Maryland Department of
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John M. Colmers, Secretary

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CRITICAL LINK

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Salmonella Serotype Wandsworth Outbreak

In the United States, Salmonella infections are typically acquired from eating contaminated food products. Food products can be contaminated by fecal contamination from animals during slaughter or by eating food contaminated by an infected food handler who has not washed his or her hands adequately. Historically, a disproportionate number of infections have been associated with home-prepared or locally-served foods in the warmer months of July through October. However, geo-

(Continued on page 2)

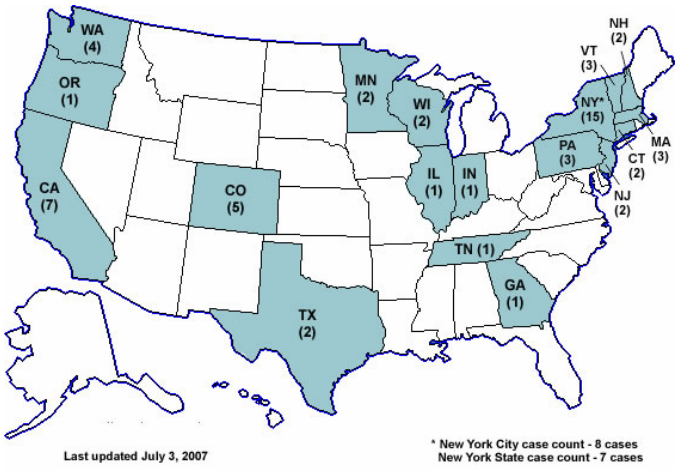

Figure 1: Cases of confirmed *Salmonella wandsworth* in the U.S., state by state as of July 3, 2007. Map source: CDC.[4]

Rat-bite Fever

In June of this year, the Division of Public Health Microbiology isolated and identified *Actinobacillus muris* (formerly *Streptobacillus moniliformis)* from cerebrospinal fluid submitted as an autopsy specimen by the Office of the State Medical Examiner. The specimen was from a young child who had lived in a poor environment here in Maryland that contained small animals and was infested with insects. A possible bite mark was noted on the child's leg at autopsy.

A. muris, the agent of rat-bite fever, is a highly pleomorphic, filamentous, non-motile, non-acidfast, Gram-negative rod that is relatively inert biochemically. It is carried naturally in the nasopharynx of rodents, including rats, mice, squirrels, weasels, and gerbils. Rat-bite fever can be contracted through the bite of an animal harboring the organism or from a dog or cat that has preyed on a rodent. Ten to 100% of rodents carry the organism with higher carriage rates seen in feral animals.[1] Bites carry about a 10% chance of infection.

(Continued on page 3)

Inside this issue:

Salmonella
Serotype Wandsworth Outbreak *Page 1*
Rat-bite Fever *Page 1*
SMRL Closes September 1 *Page 2*
LABORATORY STATISTICS *Page 5*

(Continued from page 1)
Salmonella *serotype wandsworth Outbreak*

graphically widespread outbreaks are less likely to be seasonal and are more often associated with commercial food processing and distribution.

Earlier this year, cases of infection caused by a rare salmonella serotype, *Salmonella* serotype wandsworth, were noticed by CDC. As of June 28, 2007, 52 persons with the infection had been reported to CDC from 17 states[1] (see Figure 1). Seventy-seven percent of the

Figure 2: A bag containing Veggie Booty, associated with the recent *Samonella* serotype wandsworth outbreak in 17 states. Photo source: USFDA.[3]

patients, for whom there is clinical information, developed bloody diarrhea and 11% were hospitalized. A statistical analysis conducted by CDC associated eating Robert's American Gourmet brand Veggie Booty, a snack of puffed rice and corn with a vegetable coating, as the source of these infections (See figure 2). Studies are underway to determine how this product became contaminated.

In Maryland, the Division of Public Health Microbiology isolated two strains of what may be *S.* serotype wandsworth. Unfortunately, accurate serotyping of these two isolates has been difficult and is still incomplete. Several problems may prevent accurate serotype determination. A strain may be rough and fail to make complete O-antigens; this means it will cross-react in different antisera.[2] When O-antigens cannot be recognized, a strain can still be confirmed as a Salmonella species by its "H" (flagellar) antigens and a set of biochemical tests. Strains that are poorly motile will have weak agglutination reactions and some strains may not express all antigens equally, requiring multiple attempts to identify all antigens. Pulsed-field gel electrophoresis (PFGE) was begun while the final serotype is being determined. Based on the PFGE pattern, the two Maryland strains are linked to the outbreak based on DNA fingerprinting.

References

[1] www.cdc.gov/salmonella/wandsworth_062807.htm
[2] *Man. Clin. Microbiol.*, 8th ed. 2003. ASM, Wash., DC, p.667.
[3] http://www.fda.gov/oc/po/firmrecalls/roberts06_07.html.
[4] http://www.cdc.gov/salmonella/wandsworth_071107.htm

Southern Maryland Regional Laboratory Closes September 1

On September 1, 2007, to help meet the State's need to reduce costs, the Southern Maryland Regional Laboratory (SMRL) will close and its workload and employees will be transferred to the J. Mehsen Joseph Public Health Laboratory in Baltimore.

In making this announcement Secretary John Colmers emphasized the SMRL's long history of serving the region. The Department is very proud of the 65 years of continuing laboratory support and analytical services the SMRL has provided to local health departments in Southern Maryland. Secretary Colmers also acknowledged that while these important services will continue to be provided, there is no question some additional burden will fall on the counties served by the SMRL and the Laboratories Administration.

The Laboratories Administration and its closure team are moving quickly to meet with affected counties to plan and carry out the many seen and unforeseen changes that must be made during this transition period. Questions and requests related to the closure may be directed to Mr. Mark Massey at the SMRL by calling 301-583-3178.

(Continued from page 1)

Rat-bite Fever

Historically, the usual victim of rat-bite fever has been a child under five years of age living in poverty. Over half of the 200 cases reported in the U.S. have been in young children.[2] In the recent past, as various rodents have become more popular as pets, infected individuals routinely include older children, pet store employees, and laboratory rodent handlers.

The 200 reported cases probably represent a significant underreporting both because the disease and etiologic agent are not reportable to most health departments (including those in Maryland) and because *A. muris* can be difficult to isolate and identify. It is an extremely fastidious organism, requires CO_2 or microaerophilic conditions to grow. Optimal growth requires trypticase soy agar or broth enriched with 20% blood serum or ascitic fluid. The bacteria grow slowly over two to three days, and may take up to seven days. In this case, growth was noted after two days on a blood agar plate. It was recovered from a culture of CSF, but not the accompanying blood culture. This is consistent with the fact that 0.05% sodium polyanethol sulfonate (SPS), frequently added to aerobic blood culture bottles as an anticoagulant, inhibits growth of the organism.[3]

(Continued on page 4)

The services and facilities of the Maryland Department of Health and Mental Hygiene (DHMH) are operated on a non-discriminatory basis. This policy prohibits discrimination on the basis of age; ancestry; color; creed; marital status; mental or physical disability; national origin; race; religious affiliation, belief, or opinion; sex; or sexual orientation and applies to the provisions of employment and granting of advantages, privileges and accommodations. 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.

