

SUMMARY OF CONFIRMED INFECTIONS

January 2018

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Syphilis

Test	Total	Test	Total
RPR Reactive	5	Darkfield Reactive	0
VDRL Reactive	33	TP-PA Reactive	13

New Cases of Syphilis

Stage	Number of Cases	
	Jan 2018	Jan 2017
Primary syphilis	0	0
Secondary syphilis	1	0
Early latent	2	0
Late latent	0	0
Unknown duration	0	0
Total	3	0

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
44	0	0	3	0

* No CLSI interpretation available

Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	6	<i>Neisseria meningitidis</i>	Genital	1
<i>Mycoplasma hominis</i>	Genital	3	<i>Neisseria meningitidis</i>	Non-genital	4

Clinical and Reference Cultures

Age	Sex	Source	Identification
85	M	BAL	<i>Aureobasidium pullulans</i>
5w	M	Eye	<i>Chlamydia trachomatis</i>
50	F	Aspirate – left elbow	<i>Corynebacterium pseudodiphtheriticum</i>
16m	F	Stool	<i>Cryptosporidium</i> species
86	F	Urine	<i>Salmonella enterica subspecies IIIb (diarizonae)</i>
20	F	Genital	<i>Neisseria gonorrhoeae</i>
2m	M	Whole Blood	<i>Neisseria sicca</i>
53	F	Aspirate - thyroid	<i>Salmonella Saintpaul</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
5d	M	Blood	16S rDNA	<i>Neisseria sicca</i>
50	F	Left Elbow Aspirate	16S rDNA	<i>Corynebacterium pseudodiphtheriticum</i>
36	M	Stool	16S rDNA	<i>Bacillus amyloliquefaciens</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
<i>Bordetella pertussis</i>	Real time PCR	8	0	0
Herpes simplex virus	Real time PCR	39	7	17
Influenza virus	Real time RT-PCR	34	29	85
Varicella zoster	Real time PCR	2	1	50
Mumps virus	Real time RT-PCR	7	0	0
Measles virus	Real time RT-PCR	1	0	0
<i>Mycobacterium tuberculosis</i> complex	Real time PCR	3	3	100
<i>Blastomyces dermatitidis</i>	Nucleic acid hybridization	1	1	100
<i>Coccidioides immitis</i>	Nucleic acid hybridization	2	2	100

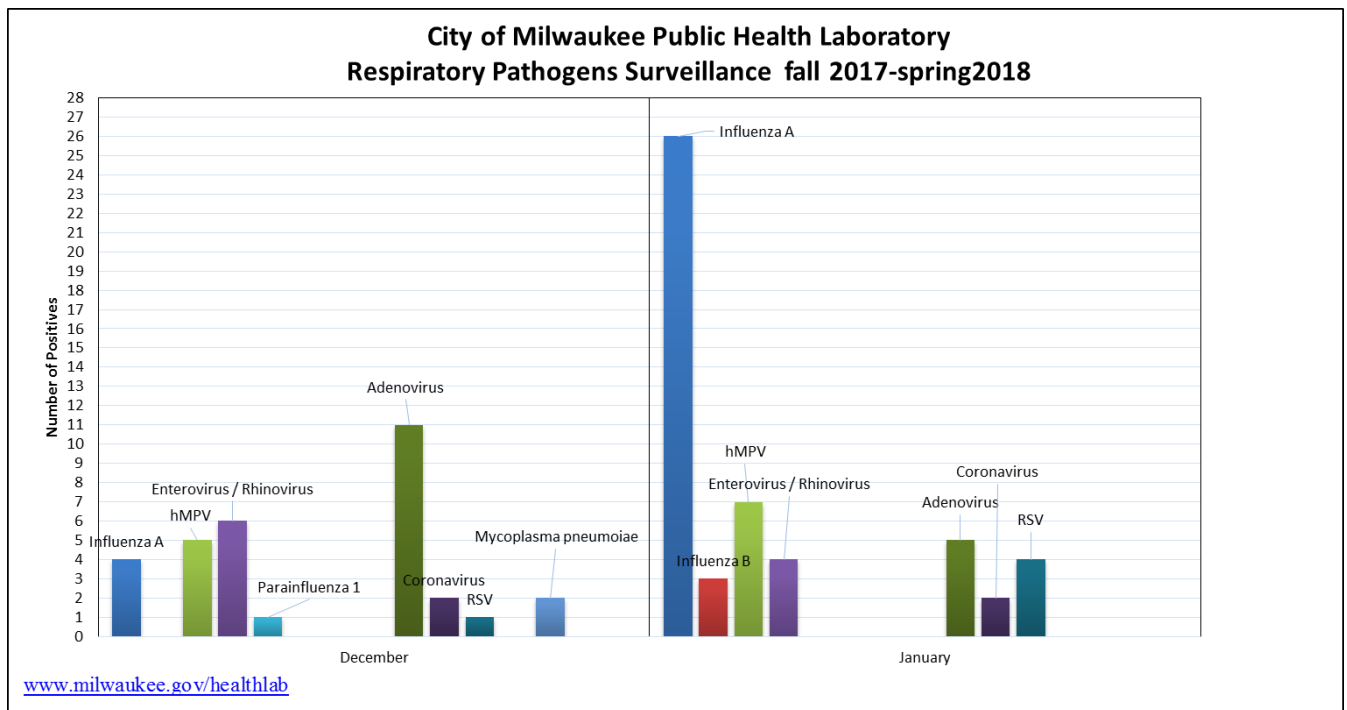
Chlamydia trachomatis (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	504	55	11	504	38	8	334	93	27
Throat	401	4	1	457	24	5			
Rectal	152	12	8	152	7	5			
Vaginal	0	0	0	0	0	0	75	18	24

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Influenza A	26	n/a
Influenza B	3	n/a
Human metapneumovirus	7	29
Enterovirus/Rhinovirus	4	17
Adenovirus	5	21
Coronavirus	2	8
Respiratory Syncytial virus	4	17

Specimens tested: n = 24 (January 2018 – 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*