Eastern Equine Encephalitis and West Nile Virus Management Plan for Homeless Populations Bureau of Homeless and Housing Services May, 2008

Homeless populations may be at higher risk for Eastern Equine Encephalitis (EEE)/West Nile Virus (WNV) and other mosquito-borne diseases due to their increased exposure to the outdoors and their limited access to preventive measures. Healthcare providers, outreach workers and state-funded shelters should vigorously promote prevention methods including the use of insect repellents, especially for homeless persons over the age of 50. Repellent use for homeless populations requires several special considerations:

Cost

Access to insect repellents among persons with limited financial resources may be problematic. The Department of Health and Human Services (DHHS) and some local health departments may be able to assist with repellent supplies or may have recommendations for lower cost products. Local businesses that sell repellents may also be able to assist shelters.

Correct Use of Repellent

The ability to follow directions and use the product safely is a concern if the product is made available for personal use. A repellent containing 30% or less of DEET (N, N-diethyl-metatoluamide) is a very safe product when used as directed. While DEET can be reapplied when a person is still outdoors, most products recommend bathing when returning indoors. Alternate repellents containing Picaridin, Oil of Lemon Eucalyptus, or IR3535 can also be used.

Use of Repellent on Clothing

Repellents with DEET or permethrin can be used on clothing and tents, which may be particularly useful for homeless populations. Protection from one permethrin application can last as long as six weeks, even through several launderings. Permethrin should not, however, be used directly on the skin.

DHHS Strategy

Mitigation

Prior to the start of each mosquito season, the Bureau of Homeless and Housing Services (BHHS) will survey all state-funded shelters (see Appendix 1) and outreach agencies (see Appendix 2) to assess the need for repellent.

The BHHS will, within budget limitations, assist in providing DEET and permethrin repellent where determined appropriate to state-funded shelters and outreach agencies (see Appendix 3).

The BHHS, Division of Public Health and the New Hampshire Coalition to End Homelessness (NHCEH) will coordinate the dissemination of products, pamphlets and posters to all Continuums of Care, state-funded shelters, advocates and consumers at the June New Hampshire Coalition to End Homelessness meeting.

The BHHS, Division of Public Health and the NHCEH will work together to provide direct training to homeless persons, outreach workers and state-funded shelters to ensure to the maximum extent practical, the correct method of DEET application and product safety (see Appendix 4). Training will include symptom observation, prevention methods, trash and standing water removal and the need to seek medical care for those afflicted.

The BHHS will maintain and periodically update contact lists of outreach workers and statefunded shelters.

DHHS will work with municipal officials and local law enforcement agencies on discouraging the placement of unsheltered homeless into high-risk areas such as close proximity to rivers and high breading areas.

The Division of Public Health will provide weekly arbovirus surveillance updates to the BHHS.

Response

The BHHS will work with the Commissioner's Office and Public Health to:

- 1. notify outreach workers and state-funded shelters of an EEE/WNV incident in the affected area;
- 2. direct outreach workers to ensure to the maximum extent practical, that unsheltered homeless persons in the affected area are informed of the incident, have sufficient repellent, and are encouraged and assisted with finding available shelter if requested;
- 3. to assist in the relocation of unsheltered homeless from an affected area if determined by the Commissioner;
- 4. direct outreach workers to notify and help relocate unsheltered homeless from areas that are to be sprayed as determined by the municipality; and
- 5. facilitate constant communication with all interested parties as to current conditions and recommendations.

Assessment

At the end of the mosquito season, the BHHS will facilitate an assessment from all interested parties as to the effectiveness of the plan and to discuss areas for improvement.

