

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

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Ajaib Singh, D.V.M., Ph. D.

MICROBIOLOGY REPORT: The June 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 May 2005 and new cases of syphilis in Milwaukee during April 2005. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during April is also included.

Legionnaires Disease (May 2005) No positive case detected

Pertussis (Whooping cough, (May 2005) No positive case detected

Syphilis (May 2005)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	17
VDRL	34	DARKFIELD	0

New Cases (Syphilis)

The Wisconsin Division of Health has reported 4 new cases (early stages) of syphilis during April 2005 in Milwaukee. The median age of early syphilis cases is 31 years (range: 24-43 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows::

New Cases of Syphilis (April 2005 and April 2004)

Stage	Number of Cases	
	April 2005	April 2004
Primary syphilis	0	0
Secondary syphilis	0	2
Early latent syphilis	4	6
Late latent syphilis	0	2
Total	4	10

Gonorrhea (MHD – May 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
45	0	2 (DS)	0	0

Gonorrhea from Other Sources (May 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
5	0	0	0	0

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	28	<i>Mycoplasma hominis</i>	Genital	8

Parasitic Enteric Pathogens (May 2005)

Age	Sex	Pathogen	Number Cases
5	M	<i>Giardia lamblia</i>	1
		<i>Blastocystis hominis</i>	
22	F	<i>Entamoeba coli</i>	1
23	M	<i>Hymenolepis nana</i>	1

Mycobacterial Infections (May 2005) No positive case detected

Reference Cultures (May 2005)

Age	Sex	Site/Specimen Source	Culture Identification
59	F	Stool	<i>Campylobacter coli</i>
79	F	N.A.	<i>Pasteurella multocida</i>
59	F	Peritoneal	<i>Pasteurella gallinarum</i>
90	M	Blood	<i>Aerococcus viridans</i>
57	M	Blood	<i>Bacillus sp. (NOT B. anthracis)</i>
7	F	Stool	<i>Escherichia coli</i> O157:H7
59	M	Urine	<i>Proteus mirabilis</i>
40	M	Stool	<i>Aeromonas sp</i>
84	F	Blood	<i>Pasteurella gallinarum</i>
80	M	Wound	<i>Oligella urethralis</i>
80	M	Rt. inner calf	<i>Oligella urethralis</i>
22	F	Stool	<i>Yersinia kristensenii</i>
72	F	Stool	<i>Escherichia coli</i> O157:H7

Bacterial Enteric Pathogens (May 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
15	M	<i>Shigella flexneri</i>	87	F	<i>Salmonella subsp II 50(Z):b:Z6</i>
31	F	<i>Shigella sonnei</i>	27	M	<i>Salmonella saintpaul</i>
4	F	<i>Shigella sonnei</i>	32	F	<i>Salmonella montevideo</i>
4	M	<i>Shigella sonnei</i>	80	M	<i>Salmonella enteritidis</i>
4	F	<i>Shigella sonnei</i>	45	F	<i>Salmonella enteritidis</i>
			16	M	<i>Salmonella enteritidis</i>
7mo	F	<i>Salmonella durham</i>	84	F	<i>Salmonella enteritidis</i>
14	F	<i>Salmonella kintambo</i>	15	M	<i>Salmonella enteritidis</i>
64	F	<i>Salmonella anatum</i>	27	M	<i>Salmonella enteritidis</i>
23	M	<i>Salmonella reading</i>			

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during April 2005

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Kenosha	La Crosse	Milwaukee	Outagamie	Racine	Waukesha	Winnebago	Wood	
<i>M. tuberculosis</i> complex	Pulm							1			1		2
	Extra		1				4						5
Total <i>M. tuberculosis</i> complex			1				4	1			1		7
<i>M. avium</i> complex	Pulm	1	4			1	44				5	1	56
	Extra		1				4						5
<i>M. goodnae</i>	Pulm	2	8		4		17		1		2		34
	Extra						1						1
<i>M. abscessus</i>	Pulm		1				3		1			1	6
	Extra						1					1	2
<i>M. chelonae</i>	Pulm						1						1
	Extra												
<i>M. fortuitum</i> group	Pulm						1						1
	Extra												
<i>M. kansasii</i>	Pulm						1			1			2
	Extra												
<i>M. marinum</i>	Pulm												
	Extra												
<i>M. mucogenicum</i>	Pulm			1			2						3
	Extra												
<i>M. xenopi</i>	Pulm						5						5
	Extra												
<i>M. scrofulaceum</i>	Pulm			1							1		2
	Extra												
<i>M. bovis</i> BCG	Extra	1											1
TOTALS		4	14	2	4	1	80	0	2	1	8	3	119

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	3 lymph node, 1 neck mass, 1 retro-peritoneal
<i>M. avium</i> complex Extra-pulmonary:	2 blood, 1 finger, 1 lung lesion, 1 paracentesis
<i>M. gordonae</i> Extra-pulmonary:	1 nasal
Other <i>Mycobacterium</i> species	1 bovis BCG urine, 1 abscessus buttock, 1 abscessus elbow

Wisconsin TB Isolations and Antibiotic Susceptibilities:

6 of the TBC isolates reported by Wisconsin laboratories this month were from Wisconsin TB cases. 1 case was from out-of-state.

