



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

April 2017

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Syphilis

Test	Total	Test	Total
RPR Reactive	3	Darkfield Reactive	0
VDRL Reactive	36	TP-PA Reactive	22

New Cases of Syphilis

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

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
28	3 (R)	0	0	0

Reference Cultures

Age	Sex	Source	Identification
69	F	Sputum	<i>Corynebacterium pseudodiphtheriticum</i>
25	F	Eye, left	<i>Neisseria gonorrhoeae</i>
55	F	Vagina	<i>Neisseria gonorrhoeae</i>
80	M	Stool	<i>Salmonella enterica</i> subspecies I (enterica)
90	M	Blood	<i>Salmonella</i> I 4,5,12:i:-
9	M	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
53	F	Sputum	16S rRNA	<i>Corynebacterium pseudodiphtheriticum</i>
47	M	Stool	16S rRNA	<i>Campylobacterium jejuni</i>
66	M	Stool	16S rRNA	<i>Campylobacterium jejuni</i>
20	F	Urine	16S rRNA	<i>Corynebacterium aurimucosum</i>

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	12	1	8
Mumps virus	Real time RT-PCR	2	0	0
<i>Bordetella pertussis</i>	Real time PCR	9	0	0
Influenza virus	Real time RT-PCR	3	0	0
Herpes simplex virus	Real time PCR	59	23	39

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

Source	CT			GC			Trich		
	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)	Tested	Positives	Percent (%)
Urine	493	49	10	493	39	8	315	26	8
Throat	400	5	1	499	27	5			
Rectal	133	18	14	133	11	8			
Vaginal							64	8	13

Virus/*Chlamydia trachomatis* Isolation from Clinical Specimens

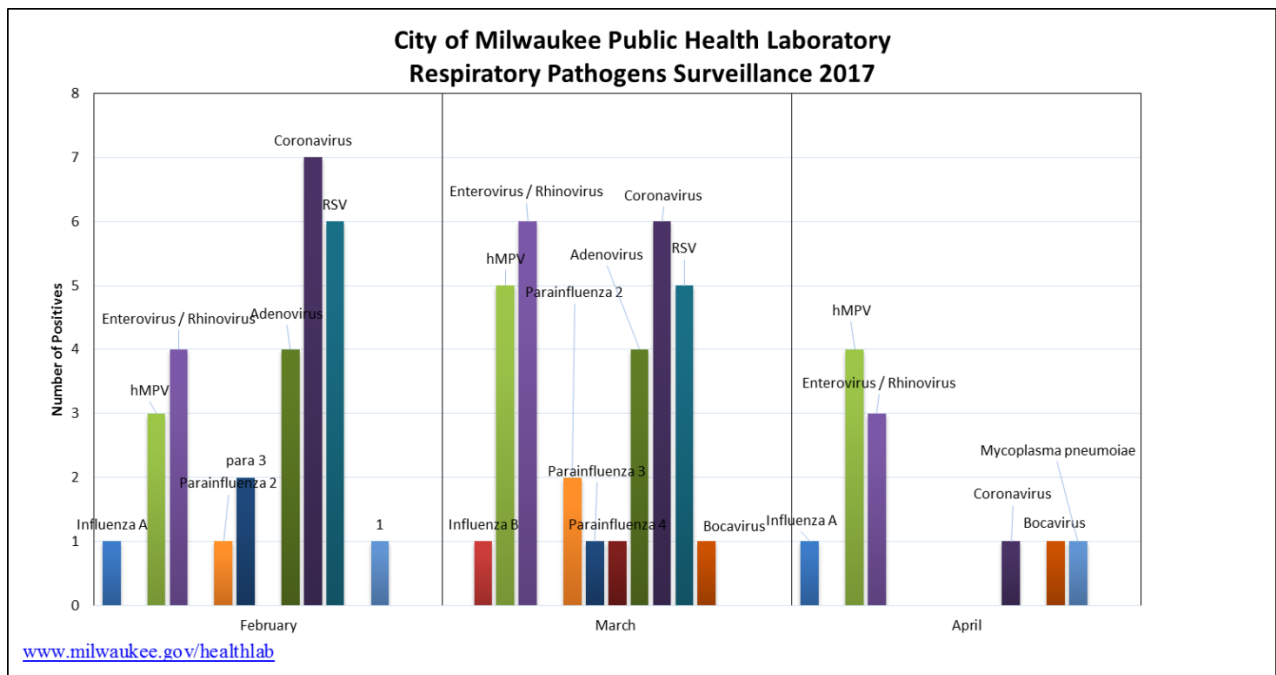
Agent	Virus Isolated in Culture		
	Throat	Virus swab – Other*	Isolates (Total %)
Human Rhinovirus	0	1	6
Human metapneumovirus	1	1	12
Influenza A	0	1	6

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
 Specimens tested for virus: n = 16 (April 2017); Specimen tested for *Chlamydia* detection in culture: n = 3 (March 2017)

Respiratory Pathogens Surveillance:

Respiratory Pathogen Panel Test Results		
Virus	Positives	Percent (%)
Human Influenza A	1	7
Enterovirus/Rhinovirus	3	18
Human metapneumovirus	4	29
Human Coronavirus	1	7
Human Bocavirus	1	7
<i>Mycoplasma pneumoniae</i>	1	7

Specimens tested: n = 14 (April 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*.