MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

April 2006 Vol. 11, No. 4 Ajaib Singh, D.V.M.,Ph. D.

MICROBIOLOGY REPORT: The April 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 March 2006 and new cases of syphilis in Milwaukee during February 2006. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during February is also included.

Legionnaires Disease (March 2006)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
58	M	+	ND	ND

ND = Not done

Pertussis (Whopping cough) March 2006

No positive case detected.

Syphilis (March 2006)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	9
VDRL	35	DARK FIELD	0

New Cases Syphilis

The Wisconsin Division of Health has reported 8 new cases (early stages) of syphilis during February 2006 in Milwaukee. The median age of early syphilis cases is 32.0 years (range: 21-45 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (February 2006 and February 2005)

Stage	Number of Cases	
	February 2006	February 2005
Primary syphilis	0	0
Secondary syphilis	4	1
Early latent	4	2
Late latent	3	1
Total	11	4

Gonorrhea (March 2006)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
73	1(IR),5(R)	0	0	1(DS)

IR = Intermediate Resistance R = Resistance

Gonorrhea from Other Sources (Aurora Consolidated Labs) March 2006

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antiobiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
6	0	0	0	0

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
Ureaplasma urealyticum	Genital	24	*Mycoplasma hominis*	Genital	2

Parasitic Enteric Pathogens (March 2006)

Age	Sex	Pathogen	Number Cases
		No Parasite seen	

Mycobacterial infections (March 2006)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
30	M	-	+	Not Done	*M. xenopi*
36	M	+	+	+	*M. tuberculosis*
48	F	-	+	+	*M. avium complex*
44	M	-	+	+	*M. avium complex*

Bacterial Enteric Pathogens (March 2006)

Age	Sex	Pathogen	Age	Sex	Pathogen
14mo	F	*Shigella flexneri type B4*	43	M	*Salmonella bovismorbificans*
			10	M	*Salmonella infantis*
			7mo	F	*Salmonella stanley*
27	F	*Salmonella paratyphi B var.java*	19mo	M	*Salmonella stanley*
41	M	*Salmonella paratyphi B var.java*	6	M	*Salmonella stanley*
25	F	*Salmonella worthington*	22	F	*Salmonella typhimurium*
52	F	*Salmonella enteritidis*	65	F	*Salmonella saintpaul*
37	M	*Salmonella enteritidis*	72	F	*Salmonella heidelberg*
39	M	*Salmonella putten*	22	F	*Salmonella typhimurium*

Reference Cultures (March 2006)

Age	Sex	Site/Specimen Source	Culture Identification
62	M	Urine	*Vibrio cholerae non O1; non 0139*
40	F	Wound	*Psedomonas alcaligenes*
91	F	Urine	*Streptococcus mitis sp/gp*
63	F	Swab	*Agrobacterium radiobacter*
86	F	Cornea	*Moraxella nonliquefaciens*
40	F	Stool	*Bacillus sp NOT B. anthracis*
60	F	Urine	*Escherichia coli*
32	M	Blood	*Corynebacterium jeikeium*
84	F	Stool	*Escherichia coli other than O157*
7wk	M	Others	*Chryseobacterium indologenes*
85	F	Urine	*Klebsiella pneumoniae*
42	F	Wound	*Actinomyces israelii*
77	F	Stool	*Escherichia coli*
84	F	Stool	*Escherichia coli other than O157*
52	M	Blood	*Coagulase positive Staphylococcus sp.*
74	F	Stool	*Morganella morganii*
87	F	Blood	*Corynebacterium striatum*

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during February 2006

***Mycobacterium* species**		**Brown**	**Dane**	**Eau Claire**	**Jefferson**	**Kenosha**	**La Crosse**	**Manitowoc**	**Marathon**	**Milwaukee**	**Outagamie**	**Racine**	**Rock**	**Waukesha**	**Winnebago**	**Wood**	**TOTALS**
M. tuberculosis complex	Pulm			1	1				1					1		2	**6**
	Extra									1							**1**
Total *M. tuberculosis* complex				**1**	**1**				**1**	**1**				**1**		**2**	**7**
***M. avium* complex**	Pulm	2	10			1	2	1		43	1		1	1	1		**63**
	Extra		1							4							**5**
M. gordonae	Pulm	2	9	1						13		2	4		2	1	**34**
	Extra		1														**1**
M. abscessus	Pulm		1							2							**3**
	Extra															1	**1**
M. chelonae	Pulm	1														1	**2**
	Extra									1							**1**
M. fortuitum *group*	Pulm									7							**7**
	Extra																**0**
M. kansasii	Pulm									1							**1**
	Extra									1							**1**
M. marinum	Pulm																**0**
	Extra		1														**1**
M. mucogenicum	Pulm																**0**
	Extra									3							**3**
M. xenopi	Pulm		1							5							**6**
	Extra	1															**1**
TOTALS		***6***	**24**	**1**	**0**	**1**	**2**	**1**	**0**	**80**	**1**	**2**	**5**	**1**	**3**	**3**	**130**

Extra-Pulmonary Sources of Isolation

Mycobacterium species	**Extra-pulmonary Site of Isolation**
M. tuberculosis complex	1 submandibular
M. avium complex	1 synovia, 1 ascites, 1 lumbar, 1 skin, 1 bone marrow
other *Mycobacterium* species	1 *xenopi* small bowel, 1 *chelonae* skin-face, 1 *kansasii* urine, 2 *mucogenicum* blood, 1 *mucogenicum* duodenal, *marinum* finger, 1 *abscessus* knee fluid. M. GORDONAE , Sttol.