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

A Norway rat *Rattus norvegicus* in a Kansas City, Missouri corn storage bin. Photo source: CDC Public Health Image Library.[7]

(Continued from page 3)

Rat-bite Fever

A. muris-associated rat-bite fever is a systemic illness classically characterized by fever, rigors, and migratory polyarthralgias. The post-exposure incubation period ranges from three to five days to three weeks, but usually is less than seven days following a bite.[1] Many patients report symptoms similar to an upper respiratory tract infection during this time. The bite typically heals quickly, with minimal residual inflammation and no significant regional lymphadenopathy.[1] At the onset of disease, fever begins abruptly, ranging from 38-41° C. Rigors associated with fever are prominent. Fever may end after three to five days, but can relapse.[1]

As the disease progresses, over 50% of patients develop migratory polyarthralgias with pain, swelling, and erythrema indicating arthritis in the large and small joints of the extremities.[4,5] Nearly 75% of patients develop a rash that may appear maculopapular, petechial, or purpuric. Hemorrhagic vesicles may also develop in the peripheral extremities, especially the hands and feet, and are very tender to palpation.[6]

Penicillin is the treatment of choice for proven or highly suspected cases. For additional information on antibiotic susceptibility and specific treatment regimens, the reader is referred to references 1 and 8-9, respectively.

Untreated rat-bite fever has a mortality rate of around 10%. Reported causes of death include endocarditis, refractory pericardial effusion, bronchopneumonia, pneumonitis, periarteritis nodosa, volvulus, and overwhelming septicemia with organisms found in both the adrenal glands and bone marrow at autopsy.[1]

For information on submitting specimens or diagnostic testing please contact the Division of Public Health Microbiology at 410-767-6125.

References

[1] Elliott, S.P. 2007. *Clin. Microbiol. Rev.*, 20:13-22
[2] Hirschhorn, R. and R. Hodge. 1999. *Pediatrics*, 104:e35
[3] Shanson, D.C., et al. 1983. *Lancet*, ii:92-94
[4] Hambridge, S.J., and W. Ogle. 2001. *Pediatr. Rev.*, 22:95-103
[5] Thong, B.Y. and T.M. Barkham. 2003. *Ann. Rheum. Dis.*, 62:805-806
[6] Cunningham, B.B., A.S. Paller, and B.Z. Katz. 1998. *J. Am. Acad. Dermatol.*, 38:330-332
[7] PHIL2611 from http://phil.cdc.gov/phil/details.asp
[8] Washburn, R.G. 2000. In: Mandell, G.L., et al. eds. *Principles and Practice of Infectious Disease*, 5th ed., NY, Churchill Livingstone, pp. 2422-2424.
[9] MMWR. 2005. Vol. 53, Nos. 51 and 52, pp. 1198 and 1200-1201.

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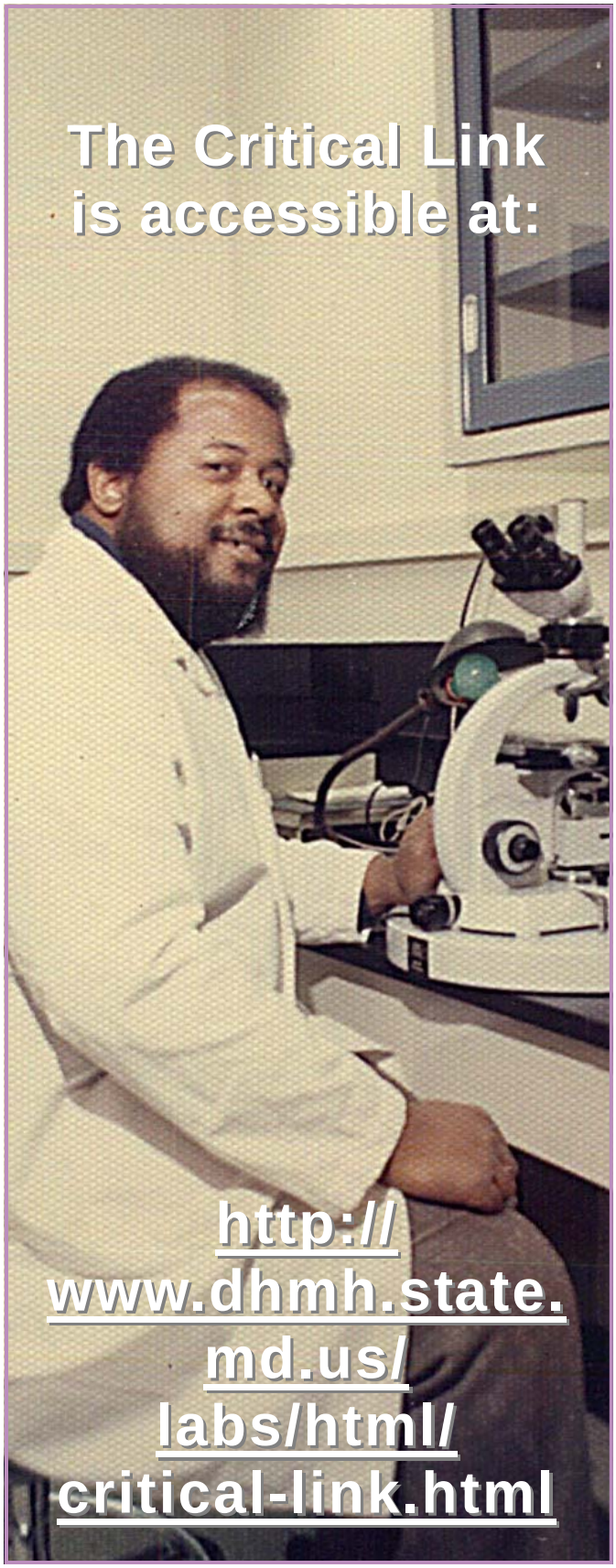

A photo from the Laboratories Administration Archives: Bill Dixon peers into a microscope at the Central Laboratory. Bill started out as a Public Health Lab Scientist I and worked his way up to Program Director before retiring.

