SCOPE
This procedure relates to all activities under the management and control of Monash University in Australia and applies to affected staff, students, contractors and visitors.

PROCEDURE STATEMENT
This procedure sets out the actions that must be taken when a potential exposure to Macacine alphaherpesvirus 1 (B virus) has occurred. Exposure could result from macaque bites, scratches and contact with their bodily fluids. All exposures must be treated seriously as even minor exposure may be fatal.

1. Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP</td>
<td>Employee Assistance Program</td>
</tr>
<tr>
<td>GP</td>
<td>General Practitioner</td>
</tr>
<tr>
<td>LMO</td>
<td>Local Medical Officer</td>
</tr>
<tr>
<td>LRH</td>
<td>Latrobe Regional Hospital</td>
</tr>
<tr>
<td>McHV1</td>
<td>Macacine alphaherpesvirus 1 (B virus)</td>
</tr>
<tr>
<td>MARP</td>
<td>Monash Animal Research Platform</td>
</tr>
<tr>
<td>MMC</td>
<td>Monash Medical Centre</td>
</tr>
<tr>
<td>NHMRC</td>
<td>National Health and Medical Research Council</td>
</tr>
<tr>
<td>OHNC</td>
<td>Occupational Health Nurse Consultant</td>
</tr>
<tr>
<td>OHP</td>
<td>Occupational Health Physician</td>
</tr>
<tr>
<td>OH&amp;S</td>
<td>Monash Occupational Health &amp; Safety</td>
</tr>
</tbody>
</table>

2. Emergency Procedures for Suspected Exposure

2.1 First Aid
The first few minutes are CRITICAL following a potential exposure to Macacine alphaherpesvirus 1 (B virus or McHV1). The following treatment must be carried out immediately following suspected exposure:

2.1.1 Wounds
- Massage wound to make it bleed.
- Immediately scrub thoroughly with povidone-iodine (Betadine) or chlorhexidine for 15 minutes.
- Rinse wound with water for 15 minutes.

2.1.2 Eyes
- Irrigate eye(s) with flowing water for 15 minutes.
2.2 **Specialised First Aid Kit**
A dedicated first aid kit with specialised macaque module should be available in the immediate vicinity to macaques and their cages and housing. Refer to the Tools Section for the macaque module contents list.

2.3 **Notification and Reporting**
The injured worker must inform their Supervisor of an exposure or suspected exposure. The manager/supervisor is responsible for carrying out the following notifications and actions:

- **2.3.1** Report incident to the Manager;
- **2.3.2** Report incident to Occupational Health Nurse Consultant (OHNC);
- **2.3.3** If neither of the above persons are available, notify the Manager, OH&S;
- **2.3.4** Report incident to Biosafety Officer and/or Safety Officer;
- **2.3.5** Report the injury using the online Hazard and Incident Reporting System; and
- **2.3.6** Notify the Veterinarian on call.

2.4 **Medical Assessment at Infectious Disease Unit**
This section is relevant to the injured worker, their supervisor and treating doctors. **The worker should take a copy of this procedure with them to their admission/appointment.**

**CLAYTON:**

- **2.4.1** Following the administration of first aid, the injured worker or their supervisor should immediately notify the OHNC, who will notify the OHP.
- **2.4.2** The OHP will subsequently arrange an appointment at the Infectious Diseases Unit at Monash Medical Centre (MMC) for medical assessment, post-exposure prophylaxis and consultation.
- **2.4.3** It is the worker’s responsibility to maintain follow-up contact with their treating physician, as advised following initial consultation.

**GIPPSLAND:**

- **2.4.4** Following the administration of first aid, the injured worker or their supervisor should immediately notify the OHNC, who will notify the OHP.
- **2.4.5** The OHP will subsequently arrange an appointment at either the Infectious Diseases Unit at MMC or LRH for medical assessment, post-exposure prophylaxis, consultation and counselling.
- **2.4.6** It is the worker’s responsibility to maintain follow-up contact with their treating physician, as advised following initial consultation.

**OTHER SITES:**

- **2.4.7** If an exposure incident occurs at another site (e.g. during transportation of macaques between sites), the worker is to immediately receive or administer first aid and then proceed to the nearest campus and associated hospital, as outlined above.

