

Monkeypox

Reference guide comparing monkeypox, chickenpox, and hand-foot-and-mouth disease

Category	Monkeypox	Chickenpox	Hand-Foot-and-Mouth Disease
Virus	<i>Monkeypox virus</i> ¹	<i>Varicella zoster virus (VZV)</i> ²	<i>Enteroviruses</i> (e.g. Coxsackievirus A16, Enterovirus 71) ³
Incubation period	5-21 days ¹	10-21 days, but can be up to 28 days in breakthrough [†] infections ²	3-7 days ³
Fever	May occur [†] , most commonly 1-3 days before rash onset ^{1,4}	Unvaccinated: Mild if present, 1-2 days before rash ² Breakthrough: Less common ²	1-2 days before oral vesicles ⁵
Lymphadenopathy	May occur ¹	Less common ¹	Less common ³

* Breakthrough varicella is an infection that occurs in a varicella vaccinated person more than 42 days after varicella vaccination.

† Atypical presentations of monkeypox include initial signs of a genital or peri-anal rash prior to or without prodromal symptoms which may not spread to other parts of the body, and having lesions at different stages of development.^{4,10}

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Rash appearance	<p>Appears at the site of inoculation¹, then may appear on other parts of the body, including¹:</p> <ul style="list-style-type: none"> -oral mucosa, -genital area, -conjunctiva, -palms of the hands, and -soles of the feet 	<p>Usually appears on the chest, back, and face then spreads to other parts of the body⁶</p> <p>Rarely, lesions may appear on palms of the hands and soles of the feet in immunocompromised individuals⁷</p>	<p>Usually, vesicles appear in or on the mouth, then may appear on other parts of the body, including³:</p> <ul style="list-style-type: none"> -palms of the hands, -soles of the feet, -knees, -elbows, -buttocks, or -genital area
Rash progression	<p>Slowly progresses through macules, papules, vesicles, pustules, and crusting/scab. May have central umbilication^{4,8}</p> <p>Lesions may develop simultaneously and evolve together¹ on any given part of the body (i.e., monomorphic)⁸</p>	<p>Unvaccinated: Pleomorphic rash; Rapidly progresses through macules, papules, vesicles, and crusting/scab²</p> <p>Breakthrough: Usually, maculopapular lesions that do not progress to vesicles²</p> <p>Lesions occur in “crops” with old and new lesions present at the same time²</p>	<p>Macules, sometimes with vesicles⁹</p> <p>Vesicles may break open and progress to crusting/scab⁹</p>

Category	Monkeypox	Chickenpox	Hand-Foot-and-Mouth Disease
Rash duration	14-28 days ¹	Unvaccinated: 4-7 days ⁶ Breakthrough: Shorter duration of illness compared to unvaccinated ⁶	7-10 days ³
Testing information	Monkeypox Virus Public Health Ontario (in children also test for Enterovirus Public Health Ontario)	Varicella – Serology Public Health Ontario Varicella Zoster Virus Detection Public Health Ontario	Enterovirus Public Health Ontario

For more information, visit [Monkeypox Virus \(gov.on.ca\)](https://www.gov.on.ca)

References

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