Laboratory Statistics

NS – Not Speciated
NT – Non-Typeable
VRE – Vancomycin Resistant
SP – Species
NG – No Growth

* This genus has recently been given a new genus name. The genus name in parenthesis is the old name.
** Formerly a part of the *Trichosporon beigelii* complex.
***Alpha streptococci other than *S. pneumoniae* and *Enterococcus*

REPORTED 05/01/07 - 05/31/07

ENTERIC BACTERIOLOGY

GENUS SEROVAR	SEX	AGE	#	JURISDICTION
CAMPYLOBACTER JEJUNI				
	M		1	ALLEGANY
	M	36	1	CHARLES
	F	48	1	HARFORD
	F	43	1	MONTGOMERY
	F	18	1	WICOMICO
	M	9	1	BALTIMORE CITY
	M	60	1	BALTIMORE CITY
ESCHERICHIA COLI O157:H7				
	U		1	BALTIMORE CITY
SALMONELLA BERTA				
	U	93	1	ANNE ARUNDEL
	F	28	1	BALTIMORE CITY
SALMONELLA ENTERITIDIS				
	M	30	1	ALLEGANY
	F	30	1	MONTGOMERY
	M	3	1	MONTGOMERY
	F		1	WICOMICO
	M		1	BALTIMORE CITY
	M	58	1	BALTIMORE CITY
	M	62	1	BALTIMORE CITY
	F	20	1	OUT OF STATE
	M	21	1	OUT OF STATE
	M	36	1	OUT OF STATE
	U	55	1	OUT OF STATE
SALMONELLA GAMINARA				
	F	1	1	WICOMICO
SALMONELLA HEIDELBERG				
	M	37	1	PRINCE GEORGE'S
SALMONELLA I 3,10:nonmotile				
	F	82	1	BALTIMORE CITY
SALMONELLA I 9,12:-:1,5				
	F	6	1	KENT
	U	9	1	KENT
SALMONELLA INFANTIS				
	F	1	1	ST. MARY'S
SALMONELLA MINNESOTA				
	M	34	1	CARROLL
SALMONELLA MONTEVIDEO				
	M	5	1	CECIL
SALMONELLA OHIO				
	M		1	WORCESTER
SALMONELLA ORANIENBURG				
	M	56	1	MONTGOMERY
SALMONELLA POMONA				
	F	1	1	PRINCE GEORGE'S

SALMONELLA SAARBRUECKEN			
F	39	1	MONTGOMERY
SALMONELLA STANLEY			
M	11	1	FREDERICK
SALMONELLA TELELKEBIR			
M	1	1	OUT OF STATE
SALMONELLA TENNESSEE			
M	30	1	ANNE ARUNDEL
M	53	1	BALTIMORE
M	55	1	KENT
F	70	1	WORCESTER
SALMONELLA TYPHI			
U		1	ANNE ARUNDEL
F	46	1	PRINCE GEORGE'S
M	57	1	PRINCE GEORGE'S
SALMONELLA TYPHIMURIUM			
F	4	1	BALTIMORE
SALMONELLA TYPHIMURIUM VAR COPENHAGEN			
F		1	ANNE ARUNDEL
M	8	1	BALTIMORE
M	8	1	HARFORD
F	4	1	PRINCE GEORGE'S
SALMONELLA WORTHINGTON			
U	1	1	OUT OF STATE
SALMONELLA 4,12:i:-			
M	23	1	ALLEGANY
F	41	1	CALVERT
F	51	1	CHARLES
M	55	2	PRINCE GEORGE'S
F	2	1	WASHINGTON
F		1	BALTIMORE CITY
M	4	1	OUT OF STATE
U		1	OUT OF STATE
SALMONELLA 4,5,12:i:-			
U		1	BALTIMORE
M		1	TALBOT
M	2	1	BALTIMORE CITY
SHIGELLA FLEXNERI II:3,4			
F	41	1	BALTIMORE CITY
SHIGELLA FLEXNERI II:7,8			
F	13	1	PRINCE GEORGE'S
SHIGELLA FLEXNERI IV			
U	20	1	OUT OF STATE
SHIGELLA SONNEI			
F	3	1	MONTGOMERY
U	9	1	OUT OF STATE
U	25	1	OUT OF STATE
U	55	1	OUT OF STATE
TOTAL		**67**	

ISOLATES – THROAT CULTURES

COUNTY	GROUP A[1]	NON-GROUP A
ALLEGANY	1	14
BALTIMORE CITY	1	5
BALTIMORE	1	0
CARROLL	0	1
MONTGOMERY	1	1
PRINCE GEORGE'S	1	2
SOMERSET	2	1
WICOMICO	7	4
TOTAL	**14**	**28**

[1] *Streptococcus pyogenes*

BACTERIOLOGY IDENTIFICATIONS
Referrals

GENUS SPECIES SOURCE	#	JURISDICTION
HAEMOPHILUS INFLUENZAE NON-TYPEABLE		
BLOOD	1	ANNE ARUNDEL
BLOOD	1	BALTIMORE
BLOOD	2	CHARLES
BLOOD	1	MONTGOMERY
BLOOD	1	WASHINGTON
HAEMOPHILUS INFLUENZAE SEROTYPE F		
BLOOD	1	BALTIMORE CITY
NEISSERIA MENINGITIDIS SEROGROUP C		
BLOOD	1	BALTIMORE CITY
NEISSERIA MENINGITIDIS SEROGROUP Y		
CSF	1	CARROLL
TOTAL	**9**	

ISOLATES – MISCELLANEOUS

GENUS SPECIES SOURCE	#	JURISDICTION
ACINETOBACTER CALCOACETICUS-BAUMANNII COMPLEX		
TOE	1	FREDERICK
ARCANOBACTERIUM SPECIES		
BLOOD	1	BALTIMORE CITY
BACILLUS SPECIES		
SKIN	1	MONTGOMERY
CITROBACTER FREUNDII COMPLEX		
VULVA	1	MONTGOMERY
CLOSTRIDIUM SPECIES		
PERITONEAL	2	BALTIMORE CITY
CORYNEBACTERIUM ACCOLANS		
BLOOD	1	BALTIMORE CITY
CORYNEBACTERIUM AFERMENTANS		
BLOOD	1	BALTIMORE CITY
CORYNEBACTERIUM SPECIES		
TISSUE	1	BALTIMORE
PENIS	2	CECIL
TOE	1	FREDERICK
ENTEROBACTER CLOACAE		
FOOT	1	FREDERICK
ENTEROCOCCUS FAECALIS		
BLOOD	1	BALTIMORE CITY
TOE	1	FREDERICK
WOUND	1	PRINCE GEORGES
PENIS	1	SOMERSET
ENTEROCOCCUS GALLINARUM		
FOOT	1	FREDERICK
ESCHERICHIA COLI		
BLOOD	1	BALTIMORE CITY
CSF	1	BALTIMORE CITY
VULVA	11	MONTGOMERY
GARDNERELLA VAGINALIS		
VAGINAL	9	SOMERSET
KLEBSIELLA PNEUMONIAE		
BLOOD	1	BALTIMORE CITY
LACTOBACILLUS SPECIES		
BLOOD	2	BALTIMORE CITY
PANTOEA AGGLOMERANS		
LESION	1	CECIL
PROTEUS MIRABILIS		
FOOT	1	FREDERICK
WOUND	1	FREDERICK
WOUND	1	PRINCE GEORGE'S
PROTEUS SPECIES		
VAGINAL	1	SOMERSET
PSEUDOMONAS AERUGINOSA		
WOUND	1	PRINCE GEORGE'S