2.5 **Procedure for Exposure Occurring After Hours**
This section is relevant to the injured worker, their supervisor and treating doctors. **The worker should take a copy of this procedure with them to their admission/appointment.**

**CLAYTON:**

- **2.5.1** Where an exposure occurs outside of business hours, the worker should follow the procedures in 2.4 for exposures occurring on Clayton campus.
- **2.5.2** The treating doctor must notify the On-Call Infectious Disease Physician at MMC and an appointment must be arranged within 24 hours of exposure.
- **2.5.3** The worker must notify their supervisor as soon as practicable. The supervisor should notify the ONHC as soon as practicable. The OHNC will immediately notify the OHP. The OHP will follow up with the treating medical team at MMC.
GIPPSLAND:

2.5.4 Where an exposure occurs outside of business hours, the worker should follow the procedures in 2.4 for exposures occurring on Gippsland campus.

2.5.5 The treating doctor must notify the On-Call Infectious Disease Physician at MMC and an appointment must be arranged within 24 hours of exposure. A 24-hour service is provided by both MMC and LRH.

2.5.6 Where an exposure occurs outside of business hours, the worker should follow the procedures in 2.4 for exposures occurring on Clayton campus.

2.5.7 The worker should take a copy of this procedure with them to MMC Emergency Department.

2.5.8 The treating doctor must notify the On-Call Infectious Disease Physician at MMC and an appointment must be arranged within 24 hours of exposure.

2.5.9 The worker must notify their supervisor as soon as practicable. The supervisor should notify the ONHC as soon as practicable. The OHNC will immediately notify the OHP. The OHP will follow up with the treating medical team at MMC.

OTHER SITES:

2.5.10 If an exposure incident occurs at another site (e.g. during transportation of macaques between sites), the worker is to immediately receive or administer first aid and then proceed to the nearest campus and associated hospital, as outlined above.

2.6 Course of Action for MMC Infectious Diseases Medical Team

It is important that a patient potentially exposed to B virus receives assessment from a Senior Infectious Diseases Physician.

The OHP will:

- liaise with the Infectious Diseases Physician On-Call (Registrar) and/or Senior Infectious Diseases Physician at MMC (T: (03) 9594 6666); and
- ensure the affected worker is seen for an appointment at the Infectious Diseases Unit Outpatients Clinic within 24 hours of the potential B virus exposure.

2.7 Veterinarian On-Call

The macaque is examined for any signs of disease, especially oral ulcers or vesicles on any part of the body, and information provided to the OHP and Infectious Disease Physician.

2.8 Post-Exposure Counselling

Counselling should be offered to the affected worker as soon as is reasonably practicable and may be arranged by the injured person, supervisor, OHNC, OHP or their delegate. The University’s Employee Assistance Program is available 24 hours/7 days on T: 1300 360 364.

3. Medical Alert Card

Supervisors should provide people who work with or in the vicinity of macaques, their cages or housing a Medical Alert card. The worker should carry the card at all times. The card should be shown to medical staff at the treating medical facility following any suspected exposure.

4. Review of Documentation

All procedure documents, information sheets and risk management plans associated with work with macaques at Monash University must be reviewed annually by a working group composed of staff from MARP, OH&S and other persons as appropriate.

All documentation (e.g. flow charts, emergency contact details and B virus first aid information) must be reviewed and updated by the supervisor at least annually or immediately following an incident or when a change to the documentation takes place.

5. Responsibility for Implementation

A comprehensive list of OHS responsibilities is provided in the OHS Roles, Committees and Responsibilities Procedure. The responsibilities specific to this procedure are summarised below.
**Occupational Health Physician (OHP):** The OHP is responsible for the development of procedures and provision of specialist advice on issues concerning suspected exposure to *Macacine alphaherpesvirus 1* (B virus) or any related areas when required.

**Supervisor:** Supervisors are responsible for carrying out a series of notifications and actions immediately after being advised of a suspected exposure to *Macacine alphaherpesvirus 1* (B virus). Refer to section 3.3.

**Veterinarian:** The veterinarian is responsible for the care of the monkeys, and liaising with the OHP, OHNC and OH&S in regard to clinical observations.

