

CRITICAL LINK



A Publication of the
Maryland Department of
Health and Mental Hygiene

The Laboratories Administration—Maryland's State Public Health Laboratory

Regulation of Near-patient Testing

Letter of exception - a valuable tool helping to diagnose disease

Regulation of medical laboratories is intended to promote quality and protect the public health. Maryland provides two licensing mechanisms that accomplish this: a permit to operate a medical laboratory, and a letter of permit exception, commonly referred to as a letter of exception. The focus of this article is to explain how the letter of

exception provides a regulatory mechanism for testing quality, and assures access to the tools necessary to diagnose, treat, and prevent disease.

On June 1, 2009, two more tests were added to the department's list of excepted tests. One is related to testing for bladder cancer and the other for detecting and monitoring heart disease. The bladder cancer test is a qualitative enzyme immunoassay (EIA) test for bladder cancer markers. It detects human complement factor H-related protein or nuclear mitotic apparatus protein (NMP) in voided urine. The test for heart disease uses a whole blood specimen to detect brain natriuretic peptide (BNP), a cardiac neuro-hormone made by the heart that indicates how well the heart is working. The test results can be used to diagnose heart disease or to measure the response of treatment for heart failure.¹ Both tests may be performed by a laboratory licensed with a letter of exception.

NEW! Guide to Public Health Laboratory Services

On July 1, 2009, the Laboratories Administration will release the newest updated "Guide to Public Health Laboratory Services."

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tions, quality assurance programs, proficiency testing and reliance on on-site inspections for oversight.

This is in distinct contrast to the letter of exception which has no routine inspection or proficiency testing requirements. The focus of the letter of exception is the test itself, as opposed to laboratory operation. Near-patient testing has become a vital component of our health care delivery system and the ability to obtain a letter of exception allows Marylanders greater access to this type of testing.

(Continued on page 2)

Table 1. Licensing eligibility. Source: COMAR 10.10.03.01C

License:	Laboratory that may apply for the license:
Letter of exception	Physician office laboratory (POL) Point-of-care laboratory (POCL)
Permit (single-site)	POL POCL State, county, or municipal hospital, commercial
Permit (multi-site)	State, county, or municipal hospital private nonprofit mobile

The permit to operate a laboratory has followed traditional laboratory-centric regulatory oversight that began back in the late 1960's.² These regulatory standards have grown to include quality control, personnel qualifica-

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(Continued from page 1)
Regulation of Near-Patient Testing

Change in Technology

Beginning in the late 1980's, laboratory testing began to move closer to the patient through the use of qualitative tests such as urine dipsticks and highly specific miniaturized quantitative systems such as whole-blood glucose meters. Miniaturization of electronics and improved direct specimen testing technology (e.g., whole blood, urine, throat and nasal swabs, etc.) continued through the 1990's, making point-of-care testing (POCT) a major component of medical testing.³ Now, almost at the end of the first decade of the new millennium modern POCT devices have improved significantly. Many have overcome limitations in automation, information management, and portability, and have expanded test menus.

Coupled with these changes in technology, was the desire to have rapid availability of test results for better clinical management of patients. In theory at least, this rapid availability of test results can lead to improved clinical and economical outcome of patient health care. Laboratory tests are central to modern health care. However, time taken to collect a specimen, send the specimen for testing at a laboratory, and waiting to receive a test result often fragment care and therefore can negatively impact patient outcomes.⁴

Regulatory Oversight: Permit vs. Letter of Exception

The permit to operate a laboratory is oversight directed at a centralized laboratory system responsible for performing a broad range of tests, from the simple to highly complex. Requirements for a permit are cited in the Code of Maryland Regulations (COMAR) 10.10.03.03C and include compliance with standards for inspections, quality assurance and quality control, proficiency testing, and personnel. In contrast, the letter of exception oversight is aimed at near-

Table 2. Licensing requirements

REQUIREMENTS	LETTER OF EXCEPTION	PERMIT
Limited Test Menu	YES	NO
Routine Inspection	NO	YES
Proficiency Testing	NO	YES
Testing Personnel	NO	YES
Complaint Inspection	YES	YES

patient or POCT testing when testing is performed by a variety of non-laboratory health care personnel at the patients' bedside or in an ambulatory care setting such as a physician's office, clinic, or even at home. In contrast, a letter of exception has no requirements for routine inspections, proficiency testing, or personnel who perform an excepted test, and a lower licensing fee. One common requirement is that for both the permit and letter of exception the Department may inspect the licensee to investigate a complaint or determine the scope of the license (e.g., checking the test menu for the license, etc.) (see table 2). Because of this difference, quality management through regulatory means for POCT necessarily begins with selection of the test systems used to perform the tests.

The licensing mechanism for a letter of exception is centered on an evaluation of a particular test method or system using criteria designed to pre-determine the quality of the test results, regardless of where or by whom the test is performed. The criteria also consider issues of where in the overall testing process potential errors occur.

Federal Clinical Laboratory Improvement Amendments (CLIA) laboratory certification program statistics show that most errors occur in the pre-analytic and post-analytic phases of testing and less frequently in the analytic phase. The pre-analytic phase involves specimen collection and handling and the post-analytic phase involves review of test results (patient and quality control) and documentation of the test results. With POCT, pre-analytic errors such as patient identification or specimen quality are often minimized because the testing is

actually performed in the presence of the patient. POCT devices or systems represent variable levels of risk to the patients because of the possibility of false-positive or false-negative results. These risks are amplified if the staff performing the tests are not properly trained or supervised for test performance or quality control.³ The procedure for consideration to give a test excepted status includes criteria that considers these risks.

The procedure to consider a test for excepted status begins with a written request from the Secretary, Med-Chi, or other medical society in the State, asking the Laboratory Advisory Committee (LAC) to consider a test for excepted test status.⁵ The LAC is a group of experts appointed by the Secretary to advise the Secretary on matters related to implementing provisions of Maryland laboratory law and to make recommendations on whether a test should be excepted or not.⁶ The test requested for excepted status must:

1. Be waived under CLIA, either by the CDC or the FDA;
2. Employ a directly collected specimen (not subjected to post collection manipulation or processing); and
3. Be a manual test or single use test device.⁷

After determining the test is eligible to be considered, the LAC will then provide a recommendation for or against excepted status based on the following criteria:⁸

- Immediate patient need for the test in order to provide rapid follow-up, order additional tests, or make an immediate diagnostic or therapeutic decision;
- Whether the test is core to the physician's practice based on physician specialty, usefulness of the test in the specialty, and who actually performs the test;
- Access, applicability, and ease of performance by personnel in a

physician's office or point-of-care setting;

- Whether all analytes testable on a multi-test, single use test device are recommended for excepted status;
- Consideration of the known benefits and risks of the test or test system, especially those involving an infectious disease; and
- The potential harm to a patient if the test is performed incorrectly or produces a false positive or false negative test result.

