

MICROBIOLOGY DIVISION – MILWAUKEE HEALTH DEPARTMENT

MONTHLY REPORT

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

Legionnaires Disease (October 2005)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
67	F	+	ND	ND

ND = Not done.

Pertussis (Whooping Cough) October 2005

No positive case detected.

Syphilis (October 2005)

Test	Number Positive	Test	Number Positive
RPR	2	FTA-ABS	21
VDRL	60	DARK FIELD	0

New Cases Syphilis

The Wisconsin Division of Health has reported 3 new cases (early stages) of syphilis during September 2005 in Milwaukee. The median age of early syphilis cases is 29.0 years (range: 16-47 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (September 2005 and September 2004)

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

Gonorrhea (October 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
58	1(R)	0	0	2(DS)

Gonorrhea from Other Sources (Aurora Consolidated Labs) October 2005

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

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	32	<i>Mycoplasma hominis</i>	Genital	7

Parasitic Enteric Pathogens (October 2005)

Age	Sex	Pathogen	Number Cases
4	F	<i>Giardia lamblia</i>	1
3	F	<i>Giardia lamblia</i>	1
8	M	<i>Giardia lamblia</i>	1
		<i>Cryptosporidium sp</i>	
28	F	<i>Entamoeba coli</i>	1
10	M	<i>Chilomastix mesnili</i>	1
39	F	<i>Blastocystis hominis</i>	1
29mo	M	<i>Giardia lamblia</i>	1
10	F	<i>Giardia lamblia</i>	1
16	M	<i>Giardia lamblia</i>	1
18	F	<i>Iodamoeba buetschlii</i>	1
14	F	<i>Blastocystis hominis</i>	1
15	F	<i>Giardia lamblia</i>	1
16	M	<i>Giardia lamblia</i>	1
12	F	<i>Giardia lamblia</i>	1
		<i>Entamoeba coli</i>	
4	F	<i>Giardia lamblia</i>	1
		<i>Entamoeba coli</i>	
		<i>Blastocystis hominis</i>	
9	F	<i>Entamoeba coli</i>	1
13	M	<i>Entamoeba coli</i>	1
19mo	M	<i>Giardia lamblia</i>	1
15	M	<i>Giardia lamblia</i>	1
70	F	<i>Giardia lamblia</i>	1
35	M	<i>Blastocystis hominis</i>	
21	M	<i>Iodamoeba buetschlii</i>	1

Mycobacterial infections (October 2005)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
24	M	+	+	+	<i>M. kansasii</i>
47	M	+	+	+	<i>M. avium</i> complex
21	F	+	+	+	<i>M. avium</i> complex
39	M	-	+	+	<i>M. avium</i> complex
30	M	-	+	-	<i>M. fortuitum</i> complex

Reference Cultures (October 2005)

Age	Sex	Site/Specimen Source	Culture Identification
7	M	Blood	<i>Neisseria mucosa</i>
81	F	Blood	<i>Corynebacterium</i> sp
71	F	Stool	<i>Escherichia coli</i>
66	F	Blood	<i>Corynebacterium</i> sp
79	F	Unknown	<i>Rhodococcus</i> sp
79	F	Blood	<i>Bacillus</i> sp NOT <i>B. anthracis</i>
90	M	Urine	<i>Pantoea</i> sp
17	F	Urine	<i>Escherichia coli</i>
82	F	Urine	<i>Escherichia coli</i>

Bacterial Enteric Pathogens (October 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
34	M	<i>Shigella boydii</i> C4	57	M	<i>Salmonella enteritidis</i>
41	M	<i>Shigella sonnei</i>	75	F	<i>Salmonella enteritidis</i>
27mo	M	<i>Shigella sonnei</i>	27	F	<i>Salmonella typhimurium</i>
29mo	M	<i>Shigella sonnei</i>	43	F	<i>Salmonella typhimurium</i>
28mo	F	<i>Shigella flexneri</i> B3	93	F	<i>Salmonella typhimurium</i>
6	M	<i>Shigella sonnei</i>	89	F	<i>Salmonella typhimurium</i>
22	F	<i>Shigella sonnei</i>	9mo	M	<i>Salmonella typhimurium</i>
54	F	<i>Shigella sonnei</i>	31	F	<i>Salmonella typhimurium</i>
			46	M	<i>Salmonella ohio</i>
			9	F	<i>Salmonella minnesota</i>
			82	M	<i>Salmonella anatum</i>
			25	F	<i>Salmonella saintpaul</i>
			25	M	<i>Salmonella java</i>

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during September 2005

<i>Mycobacterium</i> species		Brown	Dane	Kenosha	Manitowoc	Marathon	Milwaukee	Outagamie	Racine	Rock	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm		1				2			2			1	6
	Extra		1				1							2
Total <i>M. tuberculosis</i> complex			2				3			2			1	8
<i>M. avium</i> complex	Pulm	2	3	1	1	1	51	1	3	3	2	6	2	76
	Extra						1							1
<i>M. gordonae</i>	Pulm		4		1		10		1			4	2	22
	Extra		1											1
<i>M. abscessus</i>	Pulm		1				2							3
	Extra		1											1
<i>M. chelonae</i>	Pulm						1							1
	Extra						1							1
<i>M. fortuitum</i> group	Pulm						3					1		4
	Extra													0
<i>M. kansasii</i>	Pulm	1					1							2
	Extra						1							1
<i>M. marinum</i>	Pulm						1							1
	Extra													0
<i>M. mucogenicum</i>	Pulm			1			5							6
	Extra						1							1
<i>M. xenopi</i>	Pulm		1				4							5
	Extra													0
<i>M. simiae</i> complex	Pulm						1							1
<i>M. chelonae/abscessus</i>	Extra										1			1
<i>M. celatum</i>	Pulm										1			1
TOTALS		3	11	2	2	1	83	1	4	3	4	11	4	129