STAPHYLOCOCCUS AUREUS		
ABSCESS	1	ALLEGANY
FOOT	1	ALLEGANY
FOREARM	1	BALTIMORE
WOUND	2	BALTIMORE
BLOOD	3	BALTIMORE CITY
TOE	3	FREDERICK
FOOT	1	FREDERICK
GENITAL	1	MONTGOMERY
STAPHYLOCOCCUS AURICULARIS		
BLOOD	1	BALTIMORE CITY
STAPHYLOCOCCUS HOMINIS		
BLOOD	1	BALTIMORE CITY
STAPHYLOCOCCUS SIMULANS		
BLOOD	1	BALTIMORE CITY
STAPHYLOCOCCUS SPECIES		
TISSUE	1	BALTIMORE
BLOOD	2	BALTIMORE CITY
PERITONEAL	2	BALTIMORE CITY
PENIS	2	CECIL
TOE	5	FREDERICK
WOUND	1	PRINCE GEORGE'S
PENIS	1	SOMERSET
STREPTOCOCCUS ALPHA-HEMOLYTIC		
BLOOD	2	BALTIMORE CITY
STREPTOCOCCUS BETA-HEMOLYTIC GROUP B		
VAGINAL	2	ANNE ARUNDEL
BLOOD	1	BALTIMORE CITY
PENIS	1	CECIL
TOE	1	FREDERICK
VAGINAL	1	MONTGOMERY
VAGINAL	1	PRINCE GEORGE'S
VAGINAL	5	SOMERSET
STREPTOCOCCUS BETA-HEMOLYTIC NON-GROUPEABLE		
CERVICAL	1	PRINCE GEORGE'S
STREPTOCOCCUS NON-HEMOLYTIC		
PERITONEAL	2	BALTIMORE CITY
STREPTOCOCCUS ORALIS		
BLOOD	1	BALTIMORE CITY
TOTAL	**97**	

SEXUALLY TRANSMITTED DISEASES

GENUS SPECIES

SEX	#	JURISDICTION
NEISSERIA GONORRHEAE		
F	2	ALLEGANY
M	2	ALLEGANY
F	3	ANNE ARUNDEL
M	5	ANNE ARUNDEL
F	5	BALTIMORE
M	2	BALTIMORE
F	2	CAROLINE
M	1	CAROLINE
F	1	CARROLL
M	1	CECIL
F	1	CHARLES
M	1	CHARLES
F	0	DORCHESTER
M	1	DORCHESTER
F	1	FREDERICK
M	1	HARFORD
F	4	MONTGOMERY
M	2	MONTGOMERY
F	12	PRINCE GEORGE'S
M	21	PRINCE GEORGE'S
M	1	QUEEN ANNE'S
F	2	ST. MARY'S
M	1	ST. MARY'S
F	1	SOMERSET
M	1	SOMERSET
F	2	WASHINGTON CO
M	1	WASHINGTON CO
F	1	WICOMICO
M	5	WICOMICO
F	1	WORCESTER
M	3	WORCESTER
F	1	BALTIMORE CITY
M	6	BALTIMORE CITY
M	2	OUT OF STATE
TOTAL	**96**	
SYPHILIS SEROLOGY		
M	1	ALLEGANY
F	6	ANNE ARUNDEL
M	5	ANNE ARUNDEL
U	1	ANNE ARUNDEL
F	9	BALTIMORE
M	12	BALTIMORE
F	1	CALVERT
M	2	CALVERT
M	1	CAROLINE
M	1	CARROLL
M	1	CECIL
F	2	CHARLES
F	2	DORCHESTER
M	3	DORCHESTER
F	2	FREDERICK
F	3	HARFORD
M	4	HARFORD
F	2	HOWARD
F	6	MONTGOMERY
M	8	MONTGOMERY
U	2	MONTGOMERY
F	20	PRINCE GEORGE'S
M	32	PRINCE GEORGE'S
M	1	QUEEN ANNE'S
F	1	ST. MARY'S
M	1	SOMERSET
F	2	TALBOT
U	1	TALBOT
F	4	WASHINGTON
M	2	WASHINGTON
F	4	WICOMICO
F	1	WORCESTER
F	23	BALTIMORE CITY
M	43	BALTIMORE CITY
F	1	OUT OF STATE
M	2	OUT OF STATE
M	1	UNKNOWN
TOTAL	**213**	
CHLAMYDIA TRACHOMATIS		
F	4	ALLEGANY
M	5	ALLEGANY
U	1	ALLEGANY
F	25	ANNE ARUNDEL
M	12	ANNE ARUNDEL
F	26	BALTIMORE
M	16	BALTIMORE
F	5	CALVERT
M	1	CALVERT
M	2	CAROLINE
F	3	CARROLL
M	2	CARROLL
F	7	CECIL
M	5	CECIL
F	8	CHARLES
M	6	CHARLES
F	1	DORCHESTER
M	1	DORCHESTER
F	6	FREDERICK

F		1	GARRETT
U		1	GARRETT
F		7	HARFORD
M		12	HARFORD
F		8	HOWARD
M		2	HOWARD
F		2	KENT
M		4	KENT
F		25	MONTGOMERY
M		14	MONTGOMERY
U		1	MONTGOMERY
F		68	PRINCE GEORGE'S
M		26	PRINCE GEORGE'S
U		1	PRINCE GEORGE'S
F		2	QUEEN ANNE'S
M		1	QUEEN ANNE'S
F		3	ST. MARY'S
M		4	ST. MARY'S
F		3	SOMERSET
M		1	SOMERSET
F		3	TALBOT
F		7	WASHINGTON
M		8	WASHINGTON
F		19	WICOMICO
M		5	WICOMICO
F		3	WORCESTER
F		8	BALTIMORE CITY
M		20	BALTIMORE CITY
M		7	OUT OF STATE
TOTAL		**402**	

