

CRITICAL LINK



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Secretary

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Maryland Department of
Health and Mental Hygiene*

The Laboratories Administration—Maryland's State Public Health Laboratory

Animal Rabies Testing Electronic Submission Guidelines 2011

Collaborative efforts result in procedural improvements

The Laboratories Administration recognized the need to improve the process and communications in animal rabies testing with the local health departments, as well as understand the importance of producing quality rabies testing. It was imperative to provide updated animal rabies testing submission guidelines, and this has been accomplished. Discussions on the procedural improvements were the result of the collaborative efforts of the DHMH Center for Zoonotic and Vector-borne Diseases (CZVD), the local health departments (LHDs), and the Laboratories Administration. The improvements in the rabies submission policy have been vetted across Maryland for six months, from June through

November 2010. Extensive outreach by the Laboratories Administration Rabies Staff, in collaboration with the CZVD staff, has been provided to the local health departments. On-site trainings were held at 16 local health departments with about 140 local health department staff in attendance. In addition, the procedural changes were presented at the local health officer's meeting held on November 10, 2010 for the

Deputy Secretary of Health and the Local Health Department Officers to view the improvements and provide feedback. It was well received and seen as a huge improvement, as well as an innovative step towards electronic test submissions and reporting. This could not have been achieved without the active participation and cooperation of the local health department staff.

The Updated Animal Rabies Testing Submission Guidelines were fully implemented effective January 1, 2011.



Photo 1: Laboratory Scientist Keisha Friday scans rabies testing submission forms that have been submitted electronically using MyLIMS. Photo credit: Brock Spinks

This was communicated to the LHDs by Dr. Maria Paz Carlos in the "Updated Animal Rabies Testing Submission Guidelines November 29, 2010" Memo (<http://dhmh.state.md.us/labs/pdf/RabiesLabMemo.pdf>).

(Continued on page 2)

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CRITICAL LINK

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Questions concerning technical content of this newsletter may be referred to Dr. Robert Myers at 410-767-6100

The Critical Link is published monthly by the staff of the Laboratories Administration Department of Health & Mental Hygiene 201 W. Preston Street Baltimore, Maryland 21201 (Phone 410-767-6909)



Photo 2: Laboratory Scientist Brock Spinks logs in a rabies submission test form, assigning the specimen to the accessioning number.
Photo credit: Keisha Friday

(Continued from page 1)

Animal Rabies Testing Electronic Submission Guidelines 2011

The highlights of the changes are as follows:

1. Improved communications and coordination to ensure human exposure cases are tested immediately

A. Routine Examination Requests
The Rabies Laboratory operates from 8:00 a.m. to 4:30 p.m. weekdays (Monday through Friday except holidays and service reduction days). On-call scientists are available during holidays, weekends, service reduction days, and for after-hours submissions that require results as soon as possible, so

a medical determination on rabies post-exposure prophylaxis (PEP) can be made. (See our website at <http://dohm.state.md.us/labs/html/rabies.html>).

B. Emergency Examination Requests

Situations may occur requiring rabies test results as soon as possible so a medical determination about rabies PEP can be made.

In these situations, on-call laboratory scientists are available, and specimens may be examined Fridays from 12:00 p.m. to 4:30 p.m., on a weekend, salary reduction day, or on a state holiday, with prior approval of the DHMH Office of Infectious Disease Epidemiology and Outbreak Response (IDEOR) epidemiology staff. To reach the epidemiology staff during regular business hours, contact the DHMH

(Continued on page 3)



Photos 3: Brock Spinks performs a necropsy of a specimen for the diagnosis of rabies in an animal. Photo credit: Keisha Friday

**Maryland Department of Health and Mental Hygiene
Laboratories Administration**
201 W. Preston Street, Baltimore, Maryland 21201
Main Phone No: 410-767-6100 <http://www.dhmh.state.md.us/labs>
Division of Virology and Immunology Rabies Laboratory Phone No: 410-767-6177 Fax No: 410-333-7790

Animal Rabies Examination Submission Form

NOTE: Normal business hours are 8:00AM- 4:30PM Monday thru Friday. Specimens received without prior approval after 12:00PM on Fridays will be processed the next business day. Weekends and holidays require prior approval from State Epidemiology/ Center for Zoonotic and Vector-borne Diseases Staff/Laboratory Administrations for emergency testing only.

1. SUBMITTER INFORMATION			2. OWNER OF SUBMITTED ANIMAL INFORMATION (or person who found animal)		
Name:			Name: First Last		
Address			Address		
City		State	City		State Zip Code
Phone Number ()	Submitter Animal ID No.		Phone Number ()	Jurisdiction	
Address where Exposure Incident Occurred:		City	State	Zip Code	Jurisdiction
3. SPECIMEN INFORMATION			<input type="checkbox"/> Pet <input type="checkbox"/> Stray <input type="checkbox"/> Wildlife <input type="checkbox"/> Livestock		
Species: <input type="checkbox"/> Bat <input type="checkbox"/> Cat <input type="checkbox"/> Dog <input type="checkbox"/> Raccoon <input type="checkbox"/> Skunk <input type="checkbox"/> Fox <input type="checkbox"/> Opossum <input type="checkbox"/> Beaver <input type="checkbox"/> Cow <input type="checkbox"/> Horse <input type="checkbox"/> Ground Hog <input type="checkbox"/> Deer <input type="checkbox"/> Bear <input type="checkbox"/> Sheep <input type="checkbox"/> Goat			Death Date: Month / Day / Year		
Any other animal requires prior approval from the State Epidemiologist/Center for Zoonotic and Vector-borne Diseases Staff/Laboratory Administrations			Cause of Death: <input type="checkbox"/> Diseased <input type="checkbox"/> Euthanized <input type="checkbox"/> Accidental <input type="checkbox"/> Unknown <input type="checkbox"/> Other _____		
If submitting an animal requiring prior approval and or emergency testing: Species: _____ Arrangements made with: _____ Date: / /			Reason for Rabies Testing: <input type="checkbox"/> Human Exposure <input type="checkbox"/> Pet Exposure		
Clinical Signs: <input type="checkbox"/> Disoriented <input type="checkbox"/> Seizures <input type="checkbox"/> Aggression <input type="checkbox"/> Lethargy <input type="checkbox"/> Unexplained wound <input type="checkbox"/> Ataxia <input type="checkbox"/> Paralysis <input type="checkbox"/> Other _____			Rabies Vaccination History: <input type="checkbox"/> Current - Vaccinated <input type="checkbox"/> Lapsed Rabies Vaccination <input type="checkbox"/> Unvaccinated <input type="checkbox"/> Unknown		
4. EXPOSURE INFORMATION					
Type of Exposure: <input type="checkbox"/> Human <input type="checkbox"/> Animal <input type="checkbox"/> Both			Exposure Date: / /		
Name of Person Exposed: First Last			Name/Species of Animal Exposed (if applicable):		
Address:		Phone Number ()	Jurisdiction of Exposure:		
City State Zip Code		Type of Exposure: <input type="checkbox"/> Bite <input type="checkbox"/> Other <input type="checkbox"/> Scratch <input type="checkbox"/> Lick	Exposed body area:		
Circumstance of Human Exposure: <input type="checkbox"/> Other <input type="checkbox"/> Capture <input type="checkbox"/> Unprovoked attack <input type="checkbox"/> Provoked attack		Circumstance of Animal Exposure: <input type="checkbox"/> Fight <input type="checkbox"/> Dead animal contact <input type="checkbox"/> Other _____			
FLUORESCENT RABIES ANTIBODY TEST RESULTS: (For Laboratory Use Only)					
<input type="checkbox"/> Positive <input type="checkbox"/> Negative <input type="checkbox"/> Unsatisfactory Specimen Comments: _____					
Results Phoned To: _____		Date: / /	Time: _____	Virologist: _____	
Laboratory Use Only					
Date Received: _____			Rabies Accession No: _____		
DHMH 1188 11/10					

