



City of Milwaukee Health Department Laboratory

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SUMMARY OF CONFIRMED INFECTIONS

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June 2016

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Syphilis

| Test | Total | Test | Total |
|---------------|-------|--------------------|-------|
| RPR Reactive | 4 | Darkfield Reactive | 0 |
| VDRL Reactive | 30 | TP-PA Reactive | 17 |

New Cases of Syphilis

| Stage | Number of Cases | |
|--------------------|-----------------|-----------|
| | June 2016 | June 2015 |
| Primary syphilis | 0 | 0 |
| Secondary syphilis | 0 | 1 |
| Early latent | 0 | 1 |
| Late latent | 0 | 0 |
| Total | 0 | 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 |
| 53 | 4 (R) | 0 | 0 | 0 |

Reference Cultures

| Age | Sex | Source | Identification |
|-----|-----|--------|---|
| 56 | F | Blood | <i>Achromobacter xylosoxidans</i> |
| 22 | F | Urine | <i>Salmonella</i> Typhimurium var. Copenhagen |
| 61 | 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 |
|-----|-----|--------|-------------|-----------------------------------|
| 78 | M | Sputum | 16S RNA | <i>Corynebacterium propinquum</i> |
| 66 | M | Sputum | 16S RNA | <i>Campylobacter jejuni</i> |

Virus/Chlamydia Isolation from Clinical Specimens

| Agent | Virus Isolated in Culture | | | | |
|------------------|---------------------------|---------|--------|---------------------|-------------------|
| | Throat | Genital | Lesion | Virus swab – Other* | Isolate (Total %) |
| Adenovirus | 0 | 0 | 0 | 1 | 7 |
| Human Rhinovirus | 0 | 0 | 0 | 2 | 13 |

* Includes lung, NP/Throat combined, Cytomegalovirus(CMV) shell vials, and unspecified sources
Specimens tested for virus: n = 15 (June 2016); Specimen tested for Chlamydia culture: n = 4 (June 2016)

Molecular Amplification

| Agent | Method | Tested | Positives | Percent (%) |
|------------------------|------------------|--------|-----------|-------------|
| Norovirus | Real time RT-PCR | 9 | 1 | 11 |
| Influenza virus | Real time RT-PCR | 3 | 0 | 0 |
| Mumps virus | Real time RT-PCR | 9 | 4 | 44 |
| Herpes simplex virus | Real time PCR | 31 | 8 | 26 |
| <i>Giardia lamblia</i> | Luminex GPP | 1 | 1 | 100 |

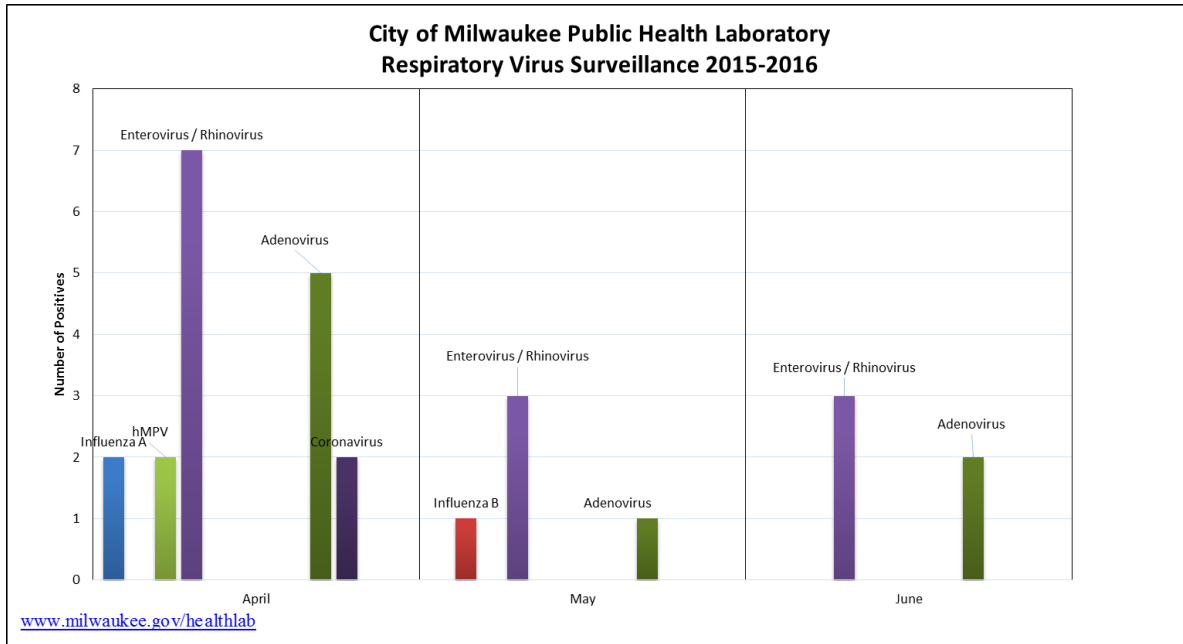
Chlamydia (CT) and Gonorrhea (GC) Nucleic Acid Amplification Testing

| Source | Tested | CT | | GC | |
|--------------------|--------|-----------|-------------|-----------|-------------|
| | | Positives | Percent (%) | Positives | Percent (%) |
| Urine | 567 | 77 | 13 | 44 | 8 |
| Throat or NP swabs | 319 | 10 | 32 | 18 | 6 |
| Rectal swabs | 114 | 14 | 12 | 7 | 6 |

Respiratory Virus Surveillance:

| Respiratory Virus Panel Test Results | | |
|--------------------------------------|-----------|-------------|
| Virus | Positives | Percent (%) |
| Adenovirus | 2 | 14 |
| Rhinovirus / Enterovirus | 3 | 21 |

Specimens tested: n = 14 (June 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.