

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

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MICROBIOLOGY REPORT: The March 2006 issue of Microbiology Monthly Report, Volume 11, presents the laboratory diagnosis of some of the infectious diseases, the reference microbiology work done in this laboratory during February 2006 and new cases of syphilis in Milwaukee during January 2006. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during January is also included.

Legionnaires Disease (February 2006)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
11	M	ND	-	+

ND = Not done

Pertussis (Whooping cough) February 2006

No positive case detected.

Syphilis (February 2006)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	10
VDRL	39	DARK FIELD	0

New Cases Syphilis

The Wisconsin Division of Health has reported 4 new cases (early stages) of syphilis during January 2006 in Milwaukee. The median age of early syphilis cases is 46.0 years (range: 31-51 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (January 2006 and January 2005)

Stage	Number of Cases	
	January 2006	January 2005
Primary syphilis	1	0
Secondary syphilis	1	0
Early latent	2	0
Late latent	1	2
Total	5	2

Gonorrhea (February 2006)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
68	1 (IR)	0	0	0

Gonorrhea from Other Sources (Aurora Consolidated Labs) February 2006

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

Isolates Other Than *N. gonorrhoeae* (February 2006)

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	29	<i>Mycoplasma hominis</i>	Genital	3

Parasitic Enteric Pathogens (February 2006)

Age	Sex	Pathogen	Number Cases
79	F	<i>Enteramoeba coli</i>	1
56	F	<i>Giardia lamblia</i>	1

Mycobacterial infections (February 2006)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
30	M	-	+	+	<i>M. avium complex</i>
66	M	-	+	+	<i>M. avium complex</i>

Reference Cultures (February 2006)

Age	Sex	Site/Specimen Source	Culture Identification
81	M	Blood	<i>Bacillus sp. NOT anthracis</i>
30	M	Blood	<i>Corynebacterium aquaticum</i>
42	M	Blood	<i>Roseomonas gilardii</i>
43	F	Sputum	<i>Pseudomonas sp.</i>
24	M	Throat	<i>Neisseria meningitides</i>
55	F	Sputum	<i>Corynebacterium striatum</i>
38	F	Urine	<i>Acinetobacter lwoffii</i>
20	F	Urine	<i>Neisseria lactamica</i>

Bacterial Enteric Pathogens (February 2006)

Age	Sex	Pathogen	Age	Sex	Pathogen
17mo	F	<i>Shigella sonnei</i>	24	F	<i>Salmonella ohio</i>
			44	M	<i>Salmonella corvallis</i>
			25	F	<i>Salmonella worthington</i>
43	M	<i>Salmonella enteritidis</i>	53	F	<i>Salmonella heidelberg</i>
41	F	<i>Salmonella enteritidis</i>	32mo	M	<i>Salmonella</i> subsp I, serogroup B; I, monophasic
52	F	<i>Salmonella typhimurium</i>	7	F	<i>Salmonella typhi</i>

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during January 2006

<i>Mycobacterium</i> species		Brown	Dane	Eau Claire	Fond du Lac	Kenosha	La Crosse	Marathon	Milwaukee	Outagamie	Portage	Racine	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm		1						2	1						4
	Extra			1					1							2
Total <i>M. tuberculosis</i> complex		0	1	1	0	0	0	0	3	1	0	0	0	0	0	6
<i>M. avium</i> complex	Pulm	2	6			1	1		46			1	2	2	2	63
	Extra		1				2		5							8
<i>M. gordonae</i>	Pulm		5	1					9					3		18
	Extra								1							1
<i>M. abscessus</i>	Pulm			1		1			2						1	5
	Extra										1					1
<i>M. chelonae</i>	Pulm			1					5						1	7
	Extra				1			1								2
<i>M. fortuitum</i> group	Pulm								7	1						8
	Extra														1	1
<i>M. kansasii</i>	Pulm															0
	Extra															0
<i>M. marinum</i>	Pulm															0
	Extra															0
<i>M. mucogenicum</i>	Pulm								6					1		7
	Extra								1							1
<i>M. xenopi</i>	Pulm		1						7				1			9
	Extra															0
<i>M. scrofulaceum</i>	Pulm														1	1
<i>Mycobacterium</i> sp. (not TB)	Pulm														2	2
TOTALS		2	13	3	1	2	3	1	89	1	1	1	3	6	8	134

Extra-Pulmonary Sources of Isolation:

