**Supplemental Table 1. Levels of inflammatory cytokines in rectal mucosa of men who have sex with men and transgender women before and after HIV-1 seroconversion; Lima, Peru 2018-19**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **HIV-1 Seroconverters**  **(n=8)** | | | **HIV-1 Uninfected Controls**  **(n=94)** | | |
| **Baseline** | **3 Months** | **6 Months** | **Baseline** | **3 Months** | **6 Months** |
| **IL-1β (pg/mL)** | **Mean**  SD | **146.7**  206.1 | **108.1**  181.9 | **100.8**  120.1 | **168.2**  336.5 | **160.2**  397.0 | **123.6**  322.5 |
| **Median**  IQR | **48.3**  16.6-243.7 | **21.1**  9.4-149.8 | **44.4**  3.5-208.0 | **24.0**  3.7-171.3 | **20.8**  3.4-98.4 | **13.3**  2.1-53.9 |
| **IL-6**  **(pg/mL)** | **Mean**  SD | **21.1**  48.6 | **4.5**  6.4 | **10.3**  19.1 | **40.5**  148.4 | **21.3**  57.7 | **25.2**  91.8 |
| **Median**  IQR | **2.7**  0.4-10.6 | **2.6**  0.6-4.7 | **0.9**  0.2-15.2 | **2.9**  0.4-6.3 | **2.7**  0.5-6.5 | **2.4**  0.4-6.7 |
| **IL-8 (pg/mL)** | **Mean**  SD | **1141.9**  1136.9 | **622.2**  379.2 | **521.7**  794.4 | **1006.6**  1380.1 | **978.4**  1419.2 | **630.0**  891.5 |
| **Median**  IQR | **832.8**  182.0-2043.0 | **536.9**  317.5-883.1 | **128.0**  87.8-525.0 | **470.1**  127.2-1499.6 | **448.9**  147.0-1172.0 | **319.4**  109.0-648.2 |
| **TNF-α**  **(pg/mL)** | **Mean**  SD | **19.0**  19.3 | **9.1**  6.9 | **19.5**  26.8 | **29.3**  67.7 | **21.1**  65.3 | **27.8**  83.4 |
| **Median**  IQR | **12.9**  3.8-34.0 | **6.1**  4.8-13.2 | **3.2**  0.9-35.6 | **8.1**  1.8-24.1 | **5.5**  1.4-16.0 | **6.3**  1.6-19.1 |

IL = Interleukin; TNF = Tumor Necrosis Factor; SD = Standard Deviation; IQR = Interquartile Range

*Note:* All values non-significant for comparison by Wilcoxon Rank-Sum test

**Supplemental Table 2: Participant characteristics and levels of inflammatory cytokines in rectal mucosa of men who have sex with men and transgender women who experienced HIV-1 seroconversion; Lima, Peru 2018-19 (N=8)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age** | **Gender** | **Timepoint of HIV-1 Seroconversion** | **Levels of inflammatory cytokines (pg/mL) by timepoint** | | | | | | | | | | | |
| **Baseline** | | | | **3 Months** | | | | **6 Months** | | | |
| **IL-1β** | **IL-6** | **IL-8** | **TNF-α** | **IL-1β** | **IL-6** | **IL-8** | **TNF-α** | **IL-1β** | **IL-6** | **IL-8** | **TNF-α** |
| 19 | M | 3 months | 9.8 | 0.4 | 218.2 | 2.9 | 17.5 | 0.6 | 219.4 | 5.6 | 208.0 | 0.7 | 525.0 | 21.2 |
| 38 | M | 3 months | 96.6 | 140.9 | 2729.8 | 45.7 | 37.2 | 6.0 | 724.5 | 19.1 | 304.1 | 51.9 | 479.8 | 72.3 |
| 23 | TW | 3 months | 549.4 | 2.2 | 2898.0 | 49.8 | 0.5 | 0.6 | 319.3 | 3.7 | 0.3 | 0.2 | 128.0 | 0.9 |
| 23 | M | 3 months | 60.5 | 3.2 | 433.1 | 8.2 | 503.6 | 19.5 | 1282.9 | 21.2 | -- | -- | -- | -- |
| 27 | M | 3 months | 6.8 | 7.0 | 1232.5 | 22.2 | 2.9 | 3.3 | 315.7 | 6.6 | 141.0 | 15.2 | 2268.8 | 35.6 |
| 31 | M | 3 months | 23.4 | 0.4 | 121.6 | 0.5 | 262.4 | 0.5 | 907.1 | 5.1 | 44.4 | 0.2 | 106.2 | 0.8 |
| 31 | TW | 6 months | 390.8 | 14.1 | 1356.1 | 17.6 | 15.8 | 3.1 | 859.0 | 7.2 | 4.2 | 0.9 | 56.3 | 2.3 |
| 21 | M | 6 months | 36.0 | 0.4 | 145.7 | 4.6 | 24.7 | 2.1 | 349.4 | 4.4 | 3.5 | 2.8 | 87.8 | 3.2 |

IL = Interleukin; TNF = Tumor Necrosis Factor; M = cisgender man; TW = transgender woman