Point-of-care testing has been shown to reduce time to medical intervention, improve patient management and treatment. The immediate availability of test data can be a definite advantage in many clinical situations. However, inaccurate or incorrect test results can create additional problems for both physician and patient.⁹ This is why there needs to be a careful evaluation of the test being considered for excepted test status to promote quality and protect patient health.

This article was written by Michael Wajda, M.S., J.D.

References

- ¹ *UCLA Diagnostic Module-2001*, B-type Natriuretic Peptide Assay, www.med.ucla.edu/champ/BNP%20Assay.pdf.
- ² Health General Article §§ 17-201 et seq.; Clinical Laboratory Improvement Amendments (CLIA) 1967; Clinical Laboratory Improvement Act of 1967 [Public Law 90-174], later amended by Clinical Laboratory Improvement Amendments of 1988 [Public Law 100-578] that revised section 353 of the PHS Act (42 U.S.C. 263a) amending CLIA-67 by expanding the Department of HHS's authority from regulation of laboratories that only accepted and tested specimens in interstate commerce to the regulation of any laboratory that tested specimens for the diagnosis, prevention, or treatment of any disease or impairment of, or the assessment of the health of human beings.
- ³ Pasternak, D.P., "Bedside (Point-of-Care) Testing in Hospitals: the Joint Commission International Perspective," *Journal of Near-patient Testing and Technology*, Dec 2008, Vol. 7, Issue 4. pp 233-238.
- ⁴ Robertson-Malt, S., Ph.D., "Nursing Role in Point-of-Care Testing," *Journal of Near-Patient*

Testing and Technology Dec-2008, Vol. 7, Issue 4, pp 246-247.

⁵ COMAR 10.10.02.01E. Recommending Excepted Test Status.

⁶ Health-General Article § 17-217. Laboratory Advisory Committee.

⁷ COMAR 10.10.02.01E(3) (b), (c) and (d).

⁸ COMAR 10.10.02.01E (4)(a)-(f) Recommending Excepted Status.

⁹ Institute of Medicine Report: IOM, "To Err is Human: Building a Safer Health System." 1999.

Laboratory Statistics

Reported from the
Laboratories Administration
during the month of

ENTERIC BACTERIOLOGY

GENUS SEROVAR		SEX	AGE	#	JURISDICTION
CAMPYLOBACTER JEJUNI					
M	0	1			ALLEGANY
F	43	1			ANNE ARUNDEL
F	40	1			BALTIMORE
M	47	1			BALTIMORE
M	31	2			BALTIMORE
F	76	1			BALTIMORE CITY
F	7	1			CECIL
M	21	1			OUT OF STATE
CAMPYLOBACTER JEJUNI SS DOYLEI					
F	60	1			TALBOT
ESCHERICHIA COLI, SEROTYPE O103:H2					
U	26	1			OUT OF STATE
F	18	1			OUT OF STATE
F	5	1			OUT OF STATE
M	2	1			OUT OF STATE
F	29	1			OUT OF STATE
SALMONELLA					
M	48	1			ANNE ARUNDEL
F	5	1			BALTIMORE CITY
M	50	1			BALTIMORE CITY
U	38	1			CARROLL
F	68	1			HARFORD
F	34	1			HARFORD

F	1	1	MONTGOMERY
SALMONELLA 6,7:-:1,5			
F	46	1	OUT OF STATE
F	0	1	OUT OF STATE
F	49	1	OUT OF STATE
SALMONELLA BERTA			
F	48	1	BALTIMORE CITY
SALMONELLA DERBY			
F	0	1	BALTIMORE
F	31	1	OUT OF STATE
F	11	1	OUT OF STATE
SALMONELLA DUBLIN			
F	48	1	BALTIMORE CITY
SALMONELLA ENTERITIDIS			
F	0	1	ALLEGANY
F	37	1	BALTIMORE
M	0	1	BALTIMORE
M	41	1	BALTIMORE
M	2	1	BALTIMORE
M	0	1	BALTIMORE
U	0	1	BALTIMORE CITY
F	0	1	BALTIMORE CITY
F	82	3	BALTIMORE CITY
F	43	1	BALTIMORE CITY
F	25	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	59	1	BALTIMORE CITY
M	50	1	BALTIMORE CITY
M	48	1	BALTIMORE CITY
M	45	1	BALTIMORE CITY
M	38	1	BALTIMORE CITY
M	32	1	BALTIMORE CITY
M	20	1	BALTIMORE CITY
M	10	1	BALTIMORE CITY
M	7	1	BALTIMORE CITY
M	5	1	BALTIMORE CITY
M	3	1	BALTIMORE CITY
F	60	1	CECIL
F	73	1	FREDERICK
F	2	1	FREDERICK
F	1	1	MONTGOMERY
F	0	1	MONTGOMERY
U	0	1	OUT OF STATE
F	2	1	OUT OF STATE
M	83	1	OUT OF STATE
M	52	1	OUT OF STATE
F	34	1	PRINCE GEORGE'S
M	52	1	PRINCE GEORGE'S
F	78	1	TALBOT
F	1	1	UNKNOWN
SALMONELLA HEIDELBERG			
M	77	4	TALBOT
F	9	3	WASHINGTON
SALMONELLA INFANTIS			
F	72	2	BALTIMORE CITY
SALMONELLA JAVIANA			
U	22	1	CARROLL
SALMONELLA ORANIENBURG			
F	23	1	TALBOT
SALMONELLA SER 4,12:I:-			
M	40	3	BALTIMORE CITY
SALMONELLA SER 4,5,12:I:-			
M	77	1	ANNE ARUNDEL
M	9	1	BALTIMORE

