

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

August 2005 Vol. 10, No. 8

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MICROBIOLOGY REPORT: The August 2005 issue of Microbiology Monthly Report, Volume 9, presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during July 2005 and new cases of syphilis in Milwaukee during June 2005. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during June is also included.

Legionnaires Disease (July 2005)

No positive case detected.

Pertussis (Whooping cough, July 2005)

No positive case detected.

Syphilis (July 2005)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	14
VDRL	37	DARKFIELD	0

New Cases (Syphilis)

The Wisconsin Division of Health has reported 6 new cases (early stages) of syphilis during June 2005 in Milwaukee. The median age of early syphilis cases is 32.0 years (range: 26-51 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (June 2005 and June 2004)

Stage	Number of Cases	
	June 2005	June 2004
Primary syphilis	0	0
Secondary syphilis	1	0
Early latent	5	2
Late latent	2	2
Total	8	4

Gonorrhea (MHD – July 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
30	0	0	0	0

Gonorrhea from Other Sources (July 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
8	0	0	0	0

Isolates Other Than *N. gonorrhoeae* (July 2005)

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	13	<i>Mycoplasma hominis</i>	Genital	4

Parasitic Enteric Pathogens (July 2005)

No parasite detected.

Mycobacterial Infections (July 2005)

Age & sex	Test results			Identification
	Sputum smear	Culture	DNA probe	
36 M	-	+	+	<i>Mycobacterium avium</i> Complex

Reference Cultures (July 2005)

Age	Sex	Site/Specimen Source	Culture Identification
8	M	Stool	<i>Escherichia coli</i> O157:H7
41	F	Wound	<i>Pasteurella</i> species
78	M	Blood	<i>Propionibacterium acnes</i>
78	M	Blood	<i>Propionibacterium acnes</i>
78	M	Blood	<i>Propionibacterium acnes</i>
78	M	Blood	<i>Actinomyces neuii</i>
71	M	Blood	<i>Bacillus</i> species, NOT <i>B. anthracis</i>
52	M	Wound	<i>Neisseria weaveri</i>
52	M	Blood	<i>Psychrobacter phenylpyruvicus</i>
48	M	Blood	<i>Comamonas</i> species
57	M	Blood	<i>Roseomonas</i> species
12	F	Stool	<i>Escherichia coli</i> O157:H7
5mo	F	Stool	<i>Escherichia coli</i> O157:H7
68	F	Urine	<i>Escherichia coli</i>
9	M	Stool	<i>Plesiomonas shigelloides</i>
5	M	Blood	<i>Bacillus</i> species, NOT <i>B. anthracis</i>

Bacterial Enteric Pathogens (July 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
3	M	<i>Shigella sonnei</i>	3	M	<i>Salmonella gp B;l,monophasic</i>
3	F	<i>Shigella sonnei</i>	23	F	<i>Salmonella panama</i>
8	F	<i>Shigella sonnei</i>	17	M	<i>Salmonella typhimurium</i>
3mo	M	<i>Shigella sonnei</i>	43	M	<i>Salmonella enteritidis</i>
29mo	F	<i>Shigella sonnei</i>	7	M	<i>Salmonella enteritidis</i>
43	M	<i>Shigella sonnei</i>	50	F	<i>Salmonella derby</i>
10mo	F	<i>Shigella sonnei</i>	5	F	<i>Salmonella heidelberg</i>
25mo	M	<i>Shigella sonnei</i>	45	F	<i>Salmonella norwich</i>
7	F	<i>Shigella sonnei</i>	50	F	<i>Salmonella enteritidis</i>
32	F	<i>Shigella sonnei</i>	31	M	<i>Salmonella berta</i>
			42	F	<i>Salmonella mbandaka</i>
			19	M	<i>Salmonella derby</i>
			22mo	M	<i>Salmonella berta</i>
			67	M	<i>Salmonella berta</i>

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during June 2005:

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Fond du Lac	La Crosse	Marathon	Milwaukee	Outagamie	Portage	Racine	Rock	Sheboygan	Washington	Waukesha	Winnebago	Wood	TOTAL
<i>M. tuberculosis</i> complex	Pulm		1				1	3										5
	Extra		1												1			2
Total <i>M. tuberculosis</i> complex			2				1	3							1			7
<i>M. avium</i> complex	Pulm	2	4	1			1	49			3				4	2	4	70
	Extra					1		1										2
<i>M. goodii</i>	Pulm	2	8	1		2	1	11	1	1		1	2	1		1	1	33
	Extra							3										3
<i>M. abscessus</i>	Pulm							2	1									3
	Extra							2										2
<i>M. chelonae</i>	Pulm							1								1		2
	Extra							1										1
<i>M. fortuitum</i> group	Pulm		1					5	1			1						8
	Extra																	0
<i>M. kansasii</i>	Pulm				1			2										3
	Extra																	0
<i>M. marinum</i>	Pulm																	0
	Extra							1							2			3
<i>M. mucogenicum</i>	Pulm							4										4
	Extra							1										1
<i>M. xenopi</i>	Pulm							4							1			5
	Extra																	0
<i>M. scrofulaceum</i>	Pulm	1																1
<i>M. fortuitum</i> complex	Pulm						1											1
<i>M. goodii</i>	Pulm							1										1
<i>M. intermedium</i>	Pulm							1										1
<i>M. terrae</i> complex	Extra								1									1
TOTALS		5	13	2	1	3	3	89	4	1	3	2	2	1	7	4	5	145

