**Appendix A.** **Use of contraception at last sexual intercourse by age and race/ethnicity among women aged 18-44 years at risk for unintended pregnancy\* — selected states where mosquito-borne transmission may be possible — 10 states† with state-added questions on reproductive health, Behavioral Risk Factor Surveillance System (BRFSS), 2013, 2 states§ with state-added questions on reproductive health, BRFSS, 2012 and 5 states¶ with state-added questions on reproductive health, BRFSS, 2011**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Highly effective, reversible (LARC)\*\*** | | | | | | | | | | | |
|  | **Age (years)** | | | | | | **Race/ethnicity¶¶** | | | | | |
|  | **18-24** | | **25-34** | | **35-44** | | **Non-Hispanic White** | | **Non-Hispanic black** | | **Hispanic** | |
|  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| *State* |  |  |  |  |  |  |  |  |  |  |  |  |
| Arizona | —\*\*\* |  | — |  | — |  | — |  | — |  | — |  |
| Colorado | 14.6 | (8.0-25.4) | 18.4 | (13.0-25.5) | 12.6 | (8.7-18.1) | 13.8 | (10.4-18.0) | — |  | 23.2 | (14.8-34.6) |
| Connecticut | — |  | 9.6 | (5.7-15.9) | 9.1 | (5.9-13.8) | 7.4 | (4.8-11.3) | — |  | — |  |
| Florida | — |  | — |  | — |  | — |  | — |  | — |  |
| Kentucky | — |  | 9.0 | (5.7-14.1) | 6.7 | (4.3-10.3) | 7.3 | (5.3-9.9) | — |  | — |  |
| Massachusetts | — |  | 15.3 | (10.1-22.7) | 16.8 | (11.9-23.3) | 15 | (10.9-20.2) | — |  | — |  |
| Mississippi | — |  | 9.9 | (5.7-16.6) | \_\_ |  | 8.6 | (5.2-14.0) | \_\_ |  | 0 |  |
| Missouri | — |  | 9.7 | (5.4-16.8) | \_\_ |  | 7.0 | (4.6-10.6) | \_\_ |  | 0 |  |
| New York | — |  | — |  | 6.3 | (3.6-10.7) | 10.4 | (6.9-15.3) | — |  | — |  |
| North Carolina | — |  | 11.8 | (7.118.8) | 8.0 | (4.9-12.9) | 8.5 | (5.6-12.7) | — |  | — |  |
| Ohio | — |  | 13.5 | (8.1-21.6) | 9.0 | (5.9-13.4) | 10.6 | (7.6-14.6) | — |  | — |  |
| Pennsylvania | 8.1 | (5.0-13.0) | 8.9 | (6.4-12.2) | 6.0 | (4.2-8.3) | 7.3 | (5.7-9.3) | — |  | — |  |
| South Carolina | — |  | 8.5 | (5.3-13.3) | 6.1 | (4.0-9.0) | 5.8 | (4.2-7.9) | — |  | — |  |
| Tennessee | — |  | — |  | 5.2 | (3.0-8.9) | \_\_ |  | — |  | — |  |
| Texas | — |  | — |  | \_\_ |  | \_\_ |  | — |  | — |  |
| Utah | 17.3 | (9.8-28.5) | 24.9 | (19.0-31.9) | 13.2 | (9.4-18.2) | 17.6 | (14.0-21.8) | 0 |  | 26.3 | (16.5-39.2) |
| Vermont | — |  | 14.8 | (10.3-20.8) | 16.4 | (12.1-21.8) | 13.8 | (10.9-17.3) | 0 |  | 0 |  |

\*Women were considered at risk for unintended pregnancy if they were not currently pregnant, were sexually active (not abstinent), and, the last time they had sex, had not had a hysterectomy, did not have a same sex partner, and did not want a pregnancy.

† Arizona, Connecticut, Kentucky, Massachusetts, Mississippi, New York (data collected April 2013-March 2014), Ohio, Texas, Utah, and Vermont.

**§** Pennsylvania and Colorado.

**¶** Florida, Missouri, North Carolina, South Carolina, and Tennessee.

**\*\*** Highly effective, reversible contraceptive methods or long-acting reversible contraception (LARC) include intrauterine devices and implants.

