

UNITED STATES DEPARTMENT OF INTERIOR NATIONAL PARK SERVICE GLACIER NATIONAL PARK	WORK PROJECT/ACTIVITY Hantavirus Abatement	LOCATION Varies	UNIT Facility Management
JOB HAZARD ANALYSIS (JHA) (Instructions on Reverse)	NAME OF ANALYST	JOB TITLE	DATE

TASKS/PROCEDURES	HAZARDS	ABATEMENT ACTIONS ENGINEERING CONTROLS * SUBSTITUTION * ADMINISTRATIVE CONTROLS * PERSONAL PROTECTION EQUIPMENT (PPE)
WORKING IN SUSPECTED HANTAVIRUS ENVIRONMENTS	GENERAL	<p>KNOW HANTIVIRUS SYMPTOMS; FLU- LIKE SYMPTOMS, FEVER, NAUSEA, HEADACHE, MUSCLE ACHES, COUGH PROGRESSING TO ACUTE RESPIRATORY TROUBLE. CONTACT MEDICAL HELP IMMEDIATELY AND REMEMBER IT PROGRESSES RAPIDLY AND EARLY TREATMENT IS CRUCIAL.</p> <p>ASSUME RODENT NEST AND ASSOCIATED DEBRIS ARE VIRUS CONTAMINATED.</p> <p>REMOVE FOOD AND WATER SOURCES FROM THE VICINITY OF BUILDINGS.</p> <p>KEEP FOOD COVERED OR IN REFRIGERATOR.</p> <p>KEEP BULK GRAINS AND ANIMAL FEED IN SECURE CONTAINERS OUTSIDE OF HOUSES.</p> <p>WHENEVER POSSIBLE DON'T SLEEP ON THE FLOORS OR ON THE GROUND.</p> <p>KEEP GRASS MOWED AND VEGETATION TRIMMED WITHIN 100 FT. OF BUILDINGS.</p> <p>SEAL, COVER, OR SCREEN ALL OPENINGS ¼ INCH WIDE OR LARGER TO KEEP MICE OUT OF BUILDINGS. PAY EXTRA ATTENTION WHERE PIPES ENTER BUILDINGS.</p> <p>EXPOSURE TO SUNLIGHT KILLS THE VIRUS IN A SHORT TIME.</p> <p>CRAWL SPACES BENEATH BUILDINGS SHOULD BE TREATED AS CONTAMINATED AREAS. FOLLOW PROCEDURES FOR WORKING IN OR CLEANING SUCH AREAS BELOW.</p>

