MPOX **IMMEDIATE NOTIFICATION** **EPIDEMIOLOGY PROGRAM**

Event Name:	MPOX	
Event Time Period:	30 days	
Clinical Description (CSTE 2022):	A person presenting with new onset of: • Clinically compatible rash lesions*; OR • Lymphadenopathy or fever** *The presence of clinically compatible rash lesions should be combined with either a higher or lower epidemiologic linkage criterion for case classification. **A person presenting with lymphadenopathy or fever without any clinically compatible rash lesions must meet a higher risk epidemiologic risk criterion for case classification.	
Event Classification (CSTE 2022):	*Confirmed*	• Detection of MPOX virus nucleic acid by molecular testing in a clinical specimen; OR • Detection of MPOX virus by genomic sequencing in a clinical specimen.
	Probable	• Detection of orthopoxvirus nucleic acid by molecular testing in a clinical specimen AND no laboratory evidence of infection with another non-variola orthopox virus; OR • Detection of presence of orthopoxvirus by immunohistochemistry in tissue; OR • Detection of orthopoxvirus by genomic sequencing in a clinical specimen; OR • Detection of anti-orthopoxvirus IgM antibody using a validated assay on a serum sample drawn 4-56 days after rash onset, with no recent history (last 60 days) of vaccination***. ***Recent administration of ACAM2000 and Jynneos needs to be considered when interpreting an antibody titer. RABORAL V-RG is an oral rabies vaccine product for wildlife, is a recombinant vaccinia virus, and could lead to an antibody response in an individual exposed to the liquid vaccine; this is expected to be an extremely rare occurrence.

	Suspect	Meets clinical criteria AND epidemiologic criteria^ AND no evidence of a negative test for either non-variola orthopoxvirus or MPOX virus. ^The presence of clinically compatible rash lesions should be combined with either a higher or lower epidemiologic linkage criterion for case classification. A person presenting with lymphadenopathy or fever without any clinically compatible rash lesions must meet a higher risk epidemiologic risk criterion for case classification. **Epidemiologic Criteria** Within 21 days of illness onset: • Higher Risk Epidemiologic Linkages o Contact, without the use of appropriate PPE±, with a person or animal with known orthopoxvirus or MPOX virus infection; OR o Contact, without the use of appropriate PPE± or Biosaftey Level protocols±, with laboratory specimens or other items that could serve as fomites that have been in contact with a person or animal with a known orthopoxvirus or MPOX virus infection; OR o Member of an exposed cohort as defined by public health authorities experiencing an outbreak (e.g., participated in activities associated with risk of transmission in a setting where multiple cases occurred). • Lower Risk Epidemiologic Likages o Member of a cohort as defined by public health authorities experiencing mpox activity; OR o Contact with a dead or live wild or exotic pet animal or an African species, or used or consumed a product derived from such an animal (e.g., game meat, powders, etc.); OR o Residence in or travel to a country where mpox is endemic. ±The language "without the use of appropriate PPE or Biosaftery Level protocols" includes breaches in the recommended PPE and deviations from appropriate BSL protocols.
Massachusetts Event Classification (2022):	Follows CSTE case definition	

MPOX (continued)

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory report	PCR	Clinical specimen	Positive	Yes	New event CONFIRMED
				No	Same event
Select:	Monkeypox virus DNA [Presence] in Specimen by NAA with probe detection				
Laboratory report	PCR	Clinical specimen	Positive for Mpox virus	Yes	New event CONFIRMED
				No	Same event
Select:	Orthopoxvirus DNA XXX Ql PCR				
Laboratory report	PCR	Clinical specimen	Positive for non-variola orthopoxvirus	Yes	New event PROBABLE
				No	Same event
Select:	Orthopoxvirus DNA XXX Ql PCR				
Laboratory report	PCR	Clinical specimen	Negative, Inconclusive, Unsatisfactory, or Equivocal for Mpox virus or non-variola orthopoxvirus	Yes	New event UNCLASSIFIED
				No	Same event
Select:	Orthopoxvirus DNA XXX Ql PCR				
Laboratory report	ELISA or EIA	Blood or serum	Positive	Yes	New event SUSPECT
				No	Same event
Select (IgM specific):	Orthopoxvirus IgM ELISA				
Select (IgG specific):	Orthopoxvirus IgG ELISA				
Laboratory report	ELISA or EIA	Blood or serum	Equivocal or Negative	Yes	New event UNCLASSIFIED
				No	Same event
Select (IgM specific):	Orthopoxvirus IgM ELISA				
Select (IgG specific):	Orthopoxvirus IgG ELISA				
Laboratory report	Immunohistochemistry	Clinical specimen	Positive for the presence of orthopoxvirus	Yes	New event PROBABLE
				No	Same event

Report Type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Select:	Microscopic observation : PrId : Pt : xxx : Nom : Microscopy.Electron				

Data entry note: Immunohistochemistry results should be reviewed by the Zoonotic Liaison prior to entry.