

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

February 2005 Vol. 10, No. 2

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

MICROBIOLOGY REPORT: The February 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 January 2005 and new cases of syphilis in Milwaukee during December 2004. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during that month is also included.

Legionnaires Disease (January, 2005)

No positive case detected.

Pertussis (Whooping cough, an update)

Specimens for pertussis from most clinics were directed to the Wisconsin State Laboratory of Hygiene (WSLH), in Madison, for Real-time PCR assay. During the month of January more cases were identified in Milwaukee County including the city of Milwaukee. The exact number has not yet been determined. The City of Milwaukee Health department Laboratory continues testing of selected samples for pertussis using culture and real-time PCR assay. However, no positive case was detected during January 2005.

Syphilis (January 2005)

Test	Number Positive	Test	Number Positive
RPR	0	FTA-ABS	4
VDRL	28	DARKFIELD	0

New Cases (Syphilis)

The Wisconsin Division of Health has reported 2 new cases (age, 18 & 35 years) of syphilis (early stages) during December 2004 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 (December 2004 and December 2003)

Stage	Number of Cases	
	December 2004	December 2003
Primary syphilis	0	0
Secondary syphilis	0	0
Early latent syphilis	2	3
Late latent syphilis	1	2
Total	3	5

Gonorrhea (MHD – January 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
46	0	0	0	0

Gonorrhea from Other Sources (January 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
7	0	0	0	0

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	27	<i>Mycoplasma hominis</i>	Genital	4

Parasitic Enteric Pathogens (January 2005)

Age	Sex	Pathogen	Number Cases
54	M	<i>Entamoeba coli</i>	1
16	M	<i>Entamoeba coli</i>	1
19*	F*	<i>Giardia lamblia</i>	1
		<i>Entamoeba coli</i>	
18	M	<i>Strongyloides stercoralis</i>	1
13	M	<i>Giardia lamblia</i>	1
14	F	<i>Hymenolepis nana</i>	1
22	F	<i>Entamoeba coli</i>	1
24	M	<i>Giardia lamblia</i>	1
5	M	<i>Strongyloides stercoralis</i>	1
13	F	<i>Blastocystis hominis</i>	1
17*	M*	<i>Iodamoeba buetschlii</i>	1
		<i>Entamoeba coli</i>	
11	F	<i>Entamoeba coli</i>	1

*Dual infection

Mycobacterial Infections (January 2005)

Mycobacteriology laboratory is being renovated and not operational at this time.

Reference Cultures (January 2005)

Age	Sex	Site/Specimen Source	Culture Identification
83	M	Blood	<i>Streptococcus mitis sp/gp</i>
51	F	Peg tube abscess	<i>Rahnella aquatilis</i>
57	F	Spleen abscess	<i>Clostridium difficile</i>
15mo	F	Stool	<i>Yersinia enterocolitica</i>
84	F	Blood	<i>Bacillus species</i>
84	F	Blood	<i>Bacillus megaterium</i>
24	M	Wound	<i>Bacillus sp NOT B. anthracis</i>
83	F	N.A.	<i>Escherichia coli</i>

Bacterial Enteric Pathogens (January 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
53	F	<i>Shigella sonnei</i>	3	F	<i>Salmonella poona</i>
7	F	<i>Shigella sonnei</i>	13 mo	F	<i>Salmonella gaminara</i>
3	F	<i>Shigella sonnei</i>	92	F	<i>Salmonella braenderup</i>
22 mo	F	<i>Shigella sonnei</i>	11 mo	F	<i>Salmonella typhimurium</i>
7	M	<i>Shigella sonnei</i>	27mo	F	<i>Salmonella java</i>
6	M	<i>Shigella sonnei</i>	31	F	<i>Salmonella enteritidis</i>
5	M	<i>Shigella sonnei</i>	68	F	<i>Salmonella typhimurium</i>
9	M	<i>Shigella sonnei</i>	82	F	<i>Salmonella enteritidis</i>
10	M	<i>Shigella sonnei</i>	53	F	<i>Salmonella enteritidis</i>
5	M	<i>Shigella sonnei</i>	21	F	<i>Salmonella oranienburg</i>
27	M	<i>Shigella sonnei</i>			
25	M	<i>Shigella sonnei</i>			
6	F	<i>Shigella sonnei</i>			
32mo	F	<i>Shigella sonnei</i>			
32MO	M	<i>Shigella flexneri type B1</i>			