F	39	1	MONTGOMERY
SALMONELLA SER TYPHIMURIUM			
M	2	1	ALLEGANY
F	0	1	BALTIMORE CITY
F	5	1	BALTIMORE CITY
M	68	2	CHARLES
F	0	1	MONTGOMERY
F	13	1	MONTGOMERY
M	6	1	OUT OF STATE
U	68	1	UNKNOWN
M	28	1	WICOMICO
SALMONELLA THOMPSON			
M	25	1	MONTGOMERY
SALMONELLA TYPHIMURIUM			
VAR COPENHAGEN			
M	4	1	OUT OF STATE
M	2	1	OUT OF STATE
M	2	1	WICOMICO
SALMONELLA UGANDA			
F	0	1	PRINCE GEORGE'S
SHIGELLA FLEXNERI			
F	31	1	BALTIMORE CITY
F	34	2	PRINCE GEORGE'S
M	6	1	TALBOT
SHIGELLA FLEXNERI II:3,4			
M	42	1	BALTIMORE
F	0	1	BALTIMORE
F	8	1	BALTIMORE
F	2	1	BALTIMORE
SHIGELLA SONNEI			
F	9	1	BALTIMORE CITY
F	2	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	2	1	BALTIMORE CITY
M	1	1	BALTIMORE CITY
M	8	1	HARFORD
F	3	1	MONTGOMERY
M	13	1	OUT OF STATE
M	0	1	OUT OF STATE
M	4	1	PRINCE GEORGE'S
F	2	1	TALBOT
F	49	1	UNKNOWN
VIBRIO MIMICUS			
M	44	1	BALTIMORE CITY
TOTAL 121			

ISOLATES - REFERENCE

GENUS SPECIES			
SOURCE	#	JURISDICTION	
BACILLUS CEREUS			
TISSUE	1	BALTIMORE CITY	
CORYNEBACTERIUM			
PSEUDOTUBERCULOSIS			
ABSCCESS	1	FREDERICK	
CORYNEBACTERIUM XEROSIS			
WOUND	1	WICOMICO	
ENTEROCOCCUS FAECIUM			
URINE	1	WICOMICO	
WOUND	1	WICOMICO	

ESCHERICHIA COLI			
WOUND	1	HARFORD	
URINE	1	WICOMICO	
HAEMOPHILUS INFLUENZAE			
URINE	1	BALTIMORE CITY	
KLEBSIELLA PNEUMONIAE			
UNKNOWN	1	PRINCE GEORGE'S	
URINE	1	PRINCE GEORGE'S	
HIP	1	WICOMICO	
SPUTUM	2	WICOMICO	
URINE	1	WICOMICO	
WOUND	1	WICOMICO	
NEISSERIA MENINGITIDIS			
TRACHA	1	WICOMICO	
PROTEUS MIRABILIS			
UNKNOWN	1	CARROLL	
STAPHYLOCOCCUS AUREUS			
UNKNOWN	1	BALTIMORE CITY	
CSF	1	BALTIMORE CITY	
PLACENTA	1	BALTIMORE CITY	
BLOOD	1	MONTGOMERY	
UNKNOWN	2	TALBOT	
WOUND	1	WICOMICO	
STREPTOCOCCUS MITIS			
UNKNOWN	1	BALTIMORE CITY	
STREPTOCOCCUS MITIS GROUP			
UNKNOWN	1	BALTIMORE CITY	
STREPTOCOCCUS, GROUP G			
BLOOD	1	BALTIMORE	
TOTAL 27			

ISOLATES - MISCELLANEOUS

GENUS SPECIES			
SOURCE	#	JURISDICTION	
ACINETOBACTER CALCOACETICUS-			
ACINETOBACTER BAUMANNI COMPLEX			
TOE	1	FREDERICK	
ACINETOBACTER LWOFFI			
BLOOD	1	BALTIMORE CITY	
WOUND	1	FREDERICK	
CITROBACTER KOSERI			
VAGINAL	1	SOMERSET	
CORYNEBACTERIUM SPECIES			
WOUND	1	WASHINGTON	
ENTEROBACTER CLOACAE			
WOUND	1	FREDERICK	
ENTEROCOCCUS FAECALIS			
WOUND	1	WASHINGTON	
ESCHERICHIA COLI			
BLOOD	1	BALTIMORE CITY	
CSF	1	BALTIMORE CITY	
WOUND	1	CARROLL	
FOOT	1	FREDERICK	
WOUND	1	FREDERICK	
WOUND	1	WASHINGTON	
GARDNERELLA VAGINALIS			
VAGINAL	1	FREDERICK	
VAGINAL	1	GARRETT	
VAGINAL	1	MONTGOMERY	

CERVIX	2	PRINCE GEORGE'S
VAGINAL	3	PRINCE GEORGE'S
VAGINAL	2	SOMERSET
VAGINAL	2	SOMERSET
KLEBSIELLA PNEUMONIAE		
WOUND	1	CARROLL
PEPTOSTREPTOCOCCUS ANAEROBIUS		
SKIN	1	MONTGOMERY
PSEUDOMONAS AERUGINOSA		
WOUND	2	CARROLL
WOUND	3	FREDERICK
SPUTUM	1	WASHINGTON
WOUND	1	WASHINGTON
PSEUDOMONAS LUTEOLA		
WOUND	1	FREDERICK
STAPHYLOCOCCUS AUREUS		
BLOOD	1	BALTIMORE CITY
LINE	3	BALTIMORE CITY
WOUND	1	BALTIMORE CITY
WOUND	1	BALTIMORE CITY
WOUND	1	CARROLL
TOE	1	FREDERICK
WOUND	4	FREDERICK
VAGINAL	1	PRINCE GEORGE'S
WOUND	1	PRINCE GEORGE'S
STAPHYLOCOCCUS EPIDERMIDIS		
BLOOD	1	WASHINGTON
STAPHYLOCOCCUS, COAGULASE NEGATIVE		
WOUND	1	ALLEGANY
BLOOD	1	BALTIMORE CITY
CSF	2	BALTIMORE CITY
PERINEUM	1	GARRETT
STREPTOCOCCUS		
BETA HEMOLYTIC GROUP A		
THROAT	1	ALLEGANY
BLOOD	2	BALTIMORE CITY
THROAT	1	BALTIMORE CITY
WOUND	1	BALTIMORE CITY
THROAT	2	MONTGOMERY
THROAT	1	SOMERSET
THROAT	3	WICOMICO
STREPTOCOCCUS		
BETA HEMOLYTIC NON-GROUP A		
THROAT	9	ALLEGANY
THROAT	9	SOMERSET
THROAT	15	WICOMICO
STREPTOCOCCUS		
BETA HEMOLYTIC GROUP B		
VAGINAL	1	ANNE ARUNDEL
VAGINAL	1	ANNE ARUNDEL
VAGINAL	4	HOWARD
VAGINAL	6	MONTGOMERY
CERVIX	1	PRINCE GEORGE'S
VAGINAL	1	PRINCE GEORGE'S
VAGINAL	1	PRINCE GEORGE'S
VAGINAL	10	PRINCE GEORGE'S
VAGINAL	5	SOMERSET
VAGINAL	2	SOMERSET
VAGINAL	1	SOMERSET
STREPTOCOCCUS MILLERI GROUP C		
BLOOD	3	BALTIMORE CITY
TOTAL	135	

