

SUMMARY OF CONFIRMED INFECTIONS

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Syphilis

Test	Total	Test	Total
RPR Reactive	5	Darkfield Reactive	0
VDRL Reactive	24	TP-PA Reactive	17

New Cases of Syphilis

Stage	Number of Cases	
	March 2018	March 2017
Primary syphilis	0	0
Secondary syphilis	0	0
Early latent	1	2
Late latent	0	2
Unknown duration	0	0
Total	1	4

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased-Susceptible (DS) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
24	0	0	1 (DS)	NA

* No CLSI interpretation available

Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	5	<i>Neisseria meningitidis</i>	Genital	2
<i>Mycoplasma hominis</i>	Genital	1	<i>Neisseria meningitidis</i>	Non-genital	3

Clinical and Reference Cultures

Age	Sex	Source	Identification
29	F	Stool	<i>Bacillus cereus</i>
52	M	BAL fluid	<i>Candida albicans</i>
33	M	Stool	<i>Campylobacter jejuni</i>
63	M	Tracheal aspirate	<i>Corynebacterium pseudodiphtheriticum</i>
62	M	Bronchial wash	<i>Legionella pneumophila</i>
41	F	Genital	<i>Neisseria gonorrhoeae</i>
37	F	Urine	<i>Salmonella (Group G) Cubana</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
63	M	Tracheal Aspirate	16S rDNA	<i>Corynebacterium pseudodiphthericum</i>
29	F	Stool	16S rDNA	<i>Bacillus cereus</i>
62	M	Bronchial Wash	16S rDNA	<i>Legionella pneumophila</i>
33	M	Stool	16S rDNA	<i>Campylobacter jejuni</i>
53	M	Sputum	16S rDNA	<i>Corynebacterium pseudodiphthericum</i>
52	M	BAL	28S rRNA	<i>Candida albicans</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
<i>Bordetella pertussis</i>	Real time PCR	14	0	0
Herpes simplex virus	Real time PCR	50	12	24
Influenza virus	Real time RT-PCR	23	7	30
Norovirus	Real time RT-PCR	1	0	0
Mumps virus	Real time RT-PCR	3	0	0
<i>Mycobacterium tuberculosis</i> complex	Real time PCR	2	2	NA

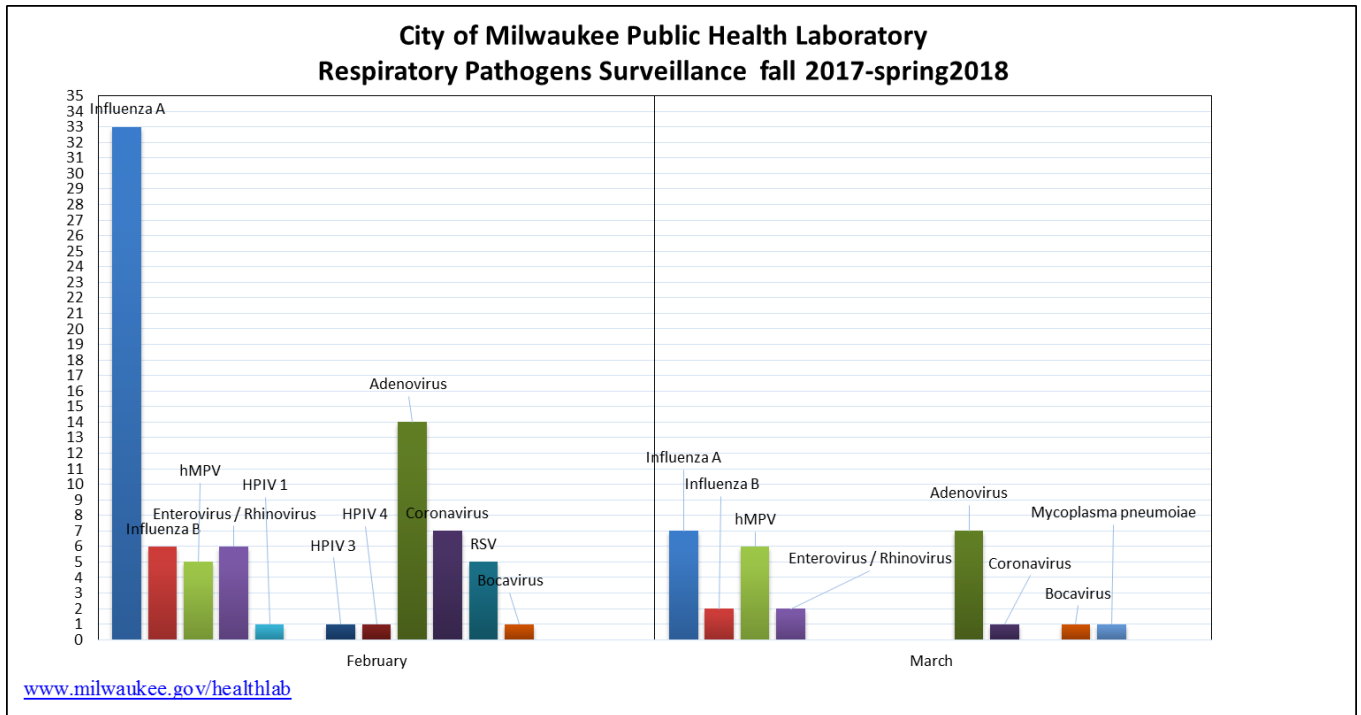
Chlamydia trachomatis (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	559	50	9	559	26	5	343	23	7
Throat	475	9	2	539	20	4			
Rectal	168	14	8	167	8	5			
Vaginal	0	0	0	0	0	0	70	11	16

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Influenza A	7	n/a
Influenza B	2	6
Human metapneumovirus	6	18
Enterovirus/Rhinovirus	2	6
Adenovirus	7	21
Coronavirus	1	3
<i>Mycoplasma pneumoniae</i>	1	3
Bocavirus	1	3

Specimens tested: n = 34 (March 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*