Health Santé Canada Canada

## Medical Access to Quinine for Malaria Treatment Streamlined in Canada through the Canadian Malaria Network



Malaria continues to be a major cause of death worldwide and is the principal lifethreatening infection facing Canadian travellers in malaria-endemic areas. Severe *Plasmodium falciparum* malaria infections may have a mortality rate of 20% or higher. Patients require immediate hospitalization and urgent, intensive medical management, including parenteral malaria therapy.

Parenteral quinine, the preferred medication for the treatment of severe and cerebral malaria due to *P. falciparum*, has not been readily available in this country, except through Health Canada's Special Access Program. Although quinidine is equally efficacious in treating malaria, it has a risk of life-threatening cardiotoxicity and an associated requirement for cardiac monitoring.

Because of the potential for adverse outcomes due to delays in acquiring parenteral malaria therapy, the **Canadian Malaria Network** (CMN) has been established in 12 medical centres across Canada to facilitate the storage and rapid distribution of parenteral

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quinine for the treatment of severe *P. falciparum* infections. CMN Centres can provide, on request, guidance in the management of malaria infections. In addition, each Centre provides surveillance data to Health Canada on all malaria cases treated with parenteral quinine.

Upon request for parenteral quinine from any of the designated CMN Centres [see below for list], the attending physician will receive via courier delivery within 24 hoursa-day, 7 days-a-week:

- parenteral quinine supply, and
- relevant paperwork: information on treatment and chemotherapy for severe *falciparum* malaria, and surveillance data collection forms (Forms A & B).

The attending physician will be asked to provide surveillance information at time of diagnosis (Form A) and at day 28 (Form B) to the CMN National Coordinators.

*Note:* Fever occurring in a traveller within three months of returning from a malaria-endemic area is a medical emergency and should be investigated urgently with thick and thin blood films for malaria.

## **Contact Information**

The following hospital Centers across Canada have been identified as participants in the Canadian Malaria Network. Each Center will have depositories of parenteral quinine for the treatment of severe malaria and can provide guidance in the management of malaria infections.

To obtain parenteral quinine, please contact the listed pharmacy in your area. The designated physician for each Center can be used as a resource for any questions you may have with regard to the treatment of malaria.

For after-hours assistance please contact the infectious disease consultant on call at the respective center.

