

SUMMARY OF CONFIRMED INFECTIONS

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Syphilis

Test	Total	Test	Total
RPR Reactive	4	Darkfield Reactive	0
VDRL Reactive	25	TP-PA Reactive	17

New Cases of Syphilis

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

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
37	0	0	1 (NS)	0

* No CLSI interpretation available

Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	3	<i>Neisseria meningitidis</i>	Genital	0
<i>Mycoplasma hominis</i>	Genital	2	<i>Neisseria meningitidis</i>	Non-genital	5

Clinical and Reference Cultures

Age	Sex	Source	Identification
37	M	Stool	<i>Bacillus amyloliquefaciens</i>
72	M	Lesion	<i>Corynebacterium simulans</i>
82	M	Sputum	<i>Nocardia otitidis caviarum</i>
61	F	BAL Fluid	<i>Nocardia veterana</i>
82	M	Whole Blood	<i>Salmonella</i> Enteritidis
82	M	Whole Blood	<i>Salmonella</i> Enteritidis
59	M	Stool	<i>Salmonella</i> Enteritidis
35	F	Urine	<i>Salmonella</i> Typhimurium var. O:5- (Copenhagen)

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
M11	M	Stool	16S rDNA	<i>Campylobacter jejuni</i>
82	M	Sputum	16S rDNA	<i>Nocardia otitidis caviarum</i>
62	F	BAL	16S rDNA	<i>Nocardia veterana</i>
72	M	Lesion	16S rDNA	<i>Corynebacterium simulans</i>
59	M	Stool	16S rDNA	<i>Salmonella</i> Enteritidis
82	M	Blood	16S rDNA	<i>Salmonella</i> Enteritidis
82	M	Blood	16S rDNA	<i>Salmonella</i> Enteritidis

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
<i>Bordetella pertussis</i>	Real time PCR	9	1	11
Herpes simplex virus	Real time PCR	34	6	17
Influenza virus	Real time RT-PCR	81	42	51
Mumps virus	Real time RT-PCR	8	1	12
<i>Mycobacterium tuberculosis</i> complex	Real time PCR	1	1	n/a

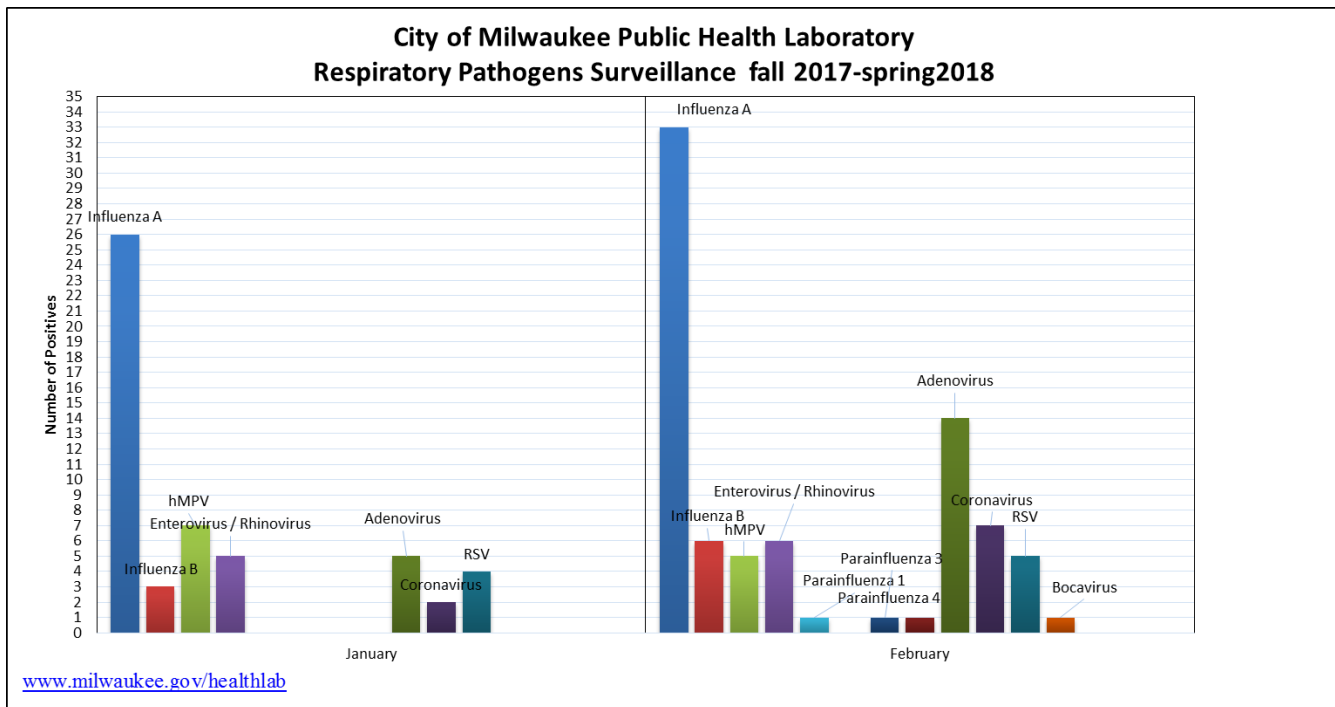
Chlamydia trachomatis (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	411	51	12	411	42	10	278	85	31
Throat	365	8	2	421	16	3			
Rectal	131	11	8	132	8	6			
Vaginal	n/a	n/a	n/a	n/a	n/a	n/a	58	14	24

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Influenza A	33	n/a
Influenza B	6	n/a
Human metapneumovirus	5	11
Enterovirus/Rhinovirus	6	13
Adenovirus	14	30
Coronavirus	7	15
Parainfluenza virus (I – IV)	3	7
Bocavirus	1	2
Respiratory Syncytial virus	5	11

Specimens tested: n = 46 (February 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*