

# Management of Occupational Monkey-related Injuries

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Procedure for the Division of Infectious Diseases – updated 5 Feb 2024

## Background:

Several research laboratories in the Montreal area work with non-human primates, and occupational injuries are a common occurrence. For many years, the *Centre for Tropical and Geographic Medicine* (commonly known as the Centre for Tropical Diseases – TDC) has provided consultation services for occupational monkey injuries to standardize management and facilitate communication with the occupational health offices of individual labs. During business hours monkey injuries are seen by the TDC physician on call. However, employees are occasionally directed to our ED if they cannot be assessed in clinic within 24 hours. **This Procedure document is meant to provide guidance to ID consultants who are asked to evaluate these cases.**

## Support from the TDC

The TDC provides a consultation service on call for questions from ID consultants, including for monkey injuries. In any case where the ID consultant is unsure about any aspect of patient management or related documentation, the TDC physician on call (**listed in Petal MD**) can be contacted for guidance.

## Decision Aid, scope, and limitations

- The Decision Tool in the Appendix can assist consultants in making the appropriate management decisions. The Decision Tool can also be found as a template in O-word, under the Tropical Medicine category, to aid in documenting the consultation process.
- Note that **this tool is designed for laboratory injuries**, where the animals can generally be identified, and routine measures for animal surveillance, testing, and necropsies are managed by the internal Occupational Health offices.
- This tool is not intended for animal injuries which happen in other circumstances (eg: travellers) nor in situations where there is no local occupational health officer able to oversee follow up of both the animal and employee. These latter situations require assessment and management as for any ID consultation.


## Baseline serology and forms

- **Please note that baseline Herpes B serology for employees who are clinically well is ALWAYS the responsibility of the local occupational health office, and should not be drawn or stored at our institution.**
- However, if an employee is symptomatic and clinically suspected of Herpes B disease in the differential diagnosis, the consultant should take all necessary measures required for the diagnosis and management of the patient as clinically indicated.
- As for any occupational accident, the appropriate CNESST form should be completed by the physician who has assumed the care of the patient.

## Follow up

- In general, any injury which is deemed serious enough to require follow-up evaluations should be sent to the next available TDC clinic.
- Please inform the TDC physician on call of the need for follow up, and interim clinical plans.
- In some cases, other services, such as plastic surgery, may need to be consulted as well.

## Appendix: Decision tool for anti-viral prophylaxis after monkey injury, with management elements

*NO-SCAN*	 Centre universitaire de santé McGill / McGill University Health Centre	DDN/DOB: (    ) NAM/RAMQ:                      Exp.: Admission-Visite/Visit: Site:                      Emplacement/Location:
	<b>CLINIQUE DES MALADIES TROPICALES</b> Outil de décision pour prophylaxie antivirale suivant une blessure par singe TROPICAL DISEASES CLINIC Decision tool for anti-viral prophylaxis post monkey injury	

