (5, 14) | -0.12 | 0.9651 | 1.33 | 0.6941 |
| CCR7- CD45RA+ Tregs | 1.7 (0.3, 3.9) | 1.5 (0.1, 3.3) | 1.8 (1.1, 5.6) | 0.59 | 0.5394 | 0.99 | 0.524 |
| CCR7- CD45RA- Tregs | 87 (77, 92) | 87 (79, 92) | 86 (77, 93) | 0.43 | 0.9173 | -1.64 | 0.729 |
| CD38+ Tregs | 21 (12, 39) | 15 (11, 26) | 39 (27, 41) | 18.86 | 0.0055 | 15.93 | 0.023 |
| CD39+ Tregs | 73 (59, 89) | 74 (62, 85) | 73 (42, 89) | -1.47 | 0.8692 | -13.62 | 0.2674 |
| CD69+ Tregs | 75 (47, 88) | 81 (49, 90) | 65 (49, 81) | -6.4 | 0.486 | 2.28 | 0.8856 |
| CD101+ Tregs | 19 (6, 43) | 15 (4, 44) | 20 (11, 33) | 4.54 | 0.5604 | 7.18 | 0.3822 |
| CD103+ CD69+ Tregs | 10 (2, 21) | 10 (4, 28) | 10 (1, 11) | -3.9 | 0.3474 | -1.62 | 0.7558 |
| CD103+ CD69- Tregs | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.35) | 0 | 1 | 0 | 1 |

| | | | | | | | |
|---------------------|-------------------|-------------------|-------------------|-------|--------|-------|--------|
| CD103- CD69+ Tregs | 52 (39, 73) | 47 (40, 72) | 56 (35, 71) | 3.01 | 0.7713 | 7.4 | 0.6464 |
| CD103- CD69- Tregs | 25 (13, 53) | 19 (10, 51) | 35 (18, 53) | 6.13 | 0.513 | -1.62 | 0.9112 |
| CTLA-4+ Tregs | 59 (33, 70) | 58 (39, 70) | 61 (31, 72) | -1.42 | 0.8767 | -3.51 | 0.803 |
| CXCR3+ Tregs | 39 (29, 57) | 39 (27, 51) | 44 (30, 59) | 2.04 | 0.838 | 5.59 | 0.5795 |
| GrzB+ Tregs | 0.55 (0.00, 2.61) | 0.28 (0.00, 2.65) | 0.62 (0.00, 2.37) | 0 | 1 | 0.05 | 0.9502 |
| HLA-DR+ Tregs | 53 (32, 75) | 52 (32, 73) | 54 (32, 69) | 0.91 | 0.9256 | -1.31 | 0.9022 |
| HLA-DR+ CD38+ Tregs | 14 (6, 19) | 9 (3, 19) | 16 (14, 29) | 9.63 | 0.0411 | 5.48 | 0.3046 |
| Ki67+ Tregs | 4 (3, 11) | 3 (2, 6) | 10 (8, 15) | 6.81 | 0.0641 | 7 | 0.0101 |
| PD-1+ Tregs | 62 (43, 76) | 58 (43, 77) | 68 (55, 71) | 4 | 0.6976 | 3.24 | 0.8551 |
| PD-1+TCF-1- Tregs | 54 (38, 67) | 51 (38, 67) | 64 (36, 65) | 6.46 | 0.475 | 1.93 | 0.8906 |
| TCF-1+ Tregs | 11 (6, 19) | 9 (3, 16) | 13 (9, 29) | 6.51 | 0.1014 | 3.63 | 0.4851 |
| Tbet+ (Th1) | 6 (3, 14) | 6 (3, 15) | 6 (2, 13) | -0.36 | 0.8943 | -1 | 0.7644 |
| CD161+ CCR6+ (Th17) | 7 (3, 11) | 8 (5, 12) | 6 (3, 8) | -2.34 | 0.3162 | -2.53 | 0.3964 |