6. **Tools**

   The following tools are associated with this procedure and available on the following pages:

   - Checklist for suspected B virus exposure
   - Local emergency contacts for suspected exposure to McHV1 pro forma
   - First aid for suspected exposure to *Macacine alphaherpesvirus 1* (B virus) flowchart
   - First aid equipment for work with macaques

7. **Records**

<table>
<thead>
<tr>
<th>Records to be kept by</th>
<th>Records</th>
<th>To be kept for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Health &amp; Safety (in confidential medical files)</td>
<td>Medical records including test results</td>
<td>100 years</td>
</tr>
</tbody>
</table>
Checklist for Suspected B Virus Exposure

☐ Administer first aid IMMEDIATELY. It is CRITICAL that this is performed immediately after suspected exposure and uses appropriate first aid supplies and equipment

☐ Notify:
  ☐ Supervisor
  ☐ Biosafety Officer and/or Safety Officer
  ☐ MARP Animal Services Manager
  ☐ OHNC (who will notify OHP)
  ☐ OH&S
  ☐ Veterinarian

☐ Take copy of procedures to hospital

☐ Attend consultation with Infectious Diseases Specialist within 24 hours (contact Monash Medical Centre (MMC) Infectious Diseases unit physician on-call)

☐ Submit an incident report via S.A.R.A.H. (First Aider to submit First Aid Report form)

☐ Follow medical advice and prescribed treatment

☐ Follow up repeat medical appointments and treatment as required
### Local Emergency Contacts for Suspected Exposure to McHV1

<table>
<thead>
<tr>
<th><strong>Animal Faculty Management</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Director [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
<tr>
<td>Facility Manager [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Monash University Veterinarians</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
<tr>
<td>Dr [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Monash Medical Centre – Infectious Diseases Unit (Clayton)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address 1</td>
<td></td>
</tr>
<tr>
<td>Address 2</td>
<td></td>
</tr>
<tr>
<td>Address 3</td>
<td></td>
</tr>
<tr>
<td>Senior Infectious Diseases Physician (Specialist/Consultant)</td>
<td></td>
</tr>
<tr>
<td>Infectious Diseases Registrar (On-call)</td>
<td></td>
</tr>
<tr>
<td>T: XXXX XXXX</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Latrobe Regional Hospital – Emergency Department</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address 1</td>
<td></td>
</tr>
<tr>
<td>Address 2</td>
<td></td>
</tr>
<tr>
<td>Address 3</td>
<td></td>
</tr>
<tr>
<td>Infectious Diseases Registrar (On-call)</td>
<td></td>
</tr>
<tr>
<td>Local Medical Officer</td>
<td></td>
</tr>
<tr>
<td>T: XXXX XXXX</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OH&amp;S Monash University</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager OH&amp;S [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
<tr>
<td>Occupational Health Nurse Consultant [INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
<tr>
<td>OH&amp;S Helpdesk</td>
<td>T: XXXX XXXX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>After Hours Contacts</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
<tr>
<td>[INSERT NAME]</td>
<td>T: XXXX XXXX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Monash Employee Assistance Provider (24 hours/7 days)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Effective: MM/YYYY</td>
<td>Date of Next Review: MM/YYYY</td>
</tr>
</tbody>
</table>
First Aid for Suspected Exposure to *Macacine Alphaherpesvirus 1* (B Virus)

**Bite/scratch/needlestick/cut/puncture**

1. Massage the wound to make it bleed
2. Scrub wound with betadine or chlorohexidine for 15 minutes
3. Rinse with water for 15 minutes
4. Dry, cover with dressing

**Eye splash with urine, faeces, blood or secretions**

1. Rinse eyes immediately with running water
2. Continue washing eyes for 15 minutes

**Report to supervisor and OHNC (OHP) on 9905 1014**

For further assistance:

- **Clayton:** Attend Monash Medical Centre, Emergency Department and consult with On-Call Infections Diseases Physician [T: (03) 9597 6666]
- **Gippsland:** Attend Latrobe Regional Hospital, Emergency Department [T: (03) 5123 8000]. The treating doctor must contact Monash Medical Centre and consult with the Infectious Diseases Physician on T: (03) 9594 6666 to arrange an appointment at MMC, if required.
- **Off-campus:** Attend hospital associated with nearest campus, as above.

Injured worker to bring to hospital:
- a copy of these procedures
- a Medical Alert card

Report the incident to Biosafety Officer and/or Safety Officer and complete OH&S Hazard and Incident Report via S.A.R.A.H.
First Aid Equipment for Work with Macaques

Refer to First Aid Procedure

Equipment

1. Facilities to administer continuous stream of fresh water for at least 15 minutes
2. First aid kit including macaque module, clearly labelled "FIRST AID KIT – MACAQUE MODULE"

