
STANDARD OPERATING PROCEDURE

TITLE: **Quarantine Process For Macaques Imported from the USA, Non-Human Primate Module, West Valley Building, University of Western Ontario**

SOP NO.: **WV 303-01**

REVISION: **01**

EFF. DATE: **DRAFT**

SUPERSEDES:

APPROVALS

Prepared by (print name): Tyrrel de Langley	Dept.: ACVS
Signature: _____	Date: _____
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Signature: _____	Date: _____
Approved by (print name): _____	Dept.: _____
Signature: _____	Date: _____

1.0 PURPOSE

- 1.1 This SOP outlines the process for quarantine of *Cynomolgus* macaques (*Macaca fascicularis*) imported from the USA.
- 1.2 Unless Canadian Food Inspection Agency, (CFIA), requires additional quarantine conditions the following procedures shall be followed. (***Refer to the CFIA website prior to every NHP order to confirm that there are not changes to the quarantine process.***)
- 1.3 These criteria are in place to meet CFIA regulations, and to ensure that only healthy Non-human Primates (NHP) are admitted to the facility, and thus minimize the risk of disease transfer to the existing animals and of zoonotic disease transfer to personnel working within the facility.
- 1.4 Only ACVS Veterinarians and approved Health Sciences Animal Facility Animal Care staff, may access the quarantine holding and procedure areas.

2.0 SCOPE

- 2.1 This SOP applies to macaques ordered from the USA destined for use at a facility at the University of Western Ontario any of the affiliate institutions.

3.0 RESPONSIBILITIES

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- 3.1 All scientists, veterinarians, animal care and research personnel involved in the ordering, housing, care, and quarantine of macaques shall follow the process described in this SOP.

4.0 PROCEDURE

4.1 Source selection

- 4.1.1 Refer to the SOP NHP Procurement

4.2 Individual Files

- 4.2.1 Each NHP in transit should have a file prepared with copies of the CITES permit, the Import Permit, the International Health Certificate, the shipping documents, and all the health records including procedure, vaccine, tests and test results, and treatment histories.
- 4.2.2 The identification of each individual must be clearly stated in the file and correspond to the appropriate animal.
- 4.2.3 This file will follow the NHP, once it arrives, to wherever it is held.
- 4.2.4 The originals of these documents will be kept with the Facility Manager

4.3 Quarantine Location

- 4.3.1 The quarantine facility shall be specified by an ACVS Veterinarian in consultation with the Facility Manager
- 4.3.2 The quarantine facility must be inspected by and written approval issued by a CFIA Veterinarian prior to each shipment of NHP to the facility.
- 4.3.3 The quarantined NHPs shall be housed in a holding room separate from the holding rooms for post-quarantine NHPs.
- 4.3.4 NHPs are to arrive at the Health Sciences loading dock (# 15) or the West Valley loading dock as indicated by the ACVS Veterinarian
- 4.3.5 The Facility Manager, Health Sciences Animal Facility/West Valley Building must be notified at least four weeks in advance of the anticipated shipping date.
- 4.3.6 The Facility Manager, Health Sciences Animal Facility/West Valley Building, and Lead Hand must be notified at least 48 hours in advance of any deliveries.
- 4.3.7 An ACVS Veterinarian and at least two animal care staff, who are approved by the Facility Manager of the Health Sciences Animal Facility/West Valley Building, must be present for arrival of the NHP.
- 4.3.8 The NHP crates are to be **completely** covered with clean drapes prior upon unloading from the truck and placed on flatbed transport dollies.
- 4.3.9 Transport the covered NHP and proceed to the designated quarantine room.

