ANAPLASMUSIS **arbuvi**p B**abesiosis** Anthra` 1ELIOIDOSIS <u>CA</u>M , FEVER **CRF** DSIS STEC **'ULAREMI** /IRUS PU AIDS LEC /IRAL I PERTUS _OBAC⁻ DISEASI IAEMOF TITIS A H ISTERIOI. IS GLANDE POISONING PS DIPHTHERIA Q Ft EHRLICHIOSIS STEU EVER **TULAREMIA** GIA ANTAV/IDUIG DUU MONIADY/

2011 LABORATORY REPORTING OF NOTIFIABLE CONDITIONS

MAINE CENTER FOR DISEASE CONTROL AND PREVENTION

''ICELLOSIS GLANDER POISONIN **DXIDE** NUS DIPHTHERI 07 NSIS EHRLICH AE HANT/ TITIS C **HI** NS ARBO AMYDI **ZFELD** 0 15 **NCROI** 1E HEP BRUCELLC ONOXID

ITIS A HEPATITIS B HEPAT ISTERIOISIS ANAPLASMO BAB IMPORTANT ANTHRA ULAREMIA PHONE POISC JLIS NUMBERS DIPHTHERI RIDIODISEASE REPORTING and Consultation Line ST

800-821-5821 Healthcare Associated Infections Program 207-287-6028 207-287-8186 (fax)

HIV, STD and Viral Hepatitis Program 207-287-3747 207-287-3498 (fax)

Immunization Program
207-287-3746
207-287-8127 (fax)

Infectious Disease
Epidemiology Program
800-821-5821

800-293-7534 (fax) Tuberculosis Control Program 207-287-5194

800-293-7534 (fax)

Health and Environmental Testing Laboratory (HETL) 207-287-2727

Bacteriology Section
207-287-1704

Molecular/PulseNet Section 207-287-6366

••• TB/Mycology Section 207-287-1706

Wirology Section 207-287-1722

Northern New England Poison Control 800-222-1222



A NOTE TO OUR COLLEAGUES

Maine Center for Disease Control and Prevention (Maine CDC) is pleased to provide you with this guidance for laboratory reporting of notifiable conditions. We hope you find this guidance useful.

Reporting of suspected or confirmed diseases or conditions designated as notifiable is mandated under Maine State Law [22 M.R.S.A., Chapter 250, §820 and §822]. Though the primary responsibility of reporting lies with health care providers, the following entities are also required to report notifiable diseases in Maine: medical laboratories (including blood donor centers and blood banks), veterinarians, veterinary medical laboratories, health care facilities, child care facilities, correctional facilities, educational institutions, and local health officers.

In an effort to assist medical laboratories and blood banks in fulfilling these obligations, Maine CDC has developed this guidance for laboratory reporting. This reference provides Maine-specific information on notifiable diseases and conditions, contact information for key personnel and offices, and emergency contact information for after hours calls.

If you require further information or if you have questions or concerns about disease reporting, please call Maine CDC's 24-hour Disease Reporting and Consultation Line at **800-821-5821**. If you would like additional copies of this guidance, a PDF version is available on Maine CDC website at *www.maine.gov/dhhs/boh/ddc/epi/disease-reporting/* or can be ordered by calling 800-821-5821.

Partnering for Prevention,

Steple & Searsmo

Stephen D. Sears, MD MPH State Epidemiologist Maine Center for Disease Control and Prevention

Lenneth 9 Bte

Kenneth G. Pòté, Ph.D. Director, Maine Health and Environmental Testing Laboratory Maine Center for Disease Control and Prevention

HEPATITIS ERIOISIS ANAPLASMO FREQUENTLY ANTI RFMIA **Asked** QUESTIONS D

Q. Are laboratories and blood banks required to report notifiable conditions?

A. Yes, Maine State Law [22 M.R.S.A., Chapter 250, §820 and §822] requires laboratories and blood banks to immediately report the recognition or strong suspicion of the notifiable conditions indicated in this guidance to public health authorities at Maine Center for Disease Control and Prevention (Maine CDC).

