

CHARACTERISTICS

Synonym or Cross Reference	HIV
Disease	HIV is the causative agent of AIDS. AIDS is characterized by symptoms and infections caused by the breakdown of the immune system due to HIV infection. Due to immunodeficiency, patients succumb to various fungi, parasites, bacteria, and/or viruses and are prone to certain tumors.
Morphology	HIV is a member of the Retroviridae family, genus Lentivirus. HIV is an icosahedral, enveloped virus, of approximately 100 to 110 nm in diameter, and has a single-stranded, linear, positive-sense RNA genome.
Zoonosis	None

RISK GROUP & CONTAINMENT REQUIREMENTS

ABSL-2	For all procedures utilizing infected animals.
BSL-2+	All procedures must be performed in a BSC, unless otherwise approved and stated in lab-specific manual. Follow BSL-3 practices in a BSL-2 designated area.
Risk Group 2	Agents that are associated with serious or lethal human or animal diseases.

LABORATORY HAZARDS

Primary Hazards	N/A
Sources	Human/primate blood + other infectious materials
Lab Acquired Infections (LAIs)	Cases have been reported.

PERSONAL PROTECTIVE EQUIPMENT

Additional Precautions	Additional PPE may be required depending on lab-specific SOPs and IBC Protocol.
Minimum PPE Requirements	Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants.

SPILL PROCEDURES

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.
Small	Notify all lab personnel lab. Remove contaminated PPE 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 Host	Unknown

HEALTH HAZARDS

Host Range	Humans
Incubation Period	Ranges from less than 1 year to 15 years or longer.
Infectious Dose	Unknown
Modes of Transmission	Exposure of the virus to oral, rectal, or vaginal mucosa during sexual activity. Transfusion of contaminated blood products, using contaminated equipment during injection drug use. Mother to infant during pregnancy.
Signs and Symptoms	AIDS is characterized by symptoms and infections caused by the breakdown of the immune system due to HIV infection. Due to immunodeficiency, patients succumb to various fungi, parasites, bacteria, and/or viruses and are prone to certain tumors.

EXPOSURE PROCEDURES

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.
Other Exposures	Immediately wash affected area with soap and water for 15 minutes.
Reporting	Immediately report incident to supervisor, notify EH&S, and complete Manager’s Report.

MEDICAL PRECAUTIONS/TREATMENT

Prophylaxis	Antiretroviral agents: NRTIs, NtRTIs, NNRTIs, PIs, and fusion inhibitors.
Surveillance	Monitor for symptoms of infection (see “Health Hazards”).
Treatment	Antiretroviral agents: NRTIs, NtRTIs, NNRTIs, PIs and fusion inhibitors
USC Requirements	Immediately report any exposures to Environmental Health & Safety.
Vaccines	None available

REFERENCES

BMBL http://tiny.cc/cdc-bmb1	CDC http://tiny.cc/cdc-occ-acquired-hiv
NIH Guidelines http://tiny.cc/nih-bio-secure	Canadian PSDS http://tiny.cc/canada-gov-psds
Virginia Tech http://tiny.cc/vt-psds	Montana State University http://tiny.cc/msu-psds
Clinical Infectious Diseases https://academic.oup.com/cid/article/64/6/810/2747460?login=false	NIH National Library of Medicine https://pubmed.ncbi.nlm.nih.gov/3336776/