
1. PURPOSE

This Standard Operating Procedure (SOP) describes the quarantine program for macaques imported from outside North America.

2. RESPONSIBILITY

Animal care staff, veterinary care staff, principal investigator (PI).

3. MATERIALS

- 3.1. Ketamine
- 3.2. Old Mammalian Tuberculin
- 3.3. Tattoo machine
- 3.4. Fecal collection containers
- 3.5. Swabs

4. INTRODUCTION

- 4.1. The Canadian government, through the Canadian Food Inspection Agency (CFIA), requires a formal quarantine for all NHPs imported to Canada, into CFIA-approved facilities.
- 4.2. The animals are imported from an operation under veterinary supervision, outside Canada, after receiving approval from the CFIA.
- 4.3. The CFIA ensures that the imported animals are coming from an area that has been negative for *Mycobacterium tuberculosis* (TB) and other pathogens for a minimum of 2 years.

5. PROCEDURES

- 5.1. No research procedures will be conducted on quarantined animals. Only veterinary and animal care procedures (as prescribed by the CFIA) for animals coming from an area under veterinary supervision.
- 5.2. During quarantine each animal will be tested or treated as follows:
 - 5.2.1. TB testing:
 - 5.2.1.1. Injection of 0.1 ml of Old Mammalian Tuberculin in the upper eyelid under ketamine (10 mg/kg IM) anesthesia. Reaction will be read at 24h, 48h, and 72h. TB testing is repeated once or twice.
 - 5.2.2. Blood collection for serology:
 - 5.2.2.1. 3 ml from femoral vein under ketamine anesthesia (if possible at the same time as TB testing), once or twice.
 - 5.2.3. Tattooing:
 - 5.2.3.1. Under ketamine anesthesia (at the same time as TB testing).
 - 5.2.4. Fecal samples:
 - 5.2.4.1. Collected from cage trays or directly from the rectum (at the same time as TB testing) for parasitology and microbiology.
 - 5.2.5. Antiparasitic treatment:
 - 5.2.5.1. Fenbendazole 50 mg/kg administered by oral gavage under physical restraint (up to 6 treatments).
 - 5.2.5.2. Ivermectin 0.2mg/kg administered subcutaneously.

5.3. Tests and treatments are administered following the schedule below:

QUARANTINE DAY	PROCEDURE
Day 1	<ul style="list-style-type: none"> • Receiving: <ul style="list-style-type: none"> - Transfer animals to their housing cage. - Keep crates until approval for disposal.
Day 4	<ul style="list-style-type: none"> • Fecal culture for Salmonella, Shigella, Yersinia • Fecal parasitology (flotation)
Day 5	<ul style="list-style-type: none"> • Fecal culture for Salmonella, Shigella, Yersinia
Day 6	<ul style="list-style-type: none"> • Fecal culture for Salmonella, Shigella, Yersinia
Day 11	<ul style="list-style-type: none"> • TB testing under CFIA supervision • Physical exam • Body weight • Detection of external parasites • Ivermectin treatment (0.2 mg/kg SC)
Day 12	<ul style="list-style-type: none"> • Reading TB test (24 hours) under CFIA supervision • Fenbendazole 50 mg/kg PO
Day 13	<ul style="list-style-type: none"> • Reading TB test (48 hours) under CFIA supervision • Fenbendazole 50 mg/kg PO
Day 14	<ul style="list-style-type: none"> • Reading TB test (72 hours) under CFIA supervision • Fenbendazole 50 mg/kg PO
Day 18	<ul style="list-style-type: none"> • Fecal culture for Salmonella, Shigella, Yersinia • Fecal parasitology (flotation)
Day 26	<ul style="list-style-type: none"> • Fenbendazole 50 mg/kg PO
Day 27	<ul style="list-style-type: none"> • Fenbendazole 50 mg/kg PO
Day 28	<ul style="list-style-type: none"> • Fenbendazole 50 mg/kg PO • Detection of external parasites • Fecal parasitology (flotation)
Day 32	<ul style="list-style-type: none"> • End of quarantine under supervision of CFIA
Day 32	<ul style="list-style-type: none"> • TB Testing (2nd TB test is not regulated by CFIA) • Physical exam • Body weight • Sample collection for serology and/or PCR
Day 33	<ul style="list-style-type: none"> • Reading TB test (24 hours)
Day 34	<ul style="list-style-type: none"> • Reading TB test (48 hours)
Day 35	<ul style="list-style-type: none"> • Reading TB test (72 hours)

- 5.4. The quarantine period lasts a minimum of 30 days as prescribed by CFIA.
- 5.5. In the event an animal reacts positively to a test, CFIA will dictate additional confirmatory tests, and possibly euthanasia of the animals. Animals suffering from a condition that is not responding to veterinary care will be humanely euthanized.
- 5.6. At the end of the quarantine, the CFIA will authorize the release and transfer of animals to approved institutions. Any transfer of NHPs requires an approved permit from the CFIA. Transportation of animals will be conducted as per SOP.