



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

April 2016

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Syphilis

Test	Total	Test	Total
RPR Reactive	6	Darkfield Reactive	0
VDRL Reactive	29	TP-PA Reactive	12

New Cases of Syphilis

Stage	Number of Cases	
	April 2016	April 2015
Primary syphilis	0	0
Secondary syphilis	0	1
Early latent	2	1
Late latent	0	0
Total	2	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
40	0	0	0	0

Reference Cultures

Age	Sex	Source	Identification
47	M	Stool	<i>Campylobacter jejuni</i>
90	F	Blood	<i>Moraxella osloensis</i>
74	F	Surface Wound	<i>Nocardia brasiliensis</i>
61	F	Stool	<i>Salmonella</i> Enteritidis

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
59	F	Nasal wash	16S rRNA	<i>Corynebacterium propinquum</i>
64	M	Stool	16S rRNA	<i>Campylobacter upsalensis/helveticus</i>
53	M	Stool	16S rRNA	<i>Campylobacter jejuni</i>
30	F	Synovial fluid	16S rRNA	<i>Nocardia carnea</i>
53	M	Blood	16S rRNA	<i>Streptococcus salivarium</i>

Virus/Chlamydia Isolation from Clinical Specimens

Agent	Virus Isolated in Culture				
	Throat	Genital	Lesion	Virus swab – Other*	Isolate (Total %)
Influenza virus	1	0	0	1	4
Human Coronavirus	0	0	0	1	2
Human Adenovirus	0	0	0	2	4
Human Rhinovirus	0	0	0	1	2
Herpes simplex Type 1	0	3	3	0	12
Herpes simplex Type 2	0	4	1	0	10
Cytomegalovirus	0	0	0	0	0
<i>Chlamydia trachmomatis</i>	0	1	0	0	33

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
Specimens tested for virus: n = 49 (April 2016); Specimen tested for Chlamydia culture: n = 3 (April 2016)

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	7	1	14
Influenza virus	Real time RT-PCR	9	1	11
Mumps virus	Real time RT-PCR	3	0	0
Measles virus	Real time RT-PCR	3	0	0
Rubella virus	Real time RT-PCR	3	0	0
Herpes simplex virus	Real time PCR	14	8	57

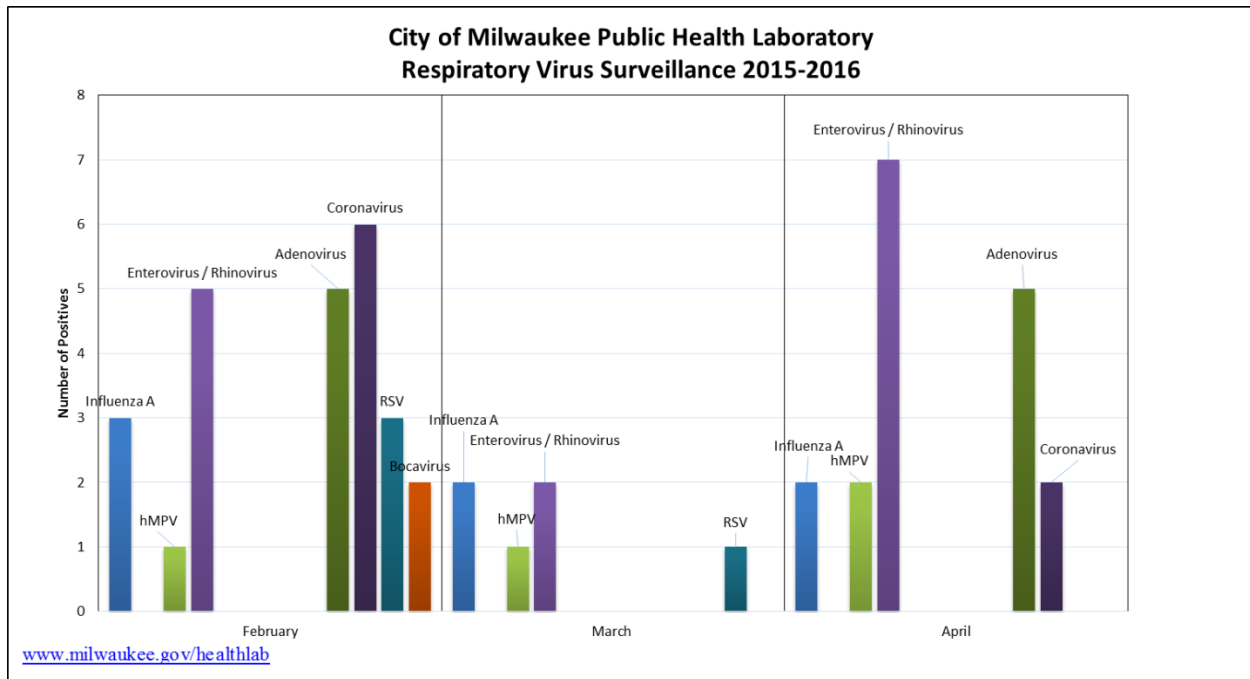
Chlamydia (CT) and Gonorrhea (GC) Nucleic Acid Amplification Testing

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	646	69	11	49	8
Throat or NP swabs	451	8	2	31	7
Rectal swabs	138	17	12	6	4

Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Influenza A	1	4
Enterovirus / Rhinovirus	7	31
Human Metapneumovirus	2	9
Human Adenovirus	5	23
Human Coronavirus	2	9

Specimens tested: n = 22 (April 2016 – 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.