SEXUALLY TRANSMITTED DISEASES

GENUS SPECIES		
SEX	#	JURISDICTION
SYPHILIS SEROLOGY		
F	1	ALLEGANY
M	4	ALLEGANY
F	1	ANNE ARUNDEL
M	2	ANNE ARUNDEL
F	3	BALTIMORE
M	6	BALTIMORE
U	1	BALTIMORE
F	11	BALTIMORE CITY
M	26	BALTIMORE CITY
U	1	BALTIMORE CITY
F	1	CARROLL
M	3	CHARLES
F	1	DORCHESTER
M	1	DORCHESTER
F	4	MONTGOMERY
M	12	MONTGOMERY
U	2	MONTGOMERY
F	13	PRINCE GEORGE'S
M	30	PRINCE GEORGE'S
U	1	PRINCE GEORGE'S
F	1	UNKNOWN
F	1	WASHINGTON
F	7	WICOMICO
M	2	WICOMICO
TOTAL	135	
CHLAMYDIA TRACHOMATIS		
F	8	ALLEGANY
M	2	ALLEGANY
U	6	ALLEGANY
F	30	ANNE ARUNDEL
M	4	ANNE ARUNDEL
U	1	ANNE ARUNDEL
F	22	BALTIMORE
M	14	BALTIMORE
F	7	BALTIMORE CITY
M	48	BALTIMORE CITY
U	3	BALTIMORE CITY
F	5	CALVERT
F	1	CARROLL
F	1	CECIL
F	7	CHARLES
M	1	DORCHESTER
F	12	FREDERICK
M	2	FREDERICK
F	1	GARRETT
F	6	HARFORD
M	1	HARFORD
F	2	HOWARD
M	4	HOWARD
U	2	HOWARD
F	3	KENT
M	2	KENT
F	18	MONTGOMERY
M	6	MONTGOMERY
F	88	PRINCE GEORGE'S
M	44	PRINCE GEORGE'S
U	7	PRINCE GEORGE'S
F	1	QUEEN ANNE'S
F	4	SAINT MARY'S
F	3	SOMERSET
M	2	SOMERSET
U	2	SOMERSET
F	1	TALBOT

F	3	WASHINGTON
F	30	WICOMICO
M	9	WICOMICO
F	5	WORCESTER
M	1	WORCESTER

TOTAL 419

NEISSERIA GONORRHOEAE

F	1	ALLEGANY
F	1	BALTIMORE
M	3	BALTIMORE
M	1	CALVERT
F	1	CHARLES
F	1	KENT
M	1	MONTGOMERY
F	5	PRINCE GEORGE'S
M	26	PRINCE GEORGE'S
F	1	SOMERSET
F	1	WICOMICO
M	5	WICOMICO
F	1	WORCESTER
M	1	WORCESTER

TOTAL 49

MYCOBACTERIOLOGY

ISOLATE
SEX AGE # JURISDICTION

AEROBIC ACTINOMYCETE

F 71 1 ALLEGANY

MYCOBACTERIUM ABSCESSUS

F 48 3 BALTIMORE
M 69 1 BALTIMORE CITY
F 82 1 PRINCE GEORGE'S
M 62 1 WICOMICO

MYCOBACTERIUM AVIUM COMPLEX

F 53 1 ALLEGANY
F 61 2 ALLEGANY
F 66 2 ALLEGANY
F 67 1 ALLEGANY
M 41 1 ALLEGANY
M 46 1 ALLEGANY
M 2 1 ANNE ARUNDEL
U 78 1 BALTIMORE
F 88 1 BALTIMORE
M 80 1 BALTIMORE
U 2 1 BALTIMORE CITY
F 0 1 BALTIMORE CITY
F 22 1 BALTIMORE CITY
F 41 1 BALTIMORE CITY
F 79 1 BALTIMORE CITY
F 81 1 BALTIMORE CITY
F 83 1 BALTIMORE CITY
F 86 1 BALTIMORE CITY
M 22 2 BALTIMORE CITY
M 26 1 BALTIMORE CITY
M 75 1 BALTIMORE CITY
F 82 1 CARROLL
M 50 3 CARROLL
M 60 1 CARROLL
M 80 2 CARROLL
F 34 1 FREDERICK
F 103 2 MONTGOMERY
F 48 1 MONTGOMERY
F 73 1 MONTGOMERY
M 44 1 MONTGOMERY
M 47 1 MONTGOMERY
F 44 1 OUT OF STATE

M	54	2	PRINCE GEORGE'S
M	49	1	WICOMICO
M	51	1	WICOMICO
M	52	1	WICOMICO
M	61	1	WICOMICO
M	65	2	WICOMICO
M	77	1	WICOMICO
MYCOBACTERIUM FORTUITUM			
M	30	1	HARFORD
M	45	1	MONTGOMERY
M	48	1	MONTGOMERY
MYCOBACTERIUM FORTUITUM COMPLEX			
F	76	1	MONTGOMERY
MYCOBACTERIUM GORDONAE			
F	55	1	BALTIMORE
F	84	1	BALTIMORE CITY
M	49	1	BALTIMORE CITY
M	19	1	OUT OF STATE
M	54	1	OUT OF STATE
M	72	1	TALBOT
M	70	1	WICOMICO
MYCOBACTERIUM KANSASII			
M	31	1	BALTIMORE
MYCOBACTERIUM MARINUM			
M	42	1	ANNE ARUNDEL
M	29	1	BALTIMORE CITY
M	51	1	BALTIMORE CITY
MYCOBACTERIUM SZULGAI			
M	67	2	BALTIMORE CITY
MYCOBACTERIUM TUBERCULOSIS			
F	33	1	ANNE ARUNDEL
F	40	1	BALTIMORE
F	0	1	BALTIMORE CITY
M	46	1	BALTIMORE CITY
F	32	1	MONTGOMERY
F	48	1	MONTGOMERY
M	65	1	MONTGOMERY
F	29	1	OUT OF STATE
F	32	1	OUT OF STATE
F	50	2	OUT OF STATE
M	58	1	PRINCE GEORGE'S
M	58	1	TALBOT
M	90	1	WASHINGTON
MYCOBACTERIUM TUBERCULOSIS COMPLEX			
M	23	1	ANNE ARUNDEL
M	38	1	BALTIMORE
M	51	1	BALTIMORE
M	62	1	BALTIMORE
F	18	1	BALTIMORE CITY
F	22	1	BALTIMORE CITY
F	31	1	BALTIMORE CITY
M	28	4	MONTGOMERY
M	33	6	MONTGOMERY
M	34	1	MONTGOMERY
M	44	4	MONTGOMERY
M	49	1	MONTGOMERY
M	76	2	MONTGOMERY
F	32	3	OUT OF STATE
F	50	1	OUT OF STATE
F	66	1	OUT OF STATE
F	22	4	PRINCE GEORGE'S
F	27	2	PRINCE GEORGE'S
F	35	1	PRINCE GEORGE'S
F	38	1	PRINCE GEORGE'S
M	34	2	PRINCE GEORGE'S
M	58	3	TALBOT
M	90	1	WASHINGTON
MYCOBACTERIUM XENOPI			
M	67	1	BALTIMORE CITY
TOTAL 131			