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during December 2004

Mycobacterium Species	Pulmonary or Extra-Pulmonary	County														
		Ashland	Brown	Dane		Douglas	Eau Claire		Kenosha	La Crosse	Manitowoc	Marathon	Milwaukee		Portage	Racine
M. tuberculosis complex	Pulm	1										1	3			1
	Extra															
Total M. tuberculosis complex																
M. avium complex	Pulm		1	2					2		1		38			1
	Extra														1	
M. gordonae	Pulm		3	5		1	1		2		1		20			
	Extra															
M. abscessus	Pulm												4			
	Extra															
M. chelonae	Pulm		1										2			
	Extra												2			
M. fortuitum group	Pulm									1			2			
	Extra												2			
M. kansasii	Pulm												4			
	Extra															
M. marinum	Pulm															
	Extra			1									3			
M. mucogenicum	Pulm			1									2			
	Extra												3			
M. xenopi	Pulm												2			
	Extra															
Other species (listed below)	Pulm															
	Extra												1			
Total Non-TB Mycobacteria		0	5	9		1	1		4	1	2		85		1	1

SUMMARY OF CONFIRMED VIRUS INFECTIONS
ISSUE #1190 PAGE ONE
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.**

Other *Mycobacterium* species and Sources of Isolation:

<i>M. smegmatis</i>	1 sputum
<i>M. bovis</i> BCG	1 urine
<i>M. farcinogenes/senegalense</i>	1 cheek
<i>Mycobacterium</i> species (unable to ID)	1 cheek

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	0
<i>M. avium</i> complex Extra-pulmonary:	1 lymph node
<i>M. gordonae</i> Extra-pulmonary:	0
Other <i>Mycobacterium</i> species	1 <i>chelonae</i> hand, 1 <i>chelonae</i> scalp, 1 <i>fortuitum</i> group scalp, 1 <i>fortuitum</i> group dermal, 1 <i>marinum</i> elbow, 2 <i>marinum</i> arm, 3 <i>mucogenicum</i> blood, 1 <i>marinum</i> forearm, 1 <i>farcinogenes</i> cheek, 1 <i>Mycobacterium</i> species cheek, 1 <i>bovis</i> BCG urine.

Wisconsin TB Isolations and Antibiotic Susceptibilities:

All 6 of the TBC isolates reported by Wisconsin laboratories this month were from Wisconsin TB cases.

4 of the TBC isolates were susceptible to antibiotics. Two isolates have pending antibiotic susceptibility testing.

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

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO FEBRUARY 9, 2005				
Patient	Symptoms	Specimen	Submitted	Virus
M 22 yr M.U.	Bronchitis, cough, fever, myalgia	Throat Swab	02/04/05	Influenza A
M 20 yr U.W.M.	A.R.D., cough	Throat Swab	02/04/05	Influenza A
F 19 yr U.W.M.	Cough, fever, myalgia	Throat Swab	02/04/05	Influenza A
M 91 yr	R/o influenza	NP Swab	02/04/05	Influenza A (H3)
F 97 yr	R/o influenza	NP Swab	02/04/05	Influenza A (H3)
F 88 yr	R/o influenza	NP Swab	02/04/05	Influenza A (H3)
M 88 yr	R/o influenza	NP Swab	02/03/05	Influenza A (H3)
M 91 yr	R/o influenza	NP Swab	02/03/05	Influenza A (H3)
F 89 yr	R/o influenza	NP Swab	02/03/05	Influenza A (H3)
F 20 yr M.U.	Cough, U.R.I., fever, myalgia	Throat Swab	02/02/05	Influenza A
M 19 yr M.U.	Fever, cough, sore throat, myalgia	Throat Swab	02/02/05	Influenza A
M 20 yr M.U.	U.R.I., cough, fever, sore throat, myalgia	Throat Swab	02/02/05	Influenza A
F 87 yr	R/o influenza	NP Swab	02/02/05	Influenza A (H3)
F 88 yr	R/o influenza	NP Swab	02/02/05	Influenza A (H3)
M 90 yr	R/o influenza	NP Swab	02/02/05	Influenza A (H3)
M 23 yr U.W.M.	Fever, headache, cough, sore throat	Throat Swab	02/01/05	Influenza A