State-Funded Shelters

Linda Harvey

Laconia Area Community Land Trust

658 Union Avenue

Laconia, NH 03246-2549

(603) 524-0747 lharvey@laclt.org

Captain Leslie Flanders

The Salvation Army

Carey House

177 Union Avenue

Laconia, NH 03246

(603) 524-1834

leslie_flanders@use.salvationarmy.org

Christine Brehm

Community Improvement Associates

463 Washington Street

Keene, NH 03431 (603) 313-0793

christine@cianh.com

William Marcello

Southwestern Community Services

PO Box 603

Keene, NH 03431

(603) 352-7512

bmarcello@scshelps.org

Jill Gorman

Tri-County CAP

Tyler Blain House

56 Prospect Street

Lancaster, NH 03584

(603) 788-2344

jgorman@tccap.org

Michael Cryans

Headrest

14 Church Street

Lebanon, NH 03766-1642

(603) 448-4872

mike.cryans@headrest.org

Maryse Wirbal

Nashua Pastoral Care Center

7 Concord Street

Nashua, NH 03064

(603) 886-2866

www.nashuanpcc.org

Kim Giles

Bridge House

260 Highland Street

Plymouth, NH 03264-3602

(603) 536-7631

kimpemibridgehouse@verizon.net

Michael Ostrowski

Child and Family Services of NH

PO Box 448

Manchester, NH 03105

(603) 668-1920

ostrowskim@cfsnh.org

Maureen Beauregard

Families in Transition

122 Market Street

Manchester, NH 03101

(603) 641-9441

mbeau@fitnh.org

Joanne Bresnahan

Greater Nashua Council on Alcoholism

Keystone Hall

Pine Street Extension

Nashua, NH 03060

(603) 881-4848

j.bresnahan@keystonehall.org

Peter Kelleher

Harbor Homes

45 High Street

Nashua, NH 03060

(603) 882-3616

p.kelleher@harborhomes.org

Craig Everett

Helping Hands Outreach Ministries

PO Box 3551

Manchester, NH 03105-3551

(603) 623-8778 craig@hh-oc.org

Lisa Christie

Nashua Soup Kitchen and Shelter

PO Box 3116

Nashua, NH 03061-3116

(603) 889-7770

lisansks@verizon.net

Fred Robinson

New Horizons for New Hampshire

199 Manchester Street Manchester, NH 03103

(603) 668-1877

fred.robinson@newhorizonsfornh.org

Mary Sliney

The Way Home

214 Spruce Street

Manchester NH 03103

(603) 627-3491

mary@thewayhomenh.org

Robert O'Connell

My Friends Place

368 Washington Street

Dover, NH 03820

(603) 749-3017

mfp368@aol.com

Jerome Madden

The Friends Emergency Housing Program

30 Thompson Street

Concord, NH 03301

(603) 228-1462

jmadden@friendsprogram.org

Lorrie Dale

The Salvation Army

McKenna House

100 South Fruit Street

Concord, NH 03301

(603) 225-5587

lorrie_dale@use.salvationarmy.org

Grace Mattern

NH Coalition Against Domestic and

Sexual Violence

PO Box 353

Concord, NH 03302-0353

(603) 224-8893

grace@nhcadsv.org

Chris Sterndale

Cross Roads House

600 Lafayette Road

Portsmouth, NH 03801

(603) 436-2218

chris@crossroadshouse.org

Toni Trotzer

New Generation

PO Box 676

Greenland, NH 03840

(603) 436-4989

office@newgeninc.org

HOMELESS OUTREACH INTERVENTION PROGRAM

Provider Information	IELESS OUTREACH INTERVENTION PRO Outreach Worker Contact Information	
Provider Information	Outreach worker Contact Information	Supervisor Contact Information
Community Action	Roger Beauchamp	Joia Hughes
Program	County Served: Merrimack	Housing Rehabilitation and Grant
Belknap-Merrimack	Phone: 225-1107	Specialist
Counties, Inc.	Fax: 225-9242	Phone: 225-1107
PO Box 1016	Hours: Tue, Wed, Thursday 8:30 am - 4:30 pm	Email: JHughes@bm-cap.org
	1	
Concord, NH 03301-1016	(Merrimack)	Fax: 225-9242
	Monday & Friday 8:00 am - 4:30 pm (Belknap)	
	After hours: Homeless Hotline	
	Contact supervisor with grievance.	
Community Action	Mike Bernier	Joia Hughes
Program	County Served: Belknap	Housing Rehabilitation and Grant
Belknap-Merrimack	Phone: 524-0381	Specialist
Counties, Inc.	Fax: 524-0355	Phone: 225-1107
121 Belmont Road	Hours: Tues, Wed, Thursday 8:30 am - 4:30 pm	Email: JHughes@bm-cap.org
Laconia, NH 03246	(Belknap)	Fax: 225-9242
	Monday & Friday 8:30 am - 4:30 pm (Merrimack)	
	After hours: Homeless Hotline	
	Contact supervisor with grievance.	
	Contact supervisor with grievance.	
Rockingham Community	Justine Shea	Lisa Couture