Macaque First Aid Module Contents

1. Disposable scrubbing brush (e.g. nail brush) x 2
2. Large basin for soaking wounds x 1
3. Povidone-iodine (e.g. Betadine) or chlorhexidine 500mL bottle x 2
4. Sterile gauze pads (various sizes) for soaking and dressing of wounds x 8
5. Non-adherent dressing (e.g. Melolin), various sizes x 4
6. Surgical tape (e.g. Micropore) x 1 roll
7. Crepe bandages (e.g. HandyCrepe), 7.5cm x 1.5m size or larger x 2
8. Eyewash (e.g. Eye Stream) 500mL bottle x 2
9. Nitrile gloves x 8 pairs
10. Biohazard bags (e.g. 27 litre - 500mm x 600mm) x 2
11. First Aid Report Form x 1

Written Procedures

1. Laminated B virus First Aid Flow Chart x 1
2. Management of Suspected Exposure to Macacine alphaherpesvirus 1 (B virus) Procedure x 2
Frequently Asked Questions

1. Where can we get Medical Alert cards to carry to alert medical personnel to the fact that we work with macaques?
   Your supervisor will provide Medical Alert cards to all workers who may come into contact with macaques.

2. Why should I carry a Medical Alert card indicating that I have been around macaques?
   In the past, individuals who have been infected by B virus, but not treated early enough to prevent fatality, have shown up in emergency rooms disoriented, distressed, and unable to provide useful information to medical personnel. These cards will alert healthcare workers to the fact that you work or have worked with macaques. As a result they can order tests that can quickly rule out whether your symptoms are due to B virus.
DEFINITIONS
A comprehensive list of definitions is provided in the Definitions tool. Definitions specific to this procedure are provided below.

<table>
<thead>
<tr>
<th>Key word</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Health Physician (OHP)</td>
<td>Occupational Health Physician is a highly trained medical specialist and member of Occupational Health and Safety. The OHP provides a wide range of services relating to the health of staff and students, including injury prevention, treatment and rehabilitation.</td>
</tr>
<tr>
<td>Veterinarian</td>
<td>Veterinarians are tertiary qualified professionals whose specialty is in diagnosing and treating sickness, disease and injury in all types of animals.</td>
</tr>
</tbody>
</table>

GOVERNANCE

Parent policy | OHS Policy
Supporting schedules | N/A
Associated procedures | Australian and International Standards
Codes and Other Guidance Documents
- NHMRC - The Principles and guidelines for the care and use of non-human primates for scientific purposes, 2016
Monash University Documents
- First Aid Procedure
- Guidelines for the Development of Safe Work Instructions
- Managing OHS Hazards and Incidents Procedure
- OHS Roles, Responsibilities and Committees Procedure
- OHS Risk Management Procedure
- Risk Management Guidelines - Biological
Legislation mandating compliance | Occupational Health and Safety Act 2004 (Vic)
Category | Operational
Endorsement | Monash University OHS Committee
17 November 2020
Approval | Office of the Chief Operating Officer & Senior Vice-President (a delegate of the President & Vice-Chancellor)
1 December 2020
Procedure owner | Manager, OH&S
Date effective | December 2020
Review date | 2023
Version | 5.0
Content enquiries | ohshelpline@monash.edu
<table>
<thead>
<tr>
<th>Version</th>
<th>Date Approved</th>
<th>Changes made to document</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>August 2012</td>
<td>Procedures for the management of suspected exposure to Cercopithecine herpesvirus 1 (B Virus), v2</td>
</tr>
<tr>
<td>3</td>
<td>November 2014</td>
<td>Management of suspected exposure to Cercopithecine herpesvirus 1 (B Virus) Procedure, v3</td>
</tr>
<tr>
<td>3.1</td>
<td>July 2015</td>
<td>Updated hyperlinks throughout to new OH&amp;S website</td>
</tr>
<tr>
<td>3.2</td>
<td>August 2017</td>
<td>Updated logos in header.</td>
</tr>
</tbody>
</table>
| 4       | December 2017 | 1. All information regarding swabbing the macaque and human have been removed. Treatment is not based on the results of any of these tests and even swabbing can delay worker receiving the appropriate Medical attention.  
2. Notification to Safety Officer was added.  
3. MARP manager was replaced with ‘manager’, as macaques are also handled at non-MARP facilities, where relevant managements needs to be notified. |
| 5       | December 2020 | 4. Updated virus taxonomy.  
5. Procedure title changed .  
6. Changed references to 'staff/student' to 'worker'.  
7. Provided separate instructions for exposure management process at Clayton and Gippsland campuses .  
8. Provided additional instructions for exposure occurring outside of Monash campuses.  
9. Updated information regarding role of Veterinarian. |