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SUMMARY OF CONFIRMED INFECTIONS

March 2016

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Syphilis

| Test | Total | Test | Total |
|---------------|-------|--------------------|-------|
| RPR Reactive | 7 | Darkfield Reactive | 0 |
| VDRL Reactive | 40 | TP-PA Reactive | 21 |

New Cases of Syphilis

| Stage | Number of Cases | |
|--------------------|-----------------|------------|
| | March 2016 | March 2015 |
| Primary syphilis | 0 | 0 |
| Secondary syphilis | 3 | 4 |
| Early latent | 2 | 2 |
| Late latent | 0 | 1 |
| Total | 5 | 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 |
| 47 | 0 | 0 | 0 | 0 |

Isolates other than *N. gonorrhoeae*

| Organism | Site | Number Isolates |
|-------------------------------|---------|-----------------|
| <i>Mycoplasma hominis</i> | Genital | 2 |
| <i>Ureaplasma urealyticum</i> | Genital | 7 |

Reference Cultures

| Age | Sex | Source | Identification |
|-----|-----|---------------|-------------------------------|
| 19 | F | Genital | <i>Neisseria gonorrhoeae</i> |
| 33 | F | Genital | <i>Neisseria gonorrhoeae</i> |
| 34 | F | Genital | <i>Neisseria gonorrhoeae</i> |
| 74 | F | Surface Wound | <i>Pseudomonas aeruginosa</i> |
| 34 | F | Stool | <i>Shigella sonnei</i> |
| 6 | 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 |
|-----|-----|--------|-------------|------------------------------|
| 44 | M | Blood | 16S | <i>Moraxella osloensis</i> |
| 27 | M | Stool | 16S | <i>Campylobacter jejuni</i> |
| 47 | M | Stool | 16S | <i>Campylobacter jejuni</i> |
| 74 | F | Wound | 16S | <i>Nocardia brasiliensis</i> |
| 62 | M | Sputum | 16S | <i>Neisseria cinerea</i> |

Virus Isolations from Clinical Specimens

| Agent | Virus isolated in culture | | | | | |
|---------------------------|---------------------------|----|---------|--------|---------------------|-------------------|
| | Throat | NP | Genital | Lesion | Virus swab – Other* | Isolate (total %) |
| Influenza virus | 3 | 2 | 0 | 0 | 3 | 16 |
| Respiratory Syncial Virus | 0 | 2 | 0 | 0 | 0 | 4 |
| Human Adenovirus | 1 | 0 | 0 | 0 | 0 | 2 |
| Human Rhinovirus | 1 | 0 | 0 | 0 | 0 | 2 |
| Herpes simplex Type 1 | 1 | 0 | 0 | 1 | 0 | 4 |
| Herpes simplex Type 2 | 2 | 0 | 3 | 0 | 0 | 10 |
| Cytomegalovirus | 0 | 1 | 0 | 0 | 0 | 2 |

* Includes lung, NP/Throat combined, and unspecified sources

Specimens tested: n = 49 (March 2016)

Molecular Amplification

| Agent | Method | Tested | Positives | Percent (%) |
|----------------------|------------------|--------|-----------|-------------|
| Norovirus | Real time RT-PCR | 17 | 4 | 23 |
| Influenza virus | Real time RT-PCR | 24 | 17 | 70 |
| Mumps virus | Real time RT-PCR | 4 | 0 | 0 |
| Varicella-Zoster | Real time PCR | 2 | 2 | 100 |
| Herpes simplex virus | Real time PCR | 21 | 11 | 52 |

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

| Source | Tested | CT | | GC | |
|--------------------|--------|-----------|-------------|-----------|-------------|
| | | Positives | Percent (%) | Positives | Percent (%) |
| Urine | 631 | 53 | 8 | 52 | 8 |
| Throat or NP swabs | 411 | 6 | 2 | 23 | 6 |
| Rectal swabs | 138 | 15 | 11 | 6 | 4 |

Respiratory Virus Surveillance:

| Respiratory Virus Panel Test Results | | |
|--------------------------------------|-----------|-------------|
| Virus | Positives | Percent (%) |
| Influenza A | 2 | 15 |
| Enterovirus / Rhinovirus | 2 | 15 |
| Human Metapneumovirus | 1 | 7 |
| Respiratory Syncytial Virus | 1 | 7 |

Specimens tested: n = 13 (March 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.