Administration staff to arrange for testing and appropriate submission at Rabies Lab On-Call Number; 443-735-1291. Additional laboratory on-call after-hours numbers are included in the Updated Animal Rabies Submission Policy, Emergency Examination Requests section at <http://dhmh.state.md.us/labs/html/rabies.html>

2. Animal Submission Criteria

a. Terrestrial animals acceptable for submission to DHMH are rabies vector species (e.g., raccoons, foxes, skunks, etc.) that expose humans, livestock, or pets. Exposure is defined as a bite that breaks the skin or contact of mucous membranes or broken skin with either animal saliva or nervous tissue. Birds, fish, reptiles, and amphibians will not be accepted for rabies testing under any circumstances.

b. Small rodents, including squirrels, chipmunks, gerbils, guinea pigs, hamsters, rabbits, mice, rats, voles, shrews and moles, will not be accepted for testing unless the animal has bitten a human and prior approval for testing has been authorized by the DHMH IDEOR epidemiology staff.

c. Most recent human cases of rabies in the U.S. have been associated with bats, and bat bites may be difficult to recognize. Bats should be submitted for testing in all cases of direct human contact with a bat or when bite or mucous membrane contact cannot be ruled out.

3. Updated Animal Rabies Testing Submission Form, Electronic Laboratory Test Request and Reporting

The new procedures include the updated animal rabies testing submission form (DHMH 1188 11/10) (See Figure 1 and <http://dhmh.state.md.us/labs/html/rabies.html>). Submission of specimens for animal rabies testing can be made using the Laboratories Administration's MyLIMS (Laboratory Information Management Systems at

Figure 1: This is a graphic of the updated Animal Rabies Examination Submission Form (DHMH 1188 11/10.)

(Continued from page 2)
**Animal Rabies Testing
Electronic Submission Guidelines 2011**

IDEOR CZVD at 410-767-5649 (main); 410-767-6703 (DHMH State Public Health Veterinarian); or 410-767-6618 (CZVD Rabies Chief.) After hours, use the DHMH IDEOR Epidemiologist-On-Call pager at 410-716-8194. After securing approval, the LHD MUST contact the Laboratories

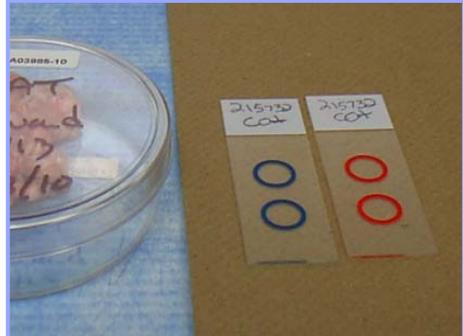


Photo 4: Preparation of impression slides for postmortem diagnosis of rabies in animals by Direct Fluorescent Antibody Testing. Photo credit: Keisha Friday

(Continued on page 4)

(Continued from page 3)

Animal Rabies Testing

Electronic Submission Guidelines 2011

<http://starlims.dhmmh.md.gov/starlims10.dhmmhlabprod/>). The local health departments must use MyLIMS for submission of specimens for animal rabies testing. This allows the LHDs to electronically submit the required data from the submission form, print a copy of the submission form, and submit a test request. In addition, laboratory test results can be viewed on-line, as well as a copy of the official laboratory test report can be printed.

4. Creation of On-Line Training Tools and Resources.

To assist the LHDs with training, on-line tools and resource including the rabies submission policies, handouts, FAQs, submission forms, as well as both screen-shot and on-line video tutorials, were created and posted on the Laboratories Administration's website at



Photo 5: Keisha Friday prepares impression slides for rabies testing. Photo credit: Brock Spinks

CZVBD has modified its reporting requirements for local health departments. This has been communicated to all local health departments by the State Public Health Veterinarian, Dr. Katherine Feldman, in HO Memo #10-45 December 10, 2010 Updated Maryland Animal Rabies Submission Policy, Rabies Testing Form, and Reporting Requirements (see <http://dhmmh.maryland.gov/labs/pdf/HO%20Memo%2010-045.pdf>). As per Dr. Feldman, the new animal rabies

testing form implemented in MyLIMS captures more data than was done previously. If the local health department is using MyLIMS for animal rabies submissions, and the animal rabies testing form is fully completed for each submission, the updates to reporting apply and are as follows:

- The Monthly Animal Rabies Report is no longer required;
- The Maryland Rabid Animal Surveillance Report is no longer required;

- In lieu of the Rabid Animal Surveillance Report, local staff are asked to forward to the CZVBD a copy of any internal document routinely used to report animal exposure incidents;

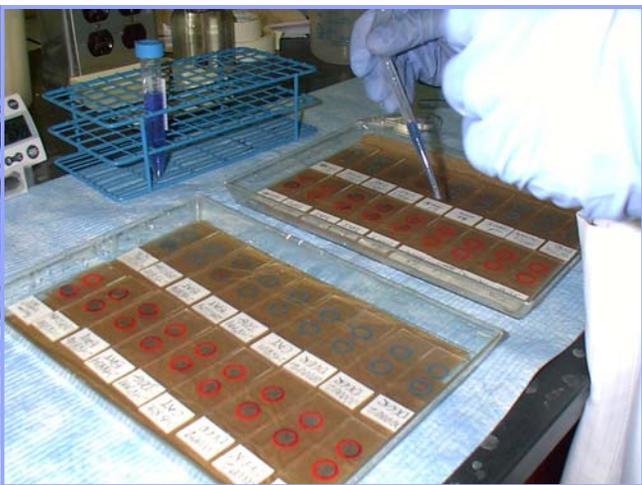


Photo 6: Staining of slides for postmortem diagnosis of rabies in animals by direct fluorescent antibody testing. Photo credit: Keisha Friday

<http://dhmmh.state.md.us/labs/html/rabies.html>. It was highly recommended for the LHDs staff to use these on-line tools to facilitate their staff training and competency. As a result of the updated animal rabies submission policy, the DHMH IDEOR

- Please notify the CZVBD of any animals submitted for rabies testing to laboratories other than DHMH (e.g., to the MDA Animal Health Laboratories) or when animals submitted to the DHMH are not from Maryland. The Maryland Report of Human Postexposure Rabies Prophylaxis has been modified and the new version (Dated 12/2010) should be used effective immediately;
- The Monthly Animal Bite Report Form should be submitted monthly (as always).

To date, the process has been successful. The LHDs' ongoing efforts to be thorough in following the criteria for animal submission and the policy for emergency specimen submissions are commendable. In addition, the LHD's responsiveness in adapting to the electronic test submission and the updated animal rabies testing submission guidelines, are highly appreciated. Overall, the improved communications between the Laboratories Administration Rabies Lab with the LHDs, as well as access to electronic test submissions made the process better.

The Laboratories Administration Rabies Laboratory plays a critical role in the State of Maryland with its primary service function to diagnose rabies in animals. In 2010, the Laboratories Administration tested a total of 4,331 specimens, wherein 355 specimens tested positive for rabies. As we enter the next decade, the Laboratories Administration would like to thank in advance the Rabies Laboratory and LHD's staff for their continued support and contributions to animal rabies testing activities in Maryland.

Please routinely visit the Laboratories Administration website at <http://dhmmh.state.md.us/labs/html/rabies.html> for rabies testing submission guidelines and updates. For MyLIMS assistance, please contact the Laboratories Administration's Office of Information Management Systems by phone at 410-767-3573 or e-mail (OIMShelpdesk@dhmmh.state.md.us).

