Supplemental Table 1: Mean Vaginal Concentrations of Semen Biomarkers among Women Exposed to Semen via Inoculation with their Partner’s Semen (“A” Groups) versus Women Exposed to Semen via Timed Intercourse (“B” Groups).

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| --- | --- | --- | --- |
| **Variable** | **Groups A1 and A2 Inoculation****(n = 16)** | **Groups B1 and B2 Intercourse****(n = 17)** | **p value****(A1 and A2 versus B1 and B2)** |
| **6 hours post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 23.7 ± 13.6 | 36.2 ± 18.7 | **0.04** |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 2,709.4 ± 1,948.5 | 4,397.5 ± 2,447.4 | **0.06** |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 8,537.5 ± 2,263.6 | 10,170 ± 1,079 | **0.02** |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 2,247 ± 3,502 | 3,768 ± 5,175 | 0.25 |
|  |
| **24 hours post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 11.8 ± 15.4 | 16.1 ± 15.3 | 0.25 |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 688.1 ± 1,196 | 1,134.4 ± 1,249 | 0.11 |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 4,639 ± 3,035 | 7,471 ± 2,161 | **0.01** |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 80.7 ± 165.1 | 227.4 ± 604.3 | 0.18 |
|  |
| **48 hours post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 3.7 ± 4.5 | 6.3 ± 6.2 | 0.27 |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 342.9 ± 907.1 | 475.0 ± 905.1 | 1.00 |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 2,017.1 ± 3,350.8 | 4,447.5 ± 3,454.3 | 0.09 |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.11 ± 0.13 | 4.8 ± 11.0 | 0.44 |
|  |
| **72 hours post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 1.9 ± 2.8 | 2.6 ± 2.1 | 0.25 |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 0.0 ± 0.0 | 0.0 ± 0.0 | NA |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 675.0 ± 1,015 | 1,307.5 ± 757.7 | 0.20 |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.03 ± 0.02 | 0.2 ± 0.5 | 0.70 |
|  |
| **7 days post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.3 ± 0.6 | 1.4 ± 2.1 | **0.03** |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 0.0 ± 0.0  | 0.0 ± 0.0 | NA |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 181.9 ± 585.0 | 174.4 ± 447.3 | 0.93 |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.02 ± 0.03 | 0.07 ± 0.17 | 0.68 |
|  |
| **11 days post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.2 ± 0.5 | 0.1 ± 0.4 | 0.74 |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 0.0 ± 0.0 | 0.0 ± 0.0 | NA |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 0.0 ± 0.0 | 0.0 ± 0.0 | NA |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 1.3 ± 3.5 | 0.1 ± 0.2 | 0.09 |
|  |
| **15 days post exposure** |
| **YcDNA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.1 ± 0.2 | 1.2 ± 3.7 | 0.15 |
| **SRY Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 0.0 ± 0.0  | 162.5 ± 445.5 | 0.48 |
| **TSPY4 Multiplex (ng/mL)** |  |  |  |
|  Mean (SD) | 40.7 ± 152.3 | 987.5 ± 2,704.5 | 0.72 |
| **PSA (ng/mL)** |  |  |  |
|  Mean (SD) | 0.6 ± 1.8 | 25.9 ± 95.7 | 0.51 |