

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

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MICROBIOLOGY REPORT: The July 2005 issue of Microbiology Monthly Report, Volume 10, presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during June 2005 and new cases of syphilis in Milwaukee during May 2005. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during May is also included.

Legionnaires Disease (June 2005)

No positive case detected.

Pertussis (Whooping cough, June 2005)

No positive case detected.

Syphilis (June 2005)

Test	Number Positive	Test	Number Positive
RPR	2	FTA-ABS	19
VDRL	44	DARKFIELD	0

New Cases (Syphilis)

The Wisconsin Division of Health has reported 1 new case (age 37 years) of syphilis (early stages) during May 2005 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 (May 2005 and May 2004)

Stage	Number of Cases	
	May 2005	May 2004
Primary syphilis	0	0
Secondary syphilis	0	3
Early latent syphilis	1	2
Late latent syphilis	0	2
Total	1	7

Gonorrhea (MHD – June 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
61	1 (I)	0	0	3 (DS)

Gonorrhea from Other Sources (June 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
3	0	0	0	2 (DS)

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	18	<i>Mycoplasma hominis</i>	Genital	5

Parasitic Enteric Pathogens (June 2005)

Age	Sex	Pathogen	Number Cases
3*	M*	<i>Giardia lamblia</i>	1
		<i>Entamoeba coli</i>	
23mo	F	<i>Giardia lamblia</i>	1
27mo	F	<i>Giardia lamblia</i>	1
26	M	<i>Giardia lamblia</i>	1
5	F	<i>Giardia lamblia</i>	1
18	M	<i>Entamoeba coli</i>	1

Reference Cultures (June 2005)

Age	Sex	Site/Specimen Source	Culture Identification
7d	M	Other	<i>Gardnerella vaginalis</i>
75	F	Sputum	<i>Pseudomonas sp.</i>
75	M	Abscess	<i>Haemophilus aphrophilus</i>
61	M	Blood	<i>Bacillus sp NOT arathracis</i>
79	F	Blood	<i>Acinetobacter lwoffii</i>
67	F	Pleural fluid	<i>Streptococcus anginosus group</i>
35	F	Brain abscess	<i>Streptococcus anginosus group</i>
50	F	Tissue	<i>Propionibacterium acnes</i>
55	F	Stool	<i>Campylobacter jejuni</i>
74	M	Stool	<i>Campylobacter jejuni</i>
78	F	Blood	<i>Propionibacterium acnes</i>
38	M	Other	<i>Pantoea sp.</i>
78	M	Blood	<i>Propionibacterium acnes</i>
68	M	Right hip	<i>Psychrobacter phenylpyruvicus</i>

Mycobacterial infections (June 2005)

Age & sex	Test results			Identification
	Sputum smear	Culture	DNA probe	
38y F	Negative	Positive	Positive	M. tuberculosis
40y M	Negative	Positive	Positive	M. avium complex
50y F	Negative	Positive	Positive	M. avium complex
54y M	Negative	Positive	Positive	M. avium complex

*Dual infection

Bacterial Enteric Pathogens (June 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
41	F	<i>Shigella flexneri</i> type 2	45	F	<i>Salmonella hadar</i>
40	F	<i>Shigella sonnei</i>	41	M	<i>Salmonella paratyphi B</i> var <i>java</i>
16	F	<i>Shigella sonnei</i>	63	M	<i>Salmonella enteritidis</i>
29	M	<i>Shigella sonnei</i>	4mo	F	<i>Salmonella enteritidis</i>
29	F	<i>Shigella sonnei</i>			<i>Salmonella newport</i>
16	M	<i>Shigella sonnei</i>	84	M	<i>Salmonella enteritidis</i>
10	F	<i>Shigella sonnei</i>	40	F	<i>Salmonella typhimurium</i>
10	F	<i>Shigella sonnei</i>	93	F	<i>Salmonella typhimurium</i>
3	M	<i>Shigella sonnei</i>	50	M	<i>Salmonella typhimurium</i>
31	F	<i>Shigella sonnei</i>	63	M	<i>Salmonella typhimurium</i>
20mo	M	<i>Shigella sonnei</i>	45	F	<i>Salmonella typhimurium</i>
3	M	<i>Shigella sonnei</i>	69	F	<i>Salmonella typhimurium</i>
			41	M	<i>Salmonella typhimurium</i>
45	M	<i>Salmonella enteritidis</i>	6 wk	F	<i>Salmonella maderia</i>
33	F	<i>Salmonella enteritidis</i>	17 mo	F	<i>Salmonella newport</i>
61	F	<i>Salmonella enteritidis</i>	69	M	<i>Salmonella javiana</i>
5	F	<i>Salmonella enteritidis</i>	40	M	<i>Salmonella enteritidis</i>
4mo	F	<i>Salmonella enteritidis</i>	15	F	<i>Salmonella enteritidis</i>
55	M	<i>Salmonella subspecies I</i> , Serogroup B, monophasic	55	M	<i>Salmonella subspecies I</i> , Serogroup B, monophasic