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- 4.3.10 At least two trained personnel shall be present for transfer of the NHP from the crate to the holding pen.
- 4.3.11 Transfer of NHPs from shipping crate to the holding pen must be done according to SOP 614, "Transfer of NHP from Shipping Crates to Holding Pens".
- 4.3.12 NHPs should be weighed inside their transport crate prior to transfer; the crate should be weighed after the NHP has been transferred and the weight of the NHP calculated and recorded.
- 4.4 **Quarantine Period**
 - 4.4.1 Incoming NHPs shall be quarantined for a minimum of 7 days or as required by the CFIA
 - 4.4.2 Release at the end of quarantine is only with written permission from an ACVS Veterinarian.
 - 4.4.2.1 Quarantine may be extended at the ACVS or CFIA Veterinarian's discretion.
- 4.5 **Quarantine Period Monitoring**
 - 4.5.1 During the quarantine period animal care staff are to monitor and document on the health chart notes, *at least once daily*, the animals' appetite, fluid intake, fecal output and character, urine output and character, attitude, and any behavioral peculiarities. Any suspicion of disease, injury, or other abnormality must be documented.
 - 4.5.2 The Veterinarian must review the health chart notes daily.
 - 4.5.3 All procedures performed on quarantine NHPs must occur in dedicated areas.
 - 4.5.4 An ACVS Veterinarian shall specify the procedure room.
 - 4.5.5 All materials and equipment used in association with quarantine NHPs must be dedicated solely to the quarantine unit or quarantine unit procedure room, and **MUST NOT** be shared with other rooms within The Health Sciences Animal Facility, or the Transplant Group (i.e. stethoscopes, thermometers, protective outer clothing, boots, etc.).
- 4.6 **Quarantine Period Testing**
 - 4.6.1 NHPs should be allowed to acclimatize for 72 hours before beginning any quarantine procedures involving handling of the animals.
 - 4.6.2 The initial physical exam and testing must begin as soon as possible after the 72 hours acclimatization period.
 - 4.6.3 Fecal sample collection should begin immediately upon arrival.
 - 4.6.4 Each day for 3 consecutive days a fresh sample from each individual is obtained and cultured.
 - 4.6.5 Each day for 3 consecutive days a fresh sample from each individual is collected into one shared fecal collection container of SAF fixative

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4.6.5.1 After the third day this common fixed sample will be examined using a sedimentation concentration procedure suitable for both metazoan eggs and protozoa.

4.6.6 As soon as possible after the 72 hr. acclimatization period a Health Exam(s) shall be performed as follows:

4.6.6.1 Performed under chemical restraint

4.6.6.2 A Veterinarian shall perform a complete physical exam including an examination of mucus membranes for herpiform lesions

4.6.6.3 Blood shall be drawn for B Virus antibody testing

4.6.6.3.1 B Virus testing shall be performed at the B Virus Resource lab at Georgia State University

4.6.6.3.2 Refer to the SOP, Procedure for Shipping of Samples for Testing of B Virus

4.6.6.4 TB skin test on an upper eyelid using 0.1 ml of Old World Tuberculin

4.6.6.5 The TB test site should be assessed at 24, 48, and 72 hours by a designate appointed by the Veterinarian.

4.6.6.5.1 A Veterinarian must assess all suspicious results.

4.6.6.6 Additional and alternate testing such as Gamma Interferon, PCR and radiographs will be ordered at the Veterinarian's discretion if results are suspicious or positive.

4.6.6.7 The skin and coat will be examined for ectoparasites.

4.6.6.7.1 The coat will be combed and the debris in the comb collected for analysis under a low power microscope for detection of parasites or their eggs.

4.7 **Quarantine Period Treatments**

4.7.1 Each individual shall receive treatments and other intervention as determined by the ACVS Veterinarian.

4.7.2 Prophylactic procedures such as dental cleaning, nail trims, and vaccines (if required as determined by an ACVS Veterinarian) may be performed during the health exams.

4.8 **Quarantine Release**

4.8.1 Incoming NHPs shall be quarantined for a minimum of 7 days.

4.8.2 Release at the end of quarantine days is only:

4.8.2.1 If all testing has been performed, the results received and the results satisfactory to the ACVS Veterinarian and if required, a CFIA Veterinarian

4.8.2.2 With written permission from an ACVS Veterinarian

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- 4.8.2.2.1 The ACVS Veterinarian has received authorization for release from the Regional CFIA Veterinarian, if required
- 4.8.2.2.2 An ACVS Veterinarian must advise the Regional CFIA Veterinarian of the health status of each NHP prior to release from quarantine, if required
- 4.8.3 Quarantine may be extended at the ACVS or CFIA Veterinarian's discretion.

5.0 HEALTH & SAFETY

- 5.1 5.1 Risks of working with NHPs, their body fluids, and tissues.
 - 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
- 5.2 Reducing the Risks Associated with NHP
 - 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
 - 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

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Revision	Reason(s) for Revision	Initiated by

7.0 REFERENCES / ASSOCIATED MATERIALS

7.1

8.0 ATTACHMENTS