††Moderately effective contraceptive methods include shots, pills, patch, and vaginal ring.

**§§** Less effective contraceptive methods include diaphragm, condoms (male or female), cervical cap, sponge, withdrawal, spermicide, fertility-based awareness methods, emergency contraception, and “other.” Respondents answering “other” were given the opportunity to write in a response, which was evaluated and re-classified into existing contraceptive method options as appropriate. For Connecticut, Kentucky, Massachusetts, Mississippi, Ohio, Texas and Utah, text responses for "other" contraception were evaluated and re-classified into appropriate categories when possible. The text field was not available for other states.

**¶¶** Other non-Hispanic race/ethnicity not shown due to small sample size.

**\*\*\*** Estimate is unreliable (relative standard error>30% or denominator <50).

Note: Women using permanent contraception were included in the denominator for all estimates.

**Appendix A, continued.** **Use of contraception at last sexual intercourse by age and race/ethnicity among women aged 18-44 years at risk for unintended pregnancy\* — selected states where mosquito-borne transmission may be possible — 10 states† with state-added questions on reproductive health, Behavioral Risk Factor Surveillance System (BRFSS), 2013, 2 states§ with state-added questions on reproductive health, BRFSS, 2012 and 5 states¶ with state-added questions on reproductive health, BRFSS, 2011**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Moderately effective**†† | | | | | | | | | | | |
|  | **Age (years)** | | | | | | **Race/ethnicity¶¶** | | | | | |
|  | **18-24** | | **25-34** | | **35-44** | | **Non-Hispanic White** | | **Non-Hispanic black** | | **Hispanic** | |
|  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| *State* |  |  |  |  |  |  |  |  |  |  |  |  |
| Arizona | —**\*\*\*** |  | 25.4 | (14.6-40.5) | — |  | 14.8 | (8.9-23.5) | — |  | 20.2 | (11.1-34.1) |
| Colorado | 40.7 | (29.1-53.5) | 36.2 | (29.1-43.9) | 13.4 | (9.6-18.4) | 30.7 | (25.7-36.2) | — |  | 18.1 | (11.3-27.7) |
| Connecticut | 38.0 | (22.1-57.1) | 31.1 | (22.2-41.6) | 12.5 | (8.8-17.5) | 32.9 | (24.6-42.4) | — |  | — |  |
| Florida | — |  | 19.5 | (14.0-26.4) | 13.8 | (9.9-19.0) | 19 | (14.5-24.1) | — |  | — |  |
| Kentucky | 42.6 | (33.5-52.2) | 22.4 | (16.5-29.7) | 12.9 | (9.6-17.0) | 24.5 | (20.7-28.7) | — |  | — |  |
| Massachusetts | 33.0 | (21.3-47.4) | 24.6 | (18.0-32.6) | 16.5 | (12.0-22.2) | 26.2 | (20.7-32.5) | — |  | 18.3 | (10.4-30.1) |
| Mississippi | 32.6 | (22.5-44.6) | 21.7 | (15.3-29.7) | 12.9 | (8.1-19.9) | 24.2 | (18.0-31.8) | 16.2 | (11.4-22.5) | — |  |
| Missouri | 24.9 | (13.7-41.0) | 20.0 | (13.4-28.9) | 11.1 | (7.5-16.2) | 18.6 | (13.9-24.5) | — |  | — |  |
| New York | 45.1 | (30.6-60.5) | 25.4 | (16.6-37.0) | 17.1 | (10.9-25.8) | 28.9 | (23.7-34.6) | — |  | — |  |
| North Carolina | 39.6 | (28.9-51.4) | 22.1 | (16.2-29.4) | 10.0 | (6.9-14.5) | 24.4 | (18.9-30.8) | 19.2 | (11.6-30.1) | 23.0 | (13.8-35.6) |
| Ohio | 31.1 | (21.1-43.2) | 20.6 | (15.1-27.4) | 15.1 | (10.5-21.2) | 24.2 | (19.5-29.5) | — |  | — |  |
| Pennsylvania | 34.8 | (28.2-42.0) | 25.8 | (21.8-30.4) | 11.2 | (8.7-14.2) | 25.0 | (22.1-28.2) | 20.7 | (13.7-30.1) | 14.5 | (8.2-24.4) |
| South Carolina | 41.9 | (33.4-50.9) | 31.1 | (25.6-37.1) | 14.1 | (10.7-18.4) | 32.4 | (27.8-37.3) | 16.9 | (12.7-22.0) | — |  |
| Tennessee | — |  | 17.1 | (11.4-24.6) | 7.5 | (4.8-11.5) | 15.1 | (9.5-23.1) | — |  | — |  |
| Texas | 32.7 | (18.8-50.5) | 26.4 | (17.6-37.5) | 14.0 | (8.7-21.7) | 24.8 | (15.9-36.5) | — |  | 27.1 | (18.3-38.0) |
| Utah | 28.2 | (19.9-38.4) | 23.5 | (18.0-30.1) | 12.3 | (8.7-17.1) | 22.8 | (18.9-27.3) | 0 |  | — |  |
| Vermont | 51.6 | (39.9-63.2) | 33.8 | (26.4-42.1) | 11.8 | (8.3-16.6) | 29.5 | (24.8-34.6) | — |  | — |  |