Q. To whom should reports of positive lab results or other markers of disease be submitted?

A. All reports should be submitted to Maine CDC. The reports may be made by calling the 24-hour Disease Reporting and Consultation Line at 800-821-5821 or by faxing the report to 800-293-7534.

Q. When and how should reports be submitted?

A. Category I notifiable conditions, as indicated by the bold text and phone icon on the Reporting Procedures List contained in this guidance, must be reported immediately by telephone on recognition or strong suspicion of disease. Category II, non bolded, notifiable conditions require reporting by telephone, fax, or mail as soon as possible, but no later than 48 hours from the time of recognition or strong suspicion of disease. Although telephone and fax should be the primary method of reporting, in the case of Category II conditions written reports may be mailed to Maine Center for Disease Control and Prevention, Division of Infectious Disease, 11 State House Station, Augusta, ME 04333-0011.

Q. What information should be provided to the public health authorities?

A. Disease reports must include all pertinent information including: disease or condition diagnosed or suspected; patient's name, date of birth, address, phone number, occupation, and race; diagnostic laboratory findings and dates of test relevant to the notifiable condition; health care provider name, address, and phone number; and name and phone number of the person making the report. A disease report form is available for download at www.maine.gov/dhhs/boh/ddc/epi/ disease-reporting/notifiable-form.doc.

Q. How can positive test results be confirmed?

A. The Maine Health and Environmental Testing Laboratory(HETL), in Augusta, is available to assist clinical laboratories in the identification of isolates of etiologic agents of notifiable diseases and/or confirm the presence of serologic markers of such diseases.

Q. What is required to be sumitted to HETL?

A. The Reporting Procedures Table in this guidance contains information about which agents are required by state law to be submitted to HETL. Many clinical laboratories utilize the services of reference laboratories at their discretion. State law requires that test results that relate to notifiable conditions, noted as "Yes" in the "Lab Submission of Isolates or Specimens for Confirmation Required" column, must be submitted to HETL, regardless of where the test is performed. Maine laboratories participating in the Federal Laboratory Response Network (LRN) are also required to submit isolates or specimens when specific agents are suspected. For more information please visit the HETL website at www.mainepublichealth.gov/lab.

Q. Does Maine HETL participate in any special testing?

A. Yes. Maine HETL participates in PFGE/PulseNET, CaliciNET and Laboratory Repsonse Network (LRN).

PFGE/PulseNET is a network of public health laboratories from the United States and Canada that strain type bacteria using pulsed field gel electrophoresis (PFGE). PulseNET allows the linkage of cases and foodstuffs to outbreaks using an electronic database of DNA finger-prints from pathogenic bacteria including shigatoxin producing E.coli, Salmonella, Shigella, Campylobacter and Listeria. For more information visit: www.cdc.gov/pulsenet/.

CaliciNET is a network of public health laboratories from the United States and Canada that perform DNA sequencing by Polymerase Chain Reaction (PCR) on noroviruses isolated from clinical specimens or food stuffs to determine relatedness and genetic variability. Information from CalciNET can aid in the identification of novel norovirus strains and provide valuable information during outbreaks. For more information: www.cdc.gov/ncidod/dvrd/revb/gastro/ norovirus-factsheet.htm

LRN is a national network of local, state and federal public health, hospital-based, food testing, veterinary and environmental testing laboratories that provide laboratory diagnostics. The LRN and its partners' mission is to maintain an integrated national and international network of laboratories that can respond quickly to acts of chemical or biological terrorism, emerging infectious diseases and other public health threats and emergencies.

Q. Are physicians required to report notifiable conditions too?

A. Yes, physicians are required to report notifiable diseases to Maine CDC. Information is collected on disease onset, symptoms, treatment, occupation, illness in family members, hospitalization, etc. and supplements the information reported by medical laboratories. Immediately reportableconditions, as indicated by the bolded text and phone icon on the Reporting Procedures List contained in this guidance, should be reported immediately upon clinical suspicion.

