

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

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MICROBIOLOGY REPORT: The May 2005 issue of Microbiology Monthly Report, Volume 11, presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during April 2006 and new cases of syphilis in Milwaukee during March 2006. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during March is also included.

Legionnaires Disease (April 2006)

No positive case detected.

Pertussis (Whooping cough) April 2006

No positive case detected

Syphilis (April 2006)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	10
VDRL	53	DARK FIELD	0

New Cases of Syphilis

The Wisconsin Division of Health has reported 2 new cases (age 34 and 45 years) of early stages of syphilis during March 2006 in Milwaukee. Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (March 2006 and March 2005)

Stage	Number of Cases	
	March 2006	March 2005
Primary syphilis	0	1
Secondary syphilis	0	1
Early latent	2	2
Late latent	1	1
Total	3	5

Gonorrhea (April 2006)

Number Tested	Decreased Susceptibility (DS) / Resistance (R) antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
57	1 (IR)	0	0	0

Gonorrhea from Other Sources (Aurora Consolidated Labs) April 2006

Number Tested	Decreased Susceptibility (DS) / Resistance (R) antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
3	0	0	0	0

Isolates Other Than *N. gonorrhoeae* (April 2006)

Organism	Site	Number Isolates	Organism	Site	Number Isolates
Ureaplasma urealyticum	Genital	24	Mycoplasma Hominis	Genital	2

Parasitic Enteric Pathogens (April 2006)

Age	Sex	Pathogen	Number Cases
26	F	<i>Trichuris trichuira</i>	1
47	F	<i>Entamoeba coli</i>	1
		<i>Entamoeba histolytica/dispar</i>	
16	F	<i>Blastocystis hominis</i>	1
22	M	<i>Entamoeba coli</i>	1
63	F	<i>Blastocystis hominis</i>	1

Mycobacterial infections (April 2006)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
61	M	-	+	+	<i>M. avium complex</i>

Reference Cultures (April 2006)

Age	Sex	Site/Specimen Source	Culture Identification
28	M	Blood	<i>Streptococcus mutans sp/gp</i>
57	F	Blood	<i>Streptococcus mitis sp/gp</i>
8	M	Hand	<i>Bacillus megaterium</i>
70	F	Blood	<i>Propionibacterium granulosum</i>
63	F	Blood	<i>Streptococcus mitis sp/gp</i>
10days	M	Blood	<i>Alcaligenes xylosoxidans subsp denitrificans</i>
58	M	Rt. Hip	<i>Corynebacterium afermentans</i>
68	M	N.A.	<i>Bacillus sp. NOT anthracis</i>
48	M	Blood	<i>Cardiobacterium hominis</i>
87	F	Stool	<i>Escherichia coli</i>

Bacterial Enteric Pathogens (April 2006)

Age	Sex	Pathogen	Age	Sex	Pathogen
8	F	<i>Shigella sonnei</i>	58	N/A	<i>Salmonella litchfield</i>
6	F	<i>Shigella sonnei</i>	25	F	<i>Salmonella worthington</i>
4	F	<i>Shigella sonnei</i>	27	F	<i>Salmonella paratyphi A</i>
64	F	<i>Shigella flexneri</i> type B6	16	M	<i>Salmonella braenderup</i>
			45	M	<i>Salmonella typhimurium</i>
			13	M	<i>Salmonella typhimurium</i>
			32	M	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
45	F	<i>Salmonella enteritidis</i>	33	F	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
24	F	<i>Salmonella enteritidis</i>	25mo	F	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
24	F	<i>Salmonella enteritidis</i>	20mo	M	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
17	F	<i>Salmonella enteritidis</i>	20mo	M	<i>Salmonella</i> subsp I, serogroup B; I, monophasic

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during March 2006

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Fond du Lac	Kenosha	La Crosse	Marathon	Milwaukee	Outagamie	Portage	Racine	Rock	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm								2								2
	Extra		1														1
Total <i>M. tuberculosis</i> complex																	3
<i>M. avium</i> complex	Pulm		8			3	1	2	44		2	2	1		3	2	68
	Extra		2						1							1	4
<i>M. gordonae</i>	Pulm	3	3	1				1	8	2		2	1			6	27
	Extra																0
<i>M. abscessus</i>	Pulm		1						1								2
	Extra																0
<i>M. chelonae</i>	Pulm	1							1					1		1	4
	Extra			1	1				2								4
<i>M. fortuitum</i> group	Pulm								4								4
	Extra								1						1		2
<i>M. kansasii</i>	Pulm																0
	Extra								1								1
<i>M. marinum</i>	Pulm																0
	Extra								2								2
<i>M. mucogenicum</i>	Pulm			1					5						1		7
	Extra								4								4
<i>M. xenopi</i>	Pulm		1						5								6
	Extra																0
<i>M. simiae</i> complex	Pulm								1								1
TOTALS		4	15	3	1	3	1	3	80	2	2	4	2	1	5	10	136

Extra-Pulmonary Sources of Isolation:

<i>Mycobacterium</i> species	Extra-pulmonary Site of Isolation
<i>M. tuberculosis</i> complex	1 gastric
<i>M. avium</i> complex	1 blood, 1 stool, 1 neck mass, 1 lymph node
<i>M. gordonae</i>	
other <i>Mycobacterium</i> species	<i>chelonae</i> : 1 abdomen, 1 hand, 1 scalp, 1 face; <i>fortuitum</i> group: 1 urine, 1 breast; <i>kansasii</i> : 1 finger; <i>marinum</i> : 1 arm, 1 finger; <i>mucogenicum</i> : 4 blood

Antibiotic Susceptibility: isoniazid=INH (0.2 ug/ml & 1.0 ug/ml), rifampin (1.0 ug/ml), ethambutol (5.0 ug/ml), pyrazinamide=PZA (100 ug/ml)

Drug Resistance	Number of Isolates
Susceptible to all first-line drugs	2
Resistant to INH (0.2 ug/ml) only	
Resistant to both INH concentrations	
Resistant to rifampin only	
Resistant to ethambutol only	
Resistant to PZA, PZA indeterminate, or PZA pending	
Multi-drug resistant	
Not reported (out-of-state patient)	
Susceptibility testing pending	1
TOTAL	

M. bovis BCG susceptibility testing not included.

Source: Mycobacteriology Laboratory Network Data Report, Wisconsin State Laboratory of Hygiene, Madison, WI.

