1. PURPOSE

This Standard Operating Procedure (SOP) describes the health monitoring program for macaques.

2. RESPONSIBILITY

Veterinary care staff.

3. MATERIALS

3.1. Ketamine
3.2. Old Mammalian Tuberculin
3.3. Blood collection materials
3.4. Fecal collection containers

4. PROCEDURES

4.1. Monitor populations that are housed for more than 8 weeks.
4.2. Every 6 months, under ketamine (10 mg/kg IM) anesthesia:
   4.2.1. Examination:
       4.2.1.1. Record body weight.
       4.2.1.2. Perform a complete physical examination.
       4.2.1.3. Examine the animal for oral or genital lesions (e.g. vesicles, ulcerations, etc.) and any clinical evidence of viral shedding.
       4.2.1.4. Trim the nails.
   4.2.2. Tuberculosis testing:
       4.2.2.1. Inject 0.1 ml of Old Mammalian Tuberculin in the upper eyelid near the edge.
       4.2.2.2. Reaction will be read at 24h, 48h, and 72h.
       4.2.2.3. The description of the reaction or corresponding reaction grade (as per table below) must be entered into the animal’s record.

<table>
<thead>
<tr>
<th>REACTION GRADE</th>
<th>DESCRIPTION OF CHANGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No reaction</td>
</tr>
<tr>
<td>1</td>
<td>Bruise – extravasation of blood in the eyelid associated with the injection of tuberculin.</td>
</tr>
<tr>
<td>2</td>
<td>Varying degrees of erythema of the palpebrum with minimal swelling.</td>
</tr>
<tr>
<td>3</td>
<td>Moderate swelling with or without erythema.</td>
</tr>
<tr>
<td>4</td>
<td>Obvious swelling of the palpebrum with drooping and varying degrees of erythema.</td>
</tr>
<tr>
<td>5</td>
<td>Marked swelling with necrosis and eyelid closure or partially closed.</td>
</tr>
</tbody>
</table>

4.2.2.4. Grades 0, 1 and 2 are considered negative. Grade 3 is suspect and grades 4 and 5 are considered positive.
4.2.3. Inject ivermectin 0.2mg/kg subcutaneously.

4.2.4. Fecal samples:
   4.2.4.1. Collect fresh feces from cage trays for parasitology (flotation).
   4.2.4.2. Collect fresh feces in Cary-Blair transport medium for culture.

4.2.5. Blood collection, if required:
   4.2.5.1. Take 2 mL of blood from the femoral vein: 0.5 mL in EDTA for hematology.

4.2.6. Conduct Herpes B testing as per Macaque Herpes B Testing SOP.

4.3. Health status reports:
   4.3.1. The facility veterinarian reviews all health monitoring reports.

**SOP REVISION HISTORY**

<table>
<thead>
<tr>
<th>DATE</th>
<th>PREVIOUS VERSION</th>
<th>NEW VERSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018.01.11</td>
<td>4.2.5.2. Take 2 mL of blood from the femoral vein: 0.5 mL in EDTA for hematology and 1.5 mL in SST tube for serology</td>
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<tr>
<td>2018.01.11</td>
<td>4.2.6 (NO TEXT)</td>
<td>5.1.3 Conduct Herpes B testing as per Macaque Herpes B Testing SOP.</td>
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</table>

* All sections containing procedures and annex related to sample collection for Herpes B testing can now be found in SOP 630 – Macaque Herpes B Testing.