



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

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September 2016

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Syphilis

Test	Total	Test	Total
RPR Reactive	6	Darkfield Reactive	0
VDRL Reactive	23	TP-PA Reactive	19

New Cases of Syphilis

Stage	Number of Cases	
	Sept 2016	Sept 2015
Primary syphilis	0	0
Secondary syphilis	0	0
Early latent	0	0
Late latent	2	0
Total	2	0

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
27	1 (R)	0	0	1 (DS)

Reference Cultures

Age	Sex	Source	Identification
57	M	Stool	<i>Campylobacter jejuni</i>
71	M	Stool	<i>Campylobacter jejuni</i>
26	F	Genital	<i>Neisseria gonorrhoeae</i>
39	F	Genital	<i>Neisseria gonorrhoeae</i>
78	M	Stool	Salmonella Havana
44	F	Stool	Salmonella Infantis
69	F	Urine	Salmonella Saintpaul

Age	Sex	Source	Identification
19	F	Blood	Salmonella Typhi
30	M	Blood	Salmonella Typhi

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
70	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
54	F	Stool	16S rRNA	<i>Campylobacter upsaliensis</i>
27	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
69	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	6	0	0
Mumps virus	Real time RT-PCR	2	0	0
<i>Bordetella pertussis</i>	Real time PCR	3	0	0
Enterovirus	Real time RT-PCR	1	1	100
Herpes simplex virus	Real time PCR	45	17	38

Chlamydia trachomatis (CT) and *Neisseria gonorrhoea* (GC) Nucleic Acid Amplification

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	396	41	10	28	7
Throat or NP	288	5	2	21	7
Rectal	122	12	10	5	4

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

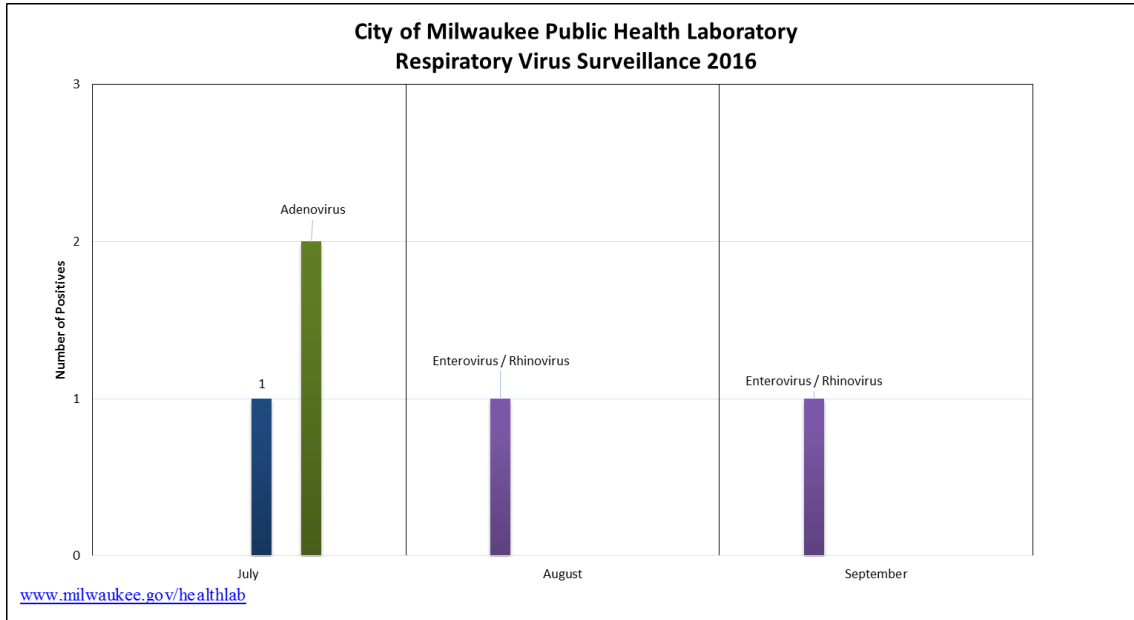
Agent	Virus Isolated in Culture				
	Throat	Genital	Lesion	Virus swab – Other*	Isolate (Total %)
Adenovirus	1	0	0	0	6
Enterovirus	0	0	0	1	6

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
Specimens tested for virus: n = 16 (September 2016); Specimen tested for *Chlamydia* detection in culture: n = 1 (September 2016)

Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Enterovirus/Rhinovirus	1	14

Specimens tested: n = 7 (Sept 2016 – 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 (hMVP), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses.