

[Home](#) > [Monkeypox outbreak: epidemiological overview](#)

[UK](#)
[Health](#)
[Security](#)
[Agency](#)
[\(<https://www.gov.uk/government/organisations/uk-health-security-agency>\)](https://www.gov.uk/government/organisations/uk-health-security-agency)

Research and analysis

Monkeypox outbreak: epidemiological overview, 18 October 2022

Updated 1 November 2022

Contents

[Current epidemiological situation as of 17 October 2022](#)

[Data sources](#)

[Information about this publication](#)

[Additional resources](#)



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This publication is available at <https://www.gov.uk/government/publications/monkeypox-outbreak-epidemiological-overview/monkeypox-outbreak-epidemiological-overview-18-october-2022>

Monkeypox is a zoonotic infection, caused by the monkeypox virus, that occurs mostly in West and Central Africa. Previous cases in the UK had been either imported from countries where monkeypox is endemic or contacts with documented epidemiological links to imported cases. Between 2018 and 2021, there had been 7 cases of monkeypox in the UK. Of these, 4 were imported, 2 were cases in household contacts, and one was a case in a health care worker involved in the care of an imported case. There was no documented community transmission in previous outbreaks.

Current epidemiological situation as of 17 October 2022

Cases of monkeypox infection were confirmed in England from 6 May 2022. The outbreak has mainly been in gay, bisexual, and men who have sex with men without documented history of travel to endemic countries. Further details on the epidemiology are available in the [monkeypox technical briefing](https://www.gov.uk/government/publications/monkeypox-outbreak-technical-briefings) (<https://www.gov.uk/government/publications/monkeypox-outbreak-technical-briefings>).

To expand the UK's capability to detect monkeypox cases, some NHS laboratories are now testing suspected monkeypox samples with an orthopox polymerase chain reaction (PCR) test (orthopox is the group of viruses which includes monkeypox). Since 25 July 2022, the [monkeypox case definition](https://www.gov.uk/guidance/monkeypox-case-definitions) (<https://www.gov.uk/guidance/monkeypox-case-definitions>) recognises those who are orthopox-positive as highly probable cases, and those who test positive on a monkeypox PCR test as confirmed cases. The counts below combine both of these categories.

Up to 17 October 2022 there were 3,537 confirmed and 149 highly probable monkeypox cases detected in the UK: 3,686 in total. Of these, 94 were in Scotland, 34 were in Northern Ireland, 46 were in Wales and 3,512 were in England.

Table 1: Number of confirmed and highly probable monkeypox cases by UK nation of residence, 6 May to 17 October 2022

UK nation	Total*	Confirmed*	Highly probable*
England	3,512 (+13)	3,363 (+14)	149 (-1)
Northern Ireland	34	34	0
Scotland	94	94	0

UK nation	Total*	Confirmed*	Highly probable*
Wales	46	46	0
Total	3,686 (+13)	3,537 (+14)	149 (-1)

*The numbers in brackets show change since last report (10 October 2022)

A high proportion of England cases were London residents (69%, 2,415 of 3,499 with location information). For confirmed and highly probable cases in the UK, where gender information was available, 3,613 (98.6%) were men and 51 were women. The median age of confirmed and highly probable cases in the UK was 36 years (interquartile range 30-44).

Table 2: Number of confirmed and highly probable monkeypox cases by region of residence, England, 6 May to 17 October 2022

Region of residence	Total confirmed and highly probable cases	Change since last report
East of England	120	+3
East Midlands	66	+1
London	2,415	+4
North East	48	0
North West	226	+3
South East	323	+1
South West	92	+1
West Midlands	127	+1
Yorkshire and Humber	82	-1
Under investigation**	13	0

Region of residence	Total confirmed and highly probable cases	Change since last report
Total	3,512	+13

**Address not yet confirmed. Negative changes due to updates to location information.

Data sources

Monkeypox surveillance data in England is currently compiled daily, based on monkeypox and orthopox virus test results from the Rare and Imported Pathogens Laboratory (RIPL), which is the UK Health Security Agency (UKHSA) monkeypox reference laboratory, and other UK laboratories with monkeypox and orthopox testing. This is combined with case information recorded by local health protection teams in the UKHSA national case management system.

Counts of confirmed cases in Wales, Northern Ireland, and Scotland are submitted to UKHSA by Public Health Wales, Public Health Agency Northern Ireland, and Public Health Scotland respectively.

Information about this publication

This update is currently published on Tuesdays, using data extracted by 9.30am on Mondays.

These figures are used for official reporting of monkeypox confirmed case counts in the UK.

England counts may differ from those published in the [Notifications of infectious diseases \(NOIDs\) causative agents weekly report](https://www.gov.uk/government/publications/notifiable-diseases-causative-agents-reports-for-2022) (<https://www.gov.uk/government/publications/notifiable-diseases-causative-agents-reports-for-2022>). This is due to differences in timings of when the data is compiled, and differences in processing of duplicate data (for example, if a person has tested more than once but insufficient information is provided to identify them).

While data cleaning is carried out routinely, corrections can be applied between reports, such as updates to patient information and the removal of quality assurance samples from laboratory surveillance systems.

Additional resources

[Monkeypox technical briefings \(https://www.gov.uk/government/publications/monkeypox-outbreak-technical-briefings\)](https://www.gov.uk/government/publications/monkeypox-outbreak-technical-briefings).

[Monkeypox: case definitions \(https://www.gov.uk/guidance/monkeypox-case-definitions\)](https://www.gov.uk/guidance/monkeypox-case-definitions).

[Monkeypox contact tracing guidance: classification of contacts and advice for vaccination and follow-up \(https://www.gov.uk/government/publications/monkeypox-contact-tracing\)](https://www.gov.uk/government/publications/monkeypox-contact-tracing).

[↑ Back to top](#)

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