This article was compiled by the Rabies Laboratory staff and Dr. Maria Paz Carlos.



Photo 7: Laboratory Scientist Algernon Prioleau reading slides using a fluorescent microscope. Photo credit: Keisha Friday

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The Department, in compliance with the Americans with Disabilities Act, ensures that qualified individuals with disabilities are given an opportunity to participate in and benefit from DHMH services, programs, benefits, and employment opportunities.

Laboratory Statistics

Reported by the
Laboratories Administration
 covering results from the month of
January 2011

ENTERIC BACTERIOLOGY

GENUS SEROVAR

SEX	AGE	#	JURISDICTION
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CAMPYLOBACTER

F	38	1	BALTIMORE
M	33	1	BALTIMORE
M	13	1	BALTIMORE
M	27	1	BALTIMORE CITY
M	0	1	OUT OF STATE
M	43	1	OUT OF STATE
M	23	1	OUT OF STATE
F	0	1	PRINCE GEORGE'S

CAMPYLOBACTER JEJUNI

M	69	1	ALLEGANY
F	0	1	BALTIMORE
F	49	1	BALTIMORE
F	38	1	BALTIMORE
M	0	1	BALTIMORE

U	54	1	BALTIMORE
M	58	1	BALTIMORE CITY
F	20	1	CHARLES
F	60	1	MONTGOMERY
F	24	1	MONTGOMERY
F	49	1	OUT OF STATE
M	42	1	OUT OF STATE
F	40	1	TALBOT
ESCHERICHIA COLI, SEROTYPE O157			
M	53	1	OUT OF STATE
ESCHERICHIA COLI, SEROTYPE O157:H7			
F	5	1	BALTIMORE
M	2	1	BALTIMORE
ESCHERICHIA COLI, SEROTYPE O157:NON-MOTILE			
F	70	1	CARROLL
M	9	1	OUT OF STATE
F	26	1	OUT OF STATE
SALMONELLA			
F	34	1	BALTIMORE
F	25	1	BALTIMORE
M	0	1	BALTIMORE
F	53	1	BALTIMORE CITY
F	49	2	BALTIMORE CITY
F	16	1	BALTIMORE CITY
M	4	2	BALTIMORE CITY
F	1	1	FREDERICK
M	4	1	FREDERICK
F	34	1	OUT OF STATE
F	2	1	OUT OF STATE
F	0	1	OUT OF STATE
M	1	1	OUT OF STATE
M	0	1	OUT OF STATE
M	1	1	OUT OF STATE
SALMONELLA SER. 4,5,12:I:-			
F	31	1	HARFORD
F	2	1	OUT OF STATE
M	1	1	OUT OF STATE
M	47	1	OUT OF STATE
SALMONELLA SER. BARDO			
F	19	1	BALTIMORE

SALMONELLA SER. BAREILLY			
M	7	1	BALTIMORE CITY
M	73	1	OUT OF STATE
SALMONELLA SER. BERTA			
F	65	1	BALTIMORE
M	69	1	TALBOT
SALMONELLA SER. BRAENDERUP			
F	0	1	BALTIMORE CITY
SALMONELLA SER. DERBY			
F	22	1	BALTIMORE
F	32	1	BALTIMORE CITY
F	7	1	BALTIMORE CITY
F	55	1	FREDERICK
SALMONELLA SER. ENTERITIDIS			
U	25	1	BALTIMORE
F	60	1	BALTIMORE
F	53	1	BALTIMORE
F	3	4	BALTIMORE
F	0	1	BALTIMORE
M	44	1	BALTIMORE
M	33	1	BALTIMORE
F	0	2	BALTIMORE CITY
F	73	2	BALTIMORE CITY
F	29	2	BALTIMORE CITY
F	18	2	BALTIMORE CITY
F	4	3	BALTIMORE CITY
M	33	1	BALTIMORE CITY
M	25	1	BALTIMORE CITY
M	2	1	BALTIMORE CITY
M	2	1	BALTIMORE CITY
M	1	2	BALTIMORE CITY
M	27	1	CALVERT
F	73	1	CARROLL
M	19	1	CARROLL
U	22	1	MONTGOMERY
F	30	1	MONTGOMERY
F	30	1	OUT OF STATE
M	62	1	OUT OF STATE
M	5	1	OUT OF STATE
U	2	1	PRINCE GEORGE'S
M	0	1	PRINCE GEORGE'S
F	65	1	WICOMICO
SALMONELLA SER. HEIDELBERG			
F	58	1	CALVERT

SALMONELLA SER. IIIB 47:K:Z35			
F	43	1	BALTIMORE CITY
SALMONELLA SER. IIIB, GROUP O:61			
F	0	1	TALBOT
SALMONELLA SER. INFANTIS			
F	42	1	OUT OF STATE
SALMONELLA SER. MUENCHEN			
F	80	2	HARFORD
F	80	1	OUT OF STATE
SALMONELLA SER. NEWPORT			
F	66	1	BALTIMORE
M	52	1	BALTIMORE
F	59	1	KENT
F	30	1	OUT OF STATE
F	84	1	PRINCE GEORGE'S
F	31	1	WICOMICO
SALMONELLA SER. PARATYPHI A			
M	41	1	MONTGOMERY
F	30	1	OUT OF STATE
SALMONELLA SER. PARATYPHI B			
F	5	1	BALTIMORE
SALMONELLA			
SER. PARATYPHI B VAR L(+) TARTRATE +			
M	4	1	BALTIMORE CITY
M	27	1	CECIL
M	4	1	WASHINGTON
SALMONELLA SER. SAINTPAUL			
M	63	1	BALTIMORE
SALMONELLA SER. TYPHIMURIUM			
M	14	1	ANNE ARUNDEL
F	52	1	BALTIMORE
F	10	1	BALTIMORE
M	1	2	BALTIMORE
M	0	1	BALTIMORE
F	0	1	BALTIMORE CITY
M	54	1	BALTIMORE CITY
M	1	1	BALTIMORE CITY
M	0	1	MONTGOMERY
U	3	1	OUT OF STATE
F	72	1	OUT OF STATE
F	0	1	OUT OF STATE
M	1	1	OUT OF STATE
M	0	1	OUT OF STATE
M	62	1	PRINCE GEORGE'S
F	6	2	WASHINGTON
SALMONELLA SER. UNTYPEABLE			
M	33	1	ANNE ARUNDEL
M	6	1	BALTIMORE CITY
F	1	1	OUT OF STATE
M	0	1	OUT OF STATE
SALMONELLA SER. VIRCHOW			
F	49	1	BALTIMORE
M	5	1	OUT OF STATE
SHIGELLA DYSENTERIAE			
M	18	1	MONTGOMERY
SHIGELLA FLEXNERI			
F	7	1	HARFORD
M	45	1	MONTGOMERY
SHIGELLA FLEXNERI II:3,4			
M	35	1	BALTIMORE CITY
SHIGELLA SONNEI			
M	53	1	BALTIMORE
M	52	1	OUT OF STATE
M	33	1	OUT OF STATE
YERSINIA ENTEROCOLITICA			
U	1	1	BALTIMORE CITY
M	77	3	OUT OF STATE

TOTAL 151

ISOLATES - REFERENCE

GENUS SPECIES			
SOURCE	#	JURISDICTION	
ACINETOBACTER CALCOACETICUS- ACINETOBACTER BAUMANNI COMPLEX			
U	2	ANNE ARUNDEL	
CORYNEBACTERIUM			
PSEUDOTUBERCULOSIS			
ABCESS	1	FREDERICK	
CORYNEBACTERIUM STRIATUM			
BLOOD	1	BALTIMORE CITY	
CORYNEBACTERIUM XEROSIS			
THROAT	1	WASHINGTON	
DELFTIA ACIDOVORANS			
SKIN	1	BALTIMORE CITY	
KLEBSIELLA PNEUMONIAE			
U	1	BALTIMORE CITY	
STAPHYLOCOCCUS AUREUS			
BLOOD	1	BALTIMORE CITY	
WOUND	1	WICOMICO	
VIBRIO CHOLERAЕ			
STOOL	1	BALTIMORE	