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), PZA = (100 ug/ml)
There were 6 new *M. tuberculosis* isolations from Wisconsin patients this month. 1 isolate was from an Illinois patient.
M. bovis BCG susceptibility testing not included.
(#) PZA resistant/indeterminant isolates: biochemicals are pending on one isolate to determine if it is *M. bovis.*
(*) 1 isolate was resistant to all first-line TB drugs. Second-line drugs are pending.
Source: Mycobacteriology Laboratory Network Data Report, Wisconsin State Laboratory of Hygiene, Madison, WI.

SUMMARY OF CONFIRMED VIRUS INFECTIONS

ISSUE #1206 *FINAL ISSUE*

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 April 11th THROUGH May 15, 2006

Patient	Symptoms	Specimen	Submitted	Virus
M 24yr (UWM)	ARD, fever, headache	Throat Swab	05/01/06	Influenza B
M 19 yr (MU)	Fever, headache, cough, vomiting	Throat Swab	04/10/06	Influenza B
M 28yr (M.U)	Sore throat, URI	Throat Swab	05/09/06	Rhinovirus
M 34yr	Autopsy	Autopsy NP Swab	04/27/06	Rhinovirus
M 14yr	URI	NP/MRC-5 Cells	04/17/06	Rhinovirus
F 28yr (UWM)	Cough, fever, headache	Throat Swab	04/13/06	Rhinovirus
F 7 mo	URI	NP/MRC-5 Cells	04/11/06	Rhinovirus
M 50yr	URI	NP/MRC-5 Cells	04/11/06	Rhinovirus
F 5yr	URI	NP/MRC-5 Cells	04/10/06	Rhinovirus
M 3 mo	ARD	NP/MRC-5 Cells	04/10/06	Rhinovirus
F 17mo	Infant death	Autopsy, NP Swab	04/07/06	Rhinovirus
M 25yr (UWM)	Sore throat, fever	Throat Swab	05/03/06	Adenovirus
M 19yr (MU)	Cough, sore throat, URI, fever	Throat Swab	05/03/06	Adenovirus
F 7mo	Diarrhea	Stool	05/01/06	Adenovirus by culture and Adeno 40/41 by EIA
M 4yr	Autopsy	Autopsy colon swab	04/19/06	Adenovirus
F 2mo	Infant death	Autopsy spleen Swab	05/03/06	Coxsackievirus B3
		Autopsy NP Swab	05/03/06	Coxsackievirus B3
		Autopsy Colon Swab	05/03/06	Coxsackievirus B3

NOTE: Over the last few months, this lab has been detecting low titers of coxsackievirus B3 in local sewage. At time enteroviruses isolated from late winter and spring sewage samples

become the most prevalent summer enterviruses. Echoviruses 6 and 30 have also been detected in recent sewage samples.				
M 3wks	Infant death	Autopsy Colon Swab	05/09/06	Rotavirus
M 4days	Infant death	Autopsy Colon Swab	05/09/06	Rotavirus
M 21 mo	Diarrhea	Stool	05/05/06	Rotavirus
M 4yr	Diarrhea	Stool	04/24/06	Rotavirus
F 43yr	Diarrhea	Stool	04/18/06	Rotavirus

SUMMARY OF CONFIRMED VIRUS INFECTIONS

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VIRUS ISOLATION: WEEKS OF April 11TH THROUGH May 15, 2006

Patient	Symptoms	Specimen	Submitted	Virus
M 6mo	Diarrhea	Stool	04/14/06	Rotavirus
M 7mo	Diarrhea	Stool	04/13/06	Rotavirus
M 6mo	Diarrhea	Stool	04/12/06	Rotavirus
M 10mo	Diarrhea	Stool	04/11/06	Rotavirus
M 3mo	Infant death	Autopsy Colon Swab	04/07/06	Rotavirus
F 13mo	SCIDS	B.A.L./RMK Cells	04/25/06	Mumps Virus (vaccine virus)
M 29yr	Vesicular Rash	Vesicle Swab	05/03/06	Varicella-Zoster Virus
M 48yr	Back Vesicles	Vesicle Swab	04/02/06	Varicella Zoster Virus
F 7yr	R/O Chickenpox	Vesicle Swab	04/14/06	Varicella Zoster Virus
F 21yr	STD	Cervix Lesion Vulva Lesion	05/12/06 05/12/06	HSV(Type 2 CPE) HSV(Type 2 CPE)
F 34yr	Ear Lesion	Lesion Swab	05/11/06	HSV (Type 1 CPE)
M 21yr	STD	Penis Lesion	05/11/06	HSV (Type 2 CPE)
F 27yr	STD	L-Labia Lesion	05/08/06	HSV (Type 2 CPE)
F 23yr	Face Lesion	Lesion Swab	05/08/06	HSV (Type 1CPE)