MYCOBACTERIOLOGY

GENUS SPECIES	SEX	AGE	#	JURISDICTION
MYCOBACTERIUM TUBERCULOSIS				
	F	66	1	BALTIMORE
	M	60	1	BALTIMORE
	M	80	1	MONTGOMERY
	F	71	1	PRINCE GEORGE'S
	F	36	1	BALTIMORE CITY
	F	27	1	OUT OF STATE
	M	65	1	OUT OF STATE
MYCOBACTERIUM TUBERCULOSIS COMPLEX				
	F	32	1	BALTIMORE
	M	45	1	BALTIMORE
	M	56	1	BALTIMORE
	M	55	1	HARFORD
	M	59	1	HOWARD
	F	21	1	MONTGOMERY
	F	31	1	MONTGOMERY
	F	46	1	MONTGOMERY
	M	36	1	MONTGOMERY
	M	26	1	PRINCE GEORGE'S
	M	28	1	PRINCE GEORGE'S
	M	32	1	PRINCE GEORGE'S
	M	36	1	PRINCE GEORGE'S
	M	41	1	PRINCE GEORGE'S
	M	42	1	PRINCE GEORGE'S
	M	44	1	PRINCE GEORGE'S
	M	58	1	PRINCE GEORGE'S
	M	66	1	PRINCE GEORGE'S
	F	36	1	BALTIMORE CITY
	F	56	1	BALTIMORE CITY
	M	55	1	BALTIMORE CITY
	M	57	1	BALTIMORE CITY
MYCOBACTERIUM ABSCESSUS				
	F	26	1	HOWARD
	F	27	1	PRINCE GEORGE'S
MYCOBACTERIUM AVIUM COMPLEX				
	M	55	1	ALLEGANY
	F	57	1	ANNE ARUNDEL
	F	70	1	ANNE ARUNDEL
	F	84	1	ANNE ARUNDEL
	F	73	1	BALTIMORE
	M	65	1	BALTIMORE
	M	57	1	CARROLL
	F	36	1	CECIL
	F	76	1	CECIL
	F	83	1	FREDERICK
	M	50	1	FREDERICK
	M	67	1	FREDERICK
	M	70	1	FREDERICK
	M	74	1	FREDERICK
	M	77	1	FREDERICK
	M	84	1	FREDERICK
	F	47	1	HARFORD
	F	59	1	HARFORD
	M	42	1	PRINCE GEORGE'S
	F	65	1	QUEEN ANNE'S
	F	63	1	WICOMICO
	F	74	1	WICOMICO
	F	28	1	BALTIMORE CITY
	F	83	1	BALTIMORE CITY
	M	41	1	BALTIMORE CITY
	M	53	1	BALTIMORE CITY
	M	57	1	BALTIMORE CITY
	F	59	1	OUT OF STATE
MYCOBACTERIUM FORTUITUM				
	F	78	1	MONTGOMERY
	F	66	1	TALBOT
	F	86	1	BALTIMORE CITY
	M	50	1	BALTIMORE CITY
MYCOBACTERIUM FORTUITUM COMPLEX				
	M	37	1	BALTIMORE
	M	32	1	PRINCE GEORGE'S
	M	81	1	WICOMICO
MYCOBACTERIUM GORDONAE				
	M	87	1	BALTIMORE
	F	88	1	CARROLL
	M	51	1	FREDERICK
	U	50	1	HARFORD
	M	35	1	PRINCE GEORGE'S
	M	57	1	PRINCE GEORGE'S
	F	68	1	BALTIMORE CITY
	F	69	1	BALTIMORE CITY
MYCOBACTERIUM KANSASII				
	M	41	1	BALTIMORE CITY
	F	44	1	OUT OF STATE
MYCOBACTERIUM VACCAE				
	F	87	1	WICOMICO
MYCOBACTERIUM XENOPI				
	F	69	1	MONTGOMERY
TOTAL			**78**	

MYCOLOGY

GENUS SPECIES	SEX	AGE	#	JURISDICTION
ARTHRINIUM SPECIES				
	M	66	1	ANNE ARUNDEL
ABSIDIA SP				
	F	82	1	TALBOT
	M	73	1	BALTIMORE CITY
AEROBIC ACTINOMYCETES				
	U		1	ANNE ARUNDEL
	F	47	1	HARFORD
ALTERNARIA SP				
	F	57	1	TALBOT
ASPERGILLUS FLAVUS				
	M	66	1	DORCHESTER
	F	34	1	PRINCE GEORGE'S
	F	57	1	TALBOT
	M	83	1	TALBOT

ASPERGILLUS FUMIGATUS			
F	72	1	ALLEGANY
U		1	ANNE ARUNDEL
M	63	1	CECIL
M	64	1	CECIL
M	71	1	CHARLES
F	42	1	PRINCE GEORGE'S
M	75	1	PRINCE GEORGE'S
F	78	1	TALBOT
F	84	1	TALBOT
F	92	1	TALBOT
F	48	1	OUT OF STATE
F	68	1	OUT OF STATE
ASPERGILLUS NIGER			
F	37	1	CALVERT
M	68	1	CECIL
F	77	1	QUEEN ANNE'S
F	85	1	TALBOT
ASPERGILLUS OCHRACEUS			
M	44	1	WICOMICO
CANDIDA ALBICANS			
F	72	1	ANNE ARUNDEL
F	23	1	BALTIMORE
M	68	1	CHARLES
F	18	1	HARFORD
F	30	1	HOWARD
F	11	1	MONTGOMERY
F	18	1	MONTGOMERY
F	21	1	MONTGOMERY
F	47	1	MONTGOMERY
F	67	1	MONTGOMERY
F	71	1	MONTGOMERY
F	84	1	MONTGOMERY
M	9	1	MONTGOMERY
M	22	1	MONTGOMERY
M	63	1	MONTGOMERY
M	78	1	MONTGOMERY
F	18	1	PRINCE GEORGE'S
F	19	1	PRINCE GEORGE'S
F	22	1	PRINCE GEORGE'S
F	24	1	PRINCE GEORGE'S
F	25	1	PRINCE GEORGE'S
F	37	1	PRINCE GEORGE'S
F	42	1	PRINCE GEORGE'S
F	68	1	PRINCE GEORGE'S
F	74	1	PRINCE GEORGE'S
M	36	1	PRINCE GEORGE'S
M	53	1	PRINCE GEORGE'S
M	60	1	PRINCE GEORGE'S
M	67	1	PRINCE GEORGE'S
M	68	1	PRINCE GEORGE'S
M	76	1	PRINCE GEORGE'S
U	78	1	PRINCE GEORGE'S
M	70	1	ST. MARY'S
F	17	1	SOMERSET
F	18	4	SOMERSET
F	19	3	SOMERSET
F	20	3	SOMERSET
F	21	5	SOMERSET
F	23	2	SOMERSET
F	24	1	SOMERSET
M	19	1	SOMERSET
M	23	1	SOMERSET
F	72	1	BALTIMORE CITY
M		1	BALTIMORE CITY
M	51	1	BALTIMORE CITY
M	69	1	BALTIMORE CITY
U	51	1	BALTIMORE CITY
F	30	1	OUT OF STATE
M	25	1	OUT OF STATE
M	28	1	OUT OF STATE
CANDIDA FAMATA (T. CANDIDA)			
M	36	1	OUT OF STATE
CANDIDA GLABRATA			
M	80	1	BALTIMORE
F	39	1	MONTGOMERY
F	47	1	MONTGOMERY
F	71	1	MONTGOMERY
F	78	1	MONTGOMERY
F	84	1	MONTGOMERY
F	18	1	PRINCE GEORGE'S
F	38	1	PRINCE GEORGE'S
M	62	1	PRINCE GEORGE'S
F	55	1	OUT OF STATE
CANDIDA KRUSEI			
F	49	1	HARFORD
CANDIDA PARAPSILOSIS			
F	84	1	FREDERICK
F	72	1	HARFORD
M	42	1	MONTGOMERY
M	55	1	PRINCE GEORGE'S
CANDIDA SP (NOT C. ALBICANS)			
M	65	1	BALTIMORE
CANDIDA TROPICALIS			
F	47	1	MONTGOMERY
F	72	1	BALTIMORE CITY
F	55	1	OUT OF STATE
CHAETOMIUM SP			
F	46	1	DORCHESTER
M	45	1	BALTIMORE CITY
CHRYSOSPORIUM SP			
M	57	1	ALLEGANY
M	76	1	DORCHESTER
CLADOSPORIUM SP			
M	7	1	ALLEGANY
M	35	1	ANNE ARUNDEL
CURVULARIA SP			
M	66	1	ANNE ARUNDEL
FUSARIUM SP			
M	52	1	CALVERT
F	60	1	TALBOT
GEOTRICHUM SP			
U	70	1	TALBOT
MICROSPORUM CANIS			
F	7	1	ALLEGANY
M	9	1	ALLEGANY
NOCARDIA NOVA			
F	81	1	TALBOT
PAECILOMYCES SP			
U		1	BALTIMORE CITY
PENICILLIUM SP			
F	7	1	ALLEGANY
F	59	1	ALLEGANY
U	82	1	ANNE ARUNDEL
F	63	1	CECIL
F	61	1	CHARLES
M	48	1	MONTGOMERY
F	70	1	WICOMICO
PESTALOTIA SP			
U	73	1	TALBOT
M		1	BALTIMORE CITY
SACCHAROMYCES CEREVISIAE			
M	42	1	MONTGOMERY
TRICHODERMA SP			
M	10	1	ALLEGANY
F	58	1	WICOMICO
TRICHOPHYTON RUBRUM			
M	21	1	ANNE ARUNDEL
M	37	1	CECIL
M	44	1	WICOMICO
TRICHOPHYTON TONSURANS			
M	3	1	BALTIMORE
M	5	1	CALVERT
F	73	1	TALBOT
U	1	1	TALBOT
M	7	1	BALTIMORE CITY
TRICHOSPORON SP			
M	75	1	PRINCE GEORGE'S
TOTAL		**144**	

