



# City of Milwaukee Health Department Laboratory

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## SUMMARY OF CONFIRMED INFECTIONS

### May 2016

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#### Syphilis

Test	Total	Test	Total
RPR Reactive	5	Darkfield Reactive	0
VDRL Reactive	32	TP-PA Reactive	6

#### New Cases of Syphilis

Stage	Number of Cases	
	May 2016	May 2015
Primary syphilis	0	0
Secondary syphilis	0	1
Early latent	1	0
Late latent	1	2
Total	2	3

Source: Wisconsin Division of Health

#### Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
43	6 (R)	0	0	0

#### Reference Cultures

Age	Sex	Source	Identification
25	M	Blood	<i>Bacillus</i> spp. NOT <i>Bacillus anthracis</i>
47	F	Vagina	<i>Neisseria gonorrhoeae</i>
30	F	Synovial Fluid	<i>Nocardia carnea</i>
53	M	Blood	<i>Streptococcus anginosus</i> <i>Streptococcus constellatus</i> <i>Streptococcus infantis</i> <i>Streptococcus mitis</i> <i>Streptococcus salivarius</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
47	M	Stool	16S RNA	<i>Citrobacter</i> species

**Virus/Chlamydia Isolation from Clinical Specimens**

Agent	Virus Isolated in Culture				
	Throat	Genital	Lesion	Virus swab – Other*	Isolate (Total %)
Influenza virus	0	0	0	1	3
Human Rhinovirus	0	0	0	1	3
Herpes simplex 1	0	0	1	0	3
Herpes simplex 2	0	4	0	0	11

\* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources  
 Specimens tested for virus: n = 35 (May 2016); Specimen tested for Chlamydia culture: n = 6 (May 2016)

**Molecular Amplification**

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	6	1	17
Influenza virus	Real time RT-PCR	2	1	50
Mumps virus	Real time RT-PCR	10	3	30
Measles virus	Real time RT-PCR	1	0	0
Rubella virus	Real time RT-PCR	1	0	0
Herpes simplex virus	Real time PCR	2	1	50

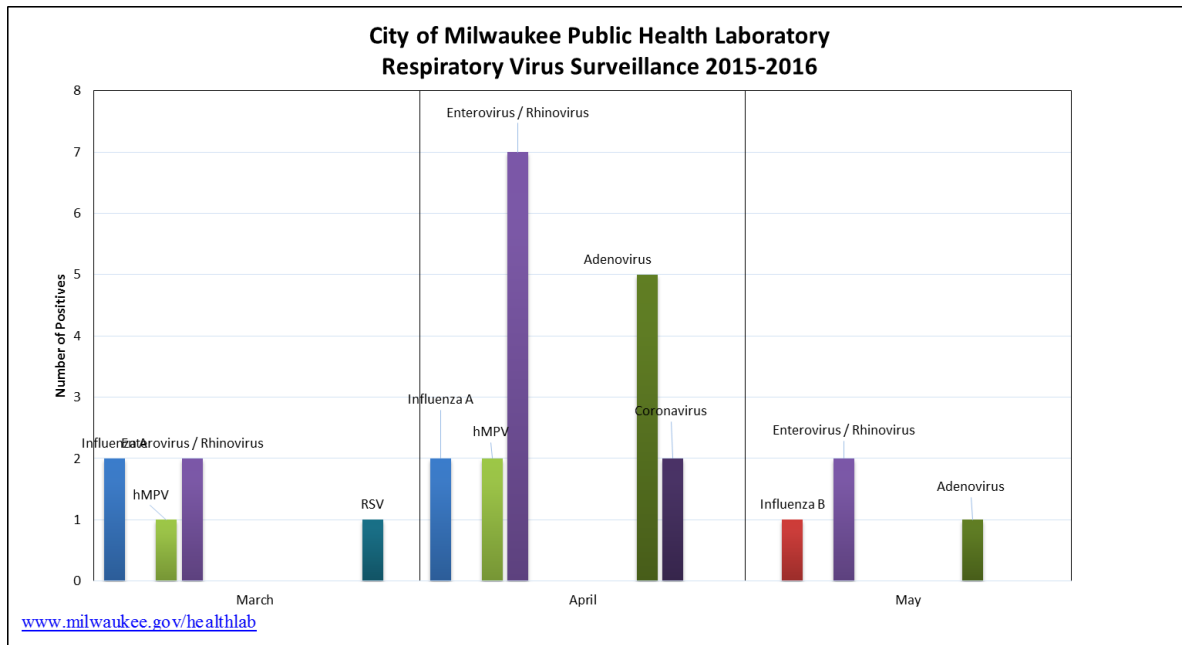
**Chlamydia (CT) and Gonorrhea (GC) Nucleic Acid Amplification Testing**

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	517	58	11	33	6
Throat or NP swabs	293	7	2	22	8
Rectal swabs	348	19	5	4	1

**Respiratory Virus Surveillance:**

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Influenza B	1	8
Enterovirus / Rhinovirus	2	15
Human Adenovirus	1	8

Specimens tested: n = 12 (May 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 (hMVP), Enterovirus/ Rhinovirus (ENT/HRV), Adenovirus, Parainfluenza (HPIV 1-4), Coronavirus and Boca viruses.**