SUMMARY OF CONFIRMED VIRUS INFECTIONS

ISSUE #1190 PAGE TWO

MILWAUKEE HEALTH DEPARTMENT

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

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO FEBRUARY 9, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 19 yr U.W.M.	Cough, sore throat	Throat Swab	02/01/05	Influenza A
F 23 yr U.W.M.	Cough, bronchitis, fever, headache	Throat Swab	02/01/05	Influenza A
F 22 yr M.U.	Fever, headache, cough, sore throat, myalgia	Throat Swab	02/01/05	Influenza A
F 22 yr	Fever, headache, sore throat, cough	Throat Swab	02/01/05	Influenza A
F 88 yr	R/o influenza	Throat Swab	02/01/05	Influenza A (H3)
M 79 yr	R/o influenza	NP Swab	02/01/05	Influenza A (H3)
F 18 yr	Influenza	NP Swab	02/01/05	Influenza A (H3)
F 48 yr	R/o influenza	NP Swab	02/01/05	Influenza A (H3)
F 66 yr	R/o influenza	NP Swab	02/01/05	Influenza A (H3)
M 85 yr	R/o influenza	NP Swab	02/01/05	Influenza A (H3)
F 76 yr	R/o influenza	NP Swab	02/01/05	Influenza A (H3)
M 19 yr M.U.	Fever, cough	Throat Swab	01/28/05	Influenza A
M 20 yr U.W.M.	For influenza	Throat Swab	01/28/05	Influenza A

F 20 yr M.U.	Cough, fever, headache, sore throat	Throat Swab	01/26/05	Influenza A (H3)
F 20 yr M.U.	Cough, fever, headache, sore throat	Throat Swab	02/02/05	Respiratory Syncytial Virus
F 7 yr	Autopsy	Autopsy Colon Swab	01/28/05	Rotavirus
M 6 mo	Diarrhea	Stool	02/05/05	Rotavirus
F 2 wk	Diarrhea	Stool	02/03/05	Rotavirus
F 18 yr	S.T.D.	Genital Lesion Swab	02/03/05	HSV (Type 1 CPE)

SUMMARY OF CONFIRMED VIRUS INFECTIONS
ISSUE #1190 PAGE THREE
MILWAUKEE HEALTH DEPARTMENT
VIROLOGY DIVISION, G. SEDMAK, Ph.D. (414)286-3526

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO FEBRUARY 9, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 17 yr	S.T.D.	Vaginal Lesion Swab	02/02/05	HSV (Type 2 CPE)
F 39 yr	Buttock lesion	Lesion Swab	02/03/05	HSV (Type 2 CPE)
M 33 yr	Penis sore	Penis Swab	02/02/05	HSV (Type 2 CPE)
F 25 yr	S.T.D.	Cervical Lesion Swab	02/02/05	HSV (Type 2 CPE)
M 18 yr	Lip sore	Lip Swab	01/31/05	HSV (Type 1 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
F 41 yr	Jail; HIV Screen	01/28/05	HIV+ by EIA



