

**MICROBIOLOGY SECTION
MILWAUKEE HEALTH DEPARTMENT**

MONTHLY REPORT

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

Legionnaires Disease (September 2005)

Patient		Test		
Age	Sex	Urine Antigen	Culture	DFA
86 Y	F	+	ND	ND

ND = Not done

Pertussis (Whooping cough) September 2005

No positive case detected.

Syphilis (September 2005)

Test	Number Positive	Test	Number Positive
RPR	1	FTA-ABS	12
VDRL	45	DARK FIELD	0

New Cases of Syphilis

The Wisconsin Division of Health has reported 4 new cases (early stages) of syphilis during August 2005 in Milwaukee. The median age of early syphilis cases is 41.5 years (range: 23 - 58 years). Morbidity distributions of the disease reported in this and the corresponding month of the previous year are as follows:

New Cases of Syphilis (August 2005 and August 2004)

Stage	Number of Cases	
	August 2005	August 2004
Primary syphilis	0	0
Secondary syphilis	1	2
Early latent	3	3
Late latent	2	4
Total	6	9

Gonorrhea (September 2005)

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
66	1(IR)	0	0	0

R) = Resistance

Gonorrhea from Other Sources (Aurora Consolidated Labs) September 2005

Number Tested	Decreased Susceptibility (DS)/Resistance (R) to Antibiotics			
	Ciprofloxacin	Ceftriaxone	Spectinomycin	Azithromycin
7	1(R)	0	0	1(DS)

R) = Resistance (DS) = Decreased susceptibility

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

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	30	<i>Mycoplasma hominis</i>	Genital	6

Parasitic Enteric Pathogens (September 2005)

Age	Sex	Pathogen	Number Cases
19	M	<i>Hymenolepis nana</i>	1
19	M	<i>Giardia lamblia</i>	1
7	M	<i>Giardia lamblia</i>	1
3	M	<i>Giardia lamblia</i>	1
5	M	<i>Giardia lamblia</i>	1
11	M	<i>Hymenolepis nana</i>	1

Mycobacterial infections (September 2005)

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
47	M	-	+	N.D.	<i>M. xenopi</i>
21	F	+	+	+	<i>M. tuberculosis</i>

Bacterial Enteric Pathogens (September 2005)

Age	Sex	Pathogen	Age	Sex	Pathogen
45	M	<i>Shigella sonnei</i>	22	F	<i>Salmonella derby</i>
37	F	<i>Shigella sonnei</i>	19	F	<i>Salmonella muenchen</i>
4	M	<i>Shigella sonnei</i>	5	F	<i>Salmonella muenchen</i>
23mo	F	<i>Shigella sonnei</i>	25	F	<i>Salmonella newport</i>
34	M	<i>Shigella boydii</i> C4	38	F	<i>Salmonella enteritidis</i>
56	M	<i>Shigella flexneri</i> B2	69	F	<i>Salmonella enteritidis</i>
			46	F	<i>Salmonella enteritidis</i>
69	M	<i>Salmonella typhimurium</i>	21	F	<i>Salmonella enteritidis</i>
15	M	<i>Salmonella typhimurium</i>	57	M	<i>Salmonella enteritidis</i>
88	F	<i>Salmonella typhimurium</i>	30	F	<i>Salmonella enteritidis</i>
32	M	<i>Salmonella typhimurium</i>	29	M	<i>Salmonella virchow</i>
48	M	<i>Salmonella typhimurium</i>	25m	M	<i>Salmonella johannesburg</i>
33	M	<i>Salmonella typhimurium</i>	39	M	<i>Salmonella Thompson</i>
79	F	<i>Salmonella typhimurium</i>			

Reference Cultures (September 2005)

Age	Sex	Site/Specimen Source	Culture Identification
53	F	Stool	<i>Citrobacter braakii</i>
54	M	Blood	<i>Streptococcus mitis</i> sp/gp
41	M	Bronchial wash	<i>Nocardia asteroides</i>
56	M	Blood	<i>Corynebacterium</i> sp
70	F	Blood	<i>Clostridium</i> sp
52	F	Stool	<i>Escherichia coli</i> O157:H7
6	F	Stool	<i>Escherichia coli</i> O157:H7
11	M	Stool	Inactive <i>Escherichia coli</i>
53	M	Blood	<i>Streptococcus mutans</i> sp/gp
56	F	BAL	<i>Corynebacterium pseudodiphtheriticum</i>
79	F	Peritoneal fluid	<i>Enterococcus faecium</i>
3	F	Peritoneal dialysis fluid	<i>Comamonas</i> sp
89	F	Sputum	<i>Corynebacterium pseudodiphtheriticum</i>
11	M	Penile lesion	<i>Haemophilus parainfluenzae</i>
6	F	Stool	<i>Escherichia coli</i> O157:H7
31mo	M	N.A.	<i>Escherichia coli</i> O157:H7
50	F	IUD Swab	<i>Actinomyces israelii</i>
46	F	Urine	<i>Oligella urethralis</i>
54	F	Bronchial wash	<i>Corynebacterium striatum</i>
25	F	Urine	<i>Escherichia coli</i>
10	M	Stool	<i>Escherichia coli</i> O157:H7
63	F	Stool	<i>Escherichia coli</i> O157:H7