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	1 neck mass, 1 abdominal fluid
<i>M. avium</i> complex Extra-pulmonary:	1 sinus, 1 finger bone
<i>M. gordonae</i> Extra-pulmonary:	1 peritoneal, 1 lymph node, 1 stool
Other <i>Mycobacterium</i> species	1 <i>abscessus</i> whole blood, 1 <i>abscessus</i> mastoid, 1 <i>chelonae</i> blood, 3 <i>marinum</i> hand, 1 <i>mucogenicum</i> bone, 1 <i>terrae</i> complex wrist

Wisconsin TB Isolations and Antibiotic Susceptibilities:

5 TBC isolates reported by Wisconsin laboratories this month were from Wisconsin TB cases. 1 was from IL, 1 was from outside the USA.

2 of the TB isolates were susceptible to all first-line drugs tested.

1 TB isolate was resistant to rifampin and susceptible to other first-line drugs.

The susceptibility test results from 3 TB isolates are pending. Susceptibility testing was not performed on the isolate from the TB patient residing in Illinois

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

SUMMARY OF CONFIRMED VIRUS INFECTIONS

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MILWAUKEE HEALTH DEPARTMENT

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WEBSITE: www.milwaukee.gov/healthlab

"We welcome any question or comments you have. Please see our "Feedback" form on our website.

VIRUS ISOLATION: WEEKS OF AUGUST 3RD THROUGH AUGUST 23, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 15 yr	No Information	Throat Swab	08/10/05	Coxsackievirus B5
M 5 yr	Aseptic meningitis	CSF/RMK Cells	08/05/05	Coxsackievirus B5
F 25 yr	Aseptic meningitis	CSF	08/10/05	Echovirus 18
M 6 mo	Infant death	Autopsy Colon Swab	08/08/05	Echovirus 18
M 31 mo	Died	Autopsy Colon Swab	08/09/05	Echovirus 18
M 6 days	Fever	NP Swab/RMK Cells	08/03/05	Echovirus 18
F 18 yr	Aseptic meningitis	CSF	07/25/05	Echovirus 18

NOTE : Enterovirus cases 2005 to date:

1 x coxA4 ; 1 x coxA20; 7 x coxB5 ; 5 x echo-18 Total cases = 14
Same time 2004 total cases = 7

M 6 mo	Diarrhea	Stool	08/09/05	Adenovirus by culture and adeno 40/41 by EIA
M 13 mo	Diarrhea	Stool	08/02/05	Adeno 40/41 by EIA

M 32 yr	S.T.D.	Penis Lesion Swab	08/22/05	HSV (Type 2 CPE)
F 23 yr	S.T.D.	Genital Lesion Swab	08/19/05	HSV (Type 2 CPE)
F 6 yr	Oral Lesion	Mouth Swab	08/17/05	HSV (Type 1 CPE)
M 29 yr	L-upper arm lesions	Arm Lesion Swab	08/17/05	HSV (Type 2 CPE)
M 26 yr	S.T.D.	Penis Lesion Swab	08/16/05	HSV (Type 2 CPE)
M 25 yr	S.T.D.	Penis Lesion Swab	08/15/05	HSV (Type 2 CPE)
F 37 yr	S.T.D.	Vaginal Lesion Swab	08/15/05	HSV (Type 2 CPE)

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VIRUS ISOLATION: WEEKS OF AUGUST 3RD THROUGH AUGUST 23, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 35 yr	S.T.D.	Vaginal Lesion Swab	08/12/05	HSV (Type 2 CPE)
F 20 yr	S.T.D.	Vulvar Lesion Swab	08/10/05	HSV (Type 1 CPE)
M 24 yr	S.T.D.	Urethral Swab Penis Lesion Swab	08/09/05 08/09/05	HSV (Type 1 CPE) HSV (Type 1 CPE)
M 32 yr	Eye Lesion	Eye Swab	08/09/05	HSV (Type 1 CPE)
M 38 yr	S.T.D.	Penis Lesion Swab	08/05/05	HSV (Type 2 CPE)
F 17 yr	S.T.D.	Labial Lesion Swab	08/02/05	HSV (Type 2 CPE)
F 15 yr	S.T.D.	Genital Lesion Swab	08/02/05	HSV (Type 2 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
F 28 yr	S.T.D. Clinic; HIV Screen	08/12/05	HIV+ by EIA
F 55 yr	A.R.D.	06/10/05	Mycoplasma pneumoniae CF 64 → 64
F 85 yr	A.R.D.	06/24/05	Parainfluenza 3 CF 64 → 64



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GVS:cms