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

SUMMARY OF CONFIRMED VIRUS INFECTIONS

ISSUE #1191 PAGE ONE

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 FEBRUARY 1 TO MARCH 8, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 43 yr	A.R.D.	NP Swab	02/18/05	Influenza B
F 21 yr M.U.	A.R.D., fever, headache, myalgia	Throat Swab	03/03/05	Influenza A
M 19 yr M.U.	Fever, cough, sore throat, myalgia	Throat Swab	03/03/05	Influenza A
F 20 yr M.U.	U.R.I., sore throat, fever, headache, myalgia	Throat Swab	03/02/05	Influenza A
M 20 yr	Cough, fever, headache	Throat Swab	02/25/05	Influenza A
F 19 yr U.W.M.	A.R.D.	Throat Swab	02/25/05	Influenza A
F 25 yr U.W.M.	Fever, cough, sore throat	Throat Swab	02/25/05	Influenza A
F 79 yr	R/o influenza, "vaccinated"	Throat Swab	02/23/05	Influenza A
M	Sore throat,	Throat Swab	02/22/05	Influenza A

20 yr M.U.	fever			
F 18 yr U.W.M.	Cough, fever, headache, myalgia	Throat Swab	02/17/05	Influenza A
F 19 yr U.W.M.	Bronchitis, U.R.I., fever, headache	Throat Swab	02/16/05	Influenza A
F 19 yr U.W.M.	Cough, sore throat, fever, headache	Throat Swab	02/16/05	Influenza A
F 22 yr M.U.	U.R.I., cough, fever, myalgia, "vaccinated"	Throat Swab	02/15/05	Influenza A
M 23 yr M.U.	Cough, fever, myalgia	Throat Swab	02/15/05	Influenza A

SUMMARY OF CONFIRMED VIRUS INFECTIONS
ISSUE #1191 PAGE TWO
MILWAUKEE HEALTH DEPARTMENT
VIROLOGY DIVISION, G. SEDMAK, Ph.D. (414)286-3526

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO MARCH 8, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M 20 yr U.W.M.	A.R.D.	Throat Swab	02/15/05	Influenza A
M 27 yr U.W.M.	Cough, fever	Throat Swab	02/15/05	Influenza A
F 21 yr U.W.M.	Cough, fever	Throat Swab	02/14/05	Influenza A
F 23 yr M.U.	Cough, fever, headache	Throat Swab	02/10/05	Influenza A
F 18 yr U.W.M.	Fever, cough, sore throat	Throat Swab	02/09/05	Influenza A
M 20 yr U.W.M.	A.R.D.	Throat Swab	02/09/05	Influenza A
F 53 yr	R/o influenza	NP Swab	02/09/05	Influenza A (H3)
M 83 yr	R/o influenza	NP Swab	02/09/05	Influenza A (H3)
F 76 yr	R/o influenza	NP Swab	02/09/05	Influenza A (H3)
F 21 yr U.W.M.	U.R.I., cough, fever	Throat Swab	02/08/05	Influenza A
F 20 yr M.U.	Cough, sore throat	Throat Swab	02/08/05	Influenza A
M 25 yr M.U.	Cough, fever	Throat Swab	02/08/05	Influenza A
M 20 yr M.U.	Cough, fever, headache	Throat Swab	02/08/05	Influenza A

M 27 yr M.U.	Cough, fever	Throat Swab	02/07/05	Influenza A
F 21 yr M.U.	Sore throat, fever	Throat Swab	02/07/05	Influenza A

SUMMARY OF CONFIRMED VIRUS INFECTIONS

ISSUE #1191 PAGE THREE

MILWAUKEE HEALTH DEPARTMENT

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

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO MARCH 8, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M 19 yr U.W.M.	Cough, fever, sore throat	Throat Swab	02/07/05	Influenza A
F 94 yr	R/o influenza	NP Swab	02/07/05	Influenza A (H3)
F 90 yr	R/o influenza	NP Swab	02/07/05	Influenza A (H3)
M 18 yr U.W.M.	Bronchitis, fever, headache, pleurodynia	Throat Swab	02/02/05	Influenza A
F 19 yr M.U.	Fever, U.R.I.	Throat Swab	02/02/05	Influenza A

NOTE: From this laboratory's vantage point, this season's influenza activity appears to have peaked the first two weeks of February. The number of confirmed cases each week is now declining rapidly.