Table S3.12

Regulatory T cell distribution for PBMC ACD specimen comparing BV positive vs negative

| Characteristic | Expected | | N | BV Positive | BV Negative |
|---------------------------|----------|---------|-----|-------------|-------------|
| | Max N | Missing | | | |
| live CD45+ | 200 | 0 | 200 | 60 | 140 |
| CD3+ | 200 | 0 | 200 | 60 | 140 |
| CD4+ CD8- | 200 | 0 | 200 | 60 | 140 |
| CD25+ CD127 low | 200 | 0 | 200 | 60 | 140 |
| Foxp3+ | 200 | 0 | 200 | 60 | 140 |
| CCR5+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CCR6+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CCR7+ CD45RA- Tregs | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CCR7- CD45RA- Tregs | 200 | 0 | 200 | 60 | 140 |
| CD38+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CD39+ Tregs | 200 | 0 | 200 | 60 | 140 |

| | | | | | |
|---------------------|-----|-----|-----|----|-----|
| CD69+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CD101+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CD103+ CD69- Tregs | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CD103- CD69- Tregs | 200 | 0 | 200 | 60 | 140 |
| CTLA-4+ Tregs | 200 | 0 | 200 | 60 | 140 |
| CXCR3+ Tregs | 200 | 0 | 200 | 60 | 140 |
| GrzB+ Tregs | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ Tregs | 200 | 0 | 200 | 60 | 140 |
| HLA-DR+ CD38+ Tregs | 200 | 0 | 200 | 60 | 140 |
| Ki67+ Tregs | 200 | 120 | 80 | 22 | 58 |
| PD-1+ Tregs | 200 | 0 | 200 | 60 | 140 |
| PD-1+TCF-1- Tregs | 200 | 0 | 200 | 60 | 140 |
| TCF-1+ Tregs | 200 | 0 | 200 | 60 | 140 |
| Tbet+ (Th1) | 200 | 0 | 200 | 60 | 140 |
| CD161+ CCR6+ (Th17) | 200 | 0 | 200 | 60 | 140 |

A regression model estimating the association of BV status (Positive vs Negative) with regulatory T cells' concentration from PBMC ACD specimen, adjusted for hormonal contraceptive use

| | Overall | BV Negative | BV Positive | Unadjusted Beta | Unadjusted p- value | Adjusted Beta | Adjusted p-value |
|---------------------------|-------------------|-------------------|-------------------|--------------------|------------------------|------------------|---------------------|
| Treg cells | | | | | | | |
| live CD45+ | 93 (90, 95) | 93 (91, 95) | 93 (87, 95) | -0.8 | 0.1411 | -0.6 | 0.2906 |
| CD3+ | 74 (67, 78) | 73 (67, 78) | 75 (68, 80) | 2.1 | 0.1137 | 1.9 | 0.1787 |
| CD4+ CD8- | 63 (57, 69) | 62 (58, 69) | 63 (57, 67) | -0.4 | 0.7584 | -0.4 | 0.7636 |
| CD25+ CD127 low | 3.66 (2.96, 4.76) | 3.63 (2.96, 4.83) | 3.66 (3.07, 4.58) | -0.03 | 0.8937 | 0.03 | 0.9141 |
| Foxp3+ | 54 (45, 64) | 52 (45, 63) | 56 (49, 65) | 3.4 | 0.1259 | 2.2 | 0.3141 |
| CCR5+ Tregs | 27 (22, 36) | 27 (23, 37) | 26 (20, 34) | -1.8 | 0.2776 | -2.4 | 0.1681 |
| CCR6+ Tregs | 13 (8, 17) | 13 (8, 18) | 13 (8, 17) | -0.25 | 0.8188 | -0.49 | 0.6491 |
| CCR7+ CD45RA+ Tregs | 12 (7, 17) | 11 (8, 16) | 13 (7, 19) | 1.33 | 0.2151 | 1.22 | 0.2507 |
| CCR7+ CD45RA- Tregs | 9.3 (6.2, 12.9) | 9.3 (6.4, 12.7) | 8.9 (5.3, 14.9) | -0.4 | 0.5985 | -0.1 | 0.8964 |
| CCR7- CD45RA+ Tregs | 13 (10, 18) | 13 (9, 18) | 14 (10, 19) | 0.9 | 0.3772 | 1.18 | 0.2729 |
| CCR7- CD45RA- Tregs | 63 (54, 72) | 64 (57, 72) | 60 (52, 71) | -3 | 0.119 | -3.4 | 0.0853 |
| CD38+ Tregs | 15 (11, 21) | 15 (11, 20) | 15 (12, 21) | 0.3 | 0.7796 | 0.6 | 0.5933 |
| CD39+ Tregs | 46 (30, 56) | 45 (28, 55) | 48 (33, 57) | 2.14 | 0.4434 | 1.8 | 0.5318 |
| CD69+ Tregs | 1.43 (0.97, 2.14) | 1.43 (0.97, 2.16) | 1.41 (0.84, 2.08) | -0.08 | 0.5702 | -0.11 | 0.4542 |