<i>Mycobacterium</i> species	Extra-pulmonary site of isolation
<i>M. tuberculosis</i> complex	1 spinal tissue/fluid, 1 knee
<i>M. avium</i> complex	1 neck, 2 stool, 1 pleural fluid, 2 blood, 1 urine, 1 neck
<i>M. gordonae</i>	1 urine
other <i>Mycobacterium</i> species	<i>abscessus</i> : 1 lymph node <i>chelonae</i> : 1 PEG site 1 sinus <i>fortuitum</i> group: 1 leg <i>mucogenicum</i> , 1 blood

Antibiotic Susceptibilities: TB First-Line Drugs tested:

isoniazid=INH (0.2 ug/ml and 1.0 ug/ml), rifampin (1.0 ug/ml), ethambutol (5.0 ug/ml), pyrazinamide=PZA (100 ug/ml)

Drug Resistant	Number of Isolates
Susceptible to all first-line drugs	3
Resistant to INH (0.2 ug/ml) only	
Resistant to both INH concentrations	
Resistant to rifampin only	
Resistant to ethambutol only	
Resistant to PZA only, or PZA indeterminant	1 [#]
Multi-drug resistant	
Not reported (out-of-state patient)	
susceptibility testing pending	2
TOTAL	6

M. bovis BCG susceptibility testing not included. (#) PZA resistant/indeterminant isolates: 1 *M. tuberculosis*.

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 March 8th THROUGH April 10, 2006

Patient	Symptoms	Specimen	Submitted	Virus
F 89yr	Nursing Home Illness	Nasal Swab/R- Mix	04/03/06	Influenza A (H3)
F 87 yr	Nursing Home Illness	Nasal Swab/R- Mix	03/30/06	Influenza A (H3)
F 23 yr (M.U)	Fever, Cough	Throat Swab	03/28/06	Influenza A (H3)
F 20 yr	Fever, Cough, Sore Throat	Throat Swab	03/26/06	Influenza A (H3)
F 86 yr	A.R.D.	Throat Swab	03/26/06	Influenza A (H3)
F 23 yr (UWM)	Fever cough, sore throat	Throat Swab	03/22/06	Influenza A (H3)
F 27yr	Autopsy	Autopsy NP Swab	03/15/06	Influenza A (H3)
F 12mo	R/O Influenza	NP Swab	03/15/06	Influenza A (H3)
M 87yr	A.R.D.	Nasal Swab	03/13/06	Influenza A (H3)
F 21 yr	Fever, Headache, Cough, Sore Throat	Throat Swab	03/08/06	Influenza A (H3)
M 19yr (UWM)	Influenza	Throat Swab	03/07/06	Influenza A (H3)
M 19yr (UWM)	Influenza	Throat Swab	03/07/06	Influenza A (H3)
F 18 yr (UWM)	Fever, headache, cough, myalgia, sore throat	Throat Swab	03/06/06	Influenza A (H3)
M 19 yr (MU)	Fever, cough	Throat Swab	03/03/06	Influenza A (H3)
F 12 yr	A.R.D.	NP Swab	04/03/06	Influenza B
F 36 yr	A.R.D.	NP Swab	03/20/06	Influenza B
M 3 mos	Infant death	Autopsy NP Swab	03/19/06	Influenza B
F 34yr	A.R.D.	Nasal Swab	03/19/06	Influenza B
M	Fever, cough,	Throat Swab	03/16/06	Influenza B

18 yr (UWM)	sore throat			
F	Fever,	Throat Swab	03/15/06	Influenza B
22 yr (UWM)	headache, cough, sore throat			
F	Fever,	Throat Swab	03/14/06	Influenza B
18 yr (MU)	headache, cough			
F	Fever, cough,	Throat Swab	03/13/06	Influenza B and Rhinovirus
19 yr (UWM)	sore throat, myalgia			
M	URI	NP/MRC-5 Cells	04/05/06	Rhinovirus
25 mo				
M	URI	NP/MRC-5 Cells	03/30/06	Rhinovirus
22 mo				