TOTAL 10

ISOLATES - MISCELLANEOUS

GENUS SPECIES			
SOURCE	#	JURISDICTION	
CORYNEBACTERIUM AFERMENTANS			
BLOOD	1	BALTIMORE CITY	
ENTEROCOCCUS FAECALIS			
BLOOD	5	BALTIMORE CITY	
ESCHERICHIA COLI			
BLOOD	2	BALTIMORE CITY	
GARDNERELLA VAGINALIS			
VAGINAL	1	PRINCE GEORGE'S	
GRAM-NEGATIVE BACILLUS			
BLOOD	2	BALTIMORE CITY	
HAFNIA ALVEI			
CSF	1	BALTIMORE CITY	
PSEUDOMONAS AERUGINOSA			
WOUND	1	BALTIMORE CITY	
STAPHYLOCOCCUS AUREUS			
BLOOD	1	BALTIMORE CITY	
OTHER	2	BALTIMORE CITY	
SKIN	1	BALTIMORE CITY	
WOUND	1	BALTIMORE CITY	
NASAL	1	CARROLL	
VAGINAL	1	PRINCE GEORGE'S	
STAPHYLOCOCCUS, COAGULASE NEGATIVE			
CSF	1	BALTIMORE CITY	
WOUND	1	BALTIMORE CITY	
STREPTOCOCCUS, BETA HEMOLYTIC GROUP A			
THROATS	1	ALLEGANY	
BLOOD	1	BALTIMORE CITY	
STREPTOCOCCUS, BETA HEMOLYTIC NON-GROUP A			
THROATS	7	ALLEGANY	

STREPTOCOCCUS, BETA HEMOLYTIC GROUP B			
VAGINAL	1	ANNE ARUNDEL	
VAGINAL	7	ANNE ARUNDEL	
BLOOD	1	BALTIMORE CITY	
VAGINAL	5	PRINCE GEORGE'S	
VAGINAL	6	PRINCE GEORGE'S	
STREPTOCOCCUS SALIVARUS			
CSF	1	BALTIMORE CITY	
STREPTOCOCCUS SANGUINIS			
BLOOD	1	BALTIMORE CITY	
STREPTOCOCCUS, VIRIDANS GROUP			
LUNG	2	BALTIMORE CITY	

TOTAL 47

SEXUALLY TRANSMITTED DISEASES

GENUS SPECIES			
SEX	#	JURISDICTION	
SYPHILIS SEROLOGY			
F	1	ALLEGANY	
F	1	ANNE ARUNDEL	
M	1	ANNE ARUNDEL	
F	4	BALTIMORE	
M	4	BALTIMORE	
F	12	BALTIMORE CITY	
M	36	BALTIMORE CITY	
U	2	BALTIMORE CITY	
M	1	CALVERT	
F	1	CHARLES	
M	2	CHARLES	
F	1	DORCHESTER	
M	2	DORCHESTER	
F	1	HOWARD	
M	1	HOWARD	
F	3	MONTGOMERY	
M	8	MONTGOMERY	
F	11	PRINCE GEORGE'S	
M	26	PRINCE GEORGE'S	
U	3	PRINCE GEORGE'S	
F	2	QUEEN ANNE'S	
F	2	SAINT MARY'S	
M	1	WASHINGTON	
M	3	WICOMICO	
M	1	WORCESTER	

TOTAL 130

CHLAMYDIA TRACHOMATIS			
F	8	ALLEGANY	
M	1	ALLEGANY	
U	1	ALLEGANY	
F	22	ANNE ARUNDEL	
M	3	ANNE ARUNDEL	
F	27	BALTIMORE	
M	17	BALTIMORE	
F	14	BALTIMORE CITY	
M	12	BALTIMORE CITY	
F	3	CALVERT	
M	1	CALVERT	
M	1	CAROLINE	
F	2	CARROLL	
M	3	CARROLL	
F	6	CECIL	
M	7	CECIL	
F	10	CHARLES	

M	7	CHARLES
F	2	FREDERICK
M	6	FREDERICK
F	1	GARRETT
M	1	GARRETT
F	9	HARFORD
M	1	HARFORD
F	3	HOWARD
M	1	HOWARD
M	2	KENT
F	12	MONTGOMERY
M	5	MONTGOMERY
F	49	PRINCE GEORGE'S
M	54	PRINCE GEORGE'S
F	1	QUEEN ANNE'S
F	3	SAINT MARY'S
M	2	SAINT MARY'S
F	1	SOMERSET
M	1	SOMERSET
F	8	WASHINGTON
M	6	WASHINGTON
F	12	WICOMICO
M	11	WICOMICO
F	3	WORCESTER
M	2	WORCESTER

TOTAL 341

NEISSERIA GONORRHOEAE

M	1	BALTIMORE CITY
M	1	DORCHESTER
M	4	MONTGOMERY
F	8	PRINCE GEORGE'S
M	24	PRINCE GEORGE'S
F	1	SAINT MARY'S
M	2	SAINT MARY'S

TOTAL 41

MYCOBACTERIOLOGY

ISOLATE
SEX AGE # JURISDICTION

MYCOBACTERIUM ABSCESSUS			
M	71	1	OUT OF STATE
MYCOBACTERIUM AVIUM COMPLEX			
F	57	2	ANNE ARUNDEL
M	49	1	ANNE ARUNDEL
M	63	1	ANNE ARUNDEL
F	35	2	BALTIMORE
F	81	3	BALTIMORE
F	89	1	BALTIMORE
M	50	2	BALTIMORE
M	52	1	BALTIMORE
U	60	1	BALTIMORE
F	19	1	BALTIMORE CITY
F	41	1	BALTIMORE CITY
F	62	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	45	1	BALTIMORE CITY
M	63	1	CALVERT
M	76	1	CALVERT
F	72	1	CARROLL
M	34	1	CECIL
F	57	1	FREDERICK
M	61	1	MONTGOMERY
M	50	2	OUT OF STATE
F	48	1	PRINCE GEORGE'S
M	64	2	TALBOT

M	79	1	WASHINGTON
F	64	1	WICOMICO
F	85	1	WICOMICO
M	79	1	WICOMICO
MYCOBACTERIUM FORTUITUM			
F	72	2	BALTIMORE
MYCOBACTERIUM FORTUITUM COMPLEX			
M	79	1	MONTGOMERY
F	57	1	OUT OF STATE
F	76	1	OUT OF STATE
M	37	5	PRINCE GEORGE'S
F	28	1	WASHINGTON
MYCOBACTERIUM GORDONAE			
F	84	1	BALTIMORE
M	69	1	BALTIMORE
F	71	1	BALTIMORE CITY
M	85	1	FREDERICK
M	85	1	MONTGOMERY
U	47	1	OUT OF STATE
F	26	1	PRINCE GEORGE'S
M	40	1	PRINCE GEORGE'S
M	44	1	PRINCE GEORGE'S
MYCOBACTERIUM KANSASII			
M	65	1	BALTIMORE CITY
M	68	1	BALTIMORE CITY
F	77	2	MONTGOMERY
M	37	1	PRINCE GEORGE'S
MYCOBACTERIUM MARINUM			
	55	3	CECIL
MYCOBACTERIUM TUBERCULOSIS			
F	89	1	BALTIMORE
M	25	1	BALTIMORE
M	34	1	BALTIMORE
M	37	1	BALTIMORE
M	73	1	BALTIMORE
M	86	1	BALTIMORE
F	66	1	BALTIMORE CITY
M	40	1	BALTIMORE CITY
M	58	1	BALTIMORE CITY
M	55	1	MONTGOMERY
M	76	1	MONTGOMERY
F	36	1	OUT OF STATE
F	37	1	OUT OF STATE
F	45	1	OUT OF STATE
F	65	1	OUT OF STATE
M	35	1	OUT OF STATE
M	42	1	OUT OF STATE
M	72	1	OUT OF STATE
F	36	1	PRINCE GEORGE'S
F	41	1	PRINCE GEORGE'S
M	46	1	PRINCE GEORGE'S
M	56	1	WICOMICO

