

## Мрох

	SAFETY DATA SHEET		
	CHARACTERISTICS		HEALTH HAZARDS
Synonym or Cross Reference	Monkey Pox	Host Range	Humans, squirrels, non-human primates, black- tailed prairie dogs, African brush-tailed porcupines, rats, and shrews
Disease	Monkeypox	Incubation	Approximately 7 to 17 days
Morphology	Virus belongs to family Poxviridae, sub- family Chordopoxvirinae and genus Orthopoxvirus. MPXV is a 200 to 250 nm brick-shaped enveloped virus with characteristic surface tubules and a dumbbell-shaped core component. The MPXV genome consists of linear double-stranded DNA. Monkeypox virus is antigenically related to the	Period	
		Infectious Dose	Unknown
		Modes of Transmission	Ingestion, parenteral inoculation, droplet, or aerosol exposure of mucous membranes or broken skin, or contact with infectious fluids or tissue
Zoonosis	variola and vaccinia viruses. Yes	Signs and Symptoms	Onset of non-specific symptoms which can include fever, headache, backache, lymphadenopathy, and fatigue during a prodomal paried of 2 to 2 days
RISK GROU	K GROUP & CONTAINMENT REQUIREMENTS		fatigue during a prodromal period of 2 to 3 days. This is followed by a 2 to 4 week period in which a rash develops and progresses from macules, to papules, to vesicles, and then to pustules, followed by umbilication, scabbing, and desquamation.
ABSL-3	For all procedures utilizing infected animals.		
BSL-3	Containment Level 3 facilities, equipment, and operational practices outlined in CDC's BMBL and WHO's Laboratory biosafety guidance shopuld be		EXPOSURE PROCEDURES
Risk Group 3	followed for all in vitro activities. Agents that are associated with serious or lethal human or animal diseases.	Medical Follow- up	Visit USC's designated healthcare provider. Bring a copy of this PSDS.
		Mucous Membrane	Flush eyes for 5-10 minutes at eyewash station.
	LABORATORY HAZARDS	Other Exposures	Immediately wash affected area with soap and water for 15 minutes.
Primary Hazards	Close contact with an infected animal or human, or contact with materials contaminated with the virus	Reporting Immediately report incident to supervisor, not	
Sources	Samples described in IBC protocol.		EH&S, and complete Manager's Report.
Lab Acquired	None reported to date	MEDICAL PRECAUTIONS/TREATMENT	
Infections (LAIs)	ONAL PROTECTIVE EQUIPMENT	Prophylaxis	Vaccination with the smallpox vaccine, within 4 days and up to 14 days after initial contact with a confirmed mpox case
Additional Precautions	Additional PPE may be required depending on lab- specific SOPs and IBC Protocol.	Surveillance	Monitor for symptoms of infection (see "Health Hazards")
Minimum PPE Requirements	Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants.	Treatment	There are no licensed antiviral drugs available to treat MPXV infection; instead, treatment is supportive.
SPILL PROCEDURES		USC	Immediately report any exposures to Environmental
Large Imn	nediately notify all lab personnel and clear the area.	Requirements	Health & Safety.

- Large Immediately notify all lab personnel and clear the area. Remove any contaminated PPE/clothing before exiting the lab. Lock all entry doors, post warning signage, and deny entry. Call DPS (213-740-4321) and ask to notify EH&S. Inform the PI and/or Lab Manager/Supervisor as soon as possible.
- Notify all lab personnel lab. Remove contaminated PPE Small and don new PPE. Cover spill area with absorbent material and add fresh 1:10 bleach:water. Allow 20 minutes (or as directed) contact time. After 20 minutes, clean up and dispose of materials.

## VIABILITY

Disinfection Use 10 % dilution of household bleach (minimum 0.3% sodium hypochlorite) for 20 to 30 minutes, or an acceptable time approved by IBC and EH&S.

Survival Outside 15 days Host



Vaccination with vaccinia virus (smallpox vaccine) is

approximately 85% effective against mpox.

BMBL	CDC	
http://tiny.cc/cdc-bmbl	https://www.cdc.gov/	
NIH Guidelines	Virginia Tech	
http://tiny.cc/nih-bio-secure	http://tiny.cc/vt-psds	
Montana State University http://tiny.cc/msu-psds	Monkeypox Fact Sheet https://www.ecdc.europa.eu/en/ all-topics-z/monkeypox/factsheet- health-professionals	
NIH National Library of Medicine		

https://www.ncbi.nlm.nih.gov/ pmc/articles/PMC9514334/

Vaccines