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

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

1 isolate was susceptible to INH, rifampin, and ethambutol and resistant to PZA.

1 isolate was not tested (out-of-state).

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 JUNE 9 TO JULY 13, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 23 yr	Aseptic meningitis	CSF	07/10/05	Coxsackievirus B5
M 13 mo	No Information	BAL/RMK Cells	06/22/05	Coxsackievirus B5
F 6 wk	Meningitis	NP/RMK Cells	06/15/05	Coxsackievirus B5
F 25 mo	Diarrhea	Stool/MRC-5 Cells	06/07/05	Coxsackievirus A20

NOTE: Enterovirus Cases 2005 to date:

1 x coxA20, 4 x coxB5 Total Cases = 5

As part of our enterovirus surveillance program, we test local sewage treatment plant influent (raw sewage) each month for culturable viruses. Over the past three months, the titer [MPN(I.U.)/Liter] of Coxsackievirus B5 has increased each month: 10 MPN/L in April, 42 MPN/L in May and 195 MPN/L in June. Echovirus 9 and Coxsackievirus A4 were also detected in sewage collected in May 2005.

M 15 mo	No information	NP/MRC-5 Cells	06/14/05	Rhinovirus
F 83 yr	Leg lesion	Lesion Swab	06/13/05	Varicella-Zoster Virus
M 25 yr	Penis lesion	Lesion Swab	07/11/05	HSV (Type 2 CPE)
M	R-cheek lesion	Lesion Swab	07/11/05	HSV (Type 1

26 mo					CPE)
F	STD	Vulva Lesion	07/08/05	HSV (Type 2	CPE)
21 yr		Swab			
F	STD	Cervical Lesion	07/08/05	HSV (Type 2	CPE)
21 yr		Swab			
M	STD	Penis Lesion	07/08/05	HSV (Type 2	CPE)
51 yr		Swab			
M	STD	Penis Lesion	07/01/05	HSV (Type 1	CPE)
25 yr		Swab			
M	STD	Penis Lesion	06/30/05	HSV (Type 2	CPE)
39 yr		Swab			
F	Skin lesion	Lesion Swab	06/30/05	HSV (Type 2	CPE)
28 yr					

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VIRUS ISOLATION: WEEKS OF JUNE 9 TO JULY 13, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F	STD	Genital Lesion	06/29/05	HSV (Type 1
20 yr		Swab		CPE)
F	Forehead lesion	Lesion Swab	06/28/05	HSV (Type 1
41 yr				CPE)
M	STD	Penis Lesion	06/24/05	HSV (Type 2
37 yr		Swab		CPE)
M	STD	Penis Lesion	06/23/05	HSV (Type 2
28 yr		Swab		CPE)
M	Oral lesions	Throat Swab	06/23/05	HSV (Type 1
75 yr				CPE)
F	STD	Vaginal Lesion	06/22/05	HSV (Type 2
18 yr		Swab		CPE)
F	STD	Cervical Lesion	06/21/05	HSV (Type 2
18 yr		Swab		CPE)
M	STD	R-Groin Lesion	06/21/05	HSV (Type 2
32 yr		Swab		CPE)

F 22 yr	Lip sore	Lower Lip Lesion Swab	06/21/05	HSV (Type 1 CPE)
M 9 yr	Oral lesion	NP Swab	06/21/05	HSV (Type 1 CPE)
F 21 yr	STD	Vulva Lesion Swab	06/20/05	HSV (Type 1 CPE)
M 20 yr	STD	Penis Lesion Swab	06/16/05	HSV (Type 2 CPE)
M 36 yr	STD	Penis Lesion Swab	06/16/05	HSV (Type 2 CPE)
M 32 yr	STD	Penis Lesion Swab	06/15/05	HSV (Type 2 CPE)
F 69 yr	Buttock lesion	Lesion Swab	06/15/05	HSV (Type 2 CPE)
M 25 yr	Esophagitis	Esophageal Brushing	06/13/05	HSV (Type 1 CPE)
M 29 yr	STD	Penis Lesion Swab	06/10/05	HSV (Type 1 CPE)
F 21 yr	Oral lesions	Mouth Lesion Swab	06/10/05	HSV (Type 1 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
F 46 yr	STD Clinic; HIV Screen	06/16/05	HIV+ by EIA
M 22 yr	Jail; HIV Screen	06/15/05	HIV+ by EIA
M 23 yr	Jail; HIV Screen	06/10/05	HIV+ by EIA



Gerald V. Sedmak, Ph.D.
Chief Virologist
GVS/kb