Q. Is electronic laboratory reporting of test results available?

A. Yes, electronic laboratory reporting to Maine CDC is available. Currently Maine CDC receives electronic laboratory reports from some national reference laboratories and HealthInfoNet. Category I conditions must be reported immediately by telephone upon recognition or strong suspicion of disease prior to availability of test results. Telephone reporting of conditions and paper-based electronic laboratory reporting are still utilized. For more information about implementing electronic laboratory reporting, call the Disease Reporting and Consultation Line at 800-821-5821.

Q. Is reporting required for donor testing?

A. Yes, blood banks, tissue banks and organ procurement organizations must report positive results of notifiable conditions to Maine CDC.

Q. Are HIV related tests reportable?

A. Yes, all confirmed positive HIV antibody tests, all results of viral load tests, and all results of CD4 lymphocyte counts are reportable. Reports can be submitted by telephone to 800-821-5821, by fax to 207-287-3498, or by mail to Maine Center for Disease Control and Prevention, HIV Surveillance, 286 Water Street, 11 State House Station, Augusta, ME 04330-0011. ASE **REPORTING PROCEDURES** HEMORRHAGIC FEVE**PEULASSMIA** ARD

ICDATITIC A IICDATI

AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC	LAB SUBMISSION OF ISOLATES OR SPECIMENS FOR CONFIRMATION REQUIRED	TESTING PERFORMED AT HETL		
Anaplasma phagocytophilum	Anaplasmosis	Positive by any method				
Arboviruses: Eastern or Venezuelan equine encephalitis, Powassan virus, St. Louis encephalitis, West Nile virus	Arboviral infection, viral encephalitis/meningitis	Positive viral culture, NAAT or serologic evidence for any of the arboviruses	No (not required but requested)	IgM performed for Eastern equine encephalitis, St. Louis encephalitis, West Nile virus Powassan virus tested at Federal CDC		
Arenaviruses (Lassa, Junin)	Viral hemorrhagic fever	Positive by any method				
Babesia microti	Babesiosis	ositive blood smear, NAAT or serologic No vidence, PCR				
Bacillus anthracis	Anthrax	Positive by any method Yes		PCR, culture Reportable by LRN		
Bordetella pertussis	Pertussis	Positive by any method	Yes	PCR, culture		
Borrelia burgdorferi	Lyme disease	ELISA positive or equivocal; Immunoblot positive or equivocal	No			
Brucella spp.	Brucellosis	Positive by any method Yes		PCR, culture Reportable by LRN		
Burkholderia mallei	Glanders	Positive by any method Yes		PCR, culture Reportable by LRN		
Burkholderia pseudomallei	Melioidosis	Positive by any method Yes		PCR, culture Reportable by LRN		
Campylobacter spp.	Campylobacteriosis	Positive by any method No		PCR, culture, PFGE		
Carbon Monoxide	Carbon Monoxide Poisoning	Carboxyhemoglobin (COHb) level ≥5% No				
Chlamydia psittaci	Psittacosis	Positive culture or serologic evidence	No			

AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC LAB SUBMISSION OF ISOLATES OR SPECIMENS FOR CONFIRMATION REQUIRED		TESTING PERFORMED AT HETL	
Chlamydia trachomatis	<i>Chlamydia trachomatis</i> , all genital infections including lymphogranuloma venereum (LGV) and eye infections	Positive by any method No N		NAAT	
Clostridium botulinum	Botulism	Positive culture or toxin in blood or stool	or toxin in blood or stool Yes		
Clostridium tetani	Tetanus	Positive culture	Yes	Culture	
Corynebacterium diphtheriae	Diphtheria	Positive culture	Yes	Culture, DNA sequencing	
Coxiella burnettii	Q fever	Positive by any method	Yes	PCR Reportable by LRN	
Creutzfeldt-Jakob agent	Creutzfeldt-Jakob Disease	Positive by any method in patients younger than 55 years of age	No		
Cryptosporidium spp.	Cryptosporidiosis	Positive by any method	No	PCR	
Cyclospora	Cyclosporiasis	Positive by any method	No		
Ehrlichia chaffeensis	Ehrlichiosis	Positive by any method	No		
Entamoeba histolytica	Amebiasis	Positive by any method	No		
<i>Escherichia coli,</i> Shiga toxin producing	Shiga toxin-producing <i>E. coli</i> (STEC) disease	Positive shiga toxin in stool	Yes	PCR 0157:H7/Shiga toxin1/Shiga toxin2, culture, PFGE	
Escherichia coli 0157	<i>E. coli</i> O157 disease including hemolytic-uremic syndrome(HUS)	toxin in stool		Culture, PFGE, PCR 0157:H7/Shiga toxin1/Shiga toxin2	
Filoviruses (Ebola, Marburg)	Viral hemorrhagic fever			Reportable by LRN	
Francisella tularensis	Tularemia	Positive by any method Yes		PCR, culture Reportable by LRN	
Giardia lamblia	Giardiasis	Positive by any method	No		
Haemophilus ducreyi	Chancroid	Positive by any method	No		
Haemophilus influenzae	<i>Haemophilus influenzae,</i> invasive disease	Positive by any method	Yes	Serogroup identification	

See inside back cover for key of abbreviations.

OSIS PERTUSSIS LYME DISEASE BRUCELLOSIS TULAREMIA DIPHTHERIA ASE REPORTING PROCEDURES HEMORRHAGIC FEVERTULAREMIA CARD

AE UEDATITIC A UEDATITIC D UEDATITIC C L

VNIDD



AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC	LAB SUBMISSION OF ISOLATES OR SPECIMENS FOR CONFIRMATION REQUIRED	TESTING PERFORMED AT HETL			
Hantavirus	Hantavirus Pulmonary Syn- drome	Positive IgM or rising IgG titer or positive RNA by NAAT or positive immunochemistry	Confirmatory testing recommended				
Hepatitis A virus	Hepatitis A	Positive serology for IgM anti-HAV					
Hepatitis B virus	Hepatitis B	Positive serology for HBsAg, anti-HBc, IgM anti-HBc, HBeAg or HBV DNA (positive or detectable).	EIA				
Hepatitis C virus	Hepatitis C	Positive serology for anti-HCV EIA or CIA, anti-HCV RIBA; Positive or detectable HCV RNA (PCR, bDNA, TMA), Genotype, and ALT >400 IU/L (in combination with one or more positive or detectable HCV result).	EIA				
Human Immunodeficiency Virus	HIV and AIDS	Positive results confirmed by supplemental HIV antibody test (e.g. Western blot, IFA), detectable quantities from all HIV nucleic acid detection test results, positive HIV p24 antigen test (including neutralization assay), positive HIV isolation (viral culture). All CD4 counts and viral load test results regardless of quantity or detection levels should be reported by reference laboratories.	Yes — only applies to HIV antibody test results	Western Blot, EIA			
		Causative organisms responsible for AIDS defining conditions. www.cdc.gov/mmwr/preview/mmwrhtml/ rr5710a2.htm					
Influenza, novel	Influenza, novel	Positive influenza A, unable to serotype or novel strain	Yes	PCR screening A/B and PCR subtyping H1N1, H3N2, H5, culture, Drug Resistance by Pyrose- quencing (2009 H1N1) (Available in 2010-11 season)			
Legionella spp.	Legionellosis	Positive by any method	No				
Leptospira interrogans	Leptospirosis	Positive by any method	No	PCR, culture, PFGE			

AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC LAB SUBMISSION OF ISOLATES OR SPECIMENS FOR CONFIRMATION REQUIRED		TESTING PERFORMED AT HETL		
Listeria monocytogenes	Listerioisis	Positive by any method	Yes	PCR, culture, PFGE		
Monkeypox Virus	Monkeypox	Positive by any method	Positive by any method Yes F			
Mumps virus	Mumps	Paired sera showing rising IgG titer, single serum showing mumps IgM antibody, positive viral culture, RT-PCR	Yes	IgG serology, RT-PCR, culture, IgM, ELISA		
Mycobacterium tuberculosis	Tuberculosis	Positive AFB smear (including subsequent culture result), or historic evidence of disease (Negative culture results on follow up specimens must also be reported) Clinical suspicion of active disease	AFB smear, NAAT probe, culture, drug susceptibilities, genotyping, IGRA (Available 12/1/2010)			
Neisseria gonorrhoeae	Gonorrhea, Gonococcal conjuctivitis	Positive by any method				
Neisseria meningitidis	Meningococcal disease, Invasive	Positive by culture from any sterile site (such as blood or CSF) or Gram-stain showing Gram-negative diplococci in CSF or blood	m-stain showing			
Norovirus	Norovirus			RT-PCR GI/GII, DNA sequencing (Calicinet)		
Saxitoxin, demoic acid	Paralytic Shellfish Poisoning			Confirmatory testing may be facilitated in collaboration with Department of Marine Resources		
Plasmodium spp.	Malaria	Positive blood smear or NAAT	No			
Polio virus	Poliomyelitis			Confirmatory testing will be performed by Federal CDC		
Rabies virus, animal	Rabies	Domestic animal or human exposure to either high risk wildlife or domestic animals CDC		DFA		
Rabies virus, human	Rabies	Clinical symptoms consistent with human Rabies virus	Confirmatory testing will be performed by Federal CDC			

DSIS **Pertussis** lyme disease **brucellosis** tularemia **diphtheria** (ASE REPORTING PROCEDURES HEMORRHAGIC FEVENTULA ARD AE LEDATITIC A **LEDATITIC D** LEDATITIC C LA A

VNDD

AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC LAB SUBMISSION OF ISOLATES OR SPECIME FOR CONFIRMATION REQUIRED		TESTING PERFORMED AT HETL		
Ricin Poisoning	Ricin Poisoning	Positive by any method	ive by any method Yes			
Rickettsia rickettsii	Rocky Mountain Spotted Fever	Positive by any method	Positive by any method No			
Rubella virus	Rubella (German Measles), including congenital	Paired sera showing rising IgG titer, single serum showing rubella IgM antibody, positive viral culture, RT-PCR	IgG Serology Confirmatory testing will be performed by Federal CDC			
Rubeola virus	Measles	Paired sera showing rise in IgG titer, single serum showing measles IgM antibody, positive viral culture, RT-PCR	ng measles IgM antibody,			
<i>Salmonella</i> species including typhi	Salmonellosis including Typhoid fever	Positive culture	Yes	Culture, PFGE, serotyping		
SARS Coronavirus	Severe Acute Respiratory Syndrome (SARS)	Positive by any method	ny method Yes			
Shigella spp.	Shigellosis	Positive culture	Yes	Culture, serogrouping, PFGE		
Staphylococcus aureus	Methicillin-resistant <i>Staphylococcus aureus,</i> invasive	Positive culture from any sterile site No (such as blood or CSF)				
Staphylococcus aureus	Staphylococcal disease, Vancomycin intermediate (VISA) or Vancomycin resistant (VRSA)			MecA gene confirmation and vanA gene detection by Federal CDC		
Staphylococcal enterotoxin B	Staphylococcal enterotoxin B poisoning	Positive for toxin in blood or urine by any method	No	TRF-ELISA Reportable by LRN		
<i>Streptococcus agalactiae</i> (Group B Strep)	Group B streptococcal invasive disease	Positive culture from any sterile site (such as blood or CSF)	No			

