

## STANDARD OPERATING PROCEDURE

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**TITLE:** Procedures in the Event of an Accidental Exposure of Personnel to a Non-human Primate, Non- Human Primate Module, West Valley Building, University of Western Ontario

**SOP NO.:** WV 601-01

**REVISION:** 01

**EFF. DATE:** DRAFT

**SUPERSEDES:**

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### APPROVALS

Prepared by (print name): Tyrrel de Langley Dept.: ACVS

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by (print name): \_\_\_\_\_ Dept.: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by (print name): \_\_\_\_\_ Dept.: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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### 1.0 PURPOSE

- 1.1 To outline the procedures personnel must follow in the event an exposure to a non-human primate

### 2.0 SCOPE

- 2.1 This SOP applies to all personnel working with NHP in the West Valley Building.
- 2.2 Staff Health and London Health Sciences Centre Physicians will also be impacted by this SOP
- 2.3 Exposures are defined as:
- 2.3.1 Any bite or scratch or other wound caused by the NHP, which damages the skin surface.
- 2.3.2 Injuries that break the skin surface in any manner from instruments (e.g. scalpel, needles) or equipment (e.g. cages, toys etc.), contaminated by NHPs.
- 2.3.3 Mucous membrane exposure (mouth or eyes) with tissues or secretions (e.g. urine, blood, feces, saliva, vomit, tears, etc.) or by contaminated materials, (e.g. food, bedding, etc.)
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- 2.3.4 Contamination of pre-existing wounds or other skin defects with NHP tissues, secretions (e.g. urine, feces, blood, saliva, vomitus) or by NHP contaminated materials, (e.g. bedding, food, etc.)

### 3.0 RESPONSIBILITIES

- 3.1 All personnel working with NHPs or their unfixed tissues and body fluids, and their supervisors:
  - 3.1.1 Must be aware of the contents of this SOP and its appendices
  - 3.1.2 Must be aware of the location of Human Post-Exposure Kits
    - 3.1.2.1 [List Locations in West Valley Building]
  - 3.1.3 Must be aware of the location of the Eye Wash Stations
    - 3.1.3.1 [List locations in the West Valley Building]
  - 3.1.4 Must be aware of the location of the Primate Exposure Sampling Kits
    - 3.1.4.1 [List locations in the West Valley Building]
- 3.2 The exposed individual will be responsible for following the procedures outlined in this SOP including proper wound cleaning, obtaining samples, seeking medical attention, and contacting their supervisor.
- 3.3 Any personnel present with an exposed individual at the time of exposure will assist the exposed individual according to this SOP.
- 3.4 Veterinary Services staff will
  - 3.4.1 Assess the NHP(s) involved according to this SOP.
  - 3.4.2 Contact the Staff Health Physician with the results of B-Virus testing
  - 3.4.3 Maintain the Human Post-Exposure Kits and Primate Exposure Sampling Kits.
- 3.5 Staff Health and LHSC Physicians who evaluate and treat exposed individuals must be aware of the contents of this SOP and the appendices.

### 4.0 PROCEDURE

- 4.1 First Aid

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- 4.1.1 Obtain the nearest Human Post-Exposure Kit and start first aid procedures immediately.
- 4.1.2 Remove existing gloves. If the wound is on a hand put a nitrile glove on the unaffected hand. Otherwise don a pair of nitrile gloves.
- 4.2 Skin Injuries
  - 4.2.1 Pour bleach into bottle containing water.
  - 4.2.2 Use this solution to irrigate wound.
  - 4.2.3 Following wound irrigation, moisten the detergent impregnated scrub brush in water, and then scrub the wound for **15 minutes**.
  - 4.2.4 Attempt to cause the wound site to bleed by massaging the area and applying gentle pressure around the site
  - 4.2.5 If the brush causes the area to become raw, massage the soap from the scrub brush into the wound for the remaining time.
  - 4.2.6 At conclusion of the scrub obtain a Primate Exposure Sample Kit and follow as per section 4.4
- 4.3 Mucous Membrane Exposure - Mouth, Eyes
  - 4.3.1 Immediately irrigate the contaminated area for 15 minutes using the nearest eyewash station. The portable eyewash may be used if the station is inoperable or a station not available. If using a portable eyewash station it will be necessary to move to a fixed eyewash station, OR, refill the eyewash bottle using tap water, in order to irrigate for the required time.
- 4.4 If the NHP exposure involves a Macaque obtain samples using a Primate Exposure Sample Kit
  - 4.4.1 There are kits in each Human Post Exposure Kit
  - 4.4.2 If the contact occurred from a contaminated object (needle, scalpel blade, cage), place the object into one of the Starplex sterile urine collection containers labelled "Inanimate Object", OR, obtain a swab from the object using the Multitrans Viral swabs from the Primate Exposure Sample Kit.