Laboratory Diagnosed Mycobacterial Infections in Wisconsin during August 2005:

<i>Mycobacterium</i> species		Brown	Dane	Douglas	Eau Claire	Kenosha	Milwaukee	Outagamie	Racine	Rock	Waukesha	Winnebago	Wood	TOTALS
<i>M. tuberculosis</i> complex	Pulm		1	1			2		1					5
	Extra		1											1
Total <i>M. tuberculosis</i> complex		0	2	1	0	0	2	0	1	0	0	0	0	6
<i>M. avium</i> complex	Pulm		3				41	1	1		2	4	2	54
	Extra		1				1							2
<i>M. gordonae</i>	Pulm		6		3		6					1	3	19
	Extra													0
<i>M. abscessus</i>	Pulm		1			1	1			1				4
	Extra													0
<i>M. fortuitum</i> group	Pulm						3						1	4
	Extra						1							1
<i>M. kansasii</i>	Pulm	1												1
	Extra													0
<i>M. marinum</i>	Pulm													0
	Extra													0
<i>M. mucogenicum</i>	Pulm	1					2					1		4
	Extra						3							3
<i>M. xenopi</i>	Pulm		1				3						1	5
	Extra						1							1
<i>M. scrofulaceum</i>	Pulm				1									1
<i>M. bovis</i> BCG	Extra						2							2
<i>M. smegmatis</i>	Pulm						1							1
<i>M. cookiei</i>	Pulm												1	1
TOTALS		2	12	0	4	1	65	1	1	1	2	6	8	103

Extra-Pulmonary Sources of Isolation:

<i>M. tuberculosis</i> Extra-pulmonary:	1 urine (<i>bovis</i>)
<i>M. avium</i> complex Extra-pulmonary:	1 stool, 1 gastric
<i>M. gordonae</i> Extra-pulmonary:	
Other <i>Mycobacterium</i> species	1 <i>bovis</i> BCG urine, 1 <i>bovis</i> BCG spinal mass, 1 <i>fortuitum</i> group blood, 2 <i>mucogenicum</i> blood, 1 <i>mucogenicum</i> duodenal, 1 <i>xenopi</i> urine

Wisconsin TB Isolations and Antibiotic Susceptibilities:

Six TBC isolates reported by Wisconsin laboratories this month were from Wisconsin TB cases.

5 isolates were susceptible to all TB first-line drugs.

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

SUMMARY OF CONFIRMED VIRUS INFECTIONS

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MILWAUKEE HEALTH DEPARTMENT

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

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**"We welcome any question or comments you have. Please see our
"Feedback" form on our website.**

VIRUS ISOLATION: WEEKS OF SEPTEMBER 13TH THROUGH OCTOBER 11, 2005

Patient	Symptoms	Specimen	Submitted	Virus
F 34 yr	No Information	Throat Swab	09/16/05	Echovirus 6
F 10 yr	Meningitis	CSF	09/27/05	Echovirus 18
F 22 yr	Meningitis	CSF	10/15/05	Echovirus 30
M 13 yr	Meningitis	CSF	09/20/05	Echovirus 30
M 38 yr	Meningitis	CSF	09/12/05	Echovirus 30

NOTE: Enterovirus cases 2005 to date:

1 x coxA4; 1 x coxA20; 9 x coxB5; 1 x echo-3; 1 x echo-6; 7 x echo-18; 1 x echo-25; 3 x echo-30

Total cases = 24

Same time 2004 Total cases = 13

See attachment for 2005 enterovirus summary.