F 3 mo	Infant death	Autopsy Colon Swab	03/07/05	Rotavirus – EIA
M 12 mo	Diarrhea	Stool	03/07/05	Rotavirus – EIA
M 13 mo	Diarrhea	Stool	02/23/05	Rotavirus – EIA
M 6 mo	Diarrhea	Stool	03/04/05	Adeno 40/41 – EIA
M 3 mo	Infant death	Autopsy Colon Swab	12/15/04	Echovirus-25 (update)

M 51 yr	Scalp lesion	Lesion Swab	02/22/05	Varicella-Zoster Virus
F 20 yr	S.T.D.	Vaginal Swab	03/03/05	HSV (Type 1 CPE)
M 47 yr	S.T.D.	Urethral Swab	03/01/05	HSV (Type 2 CPE)
F 20 yr	R-labia sore	Sore Swab	03/01/05	HSV (Type 1 CPE)
F 21 yr	Lower lip sore	Lip Swab	02/25/05	HSV (Type 1 CPE)
M 27 yr	S.T.D.	Penis Lesion Swab	02/21/05	HSV (Type 2 CPE)
M 23 yr	Penis lesion	Lesion Swab	02/18/05	HSV (Type 2 CPE)

SUMMARY OF CONFIRMED VIRUS INFECTIONS

ISSUE #1191 PAGE FOUR

MILWAUKEE HEALTH DEPARTMENT

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

VIRUS ISOLATION: WEEKS OF FEBRUARY 1 TO MARCH 8, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M 23 yr	S.T.D.	Penis Lesion Swab	02/14/05	HSV (Type 2 CPE)
M 39 yr	Penis lesion	Penis Lesion Swab	02/09/05	HSV (Type 2 CPE)
F 83 yr	Cervical lesion	Cervical Swab	02/09/05	HSV (Type 1 CPE)
F 35 yr	S.T.D.	Vulva Lesion Swab	02/07/05	HSV (Type 2 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
F 84 yr	A.R.D.	02/08/05	Influenza A CF 16 → 128
M 56 yr	Pneumonia	02/06/05	Influenza A CF 8 → 32
M 8 yr	A.R.D.	01/13/05	Adenovirus CF 64 → 64



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

DATA FOR WEEK ENDING: February 26, 2005

State Laboratory of Hygiene

[illegible]

Medical Science Lab, Wauwatosa	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	88	2 2	0	13	1	0	0	0	0	0	1	3	0	0	0	0	0

*29.6% of respiratory specimens were reported positive this week by culture, a decrease for the 4th consecutive week. The number of respiratory specimens tested also decreased this week.

***Influenza:** Influenza activity appears to have peaked in early February in Wisconsin; the positive predictive values of rapid tests remain high.

***ILI Rates:** Influenza-like illness (ILI) rates were moderate in the Northern region of Wisconsin and HIGH through-out the rest of the state during the Week of February 19, 2005, according to Division of Public Health reports.

***Wisconsin Virology Lab Reports:** The number of influenza A positives **decreased** again this week while influenza B positive **increased** slightly Compared to last week; the percentage of respiratory specimens that were positive for influenza decreased to 26%.

***Rapid Test Sites:** The number of specimens tested, number positive and percentage positive for influenza A all **decreased**; the number positive for influenza B **increased**.

***RSV:** The number of specimens tested, number positive and percentage positive by antigen detection all increased.

***Rotavirus:** The number of specimens positive by antigen detection increased; the percentage of tested specimens that were positive increased from 18% to 30%.