

SUMMARY OF CONFIRMED INFECTIONS

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Syphilis

Test	Total	Test	Total
RPR Reactive	8	Darkfield Reactive	0
VDRL Reactive	21	TP-PA Reactive	11

New Cases of Syphilis

Stage	Number of Cases	
	February 2016	February 2015
Primary syphilis	0	0
Secondary syphilis	1	1
Early latent	1	2
Late latent	0	4
Total	2	7

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Non-Susceptible (NS) / Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
24	2(R)	0	0	0

Isolates other than *N. gonorrhoeae*

Organism	Site	Number Isolates
<i>Mycoplasma hominis</i>	Genital	3
<i>Ureaplasma urealyticum</i>	Genital	6

Reference Cultures

Age	Sex	Source	Identification
16	F	Genital	<i>Neisseria gonorrhoeae</i>
39	F	Genital	<i>Neisseria gonorrhoeae</i>
25	F	Blood	<i>Salmonella Typhi</i>
45	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
23	M	Blood	16S	<i>Campylobacter fetus</i>
4m	F	Spleen	16S	<i>Leuconostoc</i> species
4m	F	CSF	16S	<i>Lactococcus</i> species

Virus Isolations from Clinical Specimens

Age	Sex	Source	Symptoms	Agent
22	F	Throat	ILI	Human Rhinovirus
19	F	Throat	ILI	Human Rhinovirus
5m	F	Lung	Autopsy	Human Rhinovirus
7m	F	NP	Autopsy	Human Rhinovirus
5m	F	NP	Autopsy	Human Adenovirus
19	M	Throat	ILI	Human Adenovirus
20	F	Throat	ILI	Human Adenovirus
20	M	Not specified	ILI	Human Adenovirus
19	M	Throat	ILI	Influenza A virus
23	F	Throat	ILI	Influenza A virus
24	M	NP and Throat	ILI	Influenza A virus
25	M	NP and Throat	ILI	Influenza A virus
5m	F	NP	Autopsy	Human Coronavirus
20	F	Neck swab	Lesion	Varicella-Zoster virus

ILI = Influenza-like illness

Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes simplex Type 1	3
Herpes simplex Type 2	9

Molecular Amplification

Agent	Method	Tested	Positives	Percent (%)
Norovirus	Real time RT-PCR	11	0	0
Influenza virus	Real time RT-PCR	31	12	39
Measles	Real time RT-PCR	1	0	0
Mumps virus	Real time RT-PCR	5	0	0
Varicella-Zoster	Real time PCR	2	1	50

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

Source	Tested	CT		GC	
		Positives	Percent (%)	Positives	Percent (%)
Urine	545	47	8.6	29	5.3
Throat or NP swabs	383	4	1.0	28	7.3
Rectal swabs	138	12	8.6	8	5.8

Respiratory Virus Surveillance:

Respiratory Virus Panel Test Results		
Virus	Positives	Percent (%)
Influenza A	3	6
Enterovirus / Rhinovirus	5	10
Adenovirus	5	10
Coronavirus	6	12
Human Metapneumovirus	1	2
Respiratory Syncytial Virus	3	6
Boca virus	2	4

Samples tested: n = 49 (February, 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.