Action	County Served: Rockingham	Outreach Program Director
7 Junkins Avenue	Phone: 431-2911 (Tuesday, Thursday & Friday)	Phone: 430-4934
Portsmouth, NH 03801	893-9172 (Monday & Wednesday)	Email: lcouture@rcaction.org
Tortsmouth, 1111 03001	Fax: 431-2916	Fax: 431-2916
	Hours: Mon-Fri 9:00 am - 4:30 pm	1'ax. 431-2910
	After hours: Homeless Hotline	
G A NITTO . T	Contact supervisor with grievance.	(F) (F) (F)
Southern NH Services, Inc	Patrick L. Carney	Tony Epaphras
PO Box 5040	County Served: City of Manchester	Phone: 668-8010, ext. 6120
Manchester, NH 03108	Phone: 668-8010, ext. 6121	Email: Tepaphras@snh.org
	Fax: 645-6734	Fax: 645-6734
	Hours: Mon-Fri 9:00 am - 6:00 pm	
	After hours: Homeless Hotline	
	Contact supervisor or Greg Schneider with grievance.	
Southern NH Services, Inc	Kathy Paquette	Tony Epaphras
123 W. Pearl Street	County Served: Hillsborough-South	Phone: 668-8010, ext. 6120
Nashua, NH 03060	Phone: 889-7477	Email: Tepaphras@snh.org
ivasiida, ivii 05000	Hours: 10:00 am – 6:00 pm	Fax: 645-6734
	After hours: Homeless Hotline	rax. 043-0734
	Contact supervisor or Greg Schneider with grievance.	
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Southwestern Community	Mary Hall	Laurie Jewett
Services	County Served: Sullivan	Homeless Services Director
PO Box 1338	Phone: 542-4539	Phone: 719-4290
96-102 Main Street	Fax: 542-4539	Email: ljewett@scshelps.org
Claremont, NH 03743	Hours: Mon-Fri 8:30 am - 4:30 pm	Fax: 352-3618
	After hours: Resident Manager at Shelter (542-6849)	
	Contact supervisor with grievance.	
Southwestern Community	Karen Bednarski	Laurie Jewett
Services	Area Served: Peterborough, Hancock, Bennington,	Homeless Services Director
PO Box 603	Antrim, Francestown, Greenfield, Greenville,	Phone: 719-4290
69Z Island Street	Hillsborough, New Ipswich, Mason, Temple, Sharon	Email: ljewett@scshelps.org
Keene, NH 03431	and Cheshire county.	Fax: 352-3618
,	Phone: 719-4243	
	Fax: 352-3618	
	Hours: Mon-Fri 8:30 am - 4:30 pm	
	After hours: Resident Manager at Shelter (357-1654)	
	Contact supervisor with grievance.	

Provider Information	Outreach Worker Contact Information	Supervisor Contact Information		
Strafford County CAC 270 County Farm Road PO Box 160 Dover, NH 03820-0160	Teresa Lombardi County Served: Strafford Phone: 516-8153 Fax: 749-3718 Hours: Mon-Fri: 9:00 am – 5:00 pm After hours: Homeless Hotline Contact supervisor with grievance.	Richard Hayes Director Phone: 749-1334 Email: Rhayes@straffcap.org Fax: 749-3718		
Tri County CAP 73 Main Street Lancaster, NH 03584	Jenn Doolan County Served: Coos Phone: 788-2683 Fax: 788-4407 Hours: Mon-Fri 8:00 am - 4:00 pm After hours: Homeless Hotline Contact supervisor with grievance.	Joie Finley-Morris Homeless Programs Coordinator Phone: 443-6150 Fax: 443-6151 Hours: Mon-Fri 8:00-4:00		
Tri County CAP PO Box 12 57 Mechanic St. Suite 5 Lebanon, NH 03766	Joie Finley-Morris & Alan Emery County Served: Southern Grafton Phone: 443-6150 Fax: 443-6151 Hours: Mon-Fri 8:00 am - 4:00 pm After hours: Homeless Hotline Contact supervisor with grievance	Kathy McCosh EHCCO Manager Phone: 752-7105 Email: kmccosh@tccap.org Fax: 752-8041 Hours: Mon-Fri 7:00-3:00		
Tri County CAP 448 White Mtn. Hwy Tamworth, NH 03886	Nancy Armstrong County Served: Carroll Phone: 1-888-842-3835 or 323-7400 Fax: 323-7411 Hours: Mon-Fri 8:00 am – 4:00 pm After hours: Homeless Hotline Call supervisor with grievance.	Joie Finley-Morris Homeless Programs Coordinator Phone: 443-6150 Fax: 443-6151 Hours: Mon-Fri 8:00-4:00		
Tri County CAP 111 Easton Valley Road Franconia, NH 03580 224 Main St. Littleton, NH 03561	Woody Miller County Served: Northern Grafton Phone: 444-0184 E-mail: tamaracktennis@earthlink.net Home/Fax: 823-5656 (call prior to sending fax) Hours: Mon-Fri 8:00 am - 4:00 pm After hours: Homeless Hotline Call supervisor with grievance.	Joie Finley-Morris Homeless Programs Coordinator Phone: 443-6150 Hours: Mon-Fri 8:00-4:00		

