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| **CHARACTERISTICS** | |
| Morphology | Positive-sense single-stranded RNA virus. |
| Disease | Enterovirus D68 (EV-D68) is a specific type of non-polio enterovirus. It was first identified in California in 1962 but since then was only rarely reported in the United States compared to other non-polio enteroviruses. In the fall of 2014, EV-D68 was associated with a nationwide outbreak of severe respiratory illness in the United States and Canada. In some patients, EV-D68-associated illness was severe enough to require intensive care unit (ICU) admission. |
| Zoonosis | None reported. |

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| **HEALTH HAZARDS** | |
| Host Range | Humans. |
| Modes of Transmission | Direct contact with infected secretions or mucous membranes. |
| Signs and Symptoms | Respiratory illness: Mild symptoms may include runny nose, sneezing, cough and body and muscle aches. Severe symptoms may include wheezing and difficulty breathing. |
| Infectious Dose | Unknown. |
| Incubation Period | 3 to 6 days. |

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| **MEDICAL PRECAUTIONS/TREATMENT** | |
| Prophylaxis | None. |
| Vaccines | None. |
| Treatment | No specific treatment for people with respiratory illness. |
| Surveillance | Monitor for symptoms. |
| MSU Requirements | Report any exposures. |

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| **LABORATORY HAZARDS** | |
| Laboratory Acquired Infections (LAIs) | None reported. |
| Sources | Virus is shed from saliva. Cultures, frozen stocks, other samples described in IBC protocol. |

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| **RISK GROUP & CONTAINMENT REQUIREMENTS** | |
| Risk Group 2 | Agents that are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available. |
| BSL2 | For all procedures involving suspected or known infectious specimen or cultures. |
| ABSL2 | For all procedures utilizing infected animals. |

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| **VIABILITY** | |
| Disinfection | Susceptible to 1:10 bleach:water, 70 % ethanol, accelerated hydrogen peroxide |
| Inactivation | Inactivated by moist heat (1 hour at 121oC) and dry heat (1 hour at 160-170 C). |
| Survival Outside Host | Unknown. |

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| **SUPPLEMENTAL REFERENCES** | |
| BMBL | <https://www.cdc.gov/labs/BMBL.html> |
| NIH Guidelines | <https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf> |
| CDC | <https://www.cdc.gov/non-polio-enterovirus/about/about-enterovirus-d68.html?CDC_AAref_Val=https://www.cdc.gov/non-polio-enterovirus/about/ev-d68.html> |

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| **SPILL PROCEDURES** | |
| Small | Notify others working in the lab. Remove PPE and don new PPE. Cover area of the spill with absorbent material and add fresh 1:10 bleach:water. Allow 20 minutes (or as directed) of contact time. After 20 minutes, cleanup and dispose of materials. |
| Large | * Immediately notify all personnel in the lab and clear all personnel from the area. Remove any contaminated PPE/clothing and leave the lab. * Secure the area by locking doors, posting signage and guarding the area to keep people out of the space.   For assistance, contact MSU's Biosafety Officer (406-994-6733) or Safety and Risk Management (406-994-2711). |

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| **EXPOSURE PROCEDURES** | |
| Mucous membrane | Flush eyes, mouth, or nose for 5 minutes at eyewash station. |
| Other Exposures | Wash area with soap and water for 5 minutes. |
| Reporting | Immediately report incident to supervisor, complete a [First Report of Injury](https://firstreportinjury.mus.edu/) form, and submit to Safety and Risk Management. |
| Medical Follow-up | **During business hours:**  Bridger Occupational Health 3400 Laramie Drive Weekdays 8am -6pm. Weekends 9am-5pm  406-577-7674  **After business hours:**  Bozeman Deaconess Hospital Emergency Room  915 Highland Blvd |

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| **PERSONAL PROTECTIVE EQUIPMENT (PPE)** | |
| Minimum PPE Requirements | Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants |
| Additional Precautions | Additional PPE may be required depending on lab specific SOPs and IBC Protocol. |