

SUMMARY OF CONFIRMED INFECTIONS

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The June 2008 issue presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during May 2008 and new cases of syphilis in Milwaukee during April 2007. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during April is also included.

Syphilis (May 2008)

Test	Number Positive	Test	Number Positive
RPR	1	TPPA	12
VDRL	31	DARKFIELD	0

New Cases of Syphilis (April 2008 and April 2007)

Stage	Number of Cases	
	April 2008	April 2007
Primary syphilis	0	2
Secondary syphilis	0	3
Early latent	8	5
Late latent	5	0
Total	13	10

Median age: 41 yr; Age range: 17 – 55 yr
 Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing (May 2008)

Number Tested	Decreased Susceptibility (DS) / Resistance (R) Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
60	6 R	0	0	4 DS

Isolates Other Than *N. gonorrhoeae* (May 2008)

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	1	<i>Mycoplasma hominis</i>	Genital	2

Enteric Parasites Identified (May 2008)

Age	Sex	Parasite
34	M	<i>Blastocystis hominis</i>
12	M	<i>Blastocystis hominis</i>
14	M	<i>Blastocystis hominis</i>
4	M	<i>Entamoeba coli</i>
25	M	<i>Entamoeba coli</i>
3	M	<i>Giardia lamblia</i>
30	F	Hookworm
27	M	<i>Iodamoeba buetschlii</i>

Mycobacterial Infections (May 2008)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
29	M	-	+	+	<i>Mycobacterium gordonae</i>
48	M	-	+	-	<i>Mycobacterium xenopi</i>
26	M	-	+	-	<i>Mycobacterium xenopi</i>
44	M	-	+	-	<i>Mycobacterium xenopi</i>

Reference Cultures (May 2008)

Age	Sex	Source	Culture Identification
39	M	Leg, R	<i>Acinetobacter</i> spp.
20	M	Stool	<i>Campylobacter jejuni</i>
74	F	Stool	<i>Citrobacter</i> spp.
75	F	Blood	<i>Escherichia coli</i>
60	M	Stool	<i>Escherichia coli</i> O157:H7
4m	M	Eye	<i>Haemophilus aphrophilus</i>
5	F	Groin	<i>Moraxella osloensis</i>
76	F	Blood	<i>Moraxella osloensis</i>
23	F	Cervix	<i>Neisseria gonorrhoeae</i>
18	F	Vagina	<i>Neisseria gonorrhoeae</i>
65	F	Vagina	<i>Neisseria gonorrhoeae</i>
20	F	Vagina	<i>Neisseria gonorrhoeae</i>
23	F	Vagina	<i>Neisseria gonorrhoeae</i>
27	F	Perineum-vagina	<i>Neisseria gonorrhoeae</i>
61	F	Blood	<i>Paenibacillus macerans</i>
3	F	Skin (periorbital lesion)	<i>Rhodococcus rhodochrous</i>
27	M	Stool	<i>Salmonella</i> Braenderup
5	M	Stool	<i>Salmonella</i> Derby

54	M	Blood	<i>Salmonella enterica</i> subspecies IIIa (<i>arizonae</i>)
25	F	Stool	<i>Salmonella</i> Enteritidis
11	M	Stool	<i>Salmonella</i> Enteritidis
43	F	Stool	<i>Salmonella</i> Enteritidis
23	M	Stool	<i>Salmonella</i> Heidelberg
64	M	Stool	<i>Salmonella</i> 4, [5], 12:i:-
36	M	Stool	<i>Salmonella</i> Reading
22	M	Stool	<i>Salmonella</i> Stanleyville
53	M	Stool	<i>Shigella flexneri</i> type 2
4	M	Stool	<i>Shigella sonnei</i>
4	M	Stool	<i>Shigella sonnei</i>
6	M	Stool	<i>Shigella sonnei</i>
7	M	Stool	<i>Shigella sonnei</i>
5	F	Stool	<i>Shigella sonnei</i>
3	F	Stool	<i>Shigella sonnei</i>
37	M	Stool	<i>Shigella sonnei</i>
30m	M	Stool	<i>Shigella sonnei</i>
30m	M	Stool	<i>Shigella sonnei</i>

