



# City of Milwaukee Health Department Laboratory

www.milwaukee.gov/healthlab

Phone: (414) 286-3526

Bevan K. Baker,  
Commissioner of Health  
www.milwaukee.gov/health

## SUMMARY OF CONFIRMED INFECTIONS

Sanjib Bhattacharyya, PhD  
Laboratory Director

November 2017

Trivikram Dasu, PhD, D(ABMLI)  
Deputy Laboratory Director

### Syphilis

Test	Total	Test	Total
RPR Reactive	0	Darkfield Reactive	0
VDRL Reactive	37	TP-PA Reactive	15

### New Cases of Syphilis

Stage	Number of Cases	
	Nov 2017	Nov 2016
Primary syphilis	0	0
Secondary syphilis	0	1
Early latent	0	4
Late latent	1	2
Unknown duration	0	0
Total	1	7

Source: Wisconsin Division of Health

### Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
54	0	0	4	0

\* No CLSI interpretation available

### Reference Cultures

Age	Sex	Source	Identification
85	M	BAL fluid	<i>Corynebacterium pseudodiphtheriticum</i>
68	M	Stool	<i>E. coli</i>
35	M	Abdominal fluid	<i>Mycobacterium fortuitum</i>
71	M	Abdominal fluid	<i>Mycobacterium fortuitum</i>
15	F	Genital	<i>Neisseria gonorrhoeae</i>
21	F	Genital	<i>Neisseria gonorrhoeae</i>

Age	Sex	Source	Identification
21	F	Genital	<i>Neisseria gonorrhoeae</i>
71	F	Genital	<i>Neisseria gonorrhoeae</i>
19	F	Genital	<i>Neisseria gonorrhoeae</i>
67	M	Hip	<i>Pseudomonas spp.</i>

**DNA Sequencing:** The MHD laboratory targets the 16S rRNA and the D2 region of the 28S rRNA genes for sequence-based microbial identification of selective reference bacteria and fungal isolates.

Age	Sex	Source	Target gene	Final Identification
79	F	Not Specified	16S rDNA	<i>Corynebacterium straitum</i>
30	F	Stool	16S rDNA	<i>Campylobacter jejuni</i>
67	M	Left Hip	16S rDNA	<i>Pseudomonas species</i>
62	F	BAL	16S rDNA	<i>Tatlockia micdadei</i>
79	F	Not Specified	16S rDNA	<i>Corynebacterium straitum</i>

#### Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	15	1	<b>6.6</b>
<i>Bordetella pertussis</i>	Real time PCR	5	1	<b>20</b>
<i>Enterovirus</i>	Real time RT-PCR	1	0	<b>0</b>
Herpes simplex virus	Real time PCR	35	14	<b>40</b>
Influenza virus	Real time RT-PCR	15	1	<b>6.6</b>
Varicella zoster	Real time PCR	2	1	<b>50</b>
Mumps virus	Real time RT-PCR	2	0	<b>0</b>

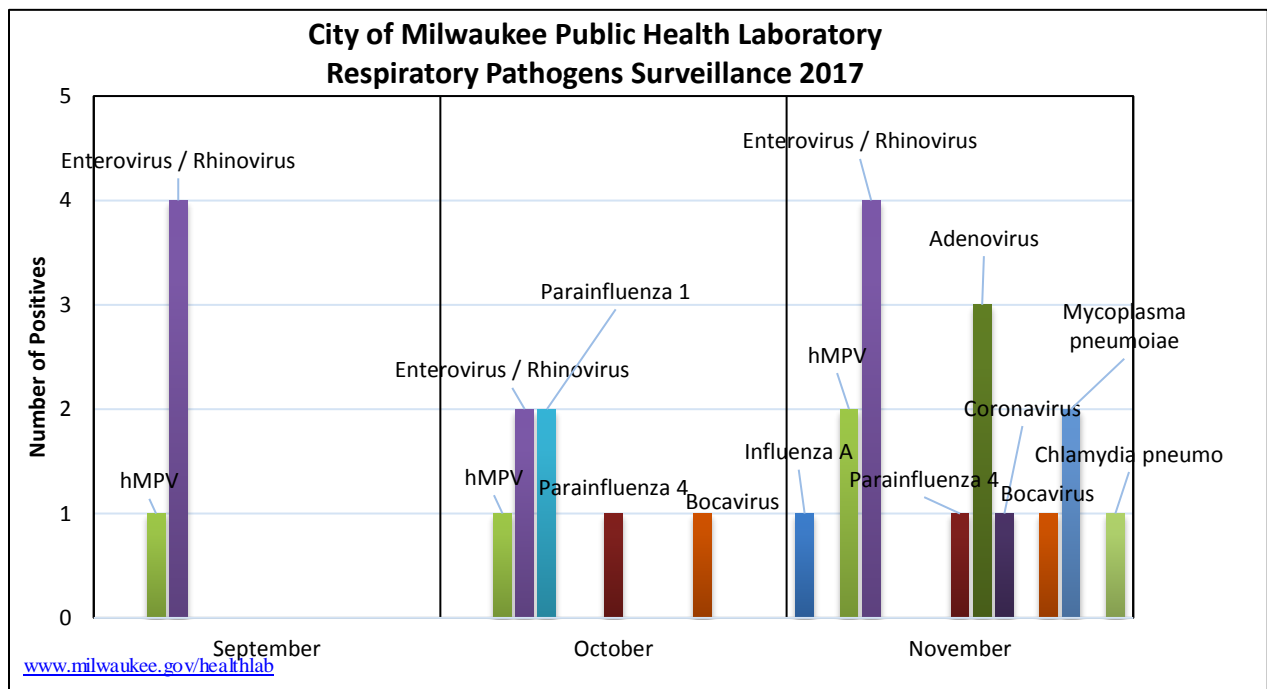
#### *Chlamydia trachomatis* (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	544	56	<b>10</b>	544	60	<b>11</b>	353	29	<b>8</b>
Throat	410	6	<b>1</b>	458	36	<b>8</b>			
Rectal	156	12	<b>8</b>	156	11	<b>7</b>			
Vaginal	0	0	<b>0</b>	0	0	<b>0</b>	96	19	<b>20</b>

**Respiratory Pathogens Surveillance:**

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human metapneumovirus	2	11
Enterovirus/Rhinovirus	4	22
Bocavirus	1	5
Human parainfluenza virus 1	0	0
Human parainfluenza virus 4	1	5

Specimens tested: n = 18 (November 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*