<b>Morsure par un singe / Monkey bite</b>		<b>Source: macaque</b>		
<b>Employeur / Employer</b>				
<input type="checkbox"/> <b>Oui / Yes</b>	<input type="checkbox"/> <b>Non / No</b>	<b>Si non, ne pas procéder. Aucune prophylaxie indiquée</b> <i>If no, do not proceed. No prophylaxis indicated</i>		
<b>Premiers soins / First aid</b>			<b>Point(s)</b>	<b>Score</b>
<input type="checkbox"/>	<b>Adéquat</b> <i>Adequate</i>	<b>Peau: lavée avec du savon détergent X 15 min.</b> <i>Skin: washed with soap X 15 min.</i>	<b>0 pt</b>	
<input type="checkbox"/>	<b>Adéquat</b> <i>Adequate</i>	<b>Membranes muqueuses : rincées avec une solution saline eau X 15min.</b> <i>Membranes : flushed with saline / water X 15 min</i>	<b>0 pt</b>	
<input type="checkbox"/>	<b>Insuffisant</b> <i>Inadequate</i>		<b>2 pts</b>	
<b>Type d'exposition (choisissez une option seulement) / Type of exposure (choose one only)</b>			<b>Point(s)</b>	<b>Score</b>
<input type="checkbox"/>	<b>Toute exposition de la peau sans perte d'intégrité / Any exposure to skin with no loss of integrity</b>		<b>0 pt</b>	
<input type="checkbox"/>	<b>Égratignure avec perte d'intégrité de la peau / Scratch with loss of skin integrity</b>		<b>2 pts</b>	
<input type="checkbox"/>	<b>Morsure avec perte d'intégrité de la peau / Bite with loss of skin integrity</b>		<b>3 pts</b>	
<input type="checkbox"/>	<b>Éclaboussure des muqueuses (y compris les yeux) avec de la salive / tissu ou fluide physiologique du SNC / fluide provenant de lésions buccales ou génitales</b> <i>Mucosal splash (including eye) with saliva / CNS tissue or fluid / fluid from oral or genital lesions</i>		<b>4 pts</b>	
<input type="checkbox"/>	<b>Éclaboussure des muqueuses avec d'autres liquides corporels (ex : sang, urine, selles)</b> <i>Mucosal splash with other bodily fluids (e.g.: blood, urine, stool)</i>		<b>1 pt</b>	
<input type="checkbox"/>	<b>Piqûre d'aiguille ou autres ponctions associées à du tissu ou fluide physiologique du SNC, muqueuse de singe / paupière du singe, fluide provenant de lésions buccales ou génitales</b> <i>Needlestick or other puncture associated with CNS tissue / fluid, monkey mucosa / monkey eyelid, fluid from oral / genital lesions</i>		<b>4 pts</b>	
<input type="checkbox"/>	<b>Piqûre d'aiguille associée à d'autres fluides corporels</b> <i>Needlestick associated with other bodily fluids</i>		<b>1 pt</b>	
<input type="checkbox"/>	<b>Ponction / lacération avec un objet potentiellement contaminé par des fluides corporels (ex : cage)</b> <i>Puncture / laceration with object potentially contaminated with bodily fluid (e.g.: cage)</i>		<b>2 pts</b>	
<b>Profondeur d'exposition / Depth of exposure</b>			<b>Point(s)</b>	<b>Score</b>
<input type="checkbox"/>	<b>Égratignure superficielle / morsure / ponction / éclaboussure</b> <i>Superficial scratch / bite / puncture / splash</i>		<b>0 pt</b>	
<input type="checkbox"/>	<b>Profonde (ex : plus de 5 mm) égratignure / morsure / ponction / éclaboussure</b> <i>Deep (e.g.: More than 5 mm) scratch / bite / puncture / splash</i>		<b>1 pt</b>	
<b>Partie(s) du corps exposée(s) / Body part(s) exposed</b>			<b>Point(s)</b>	<b>Score</b>
<input type="checkbox"/>	<b>Membres/extrémités / Limbs / extremities</b>		<b>0 pt</b>	
<input type="checkbox"/>	<b>Tête / cou / torse / Head / neck / torso</b>		<b>2 pts</b>	
<b>Facteurs de risque de la source / Source risk factors</b>			<b>Point(s)</b>	<b>Score</b>
<input type="checkbox"/>	<b>Singe sain / Healthy monkey</b>		<b>0 pt</b>	
<input type="checkbox"/>	<b>Nouveau singe dans la colonie / malade / en reproduction / immunocompromis / lésions compatibles avec la maladie du virus B</b> <i>Monkey new to colony / ill / breeding / immunocompromized / lesions compatible with B-virus disease</i>		<b>2 pts</b>	
<input type="checkbox"/>	<b>Singe connu pour être positif au virus B / Monkey known to be B - virus positive</b>		<b>3 pts</b>	
<b>Total</b>				

Si une version papier de ce document est reçue aux archives, avec ou sans notes manuscrites, en statut préliminaire ou final, il ne sera pas numérisé. Les corrections doivent être faites dans le document préliminaire ou via l'addendum si le document est final.