MYCOBACTERIUM SUSCEPTIBILITY RESULTS

DURING THE MONTH OF MAY, 2007,
SUSCEPTIBILITY RESULTS ON 25 ISOLATES OF
M. TUBERCULOSIS COMPLEX * WERE IDENTIFIED.

TOTAL: 5 DRUG RESISTANT STRAINS FOUND

#	COUNTY	DRUG
1	® to ISONIAZID	MONTGOMERY
1	® to STREPTOMYCIN	MONTGOMERY
1	® to STREPTOMYCIN	PRINCE GEORGE'S
1	® to STREPTOMYCIN	BALTIMORE CITY
1[A]	® to STREPTOMYCIN, ISONIAZID, and RIFAMPIN	PRINCE GEORGE'S

[A] Meets the case definition of Multi-Drug Resistant Tuberculosis (MDRTB)
® RESISTANT

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

PARASITOLOGY

GENUS SPECIES	#	JURISDICTION
PROTOZOA		
BLASTOCYSTIS HOMINIS	3	BALTIMORE CITY
ENDOLIMAX NANA	4	MONTGOMERY
	4	PRINCE GEORGE'S
ENTAMOEBA COLI	1	FREDERICK
	1	PRINCE GEORGE'S
	1	WASHINGTON
GIARDIA LAMBLIA	1	WASHINGTON
IODAMOEBA BUTSCHLII	1	PRINCE GEORGE'S
TOTAL	**16**	
NEMATODES		
ENTEROBIUS VERMICULARIS		
	1	BALTIMORE
	1	ST. MARY'S
HOOKWORM	2	MONTGOMERY
TOTAL	**4**	
METAZOA		
HYMENOLEPIS NANA	1	MONTGOMERY
TOTAL	**1**	

TICK IDENTIFICATION

NONE

WATER MICROBIOLOGY

	# TESTED	# NON-COMPLIANT
COMMUNITY	6	0
NON-COMMUNITY	378	25
TOTAL	**384**	**25**

FOOD SAFETY

FOOD AND SHELLFISH MICROBIOLOGY

	# OF SAMPLES	NOTABLE PATHOGENS
FOOD	4	0
		# STANDARDS EXCEEDED *
CRABMEAT	0	0
		# STANDARDS EXCEEDED **
SHELLFISH	2	0
SHELLFISH GROWING WATERS	389	
TOTAL	**395**	**0**

STANDARDS

*CRABMEAT-FRESH
ESCHERICHIA COLI = LESS THAN 36 MPN/100 GRAM
STANDARD PLATE COUNT = LESS THAN 100,000 PER GRAM

** SHELLFISH
FECAL COLIFORMS = LESS THAN 230 MPN/100 GRAM
STANDARD PLATE COUNT = LESS THAN 500,000 PER GRAM

VIRUS ISOLATION

ISOLATE	SEX	AGE	#	JURISDICTION
INFLUENZA A				
	M	18	1	PRINCE GEORGE'S
	M	20	2	BALTIMORE CITY
SUBTOTAL			**3**	
INFLUENZA B				
	M	21	1	CALVERT
	F	20	1	PRINCE GEORGE'S
SUBTOTAL			**2**	
ADENOVIRUS				
	F	18	1	ANNE ARUNDEL
	F	20	1	PRINCE GEORGE'S
	M	7	1	TALBOT
	M	6	1	BALTIMORE CITY
SUBTOTAL			**4**	
HERPES SIMPLEX UNTYPABLE				
	F	20	1	ALLEGANY
	F	23	1	ANNE ARUNDEL
	F	21	1	BALTIMORE
	F	19	1	WICOMICO
	F	21	1	BALTIMORE CITY
	M	44	1	BALTIMORE CITY
SUBTOTAL			**6**	
VARICELLA				
	M	22	1	WICOMICO
SUBTOTAL			**1**	
HERPES SIMPLEX I				
	F	21	1	ALLEGANY
	F	22	1	ALLEGANY
	F	19	1	ANNE ARUNDEL
	F	17	1	BALTIMORE
	F	20	2	BALTIMORE
	F	23	1	BALTIMORE

