

| Source | Proportion (95% CI) |
|--------|---------------------|
|--------|---------------------|

Type = manual treponemal

|                      |                   |
|----------------------|-------------------|
| Byrne (1992)         | 0.92 [0.84; 0.96] |
| Coffey (1972)        | 0.99 [0.98; 1.00] |
| Farshy (1983)        | 0.95 [0.92; 0.97] |
| Ijsselmuiden (1987)  | 1.00 [0.99; 1.00] |
| Ijsselmuiden (1987)  | 1.00 [0.99; 1.00] |
| Jaffe (1978)         | 0.99 [0.98; 0.99] |
| Jaffe (1978)         | 0.99 [0.98; 1.00] |
| Larsen (1981)        | 0.98 [0.95; 0.99] |
| Larsen (1981)        | 0.99 [0.97; 1.00] |
| Larsen (1981)        | 0.95 [0.93; 0.97] |
| Larsen (1981)        | 1.00 [0.99; 1.00] |
| Lan (2010)           | 1.00 [0.92; 1.00] |
| Lan (2010)           | 0.91 [0.78; 0.97] |
| Moyer (1984)         | 0.96 [0.94; 0.98] |
| Park (2019)          | 1.00 [0.99; 1.00] |
| Park (2019)          | 0.98 [0.96; 0.99] |
| Pope (1982)          | 0.99 [0.96; 1.00] |
| Pope (1982)          | 0.99 [0.96; 1.00] |
| Romanowski (1987)    | 0.87 [0.76; 0.94] |
| Van (1986)           | 1.00 [0.99; 1.00] |
| Young (1998)         | 1.00 [1.00; 1.00] |
| Bosshard (2013)      | 0.99 [0.95; 1.00] |
| Cole (2007)          | 0.99 [0.97; 1.00] |
| Liu (2014)           | 1.00 [0.98; 1.00] |
| Pope (2000)          | 0.95 [0.91; 0.98] |
| Wellinghausen (2011) | 1.00 [0.99; 1.00] |
| Total                | 0.99 [0.98; 0.99] |

Heterogeneity:  $\chi^2_{25} = 142.23$  ( $P < .001$ ),  $I^2 = 82\%$

Type = treponemal immunoassays

|                      |                   |
|----------------------|-------------------|
| Park (2019)          | 0.96 [0.93; 0.97] |
| Liu (2014)           | 0.91 [0.86; 0.94] |
| Marangoni (2009)     | 0.98 [0.98; 0.99] |
| Saral (2012)         | 1.00 [1.00; 1.00] |
| Wellinghausen (2011) | 1.00 [0.99; 1.00] |
| Xia (2018)           | 0.98 [0.97; 0.99] |
| Xu (2016)            | 1.00 [1.00; 1.00] |
| Park (2019)          | 0.97 [0.95; 0.98] |
| Cole (2007)          | 1.00 [0.99; 1.00] |
| Silletti (1995)      | 0.98 [0.96; 0.99] |
| Xia (2018)           | 0.98 [0.97; 0.99] |
| Marangoni (2005)     | 1.00 [1.00; 1.00] |
| Park (2019)          | 0.95 [0.92; 0.97] |
| Wellinghausen (2011) | 1.00 [0.99; 1.00] |
| Park (2019)          | 0.83 [0.79; 0.86] |
| Total                | 0.99 [0.98; 1.00] |

Heterogeneity:  $\chi^2_{14} = 396.12$  ( $P < .001$ ),  $I^2 = 96\%$

|       |                   |
|-------|-------------------|
| Total | 0.99 [0.98; 0.99] |
|-------|-------------------|

Heterogeneity:  $\chi^2_{40} = 545.92$  ( $P < .001$ ),  $I^2 = 93\%$

Test for subgroup differences:  $\chi^2_1 = 0.27$  ( $P = .60$ )