MYCOBACTERIUM SUSCEPTIBILITY RESULTS

19 ISOLATES IDENTIFIED

3 DRUG RESISTANT STRAINS FOUND

#	JURISDICTION	DRUG(S)
2	PRINCE GEORGE'S	ISONIAZID
1	MONTGOMERY	ISONIAZID, PYRAZINAMIDE, ETHIONAMIDE, OFLOXACIN

^A TWO ISOLATES FROM THE SAME PATIENT

^B PROBABLE FOR M. BOVIS

^C MEETS CASE DEFINITION OF MULTI-DRUG TUBERCULOSIS (MDRTB)

Mycobacterium tuberculosis complex consists of:

M. tuberculosis
M. bovis
M. bovis, BCG
M. africanum
M. microti
M. canettii

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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.

MYCOLOGY

ISOLATE
SEX AGE # JURISDICTION

ABSIDIA SPECIES

M 0 1 ALLEGANY

ASPERGILLUS FLAVUS

F 67 1 ANNE ARUNDEL
F 62 1 PRINCE GEORGE'S
F 86 1 TALBOT

ASPERGILLUS FUMIGATUS

M 75 1 ANNE ARUNDEL
M 88 1 ANNE ARUNDEL
M 59 1 BALTIMORE CITY
F 87 1 CALVERT
F 83 2 MONTGOMERY
F 65 1 PRINCE GEORGE'S
M 64 1 TALBOT
M 80 1 TALBOT

ASPERGILLUS NIGER

F 83 1 TALBOT
M 57 1 TALBOT

ASPERGILLUS TERREUS

F 83 2 MONTGOMERY

ASPERGILLUS VERSICOLOR

F 53 1 PRINCE GEORGE'S

BISPORA SPECIES

M 57 1 TALBOT

CANDIDA ALBICANS

F 14 1 ANNE ARUNDEL
M 0 1 BALTIMORE
U 58 1 BALTIMORE CITY
F 46 2 BALTIMORE CITY
F 51 1 BALTIMORE CITY
F 59 1 BALTIMORE CITY
M 20 1 BALTIMORE CITY
M 22 1 BALTIMORE CITY
M 47 1 BALTIMORE CITY
M 62 2 BALTIMORE CITY
M 73 1 BALTIMORE CITY
F 27 2 GARRETT
F 20 1 MONTGOMERY
F 41 1 MONTGOMERY
F 43 1 MONTGOMERY
F 47 1 MONTGOMERY
F 50 1 MONTGOMERY
F 53 1 MONTGOMERY
F 83 1 MONTGOMERY
M 31 1 MONTGOMERY
M 33 1 MONTGOMERY
M 47 1 MONTGOMERY
U 0 1 PRINCE GEORGE'S
F 15 1 PRINCE GEORGE'S
F 21 1 PRINCE GEORGE'S
F 22 1 PRINCE GEORGE'S
F 28 1 PRINCE GEORGE'S
F 38 1 PRINCE GEORGE'S
F 43 2 PRINCE GEORGE'S
F 52 1 PRINCE GEORGE'S
F 56 1 PRINCE GEORGE'S
F 58 1 PRINCE GEORGE'S
F 59 1 PRINCE GEORGE'S
F 61 1 PRINCE GEORGE'S
F 65 1 PRINCE GEORGE'S
M 50 1 PRINCE GEORGE'S
M 53 1 PRINCE GEORGE'S
M 62 4 PRINCE GEORGE'S
M 66 1 PRINCE GEORGE'S
M 89 1 PRINCE GEORGE'S
U 20 1 SOMERSET
F 0 1 SOMERSET
F 18 2 SOMERSET
F 19 4 SOMERSET
F 20 3 SOMERSET
F 21 1 SOMERSET
F 22 1 SOMERSET

CANDIDA GLABRATA

M 50 1 BALTIMORE
M 89 1 BALTIMORE
F 46 2 BALTIMORE CITY
F 59 1 BALTIMORE CITY
M 47 2 BALTIMORE CITY
M 29 1 MONTGOMERY
M 71 1 MONTGOMERY
U 0 1 PRINCE GEORGE'S
F 0 1 PRINCE GEORGE'S
F 0 1 WICOMICO

CANDIDA KRUSEI

M 50 1 PRINCE GEORGE'S

CANDIDA PARAPSILOSIS

M 69 1 FREDERICK
F 38 2 PRINCE GEORGE'S
F 90 1 PRINCE GEORGE'S
M 53 1 PRINCE GEORGE'S

M	62	1	PRINCE GEORGE'S
F	25	1	SOMERSET
CANDIDA TROPICALIS			
F	103	1	MONTGOMERY
M	50	1	PRINCE GEORGE'S
M	97	1	PRINCE GEORGE'S
CRYPTOCOCCUS NEOFORMANS			
M	44	1	BALTIMORE CITY
FUSARIUM SPECIES			
M	46	2	ANNE ARUNDEL
F	58	1	FREDERICK
M	23	1	MONTGOMERY
METARHIZIUM SPECIES			
M	54	1	BALTIMORE CITY
MOLD			
M	53	1	BALTIMORE CITY
F	75	1	TALBOT
MYCELIA STERILIA			
M	33	1	MONTGOMERY
PAECILOMYCES SPECIES			
F	76	2	BALTIMORE
PENICILLIUM SPECIES			
F	79	1	ALLEGANY
M	66	1	ANNE ARUNDEL
M	33	1	MONTGOMERY
STREPTOMYCES SPECIES			
M	60	1	ANNE ARUNDEL
TRICHOPHYTON MENTAGROPHYTES			
F	9	1	TALBOT
TRICHOPHYTON RUBRUM			
M	55	1	BALTIMORE CITY
F	55	1	CECIL
TRICHOPHYTON TONSURANS			
M	5	1	ALLEGANY
F	12	1	BALTIMORE
F	2	1	BALTIMORE
M	1	1	BALTIMORE
F	6	1	BALTIMORE CITY
M	9	1	MONTGOMERY
F	6	1	TALBOT
TRICHOSPORON ASAHII			
M	62	1	BALTIMORE CITY
TOTAL	129		

