**Supplement Table 1.** Difference in estimated average outcomes at end of data collection vs. beginning of data collection for only first patient visit

| Parameter                          | Beginning | End   | Contrast | 95% CI      | Z   | p-value |
|------------------------------------|-----------|-------|----------|-------------|-----|---------|
| Volume (mL)                        | 3.02      | 2.50  | 0.52     | 0.19 to 0.85| 3.10| 0.002   |
| pH                                 | 8.20      | 8.31  | -0.12    | -0.21 to -0.02| -2.41| 0.016   |
| Concentration (millions/mL)       | 69.13     | 49.60 | 19.53    | -1.59 to 40.65| -2.41| 0.016   |
| Total sperm count (millions)       | 183.41    | 120.66| 62.74    | 1.38 to 124.11| 2.00| 0.045   |
| Morphology (%)                     | 25.75     | 5.68  | 20.07    | 15.79 to 24.34| 9.20| <0.001  |
| Motility (%)                       | 0.65      | 0.53  | 0.12     | 0.07 to 0.17  | 4.55| <0.001  |
| Progressive motility               | 2.93      | 2.70  | 0.22     | -0.05 to 0.49 | 1.63| 0.103   |

CI: confidence interval.