M 18yr	Eyelid Lesion	Eyelid Swab	05/05/06	HSV (Type 1CPE)
M 36yr	STD	Penis Lesion	05/05/06	HSV (Type 2 CPE)
F 57yr	Chest and Back Lesion	Chest Lesion	05/05/06	HSV (Type 1 CPE)
M 4day	Fever	Endotracheal Aspirate NP Swab	05/05/06 05/05/06	HSV (Type 1 CPE) HSV (Type 1 CPE)
M 22yr	Tongue Lesion	Tongue Swab	05/04/06	HSV (Type 1 CPE)
F 26yr	STD	Vulva Lesion	05/13/06	HSV (Type 2 CPE)
F 38yr	STD	Vulva Lesion	05/03/06	HSV (Type 2 CPE)
F 22yr	Oral Lesion	Lip Sore	05/03/06	HSV (Type 1 CPE)
M 19yr	Lower Lip Lesion	Lesion Swab	05/03/06	HSV (Type 1 CPE)
M 19yr	STD	Penis Lesion	05/03/06	HSV (Type 2 CPE)
M 21yr	STD	Penis lesion	05/02/06	HSV (Type 2 CPE)

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VIRUS ISOLATION: WEEKS OF April 11TH THROUGH May 15, 2006

Patient	Symptoms	Specimen	Submitted	Virus
F 21yr	STD	Vaginal Lesion	05/02/06	HSV (Type 2 CPE)
M 17yr	STD	Penis Lesion	05/02/06	HSV (type 2 CPE)
F 39yr	STD	Genital Lesion	05/02/06	HSV (type 2 CPE)
M 22 yr	STD	Penis Lesion	05/02/06	HSV (type 2 CPE)
M 29yr	STD	Penis Lesion	05/02/06	HSV (type 2 CPE)
M 31yr	STD	Penis Lesion	05/02/06	HSV (type 2 CPE)
F 26yr	STD	Vulva Lesion	04/28/06	HSV (type 2 CPE)
F 25yr	STD	Genital Lesion	04/26/06	HSV (type 2 CPE)
M 20yr	STD	Penis Lesion	04/25/06	HSV (type 2 CPE)
F 30yr	STD	Vulva Lesion	04/24/06	HSV (type 2 CPE)
F 19yr	Neck Vesicles	Neck Vesicle	04/24/06	HSV (type 1 CPE)
F 21yr	Tongue Lesion	Tongue Swab	04/21/06	HSV (type 1 CPE)
M 40yr	Penile Vesicle	Vesicle Swab	04/21/06	HSV (type 2 CPE)
F 37yr	Sore Throat	NP Swab	04/20/06	HSV (type 1 CPE)
F 21yr	Fever, Sore throat	Throat Swab	04/20/06	HSV (type 1CPE)
M 30yr	STD	Penis Lesion	04/12/06	HSV (type 2CPE)
F 20yr	STD	Vaginal Lesion	04/11/06	HSV (type 2CPE)
F 22yr	Oral Lesion	Mouth Swab	04/10/06	HSV (type 1CPE)
F 21yr	STD	Perineum Lesion	04/06/06	HSV (type 1 CPE)
F 21yr	STD	Perineum Lesion	04/06/06	HSV (type 2 CPE)
F 23yr	STD	Labia Lesion	04/03/06	HSV (type 2 CPE)

F 20yr	STD	Perineum Lesion	04/03/06	Molluscum Contagiousm Virus
F 18yr	Mumps	Buccal Swab Urine	05/03/06 05/03/06	Trichomonads Trichomonads

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
M 36yr	STD Clinic HIV Screen	04/27/06	HIV + by EIA
M 84yr	ARD	04/21/06	Influenza A CF 64--> 64
F 14yr	Mumps	05/12/06	Mumps Virus IgM Ab+ by IFA
F 30yr	Mumps	05/09/06	Mumps Virus IgM Ab+ by IFA
M 42yr	Mumps	05/09/06	Mumps Virus IgM Ab+ by IFA
M 28mo	Mumps	05/09/06	Mumps Virus IgM Ab+ by IFA
F 31yr	Mumps	05/02/06	Mumps Virus IgM Ab+ by IFA
M 54yr	Mumps	05/04/06	Mumps Virus IgM Ab+ by IFA
F 12yr	Mumps	05/02/06	Mumps Virus IgM Ab+ by IFA
F 34yr	Mumps	04/26/06	Mumps Virus IgM Ab+ by IFA
F 26yr	Mumps	04/17/06	Mumps Virus IgM Ab+ by IFA

Gerald V. Sedmak, Ph.D.
Chief Virologist
GVS:cms

NOTE: *After 35 years as Chief Virologist for the City of Milwaukee Health Department, I will be retiring in June of 2006. I started sending out this summary the last week of October, 1976 and after 1206 issues, this will be my last summary. I hope the information provided in this summary has been useful. Thanks for the memories; it has been an enjoyable 35 years.*