| | | | | | | | |
|---------------------|----------------------|----------------------|----------------------|-------|--------|-------|--------|
| CD101+ Tregs | 12 (5, 18) | 13 (5, 21) | 12 (5, 17) | -0.71 | 0.5805 | -0.65 | 0.6303 |
| CD103+ CD69+ Tregs | 0.00 (0.00, 0.05) | 0.00 (0.00, 0.01) | 0.00 (0.00, 0.09) | 0 | 1 | 0 | 1 |
| CD103+ CD69- Tregs | 1.14 (0.69, 1.81) | 1.19 (0.73, 1.76) | 1.06 (0.62, 2.02) | -0.07 | 0.5507 | -0.09 | 0.4736 |
| CD103- CD69+ Tregs | 1.40 (0.90, 2.03) | 1.42 (0.94, 2.08) | 1.35 (0.80, 1.88) | -0.13 | 0.3114 | -0.12 | 0.3632 |
| CD103- CD69- Tregs | 97.35 (96.28, 98.00) | 97.20 (96.30, 97.93) | 97.80 (96.13, 98.10) | 0.2 | 0.2444 | 0.3 | 0.1113 |
| CTLA-4+ Tregs | 18 (12, 24) | 19 (13, 25) | 15 (11, 22) | -3.5 | 0.0102 | -3.7 | 0.0102 |
| CXCR3+ Tregs | 18 (12, 26) | 19 (13, 27) | 18 (9, 25) | -1.8 | 0.3023 | -2.6 | 0.1533 |
| GrzB+ Tregs | 0.76 (0.40, 1.77) | 0.83 (0.49, 2.01) | 0.54 (0.27, 1.21) | -0.29 | 0.014 | -0.3 | 0.0157 |
| HLA-DR+ Tregs | 25 (21, 32) | 26 (21, 34) | 24 (21, 31) | -0.8 | 0.5595 | -1.35 | 0.3451 |
| HLA-DR+ CD38+ Tregs | 4.30 (3.18, 6.16) | 4.33 (3.18, 5.91) | 4.23 (3.23, 6.49) | 0.08 | 0.8148 | 0 | 0.9998 |
| Ki67+ Tregs | 2.58 (1.86, 3.78) | 2.63 (1.95, 3.86) | 2.43 (1.67, 3.50) | -0.28 | 0.4534 | -0.19 | 0.6029 |
| PD-1+ Tregs | 8.4 (6.0, 10.7) | 8.4 (6.1, 10.7) | 8.4 (5.4, 10.5) | 0 | 1 | -0.12 | 0.845 |
| PD-1+TCF-1- Tregs | 6.2 (4.0, 8.3) | 6.4 (4.1, 8.7) | 5.7 (3.7, 7.9) | -0.57 | 0.2974 | -0.63 | 0.2582 |
| TCF-1+ Tregs | 34 (21, 45) | 32 (20, 44) | 36 (26, 51) | 5.9 | 0.0335 | 5.9 | 0.0408 |
| Tbet+ (Th1) | 1.61 (0.85, 3.17) | 1.67 (0.98, 3.23) | 1.47 (0.80, 2.68) | -0.2 | 0.3581 | -0.27 | 0.2362 |
| CD161+ CCR6+ (Th17) | 2.98 (1.80, 4.34) | 2.98 (1.90, 4.41) | 2.96 (1.48, 3.94) | -0.32 | 0.2831 | -0.35 | 0.248 |