PARASITOLOGY

GENUS/SPECIES	#	JURISDICTION
BLASTOCYSTIS HOMINIS		
	3	BALTIMORE CITY
	1	MONTGOMERY
	1	BALTIMORE CITY
	1	MONTGOMERY
	1	BALTIMORE CITY
	1	MONTGOMERY
	1	PRINCE GEORGE'S
	1	MONTGOMERY
	3	PRINCE GEORGE'S
	3	MONTGOMERY
	1	FREDERICK
	1	HOWARD
	1	HOWARD
DIENTAMOEBIA FRAGILIS		
	3	MONTGOMERY
	1	HOWARD
	1	FREDERICK
	1	MONTGOMERY
ENDOLIMAX NANA		
	1	BALTIMORE CITY

	2	MONTGOMERY
	7	PRINCE GEORGE'S
	1	HOWARD
	2	MONTGOMERY
	1	HOWARD
	1	MONTGOMERY
	3	PRINCE GEORGE'S
	1	BALTIMORE CITY
	1	FREDERICK
	1	ANNE ARUNDEL
ENTAMOEBIA		
	1	MONTGOMERY
ENTAMOEBIA COLI		
	1	BALTIMORE CITY
	1	PRINCE GEORGE'S
	1	BALTIMORE CITY
	1	MONTGOMERY
	1	PRINCE GEORGE'S
	1	HOWARD
	3	MONTGOMERY
	2	PRINCE GEORGE'S
	1	MONTGOMERY
	1	PRINCE GEORGE'S
	1	MONTGOMERY
ENTAMOEBIA HARTMANNI		
	1	HOWARD
	2	PRINCE GEORGE'S
	1	MONTGOMERY
ENTAMOEBIA HISTOLYTICA		
	1	BALTIMORE CITY
	1	MONTGOMERY
ENTAMOEBIA HISTOLYTICA/		
ENTAMOEBIA DISPAR COMPLEX		
	1	CARROLL
ENTEROBIUS VERMICULARIS		
	1	SAINT MARY'S
	1	CARROLL
	1	WASHINGTON
	1	CARROLL
	1	BALTIMORE
	1	WASHINGTON
	1	ANNE ARUNDEL
GIARDIA INTESTINALIS		
	2	PRINCE GEORGE'S
GIARDIA LAMBLIA		
	1	FREDERICK
	2	HOWARD
HOOKWORM		
	3	FREDERICK
	2	BALTIMORE CITY
HYMENOLEPIS NANA		
	1	MONTGOMERY
IODAMOEBIA BÜTSCHLI		
	2	BALTIMORE CITY
PLASMODIUM FALCIPARUM		
	1	MONTGOMERY
	2	WICOMICO
PLASMODIUM VIVAX		
	1	HOWARD
TRICHURIS TRICHIURA		
	1	FREDERICK
	2	FREDERICK
TOTAL	95	

WATER MICROBIOLOGY

	# TESTED	# NON-COMPLIANT
COMMUNITY	2	0
NON-COMMUNITY	455	53
TOTAL	457	53

FOOD PROTECTION

	TOTALS
FOOD	
SAMPLES	42
NOTABLE PATHOGENS:	
SALMONELLA SP.	6
CAMPYLOBACTER SP.	4
LISTERIA SP.	0
CRABMEAT	
SAMPLES	0
EXCEEDING STANDARDS ¹	0
SHELLFISH	
SAMPLES	0
EXCEEDING STANDARDS ²	0
SHELLFISH GROWING WATERS	
SAMPLES	294
TOTAL SAMPLES	336
TOTAL STANDARDS EXCEEDED	10

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	0	1	MONTGOMERY
SUBTOTAL			1	
ENTEROVIRUS				
	F	11	1	TALBOT
SUBTOTAL			1	
HERPES SIMPLEX VIRUS TYPE 1				
	F	26	1	BALTIMORE CITY
	F	15	1	BALTIMORE CITY
	F	19	1	BALTIMORE CITY
	M	20	1	BALTIMORE CITY
SUBTOTAL			4	
HERPES SIMPLEX VIRUS TYPE 2				
	M	27	1	MONTGOMERY
SUBTOTAL			1	
INFLUENZA A VIRUS				
	U	24	1	BALTIMORE
	U	79	1	BALTIMORE
	U	23	1	BALTIMORE
	M	28	1	BALTIMORE
	F	6	1	BALTIMORE
	M	30	1	MONTGOMERY

F	4	1	MONTGOMERY
F	23	1	MONTGOMERY
M	46	1	MONTGOMERY
F	1	1	MONTGOMERY
M	56	1	MONTGOMERY
M	0	1	MONTGOMERY
M	0	1	BALTIMORE CITY
M	42	1	BALTIMORE CITY
F	3	1	BALTIMORE CITY
M	40	1	BALTIMORE CITY
F	42	1	BALTIMORE CITY
M	48	1	BALTIMORE CITY
F	8	1	BALTIMORE CITY
F	27	1	BALTIMORE CITY
M	1	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
F	25	1	BALTIMORE CITY
F	21	1	BALTIMORE CITY

SUBTOTAL 24

INFLUENZA B VIRUS

U	0	1	BALTIMORE
M	16	1	BALTIMORE
U	23	1	BALTIMORE
U	2	1	BALTIMORE
U	70	1	BALTIMORE
F	2	1	BALTIMORE
U	5	1	BALTIMORE
U	56	1	BALTIMORE
U	8	1	BALTIMORE
U	3	1	BALTIMORE
M	5	1	BALTIMORE
F	21	1	BALTIMORE
F	18	1	BALTIMORE
F	13	1	BALTIMORE
M	22	1	BALTIMORE
M	22	1	BALTIMORE
M	21	1	BALTIMORE
F	20	1	BALTIMORE
M	11	1	TALBOT
M	24	1	WORCESTER
M	6	1	WORCESTER
M	2	1	BALTIMORE CITY
M	21	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	14	1	OUT OF STATE