MYCOBACTERIUM MARINUM
55 3 CECIL

MYCOBACTERIUM TUBERCULOSIS

F	89	1	BALTIMORE
M	25	1	BALTIMORE
M	34	1	BALTIMORE
M	37	1	BALTIMORE
M	73	1	BALTIMORE
M	86	1	BALTIMORE
F	66	1	BALTIMORE CITY
M	40	1	BALTIMORE CITY
M	58	1	BALTIMORE CITY
M	55	1	MONTGOMERY
M	76	1	MONTGOMERY
F	36	1	OUT OF STATE
F	37	1	OUT OF STATE
F	45	1	OUT OF STATE
F	65	1	OUT OF STATE
M	35	1	OUT OF STATE
M	42	1	OUT OF STATE
M	72	1	OUT OF STATE
F	36	1	PRINCE GEORGE'S
F	41	1	PRINCE GEORGE'S
M	46	1	PRINCE GEORGE'S
M	56	1	WICOMICO

MYCOBACTERIUM TUBERCULOSIS COMPLEX

F	37	3	BALTIMORE
F	64	1	BALTIMORE
M	25	1	BALTIMORE
M	34	1	BALTIMORE
M	37	1	BALTIMORE
M	50	1	BALTIMORE
M	56	1	BALTIMORE
M	34	2	BALTIMORE CITY
M	58	2	BALTIMORE CITY
M	62	1	BALTIMORE CITY
M	26	5	CHARLES
F	55	1	MONTGOMERY
F	68	1	MONTGOMERY
M	32	10	MONTGOMERY
M	50	6	MONTGOMERY
M	55	3	MONTGOMERY
M	76	2	MONTGOMERY
F	21	1	OUT OF STATE
F	26	2	OUT OF STATE

F	76	1	OUT OF STATE
M	35	1	OUT OF STATE
F	36	3	PRINCE GEORGE'S
F	45	3	PRINCE GEORGE'S
M	46	2	PRINCE GEORGE'S
M	29	1	UNKNOWN
MYCOBACTERIUM, NON-TB			
M	77	1	BALTIMORE CITY
SCOTOCHROMOGENIC MYCOBACTERIA			
M	76	2	BALTIMORE
F	76	1	CARROLL
M	56	1	PRINCE GEORGE'S
M	76	1	PRINCE GEORGE'S

TOTAL 147

MYCOBACTERIUM SUSCEPTIBILITY RESULTS

19 ISOLATES IDENTIFIED
1 DRUG RESISTANT STRAIN FOUND

#	JURISDICTION	DRUG(S)
1 ^B	BALTIMORE CITY	PYRAZINAMIDE

^A TWO ISOLATES FROM THE SAME PATIENT
^B PROBABLE FOR M. BOVIS
^C MEETS CASE DEFINITION OF MULTI-DRUG TUBERCULOSIS (MDR-TB)

Mycobacterium tuberculosis complex consists of:
M. tuberculosis *M. africanum*
M. bovis *M. microti*
M. bovis, BCG *M. canettii*

PARASITOLOGY

GENUS/SPECIES # JURISDICTION

CHILOMASTIX MESNILI	2	MONTGOMERY
ENDOLIMAX NANA	2	PRINCE GEORGE'S
	4	BALTIMORE CITY
ENTAMOEBIA COLI	2	PRINCE GEORGE'S
	3	FREDERICK
	3	MONTGOMERY
	2	FREDERICK
ENTAMOEBIA HARTMANNI	3	MONTGOMERY
ENTEROBIUS VERMICULARIS	1	SAINT MARY'S
	1	KENT
	1	PRINCE GEORGE'S
GIARDIA LAMBLIA	2	HOWARD
	3	PRINCE GEORGE'S
	1	BALTIMORE
PLASMODIUM FALCIPARUM	1	BALTIMORE CITY
	1	BALTIMORE
	1	BALTIMORE CITY
	1	ANNE ARUNDEL
PLASMODIUM OVALE	1	BALTIMORE CITY
PLASMODIUM VIVAX	2	BALTIMORE CITY

TOTAL 37

WATER MICROBIOLOGY

	# TESTED	# NON-COMPLIANT
COMMUNITY	2	1
NON-COMMUNITY	316	41
TOTAL	318	42

FOOD PROTECTION

	TOTALS
FOOD	
NUMBER OF SAMPLES	40
NOTABLE PATHOGENS:	
<i>CAMPYLOBACTER SP.</i>	6
<i>CLOSTRIDIUM DIFFICILE</i>	0
<i>ENTEROCOCCUS</i>	33
<i>E. COLI</i>	13
<i>E. FAECALIS</i>	0
<i>LISTERIA SP.</i>	0
MRSA	24
<i>SALMONELLA SP.</i>	3
VRE	6
CRABMEAT	
NUMBER OF SAMPLES	0
EXCEEDING STANDARDS ¹	0
NOTABLE PATHOGENS:	
<i>LISTERIA INNOCUA</i>	0
SHELLFISH	
NUMBER OF SAMPLES	0
EXCEEDING STANDARDS ²	0
TOTAL STANDARDS EXCEEDED	0

SHELLFISH GROWING WATERS

NUMBER OF SAMPLES	97
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TOTAL NUMBER OF SAMPLES 137

STANDARDS

¹CRABMEAT FRESH

ESCHERICHIA COLI AT < 36 MPN/100 GRAMS
STANDARD PLATE COUNT AT < 100

²SHELLFISH

FECAL COLIFORMS AT < 230 MPN/100 GRAMS
STANDARD PLATE COUNT AT < 500,000 PER GRAM

VIRUS ISOLATION

ISOLATE	SEX	AGE	#	JURISDICTION
ADENOVIRUS				
M	18	1	1	WICOMICO
HERPES SIMPLEX VIRUS TYPE 1				
F	22	1	1	PRINCE GEORGE'S
M	25	1	1	PRINCE GEORGE'S
F	14	1	1	BALTIMORE CITY
INFLUENZA A VIRUS				
M	49	1	1	ANNE ARUNDEL
M	0	1	1	ANNE ARUNDEL
F	0	1	1	ANNE ARUNDEL
M	6	1	1	ANNE ARUNDEL
F	73	1	1	BALTIMORE
M	72	1	1	BALTIMORE
U	41	1	1	BALTIMORE
F	36	1	1	CHARLES
F	68	1	1	CHARLES
F	82	1	1	CHARLES
U	30	1	1	MONTGOMERY
M	87	1	1	MONTGOMERY
F	0	1	1	PRINCE GEORGE'S
M	0	1	1	PRINCE GEORGE'S
F	32	1	1	PRINCE GEORGE'S
F	28	1	1	PRINCE GEORGE'S
F	26	1	1	PRINCE GEORGE'S
M	2	1	1	PRINCE GEORGE'S
M	0	1	1	BALTIMORE CITY
M	0	1	1	BALTIMORE CITY
M	47	1	1	BALTIMORE CITY
F	29	1	1	BALTIMORE CITY
F	55	1	1	BALTIMORE CITY
F	50	1	1	BALTIMORE CITY
INFLUENZA B VIRUS				
M	54	1	1	BALTIMORE
M	25	1	1	WICOMICO
M	0	1	1	BALTIMORE CITY
PARAINFLUENZA VIRUS 1				
M	94	1	1	BALTIMORE
PARAINFLUENZA VIRUS 2				
M	2	1	1	ALLEGANY
TOTAL			33	