Bureau of Homeless and Housing Services West Nile Virus EEE Prevention Program 2008

Agency	child	single	cases
Bridge House	10		1
Child and Family Services of NH			2
Community Improvement Associates			1
Cross Roads House			3
Families In Transition			
Harbor Homes including Keystone Hall			1
Headrest			1
Helping Hands			
Laconia Area Comm. Land Trust	4	4	
My Friends Place			2
Nashua Pastoral Care	10		2
Nashua Soup Kitchen and Shelter			2
New Generation		2	
New Hampshire Coalition Against Domestic and Sexual Violence	14		7
New Horizons for NH			1
Salvation Army Concord			1
Salvation Army Laconia		2	4
Southwestern-Claremont			4
Southwestern-Keene			4
The Friends Emer. Housing Program		4	
The Way Home			4
Tri-County CAP – Tyler Blain House			1
PATH PROGRAM			3
HOIP PROGRAM	24		3
Total Bottles for Children in 2008			
Total Single Boxes for Adults		12	
Total Cases for Adults			39

How Often You Should Re-apply Repellents

Follow the directions on the product you are using. Sweating or getting wet may mean that you need to re-apply more frequently.

Q. How does the percentage of active ingredient in a product relate to the amount of protection it gives?

A. Typically, the more active ingredient a product contains the longer it provides protection from mosquito bites. The concentration of different active ingredients cannot be directly compared (that is, 10% concentration of one product does not mean it works exactly the same as 10% concentration of another product).

DEET is an effective active ingredient found in many repellent products and in a variety of formulations.

- A product containing 23.8% DEET provided an average of 5 hours of protection from mosquito bites.
- A product containing 20% DEET provided almost 4 hours of protection.
- A product with 6.65% DEET provided almost 2 hours of protection.
- Products with 4.75% DEET were able to provide roughly 1 1/2 hour of protection.

Products containing Picaridin, Oil of Lemon Eucalyptus, and IR3535 provide the same level of protection as products with lower concentrations of DEET.

These examples represent results from only one study and are only included to provide a general idea of how such products may work. Actual protection will vary widely based on conditions such as temperature, perspiration, and water exposure.

Hint: Applying permethrin to your clothing ahead of time will give you even greater protection.

Remember - if you are getting bitten, do something about it!

Choose a repellent that you will use consistently. Also, choose a product that will provide sufficient protection for the amount of time that you will be spending outdoors. Product labels often indicate the length of time that you can expect protection from a product. If you are concerned about using insect repellents, consult your health care provider for advice.

- Q. Can insect repellents be used by pregnant or nursing women?
- A. Other than the routine precautions noted earlier, EPA does not recommend any additional precautions for using registered repellents on pregnant or lactating women.
- Q. What are some reactions to be aware of when using insect repellents containing DEET?

 A. Products containing DEET are considered to be safe when used according to the manufacturer's directions. In some instances, the use of repellents that contain DEET may cause skin reactions. Eye irritation can occur if the product gets in the eye. If you suspect a reaction to a product, discontinue use, wash all affected areas, and contact a medical provider. If the product gets in the eyes, flush with water and consult a health care provider. If you go to a doctor, take the product with you. Products should not be ingested.

General Consideration for Using Repellents Safely on Children

No more than 30% DEET should be used on adults and children.

The American Academy of Pediatrics (AAP) recommends that repellents with DEET should not be used on infants less than two months old.

The label for products containing Oil of Lemon Eucalyptus specifies that they should not be used on children under the age of three years.

When using repellent on a child, apply it to your own hands and then rub them on your child. Avoid children's eyes and mouth and use it sparingly around their ears.

Never use repellents over cuts, wounds, or irritated skin.

Do not apply repellent to children's hands. (Children may tend to put their hands in their mouths.)

Keep repellents out of reach of children.

Do not apply repellent under clothing.