SUBTOTAL 25

TOTAL 56

VIRAL POLYMERASE CHAIN REACTION (PCR)

ISOLATE
SEX AGE # JURISDICTION

HERPES SIMPLEX VIRUS TYPE 1

F	20	1	ALLEGANY
M	22	1	ANNE ARUNDEL
F	22	1	BALTIMORE CITY
F	23	1	BALTIMORE CITY
F	25	1	BALTIMORE CITY
M	24	1	BALTIMORE CITY
F	17	1	CARROLL
M	18	1	CECIL
M	21	1	FREDERICK
M	19	1	GARRETT

F	17	1	PRINCE GEORGE'S
F	18	1	PRINCE GEORGE'S
F	19	1	PRINCE GEORGE'S
F	20	1	PRINCE GEORGE'S
F	22	1	PRINCE GEORGE'S

HERPES SIMPLEX VIRUS TYPE 2

M	29	1	ALLEGANY
F	19	1	ANNE ARUNDEL
F	29	1	ANNE ARUNDEL
F	38	2	ANNE ARUNDEL
F	16	1	BALTIMORE
F	26	1	BALTIMORE
F	30	1	BALTIMORE
F	42	1	BALTIMORE
U	20	1	BALTIMORE CITY
U	26	1	BALTIMORE CITY
U	27	1	BALTIMORE CITY
U	30	1	BALTIMORE CITY
U	33	1	BALTIMORE CITY
F	0	1	BALTIMORE CITY
F	15	2	BALTIMORE CITY
F	17	1	BALTIMORE CITY
F	19	2	BALTIMORE CITY
F	20	1	BALTIMORE CITY
F	21	2	BALTIMORE CITY
F	22	1	BALTIMORE CITY
F	23	1	BALTIMORE CITY
F	28	2	BALTIMORE CITY
F	41	1	BALTIMORE CITY
F	43	1	BALTIMORE CITY
F	50	1	BALTIMORE CITY
M	20	1	BALTIMORE CITY
M	21	1	BALTIMORE CITY
M	22	1	BALTIMORE CITY
M	23	1	BALTIMORE CITY
M	25	2	BALTIMORE CITY
M	27	1	BALTIMORE CITY
M	28	1	BALTIMORE CITY
M	34	1	BALTIMORE CITY
M	35	1	BALTIMORE CITY
M	48	1	BALTIMORE CITY
M	53	1	BALTIMORE CITY
F	25	1	CECIL
F	24	1	CHARLES
M	20	1	CHARLES
F	22	1	DORCHESTER
F	16	1	FREDERICK
M	42	1	GARRETT
M	37	1	HOWARD
F	35	1	MONTGOMERY
F	19	1	PRINCE GEORGE'S
F	20	1	PRINCE GEORGE'S
F	22	1	PRINCE GEORGE'S
M	20	1	SOMERSET
F	25	1	TALBOT
F	16	1	WICOMICO
M	41	1	WICOMICO
F	21	1	WORCESTER

INFLUENZA A(H1)

U	23	1	BALTIMORE
F	21	1	BALTIMORE CITY
M	1	1	BALTIMORE CITY

INFLUENZA B VIRUS

U	3	1	BALTIMORE
U	8	1	BALTIMORE
F	2	1	BALTIMORE CITY
M	0	1	BALTIMORE CITY
M	46	1	WORCESTER

TOTAL 81

VIRAL HEPATITIS

ORGANISM		
# SPECIMENS		
# POSITIVES		
JURISDICTION		
HEPATITIS A		
1	0	HOWARD
1	0	PRINCE GEORGE'S

SUBTOTAL 2 0

HEPATITIS B		
59	0	ALLEGANY
185	6	ANNE ARUNDEL
65	0	BALTIMORE
577	5	BALTIMORE CITY
4	0	CALVERT
17	0	CARROLL
174	0	CECIL
14	1	CHARLES
65	1	FREDERICK
14	0	GARRETT
98	1	HARFORD
36	0	HOWARD
1	0	KENT
311	3	MONTGOMERY
403	6	PRINCE GEORGE'S
4	0	QUEEN ANNE'S
3	0	SAINT MARY'S
4	0	SOMERSET
11	0	TALBOT
2	0	UNKNOWN
30	0	WASHINGTON
111	1	WICOMICO

SUBTOTAL 2,188 24

HEPATITIS C		
60	10	ALLEGANY
214	55	ANNE ARUNDEL
69	2	BALTIMORE
261	58	BALTIMORE CITY
4	1	CALVERT
13	2	CARROLL
94	12	CECIL
14	0	CHARLES
78	3	FREDERICK
21	0	GARRETT
99	3	HARFORD
4	0	HOWARD
1	0	KENT
39	2	MONTGOMERY
231	10	PRINCE GEORGE'S
4	0	QUEEN ANNE'S
7	0	SAINT MARY'S
4	0	SOMERSET
8	1	TALBOT
2	0	UNKNOWN
11	2	WASHINGTON
20	2	WICOMICO

SUBTOTAL 1,258 163

TOTALS 3,448 187

RABIES

SOURCE	#	JURISDICTION
BAT	1	ALLEGANY
CAT	1	FREDERICK
FOX	1	BALTIMORE
	1	HARFORD
	1	MONTGOMERY
	1	WASHINGTON
RACCOON	2	ANNE ARUNDEL
	1	BALTIMORE CITY
	3	BALTIMORE
	1	CAROLINE
	1	CECIL
	2	FREDERICK
	1	GARRETT
	3	HARFORD
	2	HOWARD
	4	MONTGOMERY
	1	PRINCE GEORGES
	1	QUEEN ANNE'S
	1	TALBOT
	4	WASHINGTON
	1	WICOMICO
	1	WORCESTER
SKUNK	1	ALLEGANY
	1	HARFORD
	1	TALBOT
TOTAL POSITIVES	38	
TOTAL SPECIMENS	331	

CHLAMYDIOPHILIA PSITTACI
(CHLAMYDIA)

REPORTED QUARTERLY
NO REPORT THIS MONTH

CD4 FLOW CYTOMETRY WORKLOAD

REPORTED QUARTERLY
NO REPORT THIS MONTH

BLOOD LEAD

MARYLAND		
I	<10	126
IIA	10-14	10
IIB	15-19	1
III	20-44	2
IV	45-69	0
V	>69	0
TOTAL		139
WASHINGTON DC		
I	<10	1
IIA	10-14	0
IIB	15-19	0
III	20-44	0
IV	45-69	0
V	>69	0
TOTAL		1