VIRAL POLYMERASE CHAIN REACTION (PCR)

ISOLATE	SEX	AGE	#	JURISDICTION
HERPES SIMPLEX VIRUS TYPE 1				
F	18	1	1	ALLEGANY
F	29	1	1	ANNE ARUNDEL
U	0	1	1	BALTIMORE CITY
F	17	1	1	BALTIMORE CITY
F	24	1	1	BALTIMORE CITY
F	27	1	1	BALTIMORE CITY
M	31	1	1	BALTIMORE CITY
F	21	1	1	CARROLL
F	20	1	1	CHARLES
F	26	1	1	FREDERICK
F	20	1	1	PRINCE GEORGE'S
M	19	1	1	PRINCE GEORGE'S
M	23	1	1	WICOMICO

HERPES SIMPLEX VIRUS

TYPE 1 AND TYPE 2	F	21	1	PRINCE GEORGE'S
HERPES SIMPLEX VIRUS TYPE 2				
F	29	1	1	ANNE ARUNDEL
F	30	1	1	BALTIMORE
U	45	1	1	BALTIMORE CITY
F	19	2	2	BALTIMORE CITY
F	24	1	1	BALTIMORE CITY
F	25	1	1	BALTIMORE CITY
F	29	1	1	BALTIMORE CITY
F	30	2	2	BALTIMORE CITY
M	20	2	2	BALTIMORE CITY
M	21	2	2	BALTIMORE CITY
M	22	1	1	BALTIMORE CITY
M	26	1	1	BALTIMORE CITY
M	29	2	2	BALTIMORE CITY
M	38	1	1	BALTIMORE CITY
M	46	1	1	CECIL
F	51	1	1	FREDERICK
F	26	1	1	HARFORD
M	28	1	1	HARFORD
F	32	1	1	MONTGOMERY
F	43	1	1	MONTGOMERY
M	25	1	1	MONTGOMERY
M	41	1	1	MONTGOMERY
F	19	2	2	PRINCE GEORGE'S
F	23	1	1	PRINCE GEORGE'S
F	24	1	1	PRINCE GEORGE'S
F	26	1	1	PRINCE GEORGE'S
M	24	1	1	PRINCE GEORGE'S
M	25	1	1	PRINCE GEORGE'S
INFLUENZA 2009 A/H1				
F	20	1	1	ALLEGANY
M	20	1	1	ALLEGANY
M	52	1	1	ALLEGANY
F	23	1	1	ANNE ARUNDEL
F	32	1	1	ANNE ARUNDEL
F	38	1	1	ANNE ARUNDEL
M	2	1	1	ANNE ARUNDEL
M	37	1	1	ANNE ARUNDEL
M	52	1	1	ANNE ARUNDEL
M	6	1	1	ANNE ARUNDEL
U	16	1	1	BALTIMORE
U	4	1	1	BALTIMORE
U	77	1	1	BALTIMORE
F	27	2	2	BALTIMORE
F	29	1	1	BALTIMORE
F	52	1	1	BALTIMORE
F	54	1	1	BALTIMORE
F	58	1	1	BALTIMORE
F	82	1	1	BALTIMORE
M	0	1	1	BALTIMORE
M	38	1	1	BALTIMORE
M	53	1	1	BALTIMORE
M	96	1	1	BALTIMORE
U	0	1	1	BALTIMORE CITY
U	2	1	1	BALTIMORE CITY
U	33	1	1	BALTIMORE CITY
U	46	1	1	BALTIMORE CITY
F	0	5	5	BALTIMORE CITY
F	1	1	1	BALTIMORE CITY
F	2	1	1	BALTIMORE CITY
F	20	1	1	BALTIMORE CITY
F	21	1	1	BALTIMORE CITY
F	22	1	1	BALTIMORE CITY
F	23	2	2	BALTIMORE CITY
F	25	1	1	BALTIMORE CITY
F	28	3	3	BALTIMORE CITY
F	29	1	1	BALTIMORE CITY