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	2 lymph node
<i>M. avium</i> complex Extra-pulmonary:	1 blood
<i>M. gordonae</i> Extra-pulmonary:	1 gastric
Other <i>Mycobacterium</i> species	1 <i>abscessus</i> foot wound, 1 <i>chelonae</i> thoracic, 1 <i>mucogenicum</i> blood, 1 <i>kansasii</i> synovial fluid elbow, 1 <i>chelonae/abscessus</i> finger

Wisconsin TB Isolations and Antibiotic Susceptibilities:

Seven TBC isolates reported by Wisconsin laboratories this month were from Wisconsin TB cases. One isolate was from an Illinois patient.

Six of the TBC isolates were susceptible to all first-line TB drugs. One isolate was susceptible to INH, rifampin and PZA with ethambutol pending. One isolate was susceptible to PZA with all other drug testing pending.

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

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"Feedback" form on our website.**

VIRUS ISOLATION: WEEKS OF NOVEMBER 7TH THROUGH DECEMBER 6, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M 41 yr	Pneumonia	B.A.L.	11/23/05	Rhinovirus
F 8 mo	Infant death	Autopsy Colon Swab	11/15/05	Enterovirus (probable parechovirus) and Adenovirus
F 3 mo	Infant death	Autopsy NP Swab Autopsy Colon Swab	11/23/05 11/23/05	Adenovirus Adenovirus
F 24 mo	Diarrhea	Stool	11/21/05	Adenovirus
F 20 mo	Cough, Sore Throat, Fever, Headache, Myalgias	Throat Swab	11/15/05	Adenovirus
M 10 mo	Diarrhea	Stool	11/7/05	Adenovirus
M 11 mo	Diarrhea	Stool	11/18/05	Adenovirus 40/41 by EIA
M 55 yr	No Information	B.A.L./RMK cells	11/5/05	West Nile Virus (PCR I.D. by state lab) virus produced CPE on Caco 2 and Vero cells
M 26 yr	Penis lesion	Lesion swab	12/2/05	HSV (Type 2 CPE)
F 28 yr	STD	Labia lesions	11/29/05	HSV (Type 2 CPE)
M 37 yr	Face lesion	Lesion swab	11/29/05	HSV (Type 1 CPE)
M 22 yr	STD	Genital lesion	11/28/05	HSV (Type 1 CPE)
F 23yr	STD	Eye Swab	11/28/05	HSV (Type 1 CPE)
M	STD	Buttock Lesion	11/22/05	HSV (Type 2 CPE)

34 yr					
M	STD	Genital Lesion	11/21/05	HSV (Type 1 CPE)	
18 yr					
F	Oral lesion	Mouth swab	11/21/05	HSV (Type 1 CPE)	
82 yr					
F	Tongue lesion	Tongue swab	11/18/05	HSV (Type 1 CPE)	
10 mo					
F	STD	Vulva lesion	11/17/05	HSV (Type 1 CPE)	
22 yr					
F	STD	Vulva lesion	11/17/05	HSV (Type 1 CPE)	
19 yr					
M	Rectal lesions	Rectal swab	11/15/05	HSV (Type 1 CPE)	
29 yr					
M	STD	Penis lesion	11/11/05	HSV (Type 2 CPE)	
26 yr					

SUMMARY OF CONFIRMED VIRUS INFECTIONS

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VIRUS ISOLATION: WEEKS OF NOVEMBER 7th THROUGH DECEMBER 6, 2005

Patient	Symptoms	Specimen	Submitted	Virus
M	STD	Penis lesion	11/10/05	HSV (Type 2 CPE)
21 yr				
M	STD	Penis lesion	11/10/05	HSV (Type 2 CPE)
33 yr				
M	STD	Penis lesion	11/7/05	HSV (Type 2 CPE)
34 yr				
F	STD	Genital lesions	11/7/05	HSV (Type 2 CPE)
29				
F	STD	L-Labia Sore	11/4/05	HSV (Type 2 CPE)
24 yr				
F	STD	Penis lesion Swab	11/1/05	HSV (Type 2 CPE)
21 yr				
F	STD	Genital lesion	11/30/05	Trichomonads
30 yr				

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
M	A.R.D.	10/10/05	Adenovirus CF
8 yr			64→64

NOTE: Influenza Activity Report:

To date this season the State Virus Lab reports that there have been seven culture-confirmed cases of influenza virus type A. Five isolates have been identified as A(H3) viruses one A(H1) and one not sub-typed. Positives have been recovered from Brown, Dane, Milwaukee, Racine, Trempealeau and Waukesha counties.



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GVS:cms