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VIRUS ISOLATION: WEEKS OF MARCH 8TH THROUGH APRIL 10, 2006

Patient	Symptoms	Specimen	Submitted	Virus
M	URI	NP/MRC-5	04/05/06	Rhinovirus
25 mo		Cells		
M	URI	NP/MRC-5	03/30/06	Rhinovirus
22 mo		Cells		
M	Pneumonia	NP/MRC-5	03/28/06	Rhinovirus
3 Wks		Cells		
M	URI	NP/MRC-5	03/27/06	Rhinovirus
19 mo		Cells		
M	URI	NP/MRC-5	03/21/06	Rhinovirus
6 mo		Cells		
F	URI	NP/MRC-5	03/21/06	Rhinovirus
8 yr		Cells		
M	URI	NP/MRC-5	03/17/06	Rhinovirus
7 mo		Cells		
M	Bronchiolitis	NP/MRC-5	03/13/06	Rhinovirus
23 mo		Cells		
F	URI	NP/MRC-5	03/13/06	Rhinovirus
10 mo		Cells		
M	URI	Nasal Swab	03/10/06	Rhinovirus
61 yr				
F	URI	NP/MRC-5	03/07/06	Rhinovirus
30 yr		Cells		
F	Fever, URI, Sore Throat	Throat Swab	03/06/06	Rhinovirus
21 yr (MU)				
F	Diarrhea	Stool	04/04/06	Rotavirus
12 mo				
F	Diarrhea	Stool	03/28/06	Rotavirus
29 mo				

F 14 mo	Diarrhea	Stool	03/27/06	Rotavirus
F 13 mo	Diarrhea	Stool	03/27/06	Rotavirus
F 2 mo	Infant death	Autopsy Colon Swab	03/27/06	Rotavirus
M 5 yr	Diarrhea	Stool	03/24/06	Rotavirus
F 18 mo	Diarrhea	Stool	03/13/06	Rotavirus
F 29 mo	Diarrhea	Stool	03/28/06	Rotavirus
M 14 days	Diarrhea	Stool	03/15/06	Rotavirus
M 4 mo	Diarrhea	Stool	03/07/06	Rotavirus
F 9 mos	Infant death	Autopsy Colon Swab	03/27/06	Adenovirus
M 26 yr (UWM)	A.R.D.	Throat Swab	03/07/06	Adenovirus
M 74 yr	Pneumonia	B.A.L.	03/21/06	Cytomegalovirus

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VIRUS ISOLATION: WEEKS OF MARCH 8TH THROUGH APRIL 10, 2006

Patient	Symptoms	Specimen	Submitted	Virus
M 19 yr (MU)	Scalp lesion	Scalp Swab	03/28/06	Varicella-Zoster Virus
F 24 yr	L-Ear Lobe Vesicle	Vesicle Swab	03/28/06	HSV (type 1 CPE)
F 31 yr	STD	Vagina Lesion	04/07/06	HSV (type 1 CPE)
M 21 yr	Fever, headache, sore throat	Throat Swab	04/05/06	HSV (type 1 CPE)
M 54 yr	STD	Penis Sore	04/05/06	HSV (type 1 CPE)
F 22 yr	STD	Vulva Lesion	04/04/06	HSV (type 1 CPE)
F 24 yr	STD	Vulva Lesion	04/04/06	HSV (type 1 CPE)
F 20 yr	Cheek vesicle	Cheek Swab	03/30/06	HSV (type 1 CPE)
F 19 yr	STD	Labial Sores	03/28/06	HSV (type 2 CPE)
M 31 yr	STD	Penis Lesion	03/27/06	HSV (type 2 CPE)
F 23 yr	STD	Perineum Lesion	03/24/06	HSV (type 2 CPE)
F 19 yr	STD	Genital Lesion	03/23/06	HSV (type 1 CPE)
M 18 yr	Oral lesion	Mouth Swab	03/20/06	HSV (type 1 CPE)
M 63 yr	Cancer, sore throat	Throat Swab	03/17/06	HSV (type 1 CPE)
M 30 yr	STD	Penis Lesion	03/16/06	HSV (type 2CPE)
M 24 yr	STD	Penile Ulcer	03/15/06	HSV (type 1CPE)
F 14 yr	Vaginal Lesion	Vagina Swab	03/11/06	HSV (type 1CPE)
F 23 yr	STD	Vagina Lesion	03/12/06	HSV (type 1CPE)
M 18 yr	STD	Vagina Lesion	03/10/06	HSV (type 2 CPE)
F 21 yr	STD	R-Labia Lesions	03/08/06	HSV (type 1 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
M 74 yr	Pneumonia	02/22/06	Mycoplasma pneumoniae CF<8 → 32
M 8 yr	Pneumonia	03/13/06	Influenza A CF 128
M 34 yr	Jail HIV Screen	03/27/06	HIV Positive by EIA



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GVS:cms