

SUPPLEMENTARY TABLE. Sensitivity analysis of weekly monkeypox incidence* and average incidence rate ratios,[†] reflecting assumptions about date of first vaccine dose[§] — 32 U.S. jurisdictions,^{¶,} July 31–September 3, 2022**

| Measure | Week | | | | | Average IRR [†] (95% CI) |
|--------------------------------------------------------|--------|-------|--------|--------|--------|--------------------------------------|
| | Jul 31 | Aug 7 | Aug 14 | Aug 21 | Aug 28 | |
| Rate _{Unvaccinated} | 282.0 | 312.2 | 268.1 | 292.4 | 229.9 | — |
| Rate _{Vaccinated} [§] | 16.5 | 41.8 | 23.9 | 13.5 | 15.1 | 14.3 (5.0–41.0) |
| Rate _{Vaccinated+50%Vaccinated without date} | 266.5 | 171.7 | 76.4 | 48.7 | 34.5 | 3.6 (0.5–24.7) |
| Rate _{Vaccinated+100%Vaccinated without date} | 516.5 | 301.6 | 128.9 | 83.8 | 53.9 | 2.1 (0.2–17.2) |

Abbreviation: IRR = incidence rate ratio.

* Cases per 100,000 population. Rate in vaccinated persons = number of probable or confirmed cases reported to CDC with date of illness onset, specimen collection, lab test completion, admission, diagnosis, discharge, case investigation start date, or date first electronically submitted or reported to the county, state, or public health department (earliest available date) ≥14 days after receiving the first dose of JYNNEOS vaccine among total vaccinated population as of 2 weeks prior. Rate in unvaccinated persons = number of probable or confirmed cases reported to CDC without evidence of vaccination among total unvaccinated population. Sensitivity analysis examined changes to the incidence rate ratio assuming that either 50% or 100% of persons with unknown date of vaccination received vaccine ≥14 days before illness.

[†] Incidence rate ratio formulas:

$$IRR_{\text{Vaccinated}} = \frac{\text{Rate}_{\text{unvaccinated}}}{\text{Rate}_{\text{vaccinated}}}$$

$$IRR_{\text{Vaccinated+50\%Vaccinated without date}} = \frac{\text{Rate}_{\text{unvaccinated}}}{\text{Rate}_{\text{vaccinated+50\% vaccinated w/o date}}}$$

$$IRR_{\text{Vaccinated+100\%Vaccinated without date}} = \frac{\text{Rate}_{\text{unvaccinated}}}{\text{Rate}_{\text{vaccinated+100\% vaccinated w/o date}}}$$

[§] Vaccinated = persons who had received of ≥1 dose of JYNNEOS vaccine.

[¶] Alaska, California, Colorado, Georgia, Hawaii, Idaho, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Missouri, Montana, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Virginia, West Virginia, and Wisconsin

** Jurisdictions were included if age and sex assigned at birth or gender identity was available for ≥70% of cases reported, vaccination status was available for ≥50% of cases in males (defined by either sex assigned at birth or gender identity) aged 18–49 years or the jurisdiction confirmed cases are linked to immunization registry entries, and de-identified vaccination administration data were submitted to CDC.