If a printout of this document is received in Medical Records, with or without handwritten notes, whether it is preliminary or final, it will not be scanned. Corrections must be done in the preliminary document or via an addendum if the document is final.

## Appendix: Decision tool for anti-viral prophylaxis after monkey injury, with management elements

Patient : , [ ] -

Résultat / Score	
0-1 points	<b>Exposition à faible risque ; prophylaxie pas systématiquement recommandée</b> <i>Low-risk exposure; prophylaxis not routinely recommended</i>
2-3 points	<b>Exposition à risque modéré ; envisager la prophylaxie</b> / <i>Moderate-risk exposure; consider prophylaxis</i>
4-7 points	<b>Exposition à haut risque ; prophylaxie recommandée</b> / <i>High-risk exposure; prophylaxis recommended</i>
Plus de 7 points <i>More than 7 points</i>	<b>Exposition à risque très élevé ; prophylaxie recommandée et envisager un traitement avec Acyclovir IV</b> <i>Very high-risk exposure; prophylaxis recommended and consider treatment with IV Acyclovir</i>

<p><b>Traitement prophylactique suggéré :</b> <b>Valacyclovir 1 g po tid x 14 jours</b></p> <p><b>(Pour les femmes enceintes, le traitement recommandé est acyclovir 800 mg po 5 x par jour x 14 jours)</b></p>	<p><i>Suggested prophylactic regimen: Valacyclovir 1 g po tid x 14 days</i></p> <p><i>(For pregnant women, preferred regimen is acyclovir 800 mg po 5x per day x 14days)</i></p>
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Brève description de l'accident / Brief description of accident

Sérologie de base / Baseline serology
<p><b>Aucune sérologie de base pour Herpes B n'est requise pour la prise en charge au CUSM - NE DEVRAIT PAS ETRE DEMANDÉE</b> <i>No baseline serology for Herpes B virus is required for monkey injuries at MUHC - SHOULD NOT BE REQUESTED</i></p>

Statut - vaccin contre le tétanos / Tetanus vaccine status	
<input type="checkbox"/>	<b>L'employé(e) est à jour avec la vaccination contre le tétanos</b> / <i>Employee is up to date for tetanus vaccination</i>
<input type="checkbox"/>	<b>Vaccin DTaP donné à cette visite à la Clinique</b> / <i>DTaP vaccine given on this clinic visit</i>

Gestion de la plaie / Wound management		
<input type="checkbox"/>	<b>Ne nécessite pas la prise d'antibiotique ou d'antiviral</b> / <i>No antibiotic nor antiviral indicated</i>	
<input type="checkbox"/>	<b>Antibiotique prescrit, spécifier</b> / <i>Antibiotics prescribed, specify</i>	
<input type="checkbox"/>	<b>Antiviral prescrit, spécifier</b> / <i>Antiviral prescribed, specify</i>	<input type="checkbox"/> <b>Valacyclovir PO</b> <input type="checkbox"/> <b>Acyclovir IV</b> <b>Autre</b>

<input type="checkbox"/>	<b>Pas de prise en charge chirurgicale requise</b> / <i>No surgical management required</i>	
<input type="checkbox"/>	<b>Prise en charge chirurgicale requise</b> <i>Surgical management required</i>	<b>Spécifier / Specify</b>

**Préparé par**  
*Prepared by*

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Nom / Name	N°permis <i>License No.</i>	Date AAYY-MM-JD
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**Signé électroniquement par** / *Electronically signed by*

Poste / Extension	N°permis <i>License No.</i>	Date-Heure / Time
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LÉGENDE DES ABRÉVIATIONS / ABBREVIATIONS LEGEND		
DTaP	Diphtheria, Tetanus, Pertussis and Polio. The abbreviation "aP" stands for "acellular pertussis"	SNC / CNS    Système nerveux central / Central nervous system