AGENT	DISEASE/CONDITION	WHAT TO REPORT TO MAINE CDC	LAB SUBMISSION OF ISOLATES OR SPECIMENS FOR CONFIRMATION REQUIRED	TESTING PERFORMED AT HETL	
Streptococcus pneumoniae	<i>Streptococcus pneumoniae</i> invasive disease	Positive culture from any sterile site (such as blood or CSF), antibiotic susceptibility pattern must be included			
<i>Streptococcus pyogenes</i> (Group A Beta Hemolytic Strep)	Group A streptococcal invasive disease	Positive culture from any sterile site (such as blood or CSF), or any surgically-obtained site, or any site.			
Treponema pallidum	Syphilis			TPPA, RPR, VDRL (CSF only)	
Trichinella spp.	Trichinosis	Positive biopsy or serology	No		
Vaccinia virus	Vaccinia infection	Positive by any method	Yes	PCR	
				Reportable by LRN	
Varicella-zoster virus	Chicken pox, Shingles	Positive by any method	No	PCR	
Variola virus	Smallpox	Positive by any method	Yes	Confirmatory testing will be performed by Federal CDC	
<i>Vibrio spp.,</i> including cholera	Vibriosis, including cholera	Positive by any method	Yes	PCR (cholera only), culture, serogrouping	
Yellow fever virus	Yellow fever	Positive by any method	No		
Yersinia pseudotuber- culosis and Yersinia enterocolitica	Yersiniosis	Positive culture No			
Yersinia pestis	Plague	Positive by any method	Yes	PCR, culture Reportable by LRN	

Diseases/conditions indicated with the phone icon must be immediately reported by telephone to the Maine CDC (800-821-5821).

AFB	Acid-fast Bacillus	HBsAg	Hepatitis B Surface Antigen	PCR	Polymerase Chain Reaction
CIA	Chemiluminescence Immunoassay	HBV	Hepatitis B Virus	PFGE	Pulse-Field Gel Electrophoresis
COHb	Carboxyhemoglobin	HCV	Hepatitis C Virus	RIBA	Recombinant ImmunoBlot Assay
CSF	Cerebrospinal Fluid	IFA	Immuno Fluorescence Antibody	RNA	Ribonucleic Acid
DFA	Direct Fluorescent Antibody	lgG	Immunoglobulin G	RPR	Rapid Plasma Reagin
EIA	Enzyme Immunoassay	lgM	Immunoglobulin M	RT-PCR	Reverse Transcriptase Polymerase
ELISA	Enzyme-linked Immunosorbent Assay	IGRA	Interferon Gamma Release Assay		Chain Reaction
HAV	Hepatitis A Virus	LRN	Laboratory Response Network	TPPA	Treponema Pallidum Particle Agglutination
HBc	Hepatitis B Core	NAAT	Nucleic Acid Amplification Test	TRF	Time Resolved Florescence
HBeAg	Hepatitis B E Antigen			VDRL	Venereal Disease Research Laboratory Test

S D



John E. Baldacci, Governor Brenda M. Harvey, Commissioner

Maine Center for Disease Control and Prevention Infectious Disease Epidemiology 800-821-5821 www.mainepublichealth.gov

November 2010

Maine Center for Disease Control and Prevention (Maine CDC) www.mainepublichealth.gov

Infectious Disease Epidemiology Program Disease Reporting www.maine.gov/dhhs/boh/ddc/epi/disease-reporting

Health and Environmental Testing Laboratory (HETL) www.mainepublichealth.gov/lab

Rules for the Control of Notifiable Conditions

www.maine.gov/dhhs/boh/ddc/epi/disease-reporting/ notifiable-conditions.doc

Notifiable Conditions List www.maine.gov/dhhs/boh/ddc/epi/disease-reporting/ notifiable-list.doc

Notifiable Conditions Reporting Form www.maine.gov/dhhs/boh/ddc/epi/disease-reporting/ notifiable-form.doc