CMN National Coordinators		
Name: Address: Phone #:	Dr. Anne E. McCarthy Director of Tropical Medicine and International Health Clinic Division of Infectious Diseases Ottawa Hospital (General Campus) 501 Smyth Road, Ottawa, ON K1H 8L6 (613) 737-8184	Dawna Garber, RN Research Nurse Coordinator The Ottawa Hospital – General Campus Rm # 7426, 501 Smyth Road Ottawa, ON K1H 8L6 (613) 737-8899 (ext. 8886)
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CMN Centres, by province		
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Name: Address:	Dr. William Bowie GF Stong Research Laboratory Vancouver General Hospital 452D-2733 Heather Street Vancouver, BC V5Z 3J5	Dr. Tim Lau, Pharmacist CSU Pharmaceutical Services Vancouver Hospital and Health Sciences Centre, 855 W 12 <sup>th</sup> Ave. Vancouver, BC V5Z 1M9
Phone #:	(604) 875-4147 or (604) 875-4111 (ID Physician on-call)	(604) 875-4111, local 63361
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Name: Address:	Dr. Susan M. Kuhn Director, Odyssey Travel and Tropical Medicine Clinic, Suite 208-2004-14 <sup>th</sup> St. NW Calgary, AB T2M 3N3	Dr. Dominique Van Schijndel, Pharm. Alberta Children's Hospital Pharm 1820 Richmond Road, SW Calgary, AB T2T 5C7
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Saskatche	-	
Name: Address:	Dr. Karen McClean Division of Infectious Diseases Royal University Hospital 103 Hospital Drive Saskatoon, SK S7N 0W8	Janet Harding, Pharmacist Royal University Hospital Pharm. 103 Hospital Drive Saskatoon, SK S7N 0W8
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Manitoba		
Name: Address:	Dr. Pierre Plourde Winnipeg Regional Health Authority 1800-155 Carlton Street Winnipeg, MB R3C 4Y1	Anita Richard, Pharmacist St-Boniface Gen. Hosp. Pharmacy 409 Avenue Taché Winnipeg, MB R2H 2A6
Phone #:	(204) 926-7079 or (204) 237-2053 (ID Physician on-call)	(204) 237 2161
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## Ontario Name: Dr. Kevin C. Kain Tamara Rumsey, Sr. Pharmacy Technician Address: The Toronto General Hospital The Toronto General Hospital, University 200 Elizabeth St. ENG-224 Health Network, 200 Elizabeth St. Toronto, ON M5G 2C4 ENG-260-D Toronto, ON M5G 2C4 Phone # (416) 340-3535 (416) 340-4800 ext. 3499 (416) 595-5826 Fax #: (416) 340-3685 E-Mail: Kevin.Kain@uhn.on.ca tamara.rumsev@uhn.on.ca Name: Dr. Anne E. McCarthy Kim Lamont, R.Ph. Tech. Division of Infectious Diseases Ottawa Hospital - General Campus Pharmacy Address The Ottawa Hospital-General Campus Department, 501 Smyth Road 501 Smyth Road, Ottawa, ON K1H 8L6 Ottawa, ON K1H 8L6 Phone #: (613)737-8184 (613) 737-8899 ext. 72585 Fax #: (613) 737-8682 (613) 737-8891 E-mail: amccarthy@ottawahospital.on.ca klamont@ottawahospital.on.ca Name: Dr. Shariq Haider Gita Sobhi, Pharmacist Address: Microbiology and Infectious Diseases McMaster University Pharmacy McMaster University Medical Centre 1200 Main Street West Hamilton, ON L8S 4J9 Room 3V51B. 1200 Main Street West Hamilton, ON L6M 378 Phone #: (905) 521-2100 ext. 73991 (905) 521-2100 ext. 73447 (905) 521-4967 Fax #: E-Mail: haider@univmail.cis.mcmaster.ca sobhi@hhsc.ca Quebec Name: Dr. Louise Côté Luc Bergeron, Pharmacist Address: Microbiology & Infectious Diseases Dept of Pharmacy Centre hospitalier, Universitaire du Québec Centre hospitalier, Universitaire du Québec Pavillon CHUL, 2705, boul. Laurier, PL S-413 Pavillon CHUL, 2705, boul. Laurier, PL S-210 Sainte-Foy, QC G1V 4G2 Sainte-Foy, QC G1V 4G2 Phone #: (418) 656-4141 poste: 7882 (418) 654-2139 (418) 654-2147 (418) 654-2154 Fax #: E-Mail: micro.pchul@chug.ulaval.ca luc.bergeron@chug.gc.ca Name: Dr. Brian Ward Denise Kalyvas, Pharmacist Address The Montreal General Hospital The Montreal General Hospital-Pharmacy 1650 Cedar Avenue. Room D7-153 1650 Cedar Avenue, Room C1-200 Montreal, QC H3G 1A4 Montreal, QC H3G 1A4 Phone #: (514) 921-6953 or (514) 934-8075 (514) 937-6011 ext. 4933 (hospital locating) Fax #: (514) 934-8347 E-Mail: cybj@musica.mcgill.ca Denise.kalyvas@muhc.mcgill.ca Nova Scotia Kathryn Slayter, PharmD Name: Dr. David Haldane Address: Microbiology Laboratory Pharmacy Department Mackenzie Building, VG Site, QE II HSC VG Site, QE II HSC, 1278 Tower Road 5788 University Avenue Attn: Patti Gallant, Rm #2042 Halifax, NS B1H 1V8 Halifax, NSB 3H2Y9 Phone # (902) 473-6624 (902) 473-6829 Fax #: (902) 473-4432 (902) 473-1606 F-Mail David.Haldane@cdha.nshealth.ca Kathryn.Slayter@cdha.nshealth.ca Newfoundland and Labrador Name: Dr. Chau Nguyen Frank Pinsent, Pharmacist Address: Division of Infectious Diseases Department of Pharmacy General Hospital, The Health Care Health Science Centre 300 Prince Philip Drive Corporation, 300 Prince Philip Drive St. John's, NF A1B 3V6 St. John's, NF A1B 3V6 Phone # (709) 777-8437 (709) 777-6455 Fax #: (709) 777-7655 (709) 777-8120 E-Mail: eskinner@mun.ca hcc.pinf@hccsj.nf.ca