

SUMMARY OF CONFIRMED INFECTIONS

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

Legionnaires Disease (August, 2008)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
74	M	+	ND	ND
54	F	+	ND	ND
86	M	+	ND	ND

ND = Not done

Syphilis (August 2008)

Test	Total	Test	Total
RPR Reactive	1	TPPA Reactive	12
VDRL Reactive	33	Darkfield Positive	0

New Cases of Syphilis (July 2008 and July 2007)

Stage	Number of Cases	
	July 2008	July 2007
Primary syphilis	1	2
Secondary syphilis	0	3
Early latent	6	1
Late latent	0	0
Total	7	6

Median age: 30 yr; Age range: 17 – 39 yr

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing (August 2008)

Number Tested	Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
60	4 (R)	0	0	0

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	0	<i>Mycoplasma hominis</i>	Genital	1

Enteric Parasites Identified (August 2008)

Age	Sex	Parasite
7	F	<i>Blastocystis hominis</i>
31m	M	<i>Blastocystis hominis</i>
35	F	<i>Blastocystis hominis</i>
31	F	<i>Blastocystis hominis</i>
44	M	<i>Blastocystis hominis</i>
40	F	<i>Blastocystis hominis</i> <i>Entamoeba</i> species
18	M	<i>Blastocystis hominis</i> <i>Entamoeba coli</i>
46	M	<i>Entamoeba coli</i>
28	F	<i>Entamoeba coli</i>
9	M	<i>Entamoeba coli</i>
29m	F	<i>Entamoeba coli</i>
12	F	<i>Entamoeba coli</i>
9	M	<i>Entamoeba coli</i> <i>Entamoeba</i> species
33	M	<i>Entamoeba coli</i> Hookworm
14	M	<i>Entamoeba coli</i> <i>Iodamoeba buetschlii</i>
38	M	<i>Entamoeba histolytica/Entamoeba dispar</i>
8	M	<i>Endolimax nana</i>
37	M	<i>Endilimax nana</i>
10	F	<i>Giardia lamblia</i>
12	F	<i>Giardia lamblia</i>
6	F	<i>Giardia lamblia</i>
27	F	<i>Hymenolepis nana</i>
11	F	<i>Trichuris trichiura</i>
14	F	<i>Trichuris trichiura</i>

Mycobacterial Infections (August 2008)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
35	M	+	+	+	<i>M. avium</i> complex
60	M	-	+	+	<i>M. avium</i> complex
21	M	-	+	+	<i>M. avium</i> complex
16	M	-	+	+	<i>M. avium</i> complex
46	M	-	+	+	<i>M. avium</i> complex
		-	+	ND	<i>M. xenopi</i>
45	M	-	+	+	<i>M. avium</i> complex
		-	+	ND	<i>M. abscessus</i>
24	F	-	+	+	<i>M. avium</i> complex
		-	+	+	<i>M. tuberculosis</i>
18	M	-	+	ND	<i>M. abscessus</i>
41	M	-	+	ND	<i>M. abscessus</i>
25	F	-	+	ND	<i>M. xenopi</i>

Reference Cultures (August 2008)

Age	Sex	Source	Culture Identification
85	M	Blood	<i>Bacillus</i> species NOT <i>Bacillus anthracis</i>
20	F	Lung tissue	<i>Bacillus circulans</i>
64	M	Blood	<i>Bacillus megaterium</i>
59	M	Blood	<i>Bacillus megaterium</i>
6	M	Stool	<i>Campylobacter jejuni</i>
13m	M	Stool	<i>Campylobacter jejuni</i>
84	M	Blood	<i>Capnocytophaga</i> species
64	M	Stool	<i>Edwardsiella tarda</i>
72	M	Blood	<i>Enterococcus faecium</i>
72	M	Gallbladder	<i>Enterococcus faecium</i>
53	M	Sputum	<i>Legionella pneumophila</i>
26	F	Not specified	<i>Neisseria gonorrhoeae</i>
23	F	Not specified	<i>Neisseria gonorrhoeae</i>
18	F	Cervix	<i>Neisseria gonorrhoeae</i>
44	F	Cervix	<i>Neisseria gonorrhoeae</i>
8	M	Chin	<i>Nocardia brasiliensis</i>
65	M	Blood	<i>Moraxella osloensis</i>
20	F	Stool	<i>Salmonella</i> Bareilly
68	F	Urine	<i>Salmonella</i> Derby
72	M	Blood	<i>Salmonella</i> Dublin

