**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