F	31	1	BALTIMORE CITY	M	2	1	CHARLES	F	87	1	ANNE ARUNDEL
F	34	1	BALTIMORE CITY	M	20	1	CHARLES	F	94	1	ANNE ARUNDEL
F	35	1	BALTIMORE CITY	M	33	2	CHARLES	M	53	1	ANNE ARUNDEL
F	36	1	BALTIMORE CITY	M	4	1	CHARLES	M	64	1	ANNE ARUNDEL
F	4	1	BALTIMORE CITY	M	6	2	CHARLES	M	71	1	ANNE ARUNDEL
F	41	1	BALTIMORE CITY	M	7	1	CHARLES	M	78	1	ANNE ARUNDEL
F	44	2	BALTIMORE CITY	M	9	1	CHARLES	M	88	1	ANNE ARUNDEL
F	50	2	BALTIMORE CITY	M	39	1	DORCHESTER	M	90	1	ANNE ARUNDEL
F	52	1	BALTIMORE CITY	M	44	1	HARFORD	F	56	1	BALTIMORE
F	53	2	BALTIMORE CITY	M	45	1	HARFORD	F	67	1	BALTIMORE
F	54	2	BALTIMORE CITY	F	30	1	MONTGOMERY	F	70	1	BALTIMORE
F	56	1	BALTIMORE CITY	F	58	1	MONTGOMERY	F	73	1	BALTIMORE
F	57	1	BALTIMORE CITY	M	32	1	MONTGOMERY	F	77	1	BALTIMORE
F	59	1	BALTIMORE CITY	U	19	1	MONTGOMERY	F	78	2	BALTIMORE
F	60	1	BALTIMORE CITY	U	39	1	MONTGOMERY	F	79	1	BALTIMORE
F	61	1	BALTIMORE CITY	U	20	1	PRINCE GEORGE'S	F	82	1	BALTIMORE
M	0	5	BALTIMORE CITY	U	39	1	PRINCE GEORGE'S	F	86	1	BALTIMORE
M	1	4	BALTIMORE CITY	F	0	2	PRINCE GEORGE'S	F	88	1	BALTIMORE
M	13	1	BALTIMORE CITY	F	1	2	PRINCE GEORGE'S	F	90	1	BALTIMORE
M	15	1	BALTIMORE CITY	F	2	1	PRINCE GEORGE'S	F	95	1	BALTIMORE
M	17	1	BALTIMORE CITY	F	27	1	PRINCE GEORGE'S	M	60	1	BALTIMORE
M	19	1	BALTIMORE CITY	F	29	1	PRINCE GEORGE'S	M	72	1	BALTIMORE
M	2	1	BALTIMORE CITY	F	32	1	PRINCE GEORGE'S	M	75	1	BALTIMORE
M	21	1	BALTIMORE CITY	F	39	1	PRINCE GEORGE'S	M	77	1	BALTIMORE
M	23	2	BALTIMORE CITY	F	42	1	PRINCE GEORGE'S	M	79	1	BALTIMORE
M	26	3	BALTIMORE CITY	F	44	1	PRINCE GEORGE'S	M	85	1	BALTIMORE
M	27	1	BALTIMORE CITY	F	57	1	PRINCE GEORGE'S	U	83	1	BALTIMORE
M	30	1	BALTIMORE CITY	M	0	1	PRINCE GEORGE'S	U	1	1	BALTIMORE CITY
M	31	1	BALTIMORE CITY	M	26	1	PRINCE GEORGE'S	U	28	1	BALTIMORE CITY
M	32	2	BALTIMORE CITY	M	29	1	PRINCE GEORGE'S	U	32	1	BALTIMORE CITY
M	33	1	BALTIMORE CITY	M	31	1	PRINCE GEORGE'S	U	37	1	BALTIMORE CITY
M	46	1	BALTIMORE CITY	M	43	1	PRINCE GEORGE'S	U	43	1	BALTIMORE CITY
M	49	1	BALTIMORE CITY	M	47	1	PRINCE GEORGE'S	U	52	2	BALTIMORE CITY
M	51	4	BALTIMORE CITY	M	6	1	PRINCE GEORGE'S	U	64	1	BALTIMORE CITY
M	56	1	BALTIMORE CITY	M	23	1	SOMERSET	U	70	1	BALTIMORE CITY
M	58	1	BALTIMORE CITY	F	29	1	TALBOT	F	0	9	BALTIMORE CITY
M	64	1	BALTIMORE CITY	F	48	1	TALBOT	F	1	3	BALTIMORE CITY
F	0	3	CALVERT	F	54	1	TALBOT	F	100	1	BALTIMORE CITY
F	2	2	CALVERT	F	56	1	TALBOT	F	14	1	BALTIMORE CITY
F	27	1	CALVERT	M	34	1	TALBOT	F	19	1	BALTIMORE CITY
F	38	1	CALVERT	F	19	1	WICOMICO	F	22	1	BALTIMORE CITY
F	4	2	CALVERT	F	20	1	WICOMICO	F	24	1	BALTIMORE CITY
F	5	1	CALVERT	F	21	1	WICOMICO	F	26	1	BALTIMORE CITY
F	51	1	CALVERT	F	22	1	WICOMICO	F	3	1	BALTIMORE CITY
F	6	1	CALVERT	M	21	1	WICOMICO	F	30	1	BALTIMORE CITY
M	0	1	CALVERT	M	66	1	WICOMICO	F	31	1	BALTIMORE CITY
M	1	1	CALVERT	INFLUENZA 2009 A/H1 AND A(H3)			F	32	1	BALTIMORE CITY	
M	32	1	CALVERT	M	4	1	BALTIMORE CITY	F	37	1	BALTIMORE CITY
M	41	1	CALVERT	M	46	1	BALTIMORE CITY	F	4	1	BALTIMORE CITY
M	46	1	CALVERT	F	18	1	CHARLES	F	41	1	BALTIMORE CITY
M	53	1	CALVERT	F	6	1	CHARLES	F	45	1	BALTIMORE CITY
M	62	1	CALVERT	F	27	1	PRINCE GEORGE'S	F	47	2	BALTIMORE CITY
M	8	2	CALVERT	INFLUENZA A(H3)			F	49	1	BALTIMORE CITY	
F	31	1	CECIL	F	22	1	ALLEGANY	F	50	1	BALTIMORE CITY
M	10	1	CECIL	F	4	1	ALLEGANY	F	51	1	BALTIMORE CITY
M	49	1	CECIL	F	75	1	ALLEGANY	F	52	1	BALTIMORE CITY
U	1	1	CHARLES	F	80	1	ALLEGANY	F	56	2	BALTIMORE CITY
U	16	1	CHARLES	F	83	1	ALLEGANY	F	62	1	BALTIMORE CITY
U	2	1	CHARLES	M	0	1	ALLEGANY	F	63	1	BALTIMORE CITY
F	0	1	CHARLES	M	2	1	ALLEGANY	F	68	1	BALTIMORE CITY
F	16	1	CHARLES	M	27	1	ALLEGANY	F	69	1	BALTIMORE CITY
F	2	1	CHARLES	M	46	1	ALLEGANY	F	77	1	BALTIMORE CITY
F	20	1	CHARLES	M	47	1	ALLEGANY	F	80	1	BALTIMORE CITY
F	21	1	CHARLES	M	5	1	ALLEGANY	F	84	1	BALTIMORE CITY
F	29	1	CHARLES	M	69	2	ALLEGANY	F	91	1	BALTIMORE CITY
F	38	1	CHARLES	M	88	1	ALLEGANY	M	0	6	BALTIMORE CITY
F	7	2	CHARLES	F	33	1	ANNE ARUNDEL	M	1	2	BALTIMORE CITY
M	0	1	CHARLES	F	53	1	ANNE ARUNDEL	M	10	1	BALTIMORE CITY
M	14	1	CHARLES	F	81	1	ANNE ARUNDEL	M	13	1	BALTIMORE CITY

M	14	1	BALTIMORE CITY
M	17	1	BALTIMORE CITY
M	18	1	BALTIMORE CITY
M	2	3	BALTIMORE CITY
M	22	1	BALTIMORE CITY
M	23	1	BALTIMORE CITY
M	28	1	BALTIMORE CITY
M	29	1	BALTIMORE CITY
M	3	2	BALTIMORE CITY
M	30	1	BALTIMORE CITY
M	33	2	BALTIMORE CITY
M	36	1	BALTIMORE CITY
M	47	2	BALTIMORE CITY
M	48	2	BALTIMORE CITY
M	5	3	BALTIMORE CITY
M	50	1	BALTIMORE CITY
M	58	1	BALTIMORE CITY
M	67	1	BALTIMORE CITY
M	68	1	BALTIMORE CITY
M	69	1	BALTIMORE CITY
M	78	1	BALTIMORE CITY
M	9	1	BALTIMORE CITY
M	92	1	BALTIMORE CITY
F	18	1	CALVERT
F	3	1	CALVERT
F	6	1	CALVERT
M	0	1	CALVERT
M	10	1	CALVERT
F	0	1	CECIL
F	34	1	CECIL
F	54	1	CECIL
M	39	1	CECIL
M	54	1	CECIL
U	46	1	CHARLES
F	24	1	CHARLES
F	34	1	CHARLES
F	37	1	CHARLES
M	0	1	CHARLES
M	10	1	CHARLES
M	2	1	CHARLES
M	31	1	CHARLES
M	9	1	CHARLES
M	67	1	DORCHESTER
F	69	1	FREDERICK
F	78	1	FREDERICK
F	91	1	FREDERICK
M	69	1	FREDERICK
M	74	1	FREDERICK
M	75	1	FREDERICK
M	76	1	FREDERICK
F	53	1	GARRETT
F	79	1	GARRETT
F	88	1	GARRETT
F	90	1	GARRETT
F	95	1	GARRETT
M	13	1	GARRETT
F	37	1	HARFORD
M	90	1	HOWARD
F	79	1	MONTGOMERY
M	0	1	MONTGOMERY
M	54	1	MONTGOMERY
M	87	1	MONTGOMERY
M	90	1	MONTGOMERY
F	0	2	PRINCE GEORGE'S
F	12	1	PRINCE GEORGE'S
F	2	1	PRINCE GEORGE'S
F	31	1	PRINCE GEORGE'S
F	65	1	PRINCE GEORGE'S

F	89	1	PRINCE GEORGE'S
M	0	1	PRINCE GEORGE'S
M	26	1	PRINCE GEORGE'S
M	53	1	PRINCE GEORGE'S
F	39	1	TALBOT
F	82	1	WASHINGTON
F	29	1	WICOMICO
F	5	1	WICOMICO
F	59	1	WICOMICO
M	21	1	WICOMICO
M	85	1	WICOMICO