NEWBORN & CHILDHOOD SCREENING

STATISTICS FOR FEBRUARY 2009

PRESUMPTIVE POSITIVES	
DISORDERS	#
PHENYLKETONURIA	2
MAPLE SYRUP URINE DISEASE	0
HOMOCYSTEINURIA	4
TYROSINEMIA	4
ARGININEMIA	0
CITRULLINEMIA	1
GALACTOSEMIA	0
BIOTINIDASE DEFICIENCY	1
HYPOTHYROIDISM	87
HEMOGLOBIN -DISEASE	25
HEMOGLOBIN -BENIGN	423
CONGENITAL ADRENAL HYPERPLASIA (CAH)	50
CYSTIC FIBROSIS	3
FATTY ACID OXIDATIONS	1
ORGANIC ACIDEMIAS	8
ACYLCARNITINE - BORDERLINE	7
ACYLCARNITINE - OTHERS	0
MONTHLY TOTALS	
# OF SPECIMENS SCREENED	12,414
NUMBER OF TESTS	1,073,550
% UNSATISFACTORY SPECIMENS	0.6
YEAR-TO-DATE CONFIRMED CASES	
CONDITIONS	# CONFIRMED
MCAD	0
3MCC	0
SCAD	1
VLCAD	0
GA-I	0
IVA	0
PA	0
MAPLE SYRUP URINE DISEASE	0
PKU- CLINICALLY SIGNIFICANT VARIANT	0
CLINICALLY SIGNIFICANT VARIANT	
HYPERPHENYLALANINEMIA (NOT CLASSICAL PKU)	0
VARIANT	
HYPERPHENYLALANINEMIA (NOT CLINICALLY SIGNIFICANT)	0
CITRULINEMIA I (CIT-I)	0
GALACTOSEMIA- CLASSICAL GALT DEFICIENCY	0
GALACTOSEMIA - VARIANT	0
BIOTINIDASE DEFICIENCY	0
GALACTOSE EPIMERASE DEFICIENCY	0
PARTIAL BIOTINIDASE DEFICIENCY	0
CAH- CLASSICAL SALT WASTING	0
CAH-NON-CLASSICAL	0
HYPOTHYROIDISM - PRIMARY	5
OTHER HYPOTHYROIDISM	0
SECONDARY HYPOTHYROIDISM	0
SICKLE CELL DISEASE -SS	1
SICKLE CELL DISEASE -SC	0
SICKLE CELL DISEASE -SE	0
SICKLE CELL DISEASE -S BETA	0
THALASSEMIA	0
CYSTIC FIBROSIS	2

ENVIRONMENTAL CHEMISTRY

SAMPLES	# NON-COMPLIANT	# TESTED
ASBESTOS		
AIR	0	0
BULK	3	5
AIR QUALITY		
PM _{2.5}	0	591
PM ₁₀	0	0
RADIATION		
AIR/CHARCOAL FILTERS	0	56
MILK	0	2
WIPES	0	40
RAW WATER	0	5
VEGETATION	0	0
OTHER	0	1
DRINKING WATER		
METALS		
COMMUNITY	4	11
NON-COMMUNITY	5	9
PRIVATE WELLS	52	167
PESTICIDES & PCBs		
COMMUNITY	0	117
NON-COMMUNITY	0	44
PRIVATE WELLS	0	1
VOLATILE ORGANIC COMPOUNDS		
COMMUNITY	3	265
NON-COMMUNITY	0	70
PRIVATE WELLS	1	162
RADIATION		
COMMUNITY	1	59
NON-COMMUNITY	0	0
PRIVATE WELLS	0	5
INORGANICS		
COMMUNITY	0	17
NON-COMMUNITY	9	112
PRIVATE WELLS	16	189
FOOD CHEMISTRY		
SUSPECTED TAMPERING	0	0
MICROSCOPIC FILTH	0	0
LABELING	0	0
SURVEILLANCE	0	0
CHEMICAL CONTAMINATION	0	5
TOTAL	94	1,933

VIRAL LOAD SPECIMENS

HIV-1 RNA COPIES/ML	<10 ³	10 ³ –10 ⁴	10 ⁴ –10 ⁵	>10 ⁵	TOTALS
ALLEGANY	15	1	0	0	16
MONTGOMERY	97	11	16	2	126
PRINCE GEORGE'S	63	21	13	10	107
WASHINGTON	5	0	0	0	5
WICOMICO	1	0	1	0	2
SUBTOTALS	181	33	30	12	256
DEPT. OF CORRECTIONS	36	7	9	1	53
TOTALS	217	40	39	13	309

HIV ANTIBODY SCREENING

SUBMITTER	TOTAL SPECIMENS	# EIA POSITIVE	% EIA POSITIVE	# WB POSITIVE	% WB POSITIVE
CORRECTIONAL INSTITUTIONS	159	1	0.63%	0	0.00%
FAMILY PLANNING (NON-GOVT)	138	2	1.45%	1	50.00%
HEALTH CENTERS (NON-GOVT)	668	47	7.04%	45	95.74%
HEALTH DEPT, NON-STD, FAMILY PLANNING	627	8	1.28%	5	62.50%
HEALTH DEPT, NON-STD, OB/GYN	11	0	0.00%	0	0.00%
HEALTH DEPT, NON-STD, OTHER	734	62	8.45%	59	95.16%
HEALTH DEPT, STD CLINICS	1,022	10	0.98%	9	90.00%
HOSPITAL, OTHER	141	16	11.35%	15	93.75%
HOSPITAL, PUBLIC	21	0	0.00%	0	0.00%
LABORATORIES (NON-HOSPITAL)	463	19	4.10%	9	47.37%
PEDIATRIC - CHILD HEALTH	8	1	12.50%	1	100.00%
PRIVATE PHYSICIANS	3	0	0.00%	0	0.00%
PRIVATE STUDENT HEALTH CTRS	54	0	0.00%	0	0.00%
PUBLIC STUDENT HEALTH CTRS	238	2	0.84%	1	50.00%
TOTALS	4,287	168	3.92%	145	86.31%



MAILING LABEL

Critical Link
 c/o Georgia Corso, Room L-15
 J. Mehsen Joseph Public Health Laboratory
 Department of Health & Mental Hygiene
 201 West Preston Street
 Baltimore, Maryland 21201