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- 4.4.2.1 Label the container or swab with the date and source of the swab or object using the fine-tipped permanent marker provided.
- 4.4.3 Using sterile technique, obtain a swab from the employee's injury site with a Multitrans Viral swab
  - 4.4.3.1 Label with date obtained and site swabbed using the fine-tipped permanent marker provided.
- 4.4.4 The injured person's supervisor must be notified and an incident report completed as required by the Employer.
  - 4.4.4.1 For the UWO employees, the Facility Manager or a PI must complete the report and submit it to the Department of Human Resources, Occupational Health and Safety, UWO, within 24 hours.
  - 4.4.4.2 For other employees, the Facility Manger or a PI must complete the report and submit it to the applicable Department of Human Resources, Occupational Health and Safety within 24 hours.
- 4.5 Obtain Medical Attention as soon as possible regardless of the type of NHP involved in the exposure
  - 4.5.1 **UWO employees, ACVS personnel, Graduate & Postdoctoral Students and Robarts Research Institute Employees**
    - 4.5.1.1 **NORMAL DAYTIME CLINIC HOURS:** Between the hours of 0830 and 1600, Monday to Friday excluding University holidays.
      - 4.5.1.1.1 Notify Staff Health that you will be arriving at the office (82047)
      - 4.5.1.1.2 Proceed to University Staff / Faculty Health Services, University Community Centre (UCC), Room 25.
    - 4.5.1.2 **OUTSIDE NORMAL CLINIC HOURS:**
      - 4.5.1.2.1 Contact Dr. T. Macfarlane (Staff and Faculty Health Physician) at 858-4696 and follow instructions given by Dr. Macfarlane.
      - 4.5.1.2.2 If Dr. Macfarlane is not available, proceed to the London Health Sciences Centre, University Campus (LHSC-UC) Emergency Department.

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### 4.5.2 London Health Sciences Centre Employees

4.5.2.1 **BETWEEN THE HOURS OF 0730 AND 1630** - Proceed to Employee Health Services at LHSC-UC, Room 1AD32.

4.5.2.2 **AT ALL OTHER TIMES** - Proceed to LHSC-UC Emergency Department.

### 4.5.3 Medical personnel will provide appropriate medical care and wound management

4.5.3.1 If in the opinion of the attending physician, the employee has had potential for exposure to B-Virus the following procedures will be followed:

4.5.3.1.1 An initial blood sample for B-Virus antibodies will be taken from the exposed individual at the first visit for medical attention.

4.5.3.1.2 This should be within 2 hours of exposure.

4.5.3.1.3 A follow-up blood sample for B-Virus antibodies will be obtained **3 weeks** after exposure

4.5.3.1.4 Anti-viral medication will be made available

4.5.3.1.5 All necessary follow-up examinations and counseling

4.5.3.1.6 Post-exposure employees should maintain contact with medical personnel and consult as needed, and in particular if there are any of the following: Flu-like symptoms, Dizziness or weakness, Difficulty breathing, Double vision or visual sensitivity to light, Fever, Itchy rash, Blisters at the inoculation site, Conjunctivitis, Severe headache, pain (in particular radiating pain), numbness.

4.5.3.2 The Veterinarian will examine the NHP and collect samples according to SOP ?X?X

## 5.0 5. **HEALTH & SAFETY**

5.1 Risks of working with NHPs, their body fluids, and tissues.

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*5.1.1 All macaques, and their body fluids and tissues, should be considered carriers of B-Virus which in the event of an exposure can cause fatal disease in humans*

5.1.2 Working with NHPs (and their body fluids and tissues) of any species has inherent risks of zoonotic diseases as well as risks from the animals themselves, and from equipment, materials and agents used in NHP husbandry.

5.1.3 All personnel working with NHPs (including body fluids and tissues) and their supervisors, must be familiar with the ACVS document Research Using Non-Human Primates – Safety Concerns for Personnel (Appendix 1)

### 5.2 Reducing the Risks Associated with NHPs

5.2.1 All personnel working with NHPs, or their body fluids or tissues, must be familiar with and agree to follow the applicable SOPs

5.2.2 All personnel working with NHPs, or their body fluids or tissues, or treating exposed personnel, must be familiar with the Staff Health Policy: Advice to Employees Working with Non-Human Primates and Physicians Treating Human Exposures (Appendix 2 on blue paper)

5.2.3 Personnel may not work with NHPs, and their body fluids and tissues, until all training has been completed

5.2.4 SHARPS i.e. needles, syringes, broken glass, etc. shall be disposed of in the appropriate labeled container. Needles must never be recapped while holding the needle cover.

5.2.5 All personnel working with NHPs, and their body fluids and tissues, must be familiar and comfortable with the use of Personal Protective Equipment

5.2.5.1 All personnel must undergo NIOSH mask fit-testing

## 6.0 REVISION HISTORY

Revision	Reason(s) for Revision	Initiated by

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## 7.0 REFERENCES / ASSOCIATED MATERIALS

- 7.1 ‘Guidelines for the Prevention and Treatment of B-Virus Infections in Exposed Persons’, Holmes, GP et al, Clinical Infectious Diseases, 1995; 20:421-3
- 7.2 UWO Occupational Health and Safety <http://www.haz-map.com/Patient.htm>
- 7.3 “Prevention and Therapy for B Virus Exposure”, Cohen, Jeffrey I, et al, CID 2002:35
- 7.4 National B Virus Resource Centre, <http://www.gsu.edu/~wwwvir/>
- 7.5 Centers for Disease Control and Prevention, <http://www.cdc.gov/ncidod/diseases/bvirus.htm>

## 8.0 ATTACHMENTS

- 8.1 Appendix 1: Research Using Non-Human Primates – Safety Concerns for Personnel
- 8.2 Appendix 2: Advice to Employees Working with Non-Human Primates and to Physicians Treating Human Exposures.
- 8.3 Appendix 3 Exposure procedure Summary