\*Women were considered at risk for unintended pregnancy if they were not currently pregnant, were sexually active (not abstinent), and, the last time they had sex, had not had a hysterectomy, did not have a same sex partner, and did not want a pregnancy.

† Arizona, Connecticut, Kentucky, Massachusetts, Mississippi, New York (data collected April 2013-March 2014), Ohio, Texas, Utah, and Vermont.

**§** Pennsylvania and Colorado.

**¶** Florida, Missouri, North Carolina, South Carolina, and Tennessee.

**\*\*** Highly effective, reversible contraceptive methods or long-acting reversible contraception (LARC) include intrauterine devices and implants.

††Moderately effective contraceptive methods include shots, pills, patch, and vaginal ring.

**§§** Less effective contraceptive methods include diaphragm, condoms (male or female), cervical cap, sponge, withdrawal, spermicide, fertility-based awareness methods, emergency contraception, and “other.” Respondents answering “other” were given the opportunity to write in a response, which was evaluated and re-classified into existing contraceptive method options as appropriate. For Connecticut, Kentucky, Massachusetts, Mississippi, Ohio, Texas and Utah, text responses for "other" contraception were evaluated and re-classified into appropriate categories when possible. The text field was not available for other states.

**¶¶** Other non-Hispanic race/ethnicity not shown due to small sample size.

**\*\*\*** Estimate is unreliable (relative standard error>30% or denominator <50).

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Less effective§§** | | | | | | | | | | | |
|  | **Age (years)** | | | | | | **Race/ethnicity¶¶** | | | | | |
|  | **18-24** | | **25-34** | | **35-44** | | **Non-Hispanic White** | | **Non-Hispanic black** | | **Hispanic** | |
|  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| *State* |  |  |  |  |  |  |  |  |  |  |  |  |
| Arizona | 33.9 | (19.3-52.5) | 22.3 | (14.1-35.8) | 18.7 | (10.8-30.4) | 22.5 | (14.9-32.5) | 0 |  | 26.6 | (15.6-41.6) |
| Colorado | —**\*\*\*** |  | 17.4 | (12.3-24.1) | 13.7 | (9.8-18.8) | 15.8 | (12.1-20.3) | — |  | 21.8 | (14.0-32.3) |
