



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

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September 2017

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Syphilis

Test	Total	Test	Total
RPR Reactive	7	Darkfield Reactive	0
VDRL Reactive	27	TP-PA Reactive	19

New Cases of Syphilis

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

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
52	0	0	0	0

* No CLSI interpretation available

Reference Cultures

Age	Sex	Source	Identification
45	M	Stool	<i>Campylobacter jejuni</i>
71	M	Stool	<i>Campylobacter jejuni</i>
86	F	Whole Blood	<i>Corynebacterium simulans</i>
86	F	Whole Blood	<i>Corynebacterium simulans</i>
27	F	Endocervical	<i>Neisseria gonorrhoeae</i>
29	F	Genital (Unspecified)	<i>Neisseria gonorrhoeae</i>

Age	Sex	Source	Identification
16	M	Penis	<i>Neisseria gonorrhoeae</i>
53	F	Endocervical	<i>Neisseria gonorrhoeae</i>
71	M	Unknown	<i>Nocardia nova</i>
74	M	Stool	<i>Salmonella</i> Reading

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
71	M	Isolate/choc. slant	16S rRNA	<i>Nocardia nova</i>
86	F	Blood	16S rRNA	<i>Corynebacterium simulans</i>
86	F	Blood	16S rRNA	<i>Corynebacterium simulans</i>
75	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
45	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
43	F	Endocervix	16S rRNA	<i>Gordonia bronchialis</i>
70	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
35	F	Lesion/Wound	16S rRNA	<i>Alternaria alternata</i>
Unknown	F	BAL	16S rRNA	<i>Petriella species, likely Petriella boulangeri</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	12	0	0
<i>Bordetella pertussis</i>	Real time PCR	10	1	10
Herpes simplex virus	Real time PCR	40	14	35
Varicella zoster	Real time RT-PCR	1	1	100
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	505	58	11	505	56	11	336	97	29
Throat	420	3	1	485	20	4			
Rectal	168	24	14	166	7	4			
Vaginal							79	11	14

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

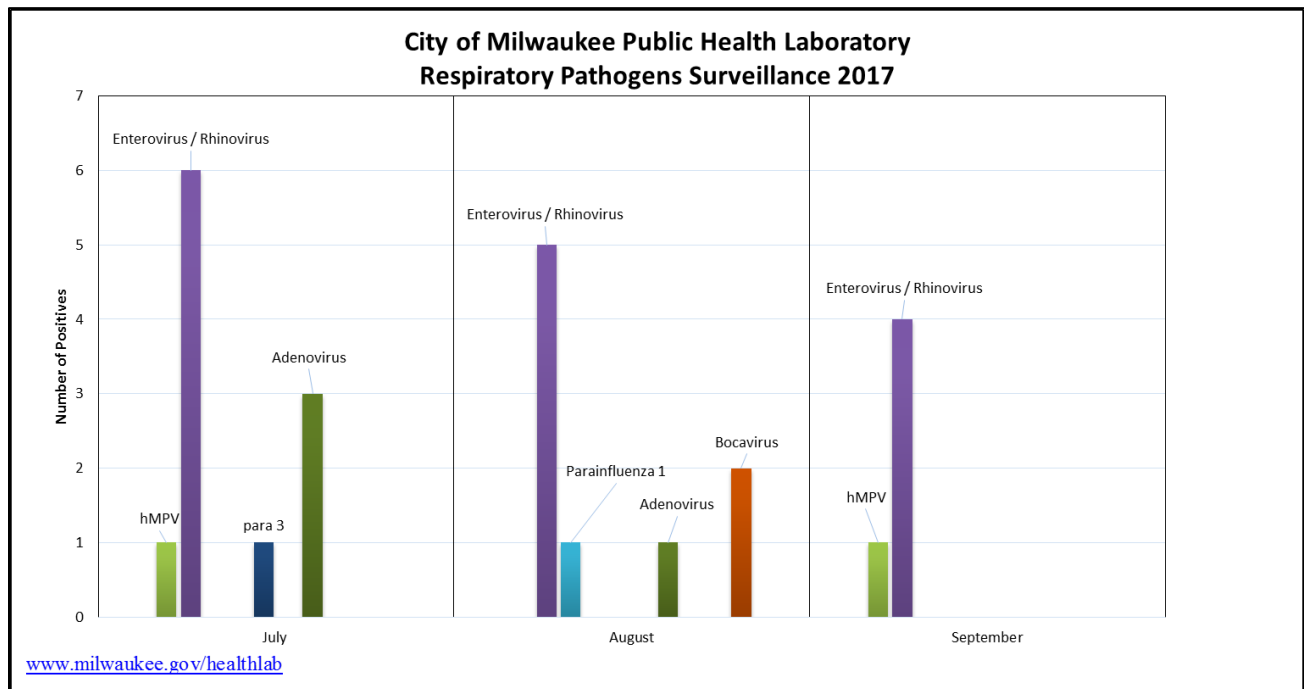
Agent	Virus Isolated in Culture		
	Throat	Virus swab – Other*	Isolates (Total %)
Enterovirus/Rhinovirus	0	1	11

* Includes lung, NP/Throat combined, Cytomegalovirus (CMV) shell vials, and unspecified sources
 Specimens tested for virus: n = 9 (September 2017); Specimen tested for *Chlamydia* detection in culture: n = 0 (September 2017)

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human metapneumovirus	1	13
Enterovirus/Rhinovirus	4	50

Specimens tested: n = 8 (September 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*