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SUMMARY OF CONFIRMED INFECTIONS

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The August 2010 issue presents the laboratory diagnosis of some of the infectious diseases and the reference Microbiology and Virology work done in this laboratory during July 2010 and new cases of syphilis in Milwaukee during July 2010. Information on the laboratory diagnosed mycobacterial infections in Wisconsin during June 2010 was not available at the time of this report.

Legionnaires Disease

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

ND = Not done

Syphilis

Test	Total	Test	Total
RPR Reactive	0	TPPA Reactive	11
VDRL Reactive	20	Darkfield Positive	0

New Cases of Syphilis:

Stage	Number of Cases	
	July 2010	July 2009
Primary syphilis	0	0
Secondary syphilis	0	1
Early latent	1	2
Late latent	0	2
Total	0	5

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Spectinomycin	Azithromycin
1	0	0	0	0

Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
Ureaplasma urealyticum	Genital	12	*Mycoplasma hominis*	Genital	2

Enteric Parasites Identified

Age	Sex	Parasite
22	F	*Blastocystis hominis*
54	M	*Blastocystis hominis*
7	F	*Blastocystis hominis*
13	M	*Blastocystis hominis*
		Giardia lamblia
		Iodamoeba buetschlii
6	M	*Cryptosporidium* species
13	M	*Endolimax nana*
16	M	*Entamoeba coli*
46	F	*Entamoeba coli*
4	M	*Giardia lamblia*
11	M	*Trichuris trichiura*

Mycobacterial Infections

Age	Sex	Test Results			Identification
		Sputum Smear	Culture	DNA Probe	
72	F	-	+	ND	*M. xenopi*
41	M	-	+	ND	*M. xenopi*

ND = Not done

Reference Cultures

Age	Sex	Source	Identification
50	M	Bronchial brushing	*Actinomyces graevenitzii*
88	M	Surface Wound	*Bacillus* species NOT *Bacillus anthracis*
53	F	Blood	*Capnocytophaga canimorsus*
63	F	Blood	*Moraxella osloensis*
82	M	Blood	*Moraxella osloensis*
21	F	Genital	*Neisseria gonorrhoeae*
33	F	Stool	*Salmonella* Baildon
37	M	Stool	*Salmonella* Baildon
40	M	Stool	*Salmonella* Baildon
38	M	Stool	*Salmonella* Baildon

73	F	Serum	*Salmonella* Baildon
45	M	Stool	*Salmonella enterica* subspecies I *(enterica)*
5m	M	Stool	*Salmonella enterica* subspecies I *(enterica)*
28	F	Stool	*Salmonella* Enteritidis
55	F	Stool	*Salmonella* Enteritidis
40	F	Stool	*Salmonella* Miami
25	F	Stool	*Salmonella* Saintpaul
29m	F	Stool	*Salmonella* Typhimurium
28m	F	Stool	*Salmonella* Typhimurium variant O:5-
46	F	Stool	*Salmonella* Virchow
75	M	Blood	*Sphingomonas paucimobilis*

Virus Isolations from Clinical Specimens

Age	Sex	Source	Symptoms	Agent
22	F	Throat	Pharynx ulcer, sore throat, diarrhea, nausea	Coxsackie Virus Type A9
79	M	NP and Throat	R/O influenza	Rhinovirus
20	F	Throat	Sore throat, fever	Rhinovirus
20	F	Throat	Sore throat, lymphadenopathy	Herpes Simplex Type-1

Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes Simplex type 1	6
Herpes Simplex type 2	8

Molecular Amplification and PCR

Agent	Method	Tested	Positive	% Positive
Enterovirus	RT-PCR	1	1	100%
Influenza	RT-PCR	5	0	0
Chlamydia trachomatis	ProbeTec	574	84	14.6%
Neisseria gonorrhoeae	ProbeTec / GenProbe	805	52	6.5%

DNA Sequencing: The MHD laboratory uses 16S rRNA and the D2 region of the 26S rRNA genes for DNA sequence-based microbial identification of selective reference bacteria and fungal isolates.

Reference Microbe	Target gene	Final Identification
Bacteria	16S rRNA	*Actinomyces graevenitzii*
Bacteria	16S rRNA	*Capnocytophaga canimorsus*
Bacteria	16S rRNA	*Moraxella osloensis*
Bacteria	16S rRNA	*Sphingomonas paucimoblis*

****** IMPORTANT NOTES ******

The City of Milwaukee Health Department (MHD) would like to make all healthcare providers aware of the growing incidence in cases of pertussis (whooping cough) in several parts of country. The most notable state affected is California, where a pertussis epidemic was declared and where there has been 6-fold rise in the number of cases and 7 infant deaths in 2010. Other states that have recently reported rising numbers of pertussis cases include Idaho, Michigan, Ohio, Oregon, South Carolina, and Texas. As of August 6th, Milwaukee County has had 13 cases of pertussis since the beginning of the year, which is less than the 21 cases reported during the same time period in 2009. The City of Milwaukee Health Department and SurvNet will continue to monitor the situation for new developments. MHD also recommends that:

1. Healthcare providers should review their immunization records and that of their patients to assure adequate protection from pertussis. Vaccination with Tdap should be strongly considered for all adults who have close contact with children under 1 year of age.
2. Healthcare provider should consider pertussis when evaluating patients with respiratory disease, especially prolonged cough and test patients appropriately. PCR and/or culture are the preferred testing method for pertussis.
3. Healthcare providers should report suspected cases of pertussis to their local health department.

If you have any additional questions or to report cases, please contact your local health department. In Milwaukee County, suspect cases of pertussis should be reported to SurvNet at 414-286-3624.