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during May 2005

<i>Mycobacterium</i> species		Brown	Calumet	Dane	Eau Claire	La Crosse	Manitowoc	Marathon	Milwaukee	Outagamie	Portage	Racine	Rock	Sheboygan	Washington	Waukesha	Winnebago	Wood	
<i>M. tuberculosis</i> complex	Pulm			3					3						1				7
	Extra								1									1	2
Total <i>M. tuberculosis</i> complex				3					4						1			1	9
<i>M. avium</i> complex	Pulm	1		7				1	38	2		1	1	1			3	2	57
	Extra								2										2
<i>M. goodii</i>	Pulm	1	1	3	1		1		21	1	1					2	4	1	37
	Extra								2										2
<i>M. chelonae</i>	Pulm	1							2										3
	Extra																		0
<i>M. fortuitum</i> group	Pulm							1	5	1									7
	Extra								1										1
<i>M. kansasii</i>	Pulm																1		1
	Extra																		0
<i>M. marinum</i>	Pulm																		0
	Extra					1		1											2
<i>M. mucogenicum</i>	Pulm								2										2
	Extra																		0
<i>M. xenopi</i>	Pulm								5										5
	Extra																		0
<i>M. fortuitum</i> complex	Pulm					1													1
	Extra																		0
TOTALS		3	1	10	1	2	1	3	78	4	1	1	1	1	0	2	8	3	120

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	1 pleural biopsy, 1 neck mass
<i>M. avium</i> complex Extra-pulmonary:	1 stool, 1 blood
<i>M. goodii</i> Extra-pulmonary:	1 urine, 1 stool
Other <i>Mycobacterium</i> species	1 <i>fortuitum</i> group submandibular, 1 <i>marinum</i> nodule, 1 <i>marinum</i> arm

Antibiotic Susceptibilities:

All nine of the TBC isolates reported are from Wisconsin TB cases. 6 of the isolates were susceptible to all TB first-line drugs tested.

1 isolate was resistant to INH (0.2 mcg/ml) but susceptible to INH (1.0 mcg/ml), rifampin, ethambutol and PZA.

2 isolates were resistant to both concentrations of INH (0.2 and 1.0 mcg/ml) and susceptible to rifampin, ethambutol and PZA.

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

VIROLOGY DIVISION, G. SEDMAK, Ph.D. (414)286-3526

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 JULY 14 THROUGH AUGUST 2, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 2 mo	Fever, meningitis	Stool/RMK Cells	08/01/05	Coxsackievirus B5
M 20 mo	Fever, diarrhea, hand foot and mouth disease	Stool	07/12/05	Coxsackievirus A4
F 25 mo	Diarrhea	Stool/MRC5- cells	06/07/05	Coxsackievirus A20
F 18 yr	Meningitis	CSF	07/25/05	Echovirus (to be identified)

NOTE: Enterovirus cases 2005 to date:

1 x coxA4; 1 x coxA20; 5 x coxB5; 1 x to be identified Total cases = 8
Same Time 2004 Total cases = 3

As part of our enterovirus surveillance program, we test local sewage treatment plant influent (raw sewage) each month for culturable viruses. Over the past four months, the titer [MPN(I.U.)/Liter] of Coxsackievirus B5 has increased each month: 10 MPN/L in April, 42 MPN/L in May, 195 MPN/L in June and 259 MPN/L in July. Echoviruses 6,9,11, 13 and coxsackievirus A4 have also been detected in recent sewage samples.

M 3 mo	A.R.D.	NP Swab	07/26/05	Rhinovirus
M 13 mo	Pneumonia	NP/MRC-5 Cells	07/25/05	Rhinovirus
M 32 yr	Respiratory Disease	BAL/MRC-5 Cells	07/25/05	Rhinovirus
F 8 mo	Diarrhea	Stool	07/21/05	Rotavirus
M 22mo	Bumps, lesions, around penis	Abdominal Lesion Swab	07/11/05	Varicella-Zoster Virus
F 19 yr	STD	Vulva Lesion Swab	07/29/05	HSV (Type 1 CPE)
		Cervical Lesion Swab	07/29/05	HSV (Type 1 CPE)
M 21 yr	STD	Penis Lesion Swab	07/28/05	HSV (Type 2 CPE)
M 31 yr	STD	Penis Lesion Swab	07/22/05	HSV (Type 2 CPE)

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VIRUS ISOLATION: WEEKS OF JULY 14 THROUGH AUGUST 2, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M 25 yr	STD	Penis Lesion Swab	07/19/05	HSV (Type 1 CPE)
F 29 yr	STD	Introitus Lesion Swab	07/19/05	HSV (Type 2 CPE)
F 21 yr	STD	Perineum Lesion Swab	07/18/05	HSV (Type 2 CPE)
M 18 yr	STD	Penis Lesion Swab	07/18/05	HSV (Type 2 CPE)
M 26 yr	STD	Penis Shaft Lesion Swab	07/12/05	HSV (Type 2 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
M 20 yr	Jail: HIV Screen	07/29/05	HIV+ by EIA
F 80 yr	Pneumonia	07/27/05	Parainfluenza 1 CF 64 → 64

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