F	26	1	BALTIMORE
F	29	1	BALTIMORE
F	20	1	CARROLL
F	18	1	HARFORD
F	20	1	HARFORD
F	19	1	PRINCE GEORGE'S
F	18	1	WICOMICO
F	22	1	WICOMICO
F	17	2	BALTIMORE CITY
F	18	1	BALTIMORE CITY
F	24	1	BALTIMORE CITY
F	25	1	BALTIMORE CITY
F	26	1	BALTIMORE CITY
F	32	1	BALTIMORE CITY
F	33	1	BALTIMORE CITY
M	19	1	BALTIMORE CITY
M	21	1	BALTIMORE CITY
M	44	1	BALTIMORE CITY
U	21	1	BALTIMORE CITY
SUBTOTAL		**27**	

HERPES SIMPLEX II

M	22	1	ALLEGANY
M	31	1	ALLEGANY
F	21	1	ANNE ARUNDEL
F	25	2	ANNE ARUNDEL
M	18	1	ANNE ARUNDEL
F	20	1	BALTIMORE
F	22	1	BALTIMORE
F	23	1	BALTIMORE
F	24	1	BALTIMORE
F	27	1	BALTIMORE
F	36	1	BALTIMORE
M	19	1	BALTIMORE
M	29	1	CAROLINE
F	21	1	CHARLES
F	24	1	CHARLES
M	22	1	FREDERICK
F	20	1	HOWARD
F		1	MONTGOMERY
M	25	1	MONTGOMERY
M	43	1	MONTGOMERY
F	18	2	PRINCE GEORGE'S
F	19	1	PRINCE GEORGE'S
F	21	1	PRINCE GEORGE'S
F	22	2	PRINCE GEORGE'S
M	31	1	PRINCE GEORGE'S
F	28	1	TALBOT
F	19	1	WASHINGTON
F	30	1	WICOMICO
M	21	1	WICOMICO
M	22	1	WICOMICO
F		3	BALTIMORE CITY
F	17	4	BALTIMORE CITY
F	19	2	BALTIMORE CITY
F	20	2	BALTIMORE CITY
F	21	1	BALTIMORE CITY
F	23	2	BALTIMORE CITY
F	24	1	BALTIMORE CITY
F	26	4	BALTIMORE CITY
F	28	1	BALTIMORE CITY
F	29	1	BALTIMORE CITY
F	39	1	BALTIMORE CITY
F	43	1	BALTIMORE CITY
F	47	1	BALTIMORE CITY
M		1	BALTIMORE CITY
M	16	1	BALTIMORE CITY
M	18	1	BALTIMORE CITY
M	19	2	BALTIMORE CITY
M	20	2	BALTIMORE CITY
M	23	4	BALTIMORE CITY
M	25	1	BALTIMORE CITY
M	26	2	BALTIMORE CITY
M	32	2	BALTIMORE CITY
M	37	1	BALTIMORE CITY
M	38	1	BALTIMORE CITY
M	41	1	BALTIMORE CITY
M	45	1	BALTIMORE CITY
M	46	1	BALTIMORE CITY
M	47	1	BALTIMORE CITY
U	21	1	BALTIMORE CITY
U	33	1	BALTIMORE CITY
U	46	1	BALTIMORE CITY
U	52	1	BALTIMORE CITY
M	22	1	OUT OF STATE
SUBTOTAL		**84**	
TOTAL		**127**	

VIRAL HEPATITIS

ORGANISM	# OF SPECIMENS	POSITIVES	JURISDICTION
HEPATITIS A			
	17	0	BALTIMORE
	2	1	CARROLL
	1	0	CECIL
	2	0	FREDERICK
	2	0	HOWARD
	1	0	MONTGOMERY
	1	0	PRINCE GEORGE'S
	1	0	SOMERSET
	1	0	TALBOT
	2	0	WICOMICO
	9	0	BALTIMORE CITY
SUBTOTAL	**39**	**1**	
HEPATITIS B			
	21	0	ALLEGANY
	83	2	ANNE ARUNDEL
	98	5	BALTIMORE
	2	0	CALVERT
	8	0	CAROLINE
	36	0	CARROLL
	100	0	CECIL
	10	0	CHARLES
	3	0	DORCHESTER
	106	1	FREDERICK
	10	0	GARRETT
	64	1	HARFORD
	42	0	HOWARD
	4	0	KENT
	299	4	MONTGOMERY
	358	11	PRINCE GEORGE'S
	2	0	QUEEN ANNE'S
	5	0	ST. MARY'S
	10	0	SOMERSET
	23	0	TALBOT
	64	2	WASHINGTON
	127	0	WICOMICO
	3	0	WORCESTER
	354	9	BALTIMORE CITY
	13	0	OUT OF STATE
	1	0	UNKNOWN
SUBTOTAL	**1,846**	**35**	
HEPATITIS C			
	22	2	ALLEGANY
	83	23	ANNE ARUNDEL
	105	16	BALTIMORE
	4	0	CALVERT

	6	0	CAROLINE
	30	4	CARROLL
	32	3	CECIL
	9	0	CHARLES
	99	13	FREDERICK
	10	0	GARRETT
	35	1	HARFORD
	19	0	HOWARD
	3	1	KENT
	51	4	MONTGOMERY
	222	4	PRINCE GEORGE'S
	2	1	QUEEN ANNE'S
	4	2	ST. MARY'S
	1	0	SOMERSET
	16	0	TALBOT
	87	29	WASHINGTON
	21	0	WICOMICO
	1	0	WORCESTER
	378	93	BALTIMORE CITY
	8	1	OUT OF STATE
	2	0	UNKNOWN
SUBTOTAL	**1,250**	**197**	
TOTAL	**3,135**	**233**	

RABIES

SOURCE	#	JURISDICTION
BAT	2	BALTIMORE CITY
FOX	1	BALTIMORE
	1	FREDERICK
	1	HOWARD
	2	MONTGOMERY
	1	BALTIMORE CITY
RACCOON	1	ANNE ARUNDEL
	2	BALTIMORE
	1	CALVERT
	1	CAROLINE
	1	CECIL
	1	CHARLES
	4	DORCHESTER
	1	HOWARD
	2	KENT
	2	MONTGOMERY
	2	PRINCE GEORGE'S
	1	QUEEN ANNE'S
	3	SOMERSET
	2	WASHINGTON
	1	UNKNOWN
TOTAL POSITIVES	**33**	
TOTAL SPECIMENS	**484**	

CHLAMYDOPHILIA (CHLAMYDIA) PSITTACI

REPORTED QUARTERLY
NO REPORT THIS MONTH

CD4 FLOW CYTOMETRY WORKLOAD

REPORTED QUARTERLY
NO REPORT THIS MONTH

NEWBORN & CHILDHOOD SCREENING

STATISTICS FOR MAY 2007

PRESUMPTIVE POSITIVES

DISORDERS	#
PHENYLKETONURIA	2
MAPLE SYRUP URINE DISEASE	8
HOMOCYSTINURIA	10
TYROSINEMIA	1
ARGININEMIA	0
CITRULLINEMIA	0
GALACTOSEMIA	0
BIOTINIDASE DEFICIENCY	0
HYPOTHYROIDISM	61
HEMOGLOBIN -DISEASE	17
HEMOGLOBIN -BENIGN	274
CONGENITAL ADRENAL HYPERPLASIA (CAH)	47
CYSTIC FIBROSIS	2
FATTY ACID OXIDATIONS	19
ORGANIC ACIDEMIAS	22
ACYLCARNITINE - BORDERLINE	7
ACYLCARNITINE - OTHERS	4