INFLUENZA B VIRUS

M	15	1	ALLEGANY
F	31	1	ANNE ARUNDEL
M	2	1	ANNE ARUNDEL
F	21	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	30	1	BALTIMORE CITY
F	42	1	CALVERT
F	9	1	CHARLES
U	1	1	PRINCE GEORGE'S
F	94	1	PRINCE GEORGE'S
M	25	1	WICOMICO

TOTAL 446

VIRAL HEPATITIS

ORGANISM			
	# SPECIMENS	# POSITIVES	JURISDICTION
HEPATITIS A	1	0	MONTGOMERY
SUBTOTAL	1	0	
HEPATITIS B			
	51	1	ALLEGANY
	115	2	ANNE ARUNDEL
	45	0	BALTIMORE
	348	1	BALTIMORE CITY
	3	0	CALVERT
	11	0	CARROLL
	113	0	CECIL
	2	0	CHARLES
	23	0	FREDERICK
	8	0	GARRETT
	20	0	HARFORD
	17	0	HOWARD
	2	0	KENT
	321	2	MONTGOMERY
	291	6	PRINCE GEORGE'S
	5	0	QUEEN ANNE'S
	19	0	SAINT MARY'S
	1	0	SOMERSET
	3	0	TALBOT
	1	0	UNKNOWN
	49	0	WASHINGTON
	79	0	WICOMICO
	1	0	WORCESTER
SUBTOTAL	1,528	12	

HEPATITIS C

	48	9	ALLEGANY
	131	27	ANNE ARUNDEL
	54	2	BALTIMORE
	171	42	BALTIMORE CITY
	4	0	CALVERT
	12	2	CARROLL
	70	13	CECIL
	4	2	CHARLES
	25	0	FREDERICK
	9	0	GARRETT
	28	1	HARFORD
	11	1	HOWARD
	1	1	KENT
	74	1	MONTGOMERY
	146	6	PRINCE GEORGE'S
	4	1	QUEEN ANNE'S
	19	1	SAINT MARY'S
	2	0	SOMERSET
	3	0	TALBOT
	47	4	WASHINGTON
	12	0	WICOMICO
	1	1	WORCESTER

SUBTOTAL 876 114

TOTALS 2,405 126

RABIES

SOURCE	#	JURISDICTION
FOX	1	BALTIMORE
RACCOON	1	CARROLL
	1	CHARLES
	2	FREDERICK
	1	MONTGOMERY
	1	QUEEN ANNE'S
SKUNK	1	FREDERICK
	2	WASHINGTON

TOTAL POSITIVES 10

TOTAL SPECIMENS 198

CHLAMYDIOPHILIA PSITTACI (CHLAMYDIA)

REPORTED QUARTERLY
NO REPORT THIS MONTH

CD4 FLOW CYTOMETRY WORKLOAD

REPORTED QUARTERLY
NO REPORT THIS MONTH

NEWBORN & CHILDHOOD SCREENING

PRESUMPTIVE POSITIVES

DISORDERS	#
PHENYLKETONURIA (PKU)	0
MAPLE SYRUP URINE DISEASE (MSUD)	4
HOMOCYSTINURIA	13
TYROSINEMIA	14
ARGININEMIA	3
CITRULLINEMIA	2
GALACTOSEMIA	0
BIOTINIDASE DEFICIENCY	0
HYPOTHYROIDISM	49
HEMOGLOBIN -DISEASE	19
HEMOGLOBIN -BENIGN	524
CONGENITAL ADRENAL HYPERPLASIA (CAH)	8
CYSTIC FIBROSIS	2
FATTY ACID OXIDATIONS	26
ORGANIC ACIDEMIAS	10
ACYLCARNITINE - BORDERLINE	6
ACYLCARNITINE - OTHERS	0
MONTHLY TOTALS	
# OF SPECIMENS SCREENED	11,883
NUMBER OF TESTS	756,467
% UNSATISFACTORY SPECIMENS	2.5

2011 YEAR-TO-DATE CONFIRMED CASES

CONDITIONS	# CONFIRMED
MEDIUM CHAIN ACYL-CoA DEHYDROGENASE DEFICIENCY (MCAD)	1
HYPOTHYROIDISM - PRIMARY	3
OTHER HYPOTHYROIDISM	1
TBG DEFICIENCY	2
SICKLE CELL DISEASE -SS	2

ENVIRONMENTAL CHEMISTRY

SAMPLE TYPES	# NON-COMPLIANT	# TESTED
ASBESTOS		
AIR	0	0
BULK	0	2
AIR QUALITY		
PM 2.5	0	364
RADIATION		
AIR/CHARCOAL FILTERS	0	72
MILK	0	2
WIPES	0	75
RAW WATER	0	3
VEGETATION	0	0
OTHER	0	0
DRINKING WATER		
METALS		
COMMUNITY	5	16
NON-COMMUNITY	1	13
PRIVATE WELLS	14	105
PESTICIDES & PCBs		
COMMUNITY	0	6
NON-COMMUNITY	0	6
PRIVATE WELLS	0	6
VOLATILE ORGANIC COMPOUNDS		
COMMUNITY	0	47
NON-COMMUNITY	0	35
PRIVATE WELLS	0	22
RADIATION		
COMMUNITY	2	42
NON-COMMUNITY	0	0
PRIVATE WELLS	0	11
INORGANICS		
COMMUNITY	0	14
NON-COMMUNITY	11	152
PRIVATE WELLS	4	126
FOOD CHEMISTRY		
SUSPECTED TAMPERING	0	0
MICROSCOPIC FILTH	0	0
LABELING	0	0
SURVEILLANCE	0	0
CHEMICAL CONTAMINATION	0	0
TOTAL	37	1,119

VIRAL LOAD SPECIMENS					
HIV-1 RNA COPIES/ML	<10 ³	10 ³ —10 ⁴	10 ⁴ —10 ⁵	>10 ⁵	TOTALS
ALLEGANY	11	0	1	0	12
CARROLL	1	0	0	0	1
FREDERICK	1	2	3	0	6
MONTGOMERY	67	3	2	1	73
PRINCE GEORGE'S	104	12	15	4	135
SOMERSET	1	0	0	0	1
WICOMICO	1	0	1	0	2
SUBTOTALS	186	17	22	5	230
DEPARTMENT OF CORRECTIONS	2	0	0	0	2
TOTALS	188	17	22	5	232

HIV ANTIBODY SCREENING					
SUBMITTER	TOTAL SPECIMENS	#EIA POSITIVE	% EIA POSITIVE	#WB POSITIVE	% WB POSITIVE
CORRECTION FACILITY JUVENILE	59	0	0.00%	0	0.00%
CORRECTIONAL INSTITUTIONS	209	1	0.48%	1	100.00%
FAMILY PLANNING (NON-GOVERNMENT)	63	0	0.00%	0	0.00%
HEALTH CENTERS (NON-GOVERNMENT)	347	32	9.22%	32	100.00%
HLTH DEPT, NON-STD, FAMILY PLANNING	313	2	0.64%	2	100.00%
HLTH DEPT, NON-STD, OB/GYN	87	2	2.30%	0	0.00%
HLTH DEPT, NON-STD, OTHER	494	50	10.12%	48	96.00%
HLTH DEPT, STD CLINICS	1,005	22	2.19%	15	68.18%
HOSPITAL, OTHER	135	14	10.37%	12	85.71%
HOSPITAL, PUBLIC	22	0	0.00%	0	0.00%
LABORATORIES (NON-HOSPITAL)	298	10	3.36%	7	70.00%
PEDIATRIC - CHILD HEALTH	3	0	0.00%	0	0.00%
PRIVATE STUDENT HEALTH CTRS	15	0	0.00%	0	0.00%
PUBLIC STUDENT HEALTH CTRS	104	0	0.00%	0	0.00%
TOTALS	3,154	133	4.22%	117	87.97%



MAILING LABEL

Critical Link
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