City of Milwaukee Health Department Laboratory
Microbiology Section
www.milwaukee.gov/healthlab

SUMMARY OF CONFIRMED INFECTIONS

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

Legionnaires Disease (June, 2008)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
71	M	+	ND	ND

ND = Not done

Syphilis (June 2008)

Test	Number Reactive	Test	Number Positive
RPR	1	TPPA	8
VDRL	30	DARKFIELD	0

New Cases of Syphilis (May 2008 and May 2007)

Stage	Number of Cases	
	May 2008	May 2007
Primary syphilis	0	1
Secondary syphilis	2	2
Early latent	4	9
Late latent	1	1
Total	7	13

Median age: 40 yr; Age range: 22 – 48 yr
Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing (June 2008)

Number Tested	Decreased Susceptibility (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
58	4 R	0	0	0

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
Ureaplasma urealyticum	Genital	1	*Mycoplasma hominis*	Genital	1

Enteric Parasites Identified (June 2008)

Age	Sex	Parasite
11	M	*Blastocystis hominis*
15	F	*Blastocystis hominis*
19	F	*Blastocystis hominis*
41	M	*Blastocystis hominis*
		Entamoeba species
7	M	*Entamoeba coli*
9	F	*Entamoeba coli*
45	F	*Entamoeba dispar/Entamoeba histolytica*
40	M	*Giardia lamblia*
31	F	*Giardia lamblia*
22	M	*Giardia lamblia*
		Blastocystis hominis
24	M	Hookworm

Mycobacterial Infections (June 2008)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
64	F	-	+	ND	*M. xenopi*
					M. avium complex
44	F	-	+	ND	*M. xenopi*
67	M	+	+	+	*M. avium* complex
		+	+	ND	*M. abscessus*
		+	+	ND	*M. mucogenicum*
34	M	-	+	+	*M. tuberculosis*
46	M	-	+	+	*M. tuberculosis*
22	M	-	+	+	*M. tuberculosis*
48	M	-	+	+	*M. avium complex*

Reference Cultures (June 2008)

Age	Sex	Source	Culture Identification
60	M	Blood	*Bacillus megaterium*
92	F	Blood	*Bacillus* species NOT *Bacillus anthracis*
14	F	Blood	*Brucella melitensis*

74	F	Urine	*Escherichia coli*
69	F	Surface Wound	*Flavimonas oryzihabitans* (Group Ve-2)
54	F	Blood	*Moraxella osloensis*
81	F	Surface Wound	*Myroides* species
17	F	Vagina	*Neisseria gonorrhoeae*
20	M	Throat	*Neisseria meningitidis*
5m	M	Blood	*Neisseria meningitidis* serogroup Y
70	F	Sputum	*Neisseria subflava*
79	M	Urine	*Pantoea* species
79	M	Urine	*Pantoea* species
44	M	Stool	*Salmonella* Enteritidis
21	F	Stool	*Salmonella* Enteritidis
3	F	Stool	*Salmonella* Enteritidis
29	F	Stool	*Salmonella* Enteritidis
78	F	Stool	*Salmonella* group C1
43	F	Stool	*Salmonella* group C1
82	M	Blood	*Salmonella* Hadar
82	M	Stool	*Salmonella* Hadar
92	F	Urine	*Salmonella* Hadar
59	M	Stool	*Salmonella* Hartford
50	M	Stool	*Salmonella* Heidelberg
47	F	Stool	*Salmonella* Heidelberg
4	F	Stool	*Salmonella* Infantis
29	F	Stool	*Salmonella* Miami
35	F	Stool	*Salmonella* Newport
31	M	Stool	*Salmonella* Oranienburg
47	F	Stool	*Salmonella* Putten
5	M	Stool	*Salmonella* Typhimurium
30	F	Stool	*Salmonella* Typhimurium
5	M	Stool	*Salmonella* Typhimurium
13	F	Stool	*Salmonella* Typhimurium
56	F	Stool	*Salmonella* Typhimurium
23m	M	Stool	*Shigella flexneri* type 3
11	M	Stool	*Shigella flexneri* type 3
14	M	Stool	*Shigella sonnei*
31m	M	Stool	*Shigella sonnei*
7	M	Stool	*Shigella sonnei*
5	M	Stool	*Shigella sonnei*

42	M	Stool	*Shigella sonnei*
28m	M	Stool	*Shigella sonnei*
4	F	Stool	*Shigella sonnei*
4m	F	Stool	*Shigella sonnei*
34	F	Stool	*Shigella sonnei*
9m	F	Stool	*Shigella sonnei*
46	M	Urine	*Stenotrophomonas maltophilia*

Bacterial Enteric Pathogens (June 2008)

