Supplementary Tables

Manuscript Title: Influence of sexually transmitted infections in pregnant adolescents on preterm delivery and chorioamnionitis

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### Supplementary Table 1. Demographic and reproductive history characteristics, STI diagnosis, and pregnancy outcomes for 739 study participants – By County Type

| Characteristic                  | Total N | Primary Catchment Counties (n=606) | Referral Counties (n=133) | p-value |
|--------------------------------|---------|------------------------------------|---------------------------|---------|
| **Demographic**                |         |                                    |                           |         |
| Age (Median)                   | 739     | 18 (17-19)                         | 18 (17-19)                | 0.45    |
| Age                            | 739     | 18 (17-19)                         | 18 (17-19)                | 0.75    |
| 13-15                          |         |                                    |                           |         |
| 16-17                          |         |                                    |                           |         |
| 18-19                          |         |                                    |                           |         |
| Marital status                 | 738     |                                    |                           | 0.11    |
| Single                         | 737     | 356 (91.8)                         | 115 (87.1)                | <0.001  |
| Married                        | 739     | 46 (7.6)                           | 14 (10.6)                 |         |
| Divorced/separated             |         |                                    |                           |         |
| Race                           | 737     | 303 (50.2)                         | 108 (81.2)                | <0.01   |
| White                          | 739     | 303 (50.2)                         | 108 (81.2)                |         |
| Black                          | 739     | 252 (41.7)                         | 16 (12.0)                 |         |
| Other†                         | 739     | 49 (8.1)                           | 9 (6.8)                   |         |
| Smoking status                 | 727     |                                    |                           | <0.01   |
| Never                          | 739     | 350 (58.2)                         | 59 (46.8)                 |         |
| Ever†                          | 739     | 97 (16.1)                          | 18 (14.3)                 |         |
| Yes                            | 739     | 154 (25.6)                         | 49 (38.9)                 |         |
| **Reproductive History**       |         |                                    |                           |         |
| Gravidity                      | 739     | 1 (1,1)                            | 1 (1,1)                   | 0.33    |
| Parity                         | 739     | 0 (1,1)                            | 0 (0,1)                   | 0.45    |
| **Sexually Transmitted Infections** |       |                                    |                           |         |
| Any STI                        | 739     | 108 (17.8)                         | 14 (10.5)                 | 0.04    |
| N. gonorrhoeae                 | 739     | 20 (3.3)                           | 3 (2.2)                   | 0.53    |
| C. trachomatis                 | 739     | 87 (14.4)                          | 10 (7.5)                  | 0.03    |
| T. vaginalis                   | 739     | 23 (3.8)                           | 4 (3.0)                   | 0.66    |
| **Pregnancy Outcomes**         |         |                                    |                           |         |
| Pre-eclampsia                  | 739     | 30 (5.0)                           | 15 (11.3)                 | <0.01   |
| Cesarean section               | 737     | 147 (24.3)                         | 38 (28.8)                 | 0.28    |
| Gestational age at delivery    | 739     |                                   |                           | <0.001  |
| <34 weeks                      | 739     | 40 (6.6)                           | 34 (25.6)                 |         |
| 34-36 weeks                    | 739     | 51 (8.4)                           | 14 (10.5)                 |         |
| 37-38 weeks                    | 739     | 138 (22.8)                         | 40 (30.1)                 |         |
|                      |            |        |        |
|----------------------|------------|--------|--------|
|                      | 377 (62.2) | 45 (33.8) | <0.001 |
| Preterm birth        | 739        | 91 (15.0) | 48 (36.1) |
| Any Chorioamnionitis | 738        | 95 (15.7) | 17 (12.8) | 0.40 |
| Clinical Chorioamnionitis | 708 | 21 (3.6) | 1 (0.8) | 0.09 |
| Chorioamnionitis by Placental Pathology | 381 | 85 (28.5) | 16 (19.3) | 0.09 |
| Diagnosed STI       | Preterm Birth |            |            | Any Chorioamnionitis |            |            |
|---------------------|---------------|------------|------------|----------------------|------------|------------|
|                     | Yes (N=91)    | No (N=515) | Unadj. PR  | Adjusted PR§         | Yes (N=95) | No (N=510) |
|                     | n (%)         | n (%)      | (95% CI)   | (95% CI)             | n (%)      | n (%)      |
| Any STI             | 18 (19.8)     | 90 (17.5)  | 1.14 (0.71, 1.82) | 1.13 (0.71, 1.81) | 21 (22.1)  | 87 (17.1)  |
| N. gonorrhoeae      | 0 (0.0)       | 20 (3.9)   | -          | -                    | 3 (3.2)    | 17 (3.3)   |
| C. trachomatis      | 16 (17.6)     | 71 (13.8)  | 1.27 (0.78, 2.08) | 1.27 (0.78, 2.08) | 16 (16.8)  | 71 (13.9)  |
| T. vaginalis        | 5 (5.5)       | 18 (3.8)   | 1.47 (0.66, 3.28) | 1.37 (0.64, 2.93) | 8 (8.4)    | 15 (2.9)   |

· Results reported as n(%) or median (inter-quartile range)
† Including participants identifying as Asian, American Indian, American Native, multiracial, or other
‡ Including participants reporting quitting or no smoking during this pregnancy
Abbreviation: STI-sexually transmitted infection
§ Adjusted a priori for age, race, and smoking status