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	RODENT EXTERMINATION PROCEDURES.	<p>TRAP RODENTS WITH SPRING LOADED TRAPS .DO NOT TRAP RODENTS ALIVE.DO NOT USE POISONS.</p> <p>TO REUSE A TRAP, SPRAY IT WITH BLEACH OR LYSOL BEFORE HANDLING.</p> <p>BEFORE MOVING TRAPPED RODENTS, SPRAY WITH AN INSECTICIDE, LIKE SEVIN OR PYRETHRIN TO KILL THE FLEAS THAT CARRY OTHER DISEASES. IF FEEASIBLE, WAIT 24 HOURS. THEN SPRAY CARCASS WITH BLEACH/WATER MIST OR LYSOL SOLUTION TO KILL THE VIRUS. WEAR GLOVES WHEN REMOVING THE CARCASS.</p> <p>WEAR RUBBER GLOVES TO SET SPRING LOADED TRAPS NEAR RODENT PATHS AND NESTING SITES.</p> <p>IN RURAL AREAS, DISPOSE OF DEAD RODENTS, TRAPS; AND RODENTS' BEDDING, NESTS, AND OTHER DEBRIS BY BURNING OR BY BURYING IN A 2-FOOT DEEP HOLE.IN URBAN</p>
	WORKING IN AREAS THAT ARE CONTAMINATED	<p>BEFORE ENTERING INTO CLOSED AREAS, OPEN ANY DOORS AND WINDOWS THAT CAN BE OPENED FROM THE OUTSIDE TO VENTILATE FOR AT LEAST 30 MINUTES. USE FANS, WHEN AVAILABLE, BEING CAREFUL TO NOT BE IN THE 'DOWNWIND' DIRECTION OF THE RESULTING AIR FLOW.</p> <p>WEAR A PROPERLY FITTED HALF FACE HEPA RESPIRATOR 'OR EQUIVALENT', COVERALLS</p> <p>'DISPOSABLE IF POSSIBLE', RUBBER BOOTS OR DISPOSABLE SHOE COVERS, RUBBER OR PLASTIC GLOVES, AND GOGGLES WHEN ENTERING CONTAMINATED AREAS. RESPIRATOR USE IS TO BE IN ACCORDANCE WITH AN APPROVED RESPIRATOR PROGRAM PREPARED IN COMPLIANCE WITH OSHA REGULATIONS.</p> <p>LIBERALLY SPRAY OR POUR CLEANING SOLUTIONS BEFORE SWEEPING OR MOPPING. BLEACH 'DILUTED AS ONE PART BLEACH TO 10 PARTS WATER', ALCOHOL OR LYSOL OR OTHER DIPHENOLS' DILUTED AS RECOMMENDED ON THE BOTTLE, SHOULD BE USED.</p> <p>BEFORE MOVING NEST AND ASSOCIATED DEBRIS, SPRAY WITH AN INSECTICIDE LIKE</p>

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		<p>'SEVIN OR PYRETHRIN' TO KILL FLEAS THAT CARRY OTHER DISEASES. IF FEASIBLE, WAIT 24 HOURS. THEN SPRAY WITH BLEACH/WATER MIST OR LYSOL SOLUTION TO KILL THE VIRUS.</p> <p>RUGS AND UPOLSTERED FURNITURE CONTAMINATED BY RODENTS SHOULD BE STEAM CLEANED OR SHAMPOOED. IF RODENTS NEST INSIDE FURNITURE IT CAN NOT BE DECONTAMINATED, REMOVE THE FURNITURE AND BURN IT.</p> <p>CONTAMINATED BEDDING SHOULD BE LAUNDERED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR CONTAMINATED CLOTHING BELOW.</p>
	PERSONAL HYGIENE	<p>CONTAMINATED BEDDING SHOULD BE LAUNDERED IN ACCORDANCE WITH THE RECOMMENDATIONS FOR CONTAMINATED CLOTHING BELOW.</p> <p>TREAT PERSONAL PROTECTIVE EQUIPMENT AS CONTAMINATED MATERIAL. WEAR GLOVES WHILE REMOVING OTHER PPE, TAKING GLOVES OF LAST.</p> <p>AFTER REMOVING OTHER PPE, WASH GLOVED HANDS IN A GENERAL HOUSEHOLD DISINFECTANT, REMOVE GLOVES, THEN WASH HANDS THOROUGHLY WITH SOAP AND WATER.</p> <p>USED DISPOSABLE PPE'S SHOULD BE WRAPPED IN A PLASTIC BAG BEFORE THEY ARE THROWN IN WITH GENERAL GARBAGE.</p> <p>CLOTHES THAT HAVE BEEN IN CONTACT WITH RODENT SALIVA, URINE, AND FECES SHOULD BE LAUNDERED WITH HOT WATER AND DETERGENT PROMPTLY. MACHINE -DRY ON A HIGH SETTING OR LINE DRY IN WARM SUNLIGHT.</p> <p>CLEAN NON-DISPOSABLE PPE'S WITH A BLEACH OR LYSOL SOLUTION AND THEN WASH THEM A SECOND TIME WITH SOAP AND WATER.</p> <p>DISINFECT ANY TOOLS OR UTENSILS THAT COME IN CONTACT WITH RODENT MATERIAL</p>