| Connecticut | 30.2 | (17.3-47.2) | 28.8 | (20.0-39.5) | 13.9 | (9.6-19.5) | 20.7 | (14.5-28.8) | 30.7 | (17.6-47.8) | 27.8 | (15.6-44.5) |
| Florida | — |  | 25.7 | (19.0-33.8) | 14.1 | (10.2-19.2) | 22.1 | (16.7-28.6) | — |  | — |  |
| Kentucky | 30.6 | (22.7-39.8) | 17.3 | (12.3-23.9) | 9.6 | (6.7-13.4) | 16.6 | (13.3-20.5) | 23.3 | (12.5-39.2) | — |  |
| Massachusetts | 23.4 | (14.4-35.7) | 19.0 | (13.5-26.2) | 18.9 | (13.7-25.4) | 17.3 | (13.4-22.0) | — |  | — |  |
| Mississippi | 40.5 | (29.0-53.0) | 24.4 | (17.4-33.1) | 14.0 | (8.9-21.2) | 14.1 | (9.6-20.2) | 37.3 | (29.4-46.0) | — |  |
| Missouri | 38.5 | (23.9-55.6) | 25.6 | (17.3-36.1) | 12.7 | (7.7-20.2) | 20.7 | (15.2-27.6) | 35.3 | (19.5-55.2) | — |  |
| New York | 26.6 | (16.5-39.9) | 30.6 | (20.8-42.5) | 21.2 | (15.2-28.7) | 24.5 | (19.8-29.8) | — |  | 23.9 | (13.0-39.9) |
| North Carolina | 32.2 | (22.2-44.2) | 28.0 | (21.2-36.1) | 14.3 | (10.1-18.7) | 19.3 | (14.4-25.5) | 34.3 | (24.4-45.7) | 19.7 | (11.6-31.4) |
| Ohio | 27.0 | (16.7-40.6) | 20.0 | (13.8-28.2) | 10.7 | (7.3-15.4) | 13.7 | (10.3-18.1) | 28.9 | (15.7-47.0) | — |  |
| Pennsylvania | 36.2 | (28.8-44.3) | 23.0 | (18.8-27.7) | 18.6 | (15.2-22.6) | 23.2 | (20.3-26.4) | 29.5 | (21.6-38.8) | 27.8 | (14.9-45.7) |
| South Carolina | 28.4 | (21.8-36.1) | 22.3 | (18.0-27.2) | 15.7 | (12.4-19.7) | 16.3 | (13.2-19.8) | 31.6 | (26.3-37.4) | — |  |
| Tennessee | — |  | 16.9 | (10.4-26.3) | 12.6 | (7.4-20.5) | 14.4 | (9.6-21.0) | — |  | — |  |
| Texas | 30.9 | (17.9-47.8) | 15.6 | (8.7-26.6) | 10.8 | (6.5-17.2) | 9.6 | (5.8-15.7) | — |  | 18.1 | (10.5-29.2) |
| Utah | 35.5 | (25.9-46.4) | 19.1 | (13.8-25.7) | 15.0 | (10.9-20.2) | 20.5 | (16.9-24.6) | 0 |  | 26.5 | (16.1-40.5) |
| Vermont | 25.0 | (15.9-36.9) | 22.6 | (16.7-29.6) | 16.3 | (12.3-21.4) | 20.9 | (17.0-25.4) | 0 |  | — |  |

\* Women were considered at risk for unintended pregnancy if they were not currently pregnant, were sexually active (not abstinent), and, the last time they had sex, had not had a hysterectomy, did not have a same sex partner, and did not want a pregnancy.

