



# 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

Steve Gradus, PhD, D(ABMM)  
Laboratory Director

November 2016

Sanjib Bhattacharyya, PhD  
Deputy Laboratory Director

### Syphilis

Test	Total	Test	Total
RPR Reactive	6	Darkfield Reactive	0
VDRL Reactive	42	TP-PA Reactive	20

### New Cases of Syphilis

Stage	Number of Cases	
	Nov 2016	Nov 2015
Primary syphilis	0	0
Secondary syphilis	1	1
Early latent	4	0
Late latent	2	0
Total	7	1

Source: Wisconsin Division of Health

### Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
29	8 (R)	0	0	0

### Reference Cultures

Age	Sex	Source	Identification
35	F	Genital	<i>Neisseria gonorrhoeae</i>
33	M	Eye, L	<i>Neisseria gonorrhoeae</i>
54	M	Stool	<i>Salmonella</i> Enteritidis
30	F	Stool	<i>Shigella sonnei</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
71	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
80	F	Lung	16S rRNA	<i>Nocardia nova</i>
77	F	BAL	16S rRNA	<i>Lactobacillus reuteri</i>

### Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	5	1	20
Mumps virus	Real time RT-PCR	6	0	0
<i>Bordetella pertussis</i>	Real time PCR	5	0	0
Influenza virus	Real time RT-PCR	4	0	0
Herpes simplex virus	Real time PCR	55	7	13

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

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	527	58	11	44	8
Throat or NP	415	7	2	18	4
Rectal	146	15	10	10	7

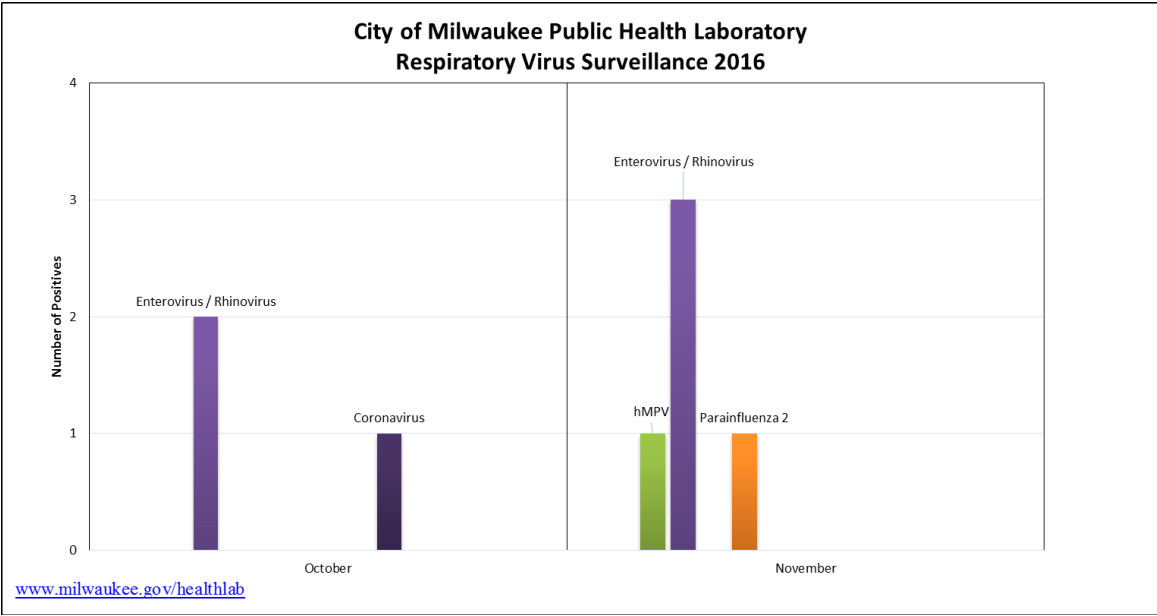
### Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

- Specimen tested for Cytomegalovirus (CMV) immediate early antigen: n = 3 (November 2016)
- Specimen tested for *Chlamydia* detection by culture: n = 1 (November 2016)
- Specimens tested for virus isolation: n = 6 (November 2016)

### Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Human metapneumovirus	1	9
Enterovirus/Rhinovirus	3	27
Human parainfluenza virus	1	9

**Specimens tested: n = 11 (Nov 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 (hMPV), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses. The RPP assay also detects three bacterial targets of respiratory interest: *Chlamydia pneumoniae*, *Mycoplasma pneumoniae*, *Legionella pneumophila***