

SUMMARY OF CONFIRMED INFECTIONS

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Syphilis

Test	Total	Test	Total
RPR Reactive	3	Darkfield Reactive	0
VDRL Reactive	15	TP-PA Reactive	10

New Cases of Syphilis

Stage	Number of Cases	
	Dec 2017	Dec 2016
Primary syphilis	0	0
Secondary syphilis	0	0
Early latent	0	0
Late latent	0	2
Unknown duration	0	0
Total	0	2

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Resistant (R) Antibiotics			
	Cefixime	Ceftriaxone	Azithromycin	Gentamicin*
41	0	0	4	NA

* No CLSI interpretation available

Reference Cultures

Age	Sex	Source	Identification
22	F	Genital	<i>Neisseria gonorrhoeae</i>
46	F	Genital	<i>Neisseria gonorrhoeae</i>
52	F	Urine	<i>Salmonella</i> Berta

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
55	F	BAL	28S rRNA	<i>Byssoschlamys nivea</i>
59	F	Bronchial wash	28S rRNA	<i>Penicillium rubrum</i>
85	M	BAL	28S rRNA	<i>Aureobasidium pullulans</i>
85	M	BAL	16S rDNA	<i>Corynebacterium pseudodiphtheriticum</i>
68	M	Stool	16S rDNA	<i>Escherichia coli</i>
35	M	Abdominal	16S rDNA	<i>Mycobacterium fortuitum</i>
71	M	Abdominal wound drainage	16S rDNA	<i>Mycobacterium fortuitum</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	22	8	36
<i>Bordetella pertussis</i>	Real time PCR	5	0	0
<i>Enterovirus</i>	Real time RT-PCR	1	0	0
Herpes simplex virus	Real time PCR	27	8	30
Influenza virus	Real time RT-PCR	24	4	16
Varicella zoster	Real time PCR	2	1	50
Mumps virus	Real time RT-PCR	6	0	0

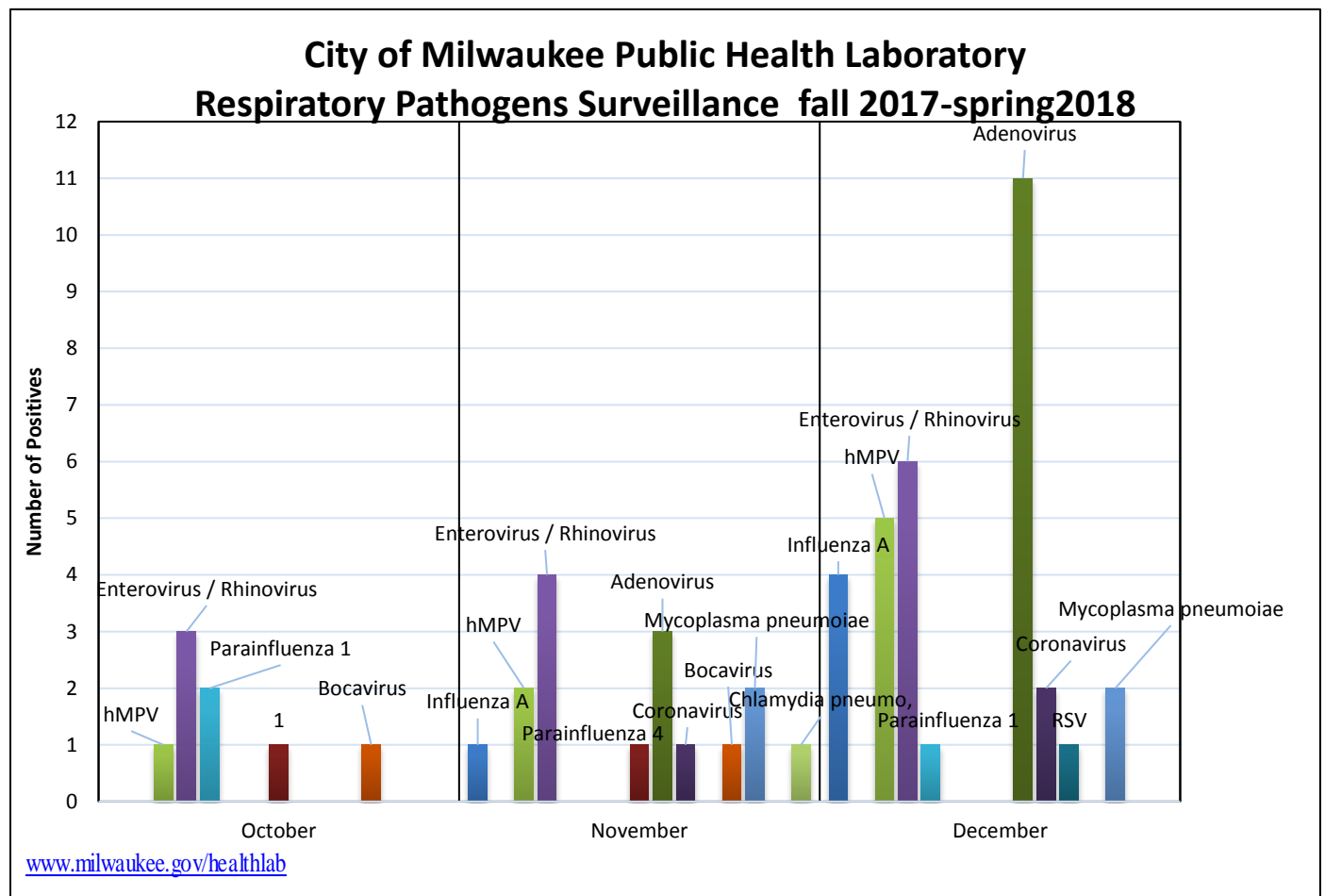
Chlamydia trachomatis (CT), *Neisseria gonorrhoeae* (GC), and *Trichomonas vaginalis* (Trich) Nucleic Acid Amplification

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	429	56	13	429	48	11	292	26	9
Throat	343	4	1	407	20	5			
Rectal	129	8	6	129	9	7			
Vaginal	0	0	0	0	0	0	71	19	26

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human metapneumovirus	5	19
Enterovirus/Rhinovirus	6	22
Bocavirus	1	4
Human parainfluenza virus 1	1	4
Human parainfluenza virus 4	0	0

Specimens tested: n = 27 (December 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 bacterial targets include *Chlamydia pneumoniae*, *Mycoplasma pneumoniae*, and *Legionella pneumophila*