M 23 yr (M.U.)	Fever, cough, sore throat, myalgia	Throat Swab	09/19/05	Parainfluenza 2
M 8 yr	U.R.I.	NPI RMK Cells	09/19/05	Rhinovirus
M 15 mo	Infant Death	Autopsy Lung Tissue	09/27/05	Adenovirus
		Autopsy NP Swab	09/27/05	Adenovirus
		Autopsy Colon Swab	09/27/05	Adenovirus
M 56 yr	Diarrhea	Stool	09/15/05	Adenovirus plus Adeno 40/41 EIA
F 15 mo	Diarrhea	Stool	09/20/05	Adeno 40/41 EIA
M 5 yr	Diarrhea	Stool	09/20/05	Rotavirus

M 25 yr	Penis Lesion	Penis Lesion Swab	10/7/05	HSV (Type 2 CPE)
F 31 yr	STD	Vulva Lesion Swab	10/07/05	HSV (Type 2 CPE)
F 18 yr	Vulva Lesion	Vulva Lesion Swab	10/5/05	HSV (Type 2 CPE)
F 45 yr	Vulva Lesion	Vulva Lesion Swab	10/05/05	HSV (Type 2 CPE)

SUMMARY OF CONFIRMED VIRUS INFECTIONS**ISSUE #1199 PAGE TWO****MILWAUKEE HEALTH DEPARTMENT****VIROLOGY DIVISION, G. SEDMAK, Ph.D. (414)286-3526****VIRUS ISOLATION: WEEKS OF SEPTEMBER 13TH THROUGH OCTOBER 11, 2005**

Patient	Symptoms	Specimen	Submitted	Virus
F 21 yr	STD	Labial Lesion Swab	10/04/05	HSV (Type 2 CPE)
		Throat Lesion Swab	10/04/05	HSV (Type 2 CPE)
F 20 yr	Tonsillitis, Gingivitis	Throat Swab	10/03/05	HSV (Type 1 CPE)
F 19 yr	STD	Vulva Lesion Swab	09/30/05	HSV (Type 2 CPE)
M 21 yr	STD	Penis Lesion Swab	09/30/05	HSV (Type 2 CPE)
F 18 yr	STD	Labial Lesion Swab	09/30/05	HSV (Type 2 CPE)
F 19 yr	STD	Vulva Lesion Swab	09/30/05	HSV (Type 2 CPE)
F 25 yr	STD	Rectal Lesion Swab	09/29/05	HSV (Type 2 CPE)
F 31 yr	STD	Vulva Lesion Swab	09/28/05	HSV (Type 2 CPE)
F 20 yr	STD	Genital Lesion Swab	09/28/05	HSV (Type 2 CPE)
F 33 yr	STD	Perineal Lesion Swab	09/27/05	HSV (Type 2 CPE)
F 18 yr	STD	Genital Lesion Swab	09/27/05	HSV (Type 2 CPE)
F 22 yr	STD	Vulva Lesion Swab	09/27/05	HSV (Type 2 CPE)
F 18 yr	Sore Throat, Fever	Throat Swab	09/28/05	HSV (Type 1 CPE)
M 20 yr	STD	Foreskin Lesion Swab	09/26/05	HSV (Type 2 CPE)
F 28 yr	STD	Vulva Lesion Swab	09/26/05	HSV (Type 2 CPE)
F 18 yr	Oral Lesion	Mouth Swab	09/26/05	HSV (Type 1 CPE)
F 21 yr	Lip, Tongue Lesion	Tongue Swab	09/26/05	HSV (Type 1 CPE)

F 35 yr	STD	Vagina Lesion Swab	09/23/05	HSV (Type 2 CPE)
F 22 yr	STD	Rectal Lesion Swab	09/23/05	HSV (Type 2 CPE)
F 21 yr	STD	Genital Lesion Swab	09/23/05	HSV (Type 2 CPE)
F 17 yr	STD	Vaginal Lesion Swab	09/22/05	HSV (Type 2 CPE)
M 25 yr	STD	Penis Sore Swab	09/21/05	HSV (Type 2 CPE)
F 20 yr	STD	Vaginal/Vulva Lesions Swab	09/20/05	HSV (Type 1 CPE)
F 24 yr	STD	Vaginal Lesion Swab	09/19/05	HSV (Type 2 CPE)
F 21 yr	Tongue Ulcer	Tongue Swab	09/16/05	HSV (Type 1 CPE)
F 58 yr	Lip Lesion	Lip Swab	09/16/05	HSV (Type 1 CPE)
F 18 yr	STD	Vulva Lesion	09/16/05	HSV (Type 1 CPE)
M 31 yr	Penis Lesion	Penis Lesion Swab	09/15/05	HSV (Type 2 CPE)
M 23 yr	STD	Penis Lesion Swab	09/13/05	HSV (Type 2 CPE)
F 25 yr	STD	Vulva Lesion Swab	09/12/05	HSV (Type 1 CPE)
M 29 yr	STD	Penis Lesion Swab	09/12/05	HSV (Type 2 CPE)
F 81 yr	Lip and Nasal Lesion	R Nose Lesion	09/12/05	HSV (Type 1 CPE)

SEROLOGY:

Patient	Symptoms	Acute Serum Date	Viral Agent
F 20 yr	Jail/HIV Screen	09/27/05	HIV + by EIA