56	M	Stool	<i>Salmonella</i> Dublin
24	F	Stool	<i>Salmonella</i> Enteritidis
6	F	Stool	<i>Salmonella</i> Enteritidis
34	F	Stool	<i>Salmonella</i> Enteritidis
25	M	Stool	<i>Salmonella</i> Enteritidis
31	F	Stool	<i>Salmonella</i> Enteritidis
49	M	Stool	<i>Salmonella</i> Enteritidis
51	M	Stool	<i>Salmonella</i> Enteritidis
7	F	Stool	<i>Salmonella</i> Enteritidis
9m	M	Stool	<i>Salmonella</i> Group B, 4,[5],12:i:-
52	F	Stool	<i>Salmonella</i> Newport
6	F	Stool	<i>Salmonella</i> Typhimurium
75	M	Stool	<i>Salmonella</i> Typhimurium
66	F	Stool	<i>Salmonella</i> Uganda
48	F	Stool	<i>Shigella flexneri</i> type 2
25	F	Stool	<i>Shigella sonnei</i>
7	F	Urine	<i>Shigella sonnei</i>
33	F	Stool	<i>Vibrio cholerae</i> non-01

Clinical Enteric Pathogens (August 2008)

Age	Sex	Source	Pathogen
30	M	Stool	<i>Shigella sonnei</i>
3	M	Stool	<i>Shigella sonnei</i>
6	M	Stool	<i>Shigella sonnei</i>
8	F	Stool	<i>Shigella sonnei</i>
6	F	Stool	<i>Shigella sonnei</i>

Antimicrobial Susceptibility of *Shigella sonnei* Isolates (August 2008)

Number Tested	Decreased Susceptibility (DS) / Resistant (R) Antibiotics		
	Ampicillin	Norfloxacin	Sulfamethoxazole-Trimethoprim (SXT)
6	0	1(R)	5 (R)

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

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Fond du Lac	Kenosha	La Crosse	Manitowoc	Marathon	Milwaukee	Monroe	Outagamie	Racine	Rock	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm		1				2			1							1	5
	Extra								1	1			1					3
Total <i>M. tuberculosis</i> complex		0	1	0	0	0	2	0	1	2	0	0	1	0	0	0	1	8
<i>M. avium</i> complex	Pulm	1	5			3	1	1		50	1	1			2		1	66
	Extra									1								1
<i>M. gordonae</i>	Pulm	3	5	4	1		1		1	6				1	1	1	1	25
	Extra		1															1
<i>M. chelonae-abscessus</i>	Pulm					1	2		1	7		1						12
	Extra			1														1
<i>M. fortuitum</i> group	Pulm									2								2
	Extra																	0
<i>M. kansasii</i>	Pulm		1															1
<i>M. marinum</i>	Pulm																	0
	Extra									1								1
<i>M. mucogenicum</i>	Pulm		1									1						2
	Extra									1							1	2
<i>M. xenopi</i>	Pulm		2							1								3
<i>M. scrofulaceum</i>	Pulm			1														1
<i>M. simiae</i> complex	Pulm	1																1
<i>M. terrae</i> complex	Pulm																1	1
TOTALS:		5	15	6	1	4	4	1	2	69	1	3	0	1	3	1	4	120

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	2 lymph node, 1 axilla
<i>M. avium</i> complex Extra-pulmonary:	1 pleural
<i>M. gordonae</i> Extra-pulmonary:	1 stool
Other <i>Mycobacterium</i> species	<i>M. chelonae/abscessus</i> : 1 hand mass; <i>M. marinum</i> : 1 hand; <i>M. mucogenicum</i> : 1 abdomen, 1 blood

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

Drug Resistance	Number of Isolates
Susceptible to all first-line drugs	7
Out of State- testing not performed	1
TOTAL	8

(*) 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.

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 Laboratory Director

September 2008

Sanjib Bhattacharyya, PhD

 Chief Molecular Scientist

August 2008 Data

Age	Sex	Source	Symptoms	Agent
7 wk	M	Rectal	Referred isolate	Echovirus Type 11
4 mo	M	Small intestine	Autopsy	Coxsackievirus Type A16 and Parechovirus Type 4

Herpes Simplex Virus Isolations

Agent	Number of Isolates
<i>Herpes Simplex</i> type 1	4
<i>Herpes Simplex</i> type 2	12

Agent	Method	Tested	Positive	% Positive
<i>Chlamydia trachomatis</i>	ProbeTec	762	112	14.7%
<i>Neisseria gonorrhoeae</i>	ProbeTec / GenProbe	1007	143	14.2%
<i>Herpes Simplex</i> Virus	Real-time PCR	4	3	75.0%
Parechovirus Virus	Real-time RT-PCR	2	1	50.0%

Important News

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