

**STANDARD OPERATING PROCEDURES FOR CASE MANAGEMENT
OF EMPLOYEES POTENTIALLY EXPOSED
TO *HERPES VIRUS SIMIAE* (B VIRUS)**

Bites or scratches from nonhuman primates of the genus Macaque (examples: Rhesus, Pigtail, Cynomolgus) or ANY piece of equipment that may have been exposed to their secretions or blood, such as a needle stick or scratch from a cage, require special attention and adherence to a strict protocol because of the risk of B virus infection. [Infection with B virus in humans can be fatal.](#)

I. Employee Responsibilities

A. Skin Wound

1. IMMEDIATELY go to sink, wet the wound with water and apply disinfectant soap.
2. Scrub the injured area with soap and water for 20 minutes.
3. Rinse the wound thoroughly and pat dry.
4. Inform your supervisor of the exposure.
5. If your supervisor is unavailable, call the DCM office at 362-3700 AND Employee Health Service (EHS) 362-3528 for instructions.
6. If it is after hours OR on the weekend, page DCM at 841-5302 AND EHS at 871-2966 for instructions.
7. Identify the animal or equipment that caused your injury.

B. Exposure of Eye or Mouth

1. Flush the injured area with running water for 15 minutes.
2. Inform your supervisor of the exposure.
3. If your supervisor is unavailable, call the DCM office at 362-3700 AND Employee Health Service (EHS) 362-3528 for instructions.
4. If it is after hours OR on the weekend, page DCM at 841-5302 AND EHS at 871-2966 for instructions.
5. Identify the animal or equipment that caused your injury.

II. Supervisor Responsibilities

- A. Verify that the contact animal is a Macaque or trace the source if possible.
- B. Verify that the employee has washed the injured area.
- C. If the employee hasn't already done so, contact BOTH DCM and EHS at the above numbers.
- D. Fill out a WUSM Injury/Exposure Report and WU Report of Injury or Illness.

III. Veterinary Responsibilities

A. Clinical/Primate Veterinarian

1. Verify the macaque species and ID of the animal involved , please note previous B virus test results, if any.
2. Pick up the B Virus Culture Kit in the veterinary cabinet and the viral culture swabs (Bartels Viral Transport System) from the East McDonnell Necropsy Room refrigerator
3. Anesthetize the monkey and check for oral ulcerations or conjunctivitis (may be indicative of active infection and shedding). Draw 5 ml of blood from the monkey. Separate serum. Place 1 ml in unbreakable plastic vial (minimum .5 ml). Save the remaining serum for backup. Label with monkey identification and collection date.
4. Collect primate virology samples: 1 buccal, 2 conjunctival (each eye) and 1 genital. Use the sterile swabs provided with the viral transport medium. Aseptically break off each swab in the screw top vials containing transport medium.

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5. Label all vials with monkey identification number, collection date and site of virology sample. Fill out NIH B Virus Request Form.
ON WEEKENDS AND AFTER HOURS: Virology and serum specimens should be placed in the -80°C freezer in the DCM diagnostic laboratory, CSRB North Tower, 2nd Floor. These should be shipped on the following work day; alert the responsible individuals (lab personnel, primate vet).
DURING NORMAL WORKING HOURS: Take the sample to the DCM diagnostic lab for processing.
6. DCM will supply and restock a bite/wound kit as described in *Guidelines for Prevention and Treatment of B Virus Infections in Exposed Persons*, CDC Publications, 1995.

B. DCM Diagnostic Lab Responsibilities

1. Pick up the human sample from EHS. Assure proper labeling of all specimens and process appropriate forms. Package in dry ice and arrange for shipment to NIH B-Virus Resource Laboratory via overnight courier. Federal Express pickup for dry ice packages at McDonnell is 4:00 p.m. daily (Monday - Friday). If the package is to be shipped on a Friday, specify "Saturday Delivery" on the FedEx airbill AND on the box. Call the NIH B-Virus Resource Laboratory (404-651-0808) to let them know of the shipment and to clarify any questions.
2. Follow up in 14-21 days based on the results of the initial testing.
3. A log of exposures will be kept in DCM. Persons, animals, equipment, procedures and serum and culture results will be recorded.
4. Final results will be sent to EHS and a copy also will be kept at DCM.

IV. Employee Health/BJC North ER Responsibilities

- A. Contact DCM (numbers above) to verify their knowledge of the incident and that the injury was associated with a macaque monkey. If appropriate, contact BJC North ER, 454-7900.
- B. Confirm proper cleansing of wound.
- C. Collect appropriate cultures from the wound (if possible). If vesicular lesion is present, unroof and swab across the base of the lesion.
- D. Get a tissue biopsy (1-2 mm² tissue flap) of the affected area if the nature of the wound allows. Package as per swabs.
- E. Draw 10 ml of blood, separate serum. If after hours, blood should be collected the next working day by EHS.
- F. All specimens will be picked up by DCM. Call 362-9095 to arrange for pickup.
- G. EHS shall counsel the patient regarding infection with *H. simiae*.
- H. EHS shall follow up in 14-21 days. Further follow up will be dependant on monkey and human initial test results.