MONTHLY TOTALS

# OF SPECIMENS SCREENED	11,333
NUMBER OF TESTS	761,681
% OF UNSATISFACTORY SPECIMENS	4.55

YEAR-TO-DATE CONFIRMED CASES

CONDITIONS	# CONFIRMED
MCAD	2
3MCC	1
SCAD	1
VLCAD	1
GA-I	0
MAPLE SYRUP URINE DISEASE	1
PKU- CLINICALLY SIGNIFICANT	2
VARIATANT HYPERPHENYLALANINEMIA - NOT CLINICALLY SIGNIFICANT	2
GALACTOSEMIA- CLASSICAL GALT DEFICIENCY	0
GALACTOSEMIA - VARIANT	1
BIOTINIDASE DEFICIENCY	0
GALACTOSE EPIMERASE DEFICIENCY	0
GALACTOSE TRANSFERASE DEFICIENCY- (GALT CLASSICAL)	1
PARTIAL BIOTINIDASE DEFICIENCY	2
CAH- CLASSICAL SALT WASTING	2
CAH-NON-CLASSICAL	0
HYPOTHYROIDISM - PRIMARY	7
HYPOTHYROIDISM - SECONDARY	1
OTHER HYPOTHYROIDISM	3
SICKLE CELL DISEASE -SS	10
SICKLE CELL DISEASE -SC	5
SICKLE CELL DISEASE -S BETA THALASSEMIA	2
CYSTIC FIBROSIS	2

HIV ANTIBODY SCREENING – BLOOD (MAY 2007)

SPECIMEN SOURCES	TOTAL	POSITIVE EIA	%	POSITIVE WB	%
HEALTH DEPARTMENTS AND CLINICS	2,347	106	4.52%	100	94.34%
HOSPITALS	115	3	2.61%	3	100.00%
DETENTION CENTERS	495	13	2.63%	7	53.85%
PRIVATE PHYSICIANS	7	1	14.29%	0	0.00%
STUDENT HEALTH CLINICS	280	0	0.00%	0	0.00%
EMPLOYEE HEALTH CLINICS	2	0	0.00%	0	0.00%
AUTOPSIES	360	13	3.61%	9	69.23%
ORGAN/TISSUE DONORS	68	0	0.00%	0	0.00%
TOTAL	**3,674**	**136**	**3.70%**	**119**	**87.50%**

ENVIRONMENTAL CHEMISTRY

SAMPLES	# NON-COMPLIANT	# TESTED
ASBESTOS		
AIR	4	8
BULK	0	0
AIR QUALITY		
$PM_{2.5}$	0	475
PM_{10}	0	0
RADIATION		
AIR/CHARCOAL FILTERS	0	78
MILK	0	4
WIPES	0	56
RAW WATER	0	15
VEGETATION	0	0
OTHER	0	0
DRINKING WATER		
METALS		
COMMUNITY	2	2
NON-COMMUNITY	1	3
PRIVATE WELLS	75	231
PESTICIDES & PCBs		
COMMUNITY	1	110
NON-COMMUNITY	1	9
PRIVATE WELLS	0	0
VOLATILE ORGANIC COMPOUNDS		
COMMUNITY	2	321
NON-COMMUNITY	0	212
PRIVATE WELLS	0	218
RADIATION		
COMMUNITY	36	64
NON-COMMUNITY	0	0
PRIVATE WELLS	0	3
INORGANICS		
COMMUNITY	0	4
NON-COMMUNITY	6	63
PRIVATE WELLS	4	210
FOOD CHEMISTRY		
SUSPECTED TAMPERING	0	0
MICROSCOPIC FILTH	0	3
LABELING	0	0
SURVEILLANCE	0	4
CHEMICAL CONTAMINATION	0	0
TOTAL	**132**	**2,093**

LEAD ENVIRONMENTAL

TEST	#	ELEV	BRL	UNSAT
TOTAL PAINT	12	6	1	0
TOTAL SOIL	9	5	0	0
DUST FLOOR	507	32	447	0
SILL	562	16	455	0
WELL	317	28	195	1
OTHER	36	7	26	0
TOTAL DUST	**1,422**	**83**	**1,123**	**1**
GRAND TOTAL	**1,443**	**94**	**1,124**	**1**

INTERPRETATION OF RESULTS:
# = Number of Samples Received
ELEV= Elevated
BRL= Below Reporting Limit
UNSAT = Unsatisfactory
PAINT Positive in excess of 0.5%
SOIL Action level 400 - 5,000 ppm
DUST Clearance limits: Floor/Other 40 ug/sq ft
Window Sill 250 ug/sq ft
Window Well 400 ug/sq ft

LEAD SCREENING - BLOOD LEAD

CLASS		RANGE ug/dl	TESTS # of
MARYLAND			
	I	<10	186
	IIA	10-14	11
	IIB	15-19	8
	III	20-44	14
	IV	45-69	1
	V	>69	0
TOTAL			**220**
WASHINGTON DC			
	I	<10	0
	IIA	10-14	0
	IIB	15-19	0
	III	20-44	0
	IV	45-69	0
	V	>69	0
TOTAL			**0**

VIRAL LOAD SPECIMENS (MAY 2007)

HIV–1 RNA Copies/ml	$<10^3$	$10^3 – 10^4$	$10^4 – 10^5$	$>10^5$	TOTALS
ALLEGANY COUNTY HEALTH DEPT.	9	0	1	0	**10**
BALTIMORE COUNTY HEALTH DEPT.	4	0	0	0	**4**
CHEVERLY HEALTH CENTER	51	11	13	8	**83**
DYER/CLINTON HEALTH CENTER	12	1	1	0	**14**
FREDERICK COUNTY HEALTH DEPT.	0	0	1	0	**1**
MONTGOMERY COUNTY HEALTH DEPT.	91	16	18	8	**133**
SOMERSET COUNTY HEALTH DEPT.	0	1	0	0	**1**
SPRINGFIELD HOSPITAL CENTER	1	0	0	0	**1**
WICOMICO COUNTY HEALTH DEPT.	1	0	0	0	**1**
SUBTOTALS	**169**	**29**	**34**	**16**	**248**
DEPT. OF CORRECTIONS	106	20	30	12	**168**
TOTALS	**275**	**49**	**64**	**28**	**416**

MAILING LABEL

Maryland Department of Health & Mental Hygiene
J. Mehsen Joseph Public Health Laboratory
201 West Preston Street
Baltimore Maryland 21201