Bacterial Enteric Pathogens (May 2008)

Age	Sex	Pathogen
32	F	<i>Shigella sonnei</i>

Antimicrobial Susceptibility of *Shigella sonnei* Associated with 2007-08 Outbreak (May 2008)

Number Tested	Decreased Susceptibility (DS) / Resistance (R) Antibiotics		
	Ampicillin	Norfloxacin	Sulfamethoxazole-Trimethoprim (SXT)
10	0	0	9 R

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during month of April, 2008

<i>Mycobacterium</i> species		Dane	Eau Claire	Kenosha	La Crosse	Manitowoc	Marathon	Milwaukee	Outagamie	Racine	Rock	Waukesha	Winnebago	Wood	TOTAL S
<i>M. tuberculosis</i> complex	Pulm							1							1
	Extra							2							2
Total <i>M. tuberculosis</i> complex		0	0	0	0	0	0	3	0	0	0	0	0	0	3
<i>M. avium</i> complex	Pulm	5			1	1	7	33				3	3	2	55
	Extra	3			1			2							6
<i>M. gordonae</i>	Pulm	7		2			1	9		1	3		1	1	25
	Extra	2						2							4
<i>M. chelonae-abscessus</i>	Pulm							4		1		1			6
	Extra		1		1			1							3
<i>M. fortuitum</i> group	Pulm	1					2	1							4
	Extra								1						1
<i>M. kansasii</i>	Pulm							2							2
<i>M. mucogenicum</i>	Pulm							2	1					1	4
	Extra							1							1
<i>M. xenopi</i>	Pulm							4				1			5
<i>M. goodii</i>	Pulm							1							1
TOTALS		18	1	2	3	1	10	62	2	2	3	5	4	4	117

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	1 pleural, 1 neck mass
<i>M. avium</i> complex Extra-pulmonary:	1 urine, 2 blood, 2 stool, 1 thumb
<i>M. gordonae</i> Extra-pulmonary:	3 urine, 1 sinus
Other <i>Mycobacterium</i> species	<i>M. chelonae/abscessus</i> : 1 hand mass, 1 blood, 1 skin-neck; <i>M. fortuitum</i> group: 1 CSF; <i>M. mucogenicum</i> : 1 blood

***M. tuberculosis* complex First-Line Drug Susceptibility Testing*:**

Drug Resistance	Number of Isolates
Susceptible to all first-line drugs	2
Out of State (susceptible to all first line drugs)	1
TOTAL	3

(*) Drugs tested: isoniazid=INH (0.2 ug/ml and 1.0 ug/ml), rifampin (1.0 ug/ml), ethambutol (5.0 ug/ml), and pyrazinamide=PZA (100 ug/ml).

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

SUMMARY OF CONFIRMED INFECTIONS

June 2008 Report

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May 2008 Data

Virus Isolations

Age	Sex	Specimen	Symptoms	Agent
22	M	Throat swab	Cough, fever, myalgias	Adenovirus
9 m	M	NP swab	Autopsy	Parainfluenza Virus Type-3
8	M	NP/MRC-5	Referred isolate	Rhinovirus
3	F	NP swab	Autopsy	Rhinovirus
2 m	F	NP swab	Autopsy	Cytomegalovirus

Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes Simplex Type-1	5
Herpes Simplex Type-2	11

Molecular/PCR Assays

Agent	Method	Tested	Positive	% Positive
<i>Chlamydia trachomatis</i>	ProbeTec	720	92	12.8%
<i>Neisseria gonorrhoeae</i>	ProbeTec / GenProbe	984	86	8.7%
Adenovirus	Real-time PCR	1	1	100.0%
Influenza virus	Real-time RT-PCR	16	0	0.0%
Herpes simplex virus	Real-time PCR	1	1	100.0%
Parainfluenza Virus	Real-time RT-PCR	1	1	100.0%

***Important News:** Effective October 1, 2008 the Milwaukee Health Department Laboratory will no longer offer *Chlamydia pneumoniae* culture.



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