



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

January 2017

Sanjib Bhattacharyya, PhD
Deputy Laboratory Director

Syphilis

Test	Total	Test	Total
RPR Reactive	5	Darkfield Reactive	0
VDRL Reactive	29	TP-PA Reactive	17

New Cases of Syphilis

Stage	Number of Cases	
	Jan 2017	Jan 2016
Primary syphilis	0	0
Secondary syphilis	0	0
Early latent	0	2
Late latent	0	1
Total	0	3

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
34	6 (R)	0	0	0

Reference Cultures

Age	Sex	Source	Identification
40	F	Genital	<i>Neisseria gonorrhoeae</i>
38	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
31	M	Stool	16 S rRNA	<i>Campylobacter jejuni</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	21	5	24
Mumps virus	Real time RT-PCR	4	1	25
<i>Bordetella pertussis</i>	Real time PCR	3	0	0
Influenza virus	Real time RT-PCR	18	10	56
Herpes simplex virus	Real time PCR	34	7	21

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

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	574	69	12	45	8
Throat or NP	412	13	3	25	6
Rectal	139	16	11	10	7

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

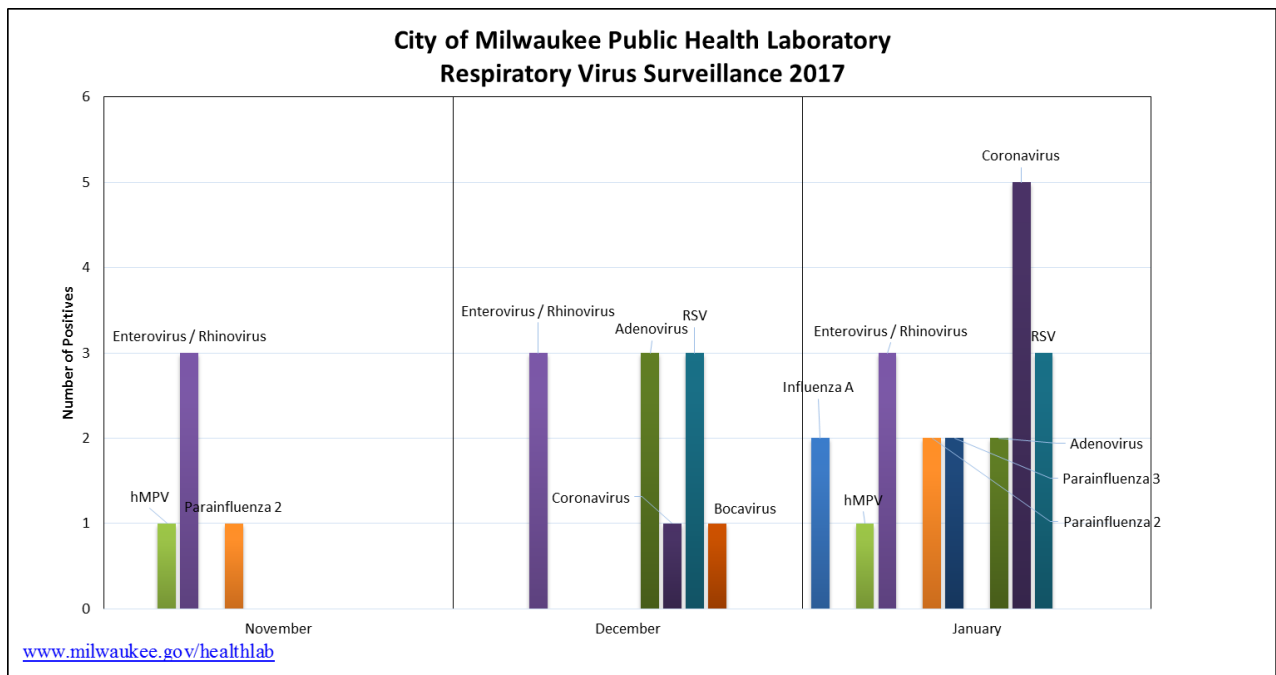
Agent	Virus Isolated in Culture				
	Throat	Genital	Lesion	Virus swab – Other*	Isolate (Total %)
Adenovirus	0	0	0	1	9
RSV	0	0	0	1	9
Influenza A	1	0	0	0	9

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
 Specimens tested for virus: n = 11 (January 2017); Specimen tested for *Chlamydia* detection in culture: n = 3 (January 2017); Specimen tested for CMV n = 9 (January 2017)

Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Human Adenovirus	2	9
Enterovirus/Rhinovirus	3	14
Respiratory Syncytial Virus	3	14
Human metapneumovirus	1	5
Human Coronavirus	5	24
Human parainfluenza 2	2	9
Human parainfluenza 3	2	9

Specimens tested: n = 21 (January 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 RPP assay also detects three bacterial targets of respiratory interest: *Chlamydia pneumoniae*, *Mycoplasma pneumoniae*, and *Legionella pneumophila*