† Arizona, Connecticut, Kentucky, Massachusetts, Mississippi, New York (data collected April 2013-March 2014), Ohio, Texas, Utah, and Vermont.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **None** | | | | | | | | | | | |
|  | **Age (years)** | | | | | | **Race/ethnicity¶¶** | | | | | |
|  | **18-24** | | **25-34** | | **35-44** | | **Non-Hispanic White** | | **Non-Hispanic black** | | **Hispanic** | |
|  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| *State* |  |  |  |  |  |  |  |  |  |  |  |  |
| Arizona | 36.0 | (21.4-53.7) | 24.2 | (14.8-37.1) | 35.1 | (24.8-47.1) | 31.1 | (22.0-42.0) | — |  | 33.6 | (21.8-47.8) |
| Colorado | 18.5 | (10.3-30.8) | 14.4 | (9.6-21.2) | 16.0 | (11.9-21.1) | 13.4 | (10.1-17.5) | — |  | 18.7 | (11.7-28.5) |
| Connecticut | —**\*\*\*** |  | 21.0 | (13.3-31.7) | 33.3 | (24.9-42.9) | 21.4 | (15.9-28.2) | 21.7 | (11.7-36.7) | 31.9 | (17.0-51.7) |
| Florida | — |  | 26.3 | (19.3-34.7) | 31.4 | (24.7-39.0) | 27.9 | (22.2-34.5) | — |  | — |  |
| Kentucky | 20.5 | (14.3-28.5) | 23.6 | (17.3-31.2) | 23.7 | (17.9-30.6) | 23.8 | (19.8-28.4) | — |  | — |  |
| Massachusetts | 33.5 | (21.0-48.8) | 35.0 | (25.4-46.1) | 23.0 | (18.0-28.9) | 28.7 | (21.8-36.8) | — |  | 36.6 | (23.5-52.0) |
| Mississippi | 18.7 | (11.1-29.9) | 17.5 | (11.7-25.3) | 20.0 | (13.9-27.7) | 23.5 | (17.2-31.1) | 14.8 | (10.5-20.3) | 0 |  |
| Missouri | — |  | 26.8 | (17.7-38.5) | 25.2 | (19.1-32.5) | 24.9 | (19.1-31.7) | — |  | — |  |
| New York | 22.8 | (12.3-38.3) | 17.5 | (11.0-26.7) | 26.8 | (20.5-34.1) | 20.5 | (16.4-25.4) | — |  | 30.2 | (18.4-45.4) |
| North Carolina | 24.0 | (15.8-34.8) | 18.7 | (13.1-25.9) | 30.0 | (24.0-36.8) | 22.9 | (18.1-28.4) | 25.0 | (16.7-35.7) | 30.6 | (19.5-44.5) |
| Ohio | 30.3 | (20.3-42.6) | 30.0 | (22.7-38.5) | 28.1 | (22.8-34.0) | 28.6 | (23.8-33.9) | 34.8 | (22.0-50.1) | — |  |
| Pennsylvania | 20.1 | (14.8-26.8) | 25.1 | (19.5-31.8) | 25.7 | (21.8-30.0) | 21.2 | (18.4-24.4) | 32.0 | (23.4-42.0) | 26.5 | (15.4-41.7) |
| South Carolina | 23.9 | (17.0-32.6) | 20.0 | (15.8-24.9) | 24.5 | (20.1-29.6) | 18.2 | (14.9-21.9) | 29.9 | (24.2-36.4) | — |  |
| Tennessee | — |  | 31.8 | (22.6-42.8) | 35.6 | (27.6-44.4) | 32.3 | (24.6-41.0) | 32.2 | (20.2-47.1) | — |  |
| Texas | 31.5 | (18.8-47.6) | 26.5 | (17.6-37.8) | 22.5 | (14.0-34.0) | 22.6 | (14.0-34.4) | — |  | 29.8 | (20.7-40.9) |
| Utah | 19.0 | (11.7-29.3) | 17.1 | (12.4-23.2) | 20.9 | (15.5-27.5) | 17.0 | (13.6-21.1) | — |  | 22.2 | (13.2-34.8) |
| Vermont | 14.2 | (7.7-24.6) | 11.0 | (6.9-17.1) | 12.0 | (8.6-16.6) | 12.5 | (9.5-16.3) | — |  | 0 |  |

\*Women were considered at risk for unintended pregnancy if they were not currently pregnant, were sexually active (not abstinent), and, the last time they had sex, had not had a hysterectomy, did not have a same sex partner, and did not want a pregnancy.

† Arizona, Connecticut, Kentucky, Massachusetts, Mississippi, New York (data collected April 2013-March 2014), Ohio, Texas, Utah, and Vermont.

**§** Pennsylvania and Colorado.

**¶** Florida, Missouri, North Carolina, South Carolina, and Tennessee.

**\*\*** Highly effective, reversible contraceptive methods or long-acting reversible contraception (LARC) include intrauterine devices and implants.

††Moderately effective contraceptive methods include shots, pills, patch, and vaginal ring.

**§§** Less effective contraceptive methods include diaphragm, condoms (male or female), cervical cap, sponge, withdrawal, spermicide, fertility-based awareness methods, emergency contraception, and “other.” Respondents answering “other” were given the opportunity to write in a response, which was evaluated and re-classified into existing contraceptive method options as appropriate. For Connecticut, Kentucky, Massachusetts, Mississippi, Ohio, Texas and Utah, text responses for "other" contraception were evaluated and re-classified into appropriate categories when possible. The text field was not available for other states.

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