



City of Milwaukee Health Department Laboratory

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# SUMMARY OF CONFIRMED INFECTIONS

## July 2017

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### Syphilis

Test	Total	Test	Total
RPR Reactive	5	Darkfield Reactive	0
VDRL Reactive	26	TP-PA Reactive	14

### New Cases of Syphilis

Stage	Number of Cases	
	July 2017	July 2016
Primary syphilis	1	2
Secondary syphilis	3	1
Early latent	3	0
Late latent	0	0
Unknown Duration	0	0
Total	7	3

Source: Wisconsin Division of Health

### Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Susceptible (S) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
37	0	0	2 (R)	0

\* No CLSI interpretation available

### Reference Cultures

Age	Sex	Source	Identification
30	M	Stool	<i>Campylobacter coli</i>
18	F	Stool	<i>Campylobacter jejuni</i>
53	M	Stool	<i>Campylobacter jejuni</i>
21	F	Genital	<i>Neisseria gonorrhoeae</i>
69	M	Whole blood	<i>Salmonella</i> 4,5,12:i-
34	M	Stool	<i>Salmonella</i> Derby

**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
30	M	Stool	16S rRNA	<i>Campylobacter coli</i>
18	F	Stool	16S rRNA	<i>Campylobacter jejuni</i>
53	M	Stool	16S rRNA	<i>Campylobacter coli</i>

**Molecular Amplification**

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	3	0	<b>0</b>
<i>Bordetella pertussis</i>	Real time PCR	3	0	<b>0</b>
Herpes simplex virus	Real time PCR	39	10	<b>26</b>

***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	564	71	<b>13</b>	564	43	<b>8</b>	370	106	<b>28</b>
Throat	413	12	<b>3</b>	442	31	<b>7</b>			
Rectal	146	19	<b>13</b>	146	9	<b>6</b>			
Vaginal							90	15	<b>16</b>

**Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens**

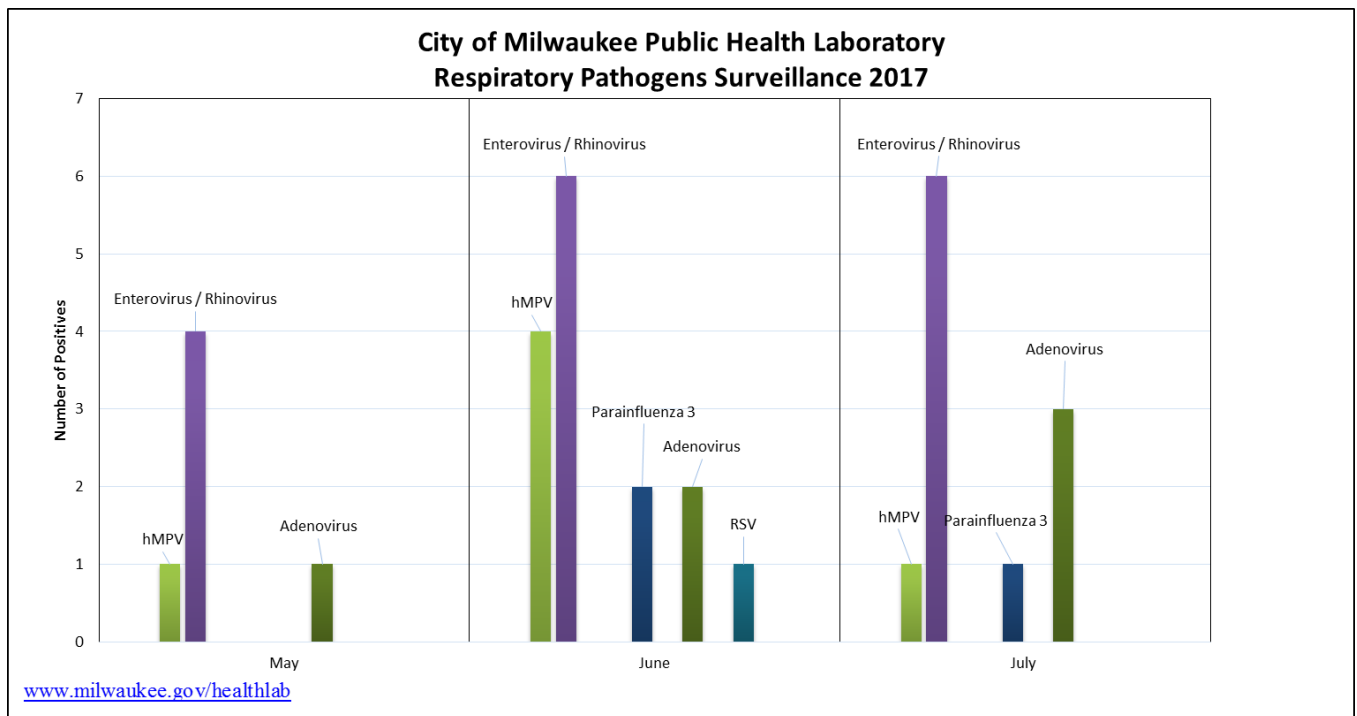
Agent	Virus Isolated in Culture		
	Throat	Virus swab – Other*	Isolates (Total %)
Human Enterovirus	0	2	<b>10</b>

\* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources  
 Specimens tested for virus: n = 20 (July 2017); Specimen tested for *Chlamydia* detection in culture: n = 4 (July 2017)

**Respiratory Pathogens Surveillance:**

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human Metapneumovirus	1	17
Enterovirus/Rhinovirus	6	100
Human Adenovirus	3	50
Human parainfluenza virus	1	17

Specimens tested: n = 6 (July 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*, *Mycoplasma pneumoniae*, and *Legionella pneumophila*