



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

August 2017

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Syphilis

Test	Total	Test	Total
RPR Reactive	12	Darkfield Reactive	0
VDRL Reactive	52	TP-PA Reactive	38

New Cases of Syphilis

Stage	Number of Cases	
	Aug 2017	Aug 2016
Primary syphilis	0	0
Secondary syphilis	1	0
Early latent	0	1
Late latent	1	1
Unknown Duration	0	0
Total	2	2

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
50	0	0	1 (NS)	0

* No CLSI interpretation available

Reference Cultures

Age	Sex	Source	Identification
29	M	Stool	<i>Bacillus sp.</i>
35	M	Stool	<i>Bacillus thuringiensis</i>
68	M	Whole Blood	<i>Brevibacillus parabrevis</i>
45	M	Stool	<i>Campylobacter coli</i>
49	M	Stool	<i>Campylobacter jejuni</i>
48	M	Stool	<i>Campylobacter jejuni</i>

Age	Sex	Source	Identification
30	M	Stool	<i>Campylobacter upsaliensis</i>
30	M	Stool	<i>Campylobacter upsaliensis</i>
29	F	Neck	<i>Haemophilus parahaemolyticus</i>
19	M	Throat	<i>Neisseria gonorrhoeae</i>
24	F	Genital	<i>Neisseria gonorrhoeae</i>
48	F	Eye	<i>Neisseria gonorrhoeae</i>
61	U	Leg	<i>Nocardia brasiliensis</i>
75	F	Aspirate muscle abscess	<i>Nocardia brasiliensis</i>
59	M	Stool	<i>Salmonella Saintpaul</i>
74	M	Stool	<i>Salmonella Saintpaul</i>
23	M	Stool	<i>Salmonella Typhimurium</i>
45	M	Stool	<i>Vibrio sp.</i>

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.

Age	Sex	Source	Target gene	Final Identification
49	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
30	M	Stool	16S rRNA	<i>Campylobacter upsaliensis</i>
48	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
45	M	Stool	16S rRNA	<i>Vibrio sp.</i>
29	M	Stool	16S rRNA	<i>Bacillus sp.</i>
45	M	Stool	16S rRNA	<i>Campylobacter coli</i>
35	M	Stool	16S rRNA	<i>Bacillus thuringiensis</i>
28	F	Lesion - neck	16S rRNA	<i>Haemophilus parahaemolyticus</i>
61	M	Lesion – leg	16S rRNA	<i>Nocardia brasilensis</i>
75	F	Aspirate – muscle	16S rRNA	<i>Nocardia brasilensis</i>
68	M	Blood	16S rRNA	<i>Brevibacillus parabrevis</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	6	0	0
<i>Bordetella pertussis</i>	Real time PCR	9	0	0
Herpes simplex virus	Real time PCR	28	3	10
Mumps virus	Real time RT-PCR	1	0	0

***Chlamydia trachomatis* (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification**

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	637	64	10	637	57	9	381	37	10
Throat	459	9	2	493	30	6			
Rectal	154	13	8	156	9	6			
Vaginal							96	13	13

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

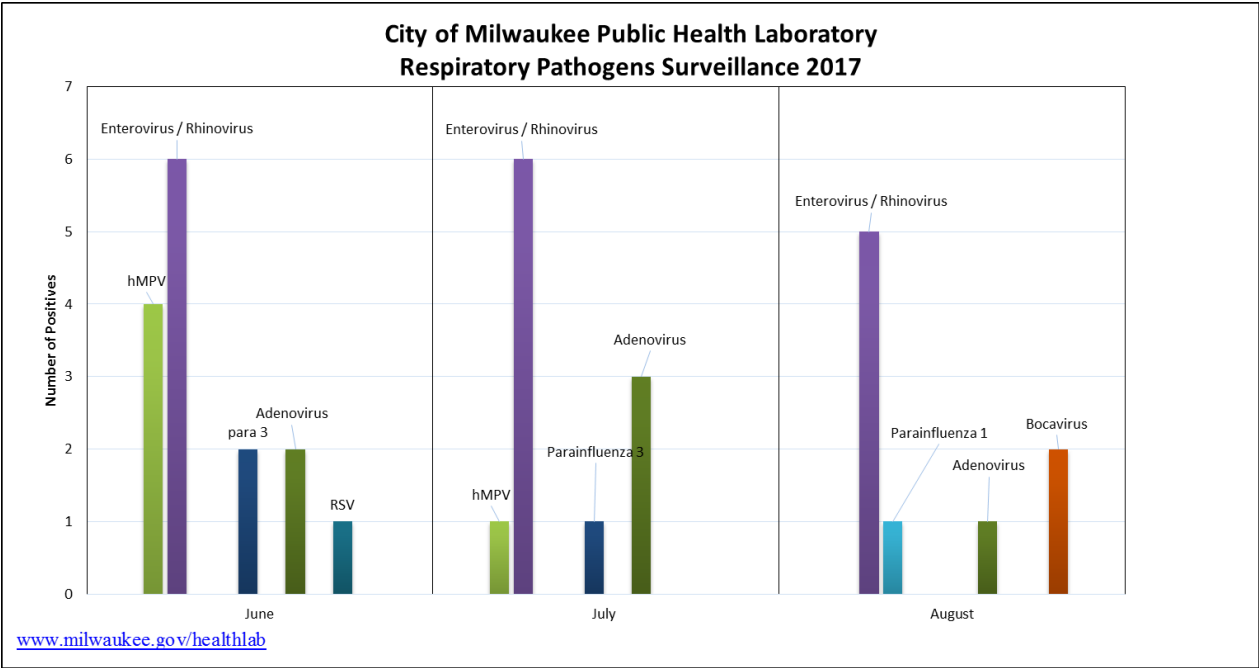
Agent	Virus Isolated in Culture		
	Throat	Virus swab – Other*	Isolates (Total %)
Human Enterovirus	0	3	17

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
 Specimens tested for virus: n = 17 (August 2017); Specimen tested for *Chlamydia* detection in culture: n = 2 (August 2017)

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human Bocavirus	2	29
Enterovirus/Rhinovirus	5	71
Human Adenovirus	1	14
Human parainfluenza virus	1	14

Specimens tested: n = 7 (August 2017 – Not including Influenza PCR data)



Note: The MHDL provides comprehensive detection of multiple respiratory viruses and their subtypes: Influenza A, Influenza B, Respiratory Syncytial Virus (RSV), Human Metapneumovirus (hMPV), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses. The bacterial targets include *Chlamydia pneumoniae*, *Mycoplamsa pneumoniae*, and *Legionella pneumophila*