Age	Sex	Pathogen	Age	Sex	Pathogen
3	M	*Shigella sonnei*	25	F	*Shigella sonnei*
7	M	*Shigella sonnei*	30	F	*Shigella sonnei*
7	M	*Shigella sonnei*	7	F	*Shigella sonnei*
5	M	*Shigella sonnei*	9	M	*Shigella sonnei*
3	M	*Shigella sonnei*	32	M	*Shigella sonnei*

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

Number Tested	Decreased Susceptibility (DS) / Resistant (R) Antibiotics		
	Ampicillin	Norfloxacin	Sulfamethoxazole-Trimethoprim (SXT)
20	2 R	0	16 R

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

***Mycobacterium* species**		**Brown**	**Dane**	**Eau Claire**	**Kenosha**	**La Crosse**	**Manitowoc**	**Marathon**	**Milwaukee**	**Outagamie**	**Rock**	**Sheboygan**	**Waukesha**	**Winnebago**	**Wood**	**TOTALS**
M. tuberculosis complex	Pulm								2			2				**4**
	Extra								3				2			**5**
Total *M. tuberculosis* complex		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**2**	**2**	**0**	**0**	**9**
***M. avium* complex**	Pulm	3	3	1	1	1	1	1	27	1	1		2	3	4	**49**
	Extra		2						1							**3**
M. gordonae	Pulm	2	3	4		2		3	6	1	3			1	2	**27**
M. chelonae-abscessus	Pulm	1		2				1	7							**11**
	Extra															**0**
M. fortuitum *group*	Pulm					1			2		1					**4**
	Extra															**0**
M. kansasii	Pulm										1		1			**2**
M. marinum	Extra								1							**1**
M. mucogenicum	Pulm			1					1						2	**4**
	Extra								2							**2**
M. xenopi	Pulm								7							**7**
M. kubicae	Pulm								1							**1**
M. lentiflavum	Pulm				1											**1**
M. neoaurum	Extra		1													**1**
M. scrofulaceum	Pulm										1					**1**
	Extra	1														**1**
M. simiae	Pulm										1					**1**
TOTALS		**7**	**9**	**8**	**2**	**4**	**1**	**5**	**55**	**2**	**8**	**0**	**3**	**4**	**8**	**116**

Extra-Pulmonary Sources of Isolation:

M. tuberculosis Extra-pulmonary:	1 chest wall, 2 lymph node, 1 urine, 1 pleural
M. avium complex Extra-pulmonary:	1 frontal cortex, 1 submandibular, 1 mediastinal abscess
Other Mycobacterium species	*M. marinum*: 1 wrist; *M. mucogenicum*: 2 blood; *M. neoaurum:* 1 blood; *M. scrofulaceum*: 1 neck

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

Drug Resistance	**Number of Isolates**
Susceptible to all first-line drugs	8
Multi-drug resistant	1[£]
TOTAL	9

(*) 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).

(£) 1 isolate was resistant to INH, rifampin, and ethambutol.

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

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City of Milwaukee Health Department Laboratory
Virology & Molecular Diagnostic Section
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SUMMARY OF CONFIRMED INFECTIONS

July 2008 Report

Sanjib Bhattacharyya., Ph.D.

June 2008 Data

Age	Sex	Specimen	Symptoms	Agent
3	M	NP/MRC-5	Referred Isolate	Rhinovirus

Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes Simplex type 1	5
Herpes Simplex type 2	8

Agent	Method	Tested	Positive	% Positive
Chlamydia trachomatis	ProbeTec	684	87	12.7%
Neisseria gonorrhoeae	ProbeTec / GenProbe	915	84	9.2%
Adenovirus	Real-time PCR	1	0	0.0%
Respiratory Syncitial Virus	Real-time RT-PCR	1	0	0.0%

Important News

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

Sanjib Bhattacharyya, Ph.D.
Chief Molecular Scientist

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***Salmonella* Saintpaul outbreak update and Milwaukee experience:**

CDC continues the S. Saintpaul outbreak investigation with 1,167 persons infected nationwide since April from 42 states, including 13 Wisconsin and 1 Milwaukee county case (not City of Milwaukee). The single isolate identified does not appear to have the PFGE pattern associated with this outbreak. Raw tomtatoes, fresh jalapeno peppers and fresh cilantro have individually been linked to some of the outbreak investigations and remain under study. (http://www.cdc.gov/salmonella/saintpaul/)

S. Saintpaul is a relatively uncommon serotype. The City Lab's last isolate was in December of 2007. In the last 22 years the City Lab has identified 43 S. Saintpaul of 2,636 salmonella. S. Saintpaul is our 10th most common isolate of 187 different serotypes identified over that time period.

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