A Snapshot of Infectious Disease Testing
We perform infectious disease testing for pathogens of public health significance.
We stand as the first line of defense to protect the community against infectious diseases.
Not just clinical testing...

- Regulatory
- Animal
- Autopsy
- Human
- Surveillance
- Necropsy
- Outbreak
Tuberculosis

From the case files...
In 2011, we identified two morphologically distinct, multi-drug resistant strains of *Mycobacterium tuberculosis* from the trunk washings of an elephant at our zoo.
From the case files...

In 2010, we detected the rabies virus in brain tissue from a horse and a bobcat.
From the case files...

Yersinia pestis, the bacterium that causes plague, was identified from autopsy samples from a boy that was treated for strep throat. His sibling and grandfather, who were also sick, was successfully treated for plague.

From the case files...

June 2014 – necropsy material from a mountain lion in an animal sanctuary in Santa Fe county tested positive for plague... 2 weeks later a coati from the same sanctuary tested positive.
Fungi
- Blastomycetes
- Coccidiodes
- Dermatophytes
- Histoplasma
Vaccine preventable diseases

Cells damaged by measles virus

Measles

S. pneumoniae

Mumps

N. meningitidis
Reference and Specialized Testing

- Notifiable conditions
- Serotyping
- Misidentifications
- Confirmatory testing
- ...and more
What’s in your food?

From the case files...

2006 - *E.coli* O157:H7 in spinach.

2007 and 2012 - *Salmonella* in peanut butter.

2008 - *Salmonella* in tomato and jalapeño.

2011 - *Listeria monocytogenes* from cantaloupe.

2012 - *Clostridium perfringens* from two separate outbreaks; one involving a barbeque lunch at Elk’s Lodge and the other from a local restaurant.
Listeria monocytogenes detected in raw pet food results in an FDA recall
What’s in your dairy?

We’ve identified:
*Listeria monocytogenes* in some Mexican soft cheese.
*E. coli O157:H7* in cheese from Costco

...both associated with outbreaks
What’s in your water?

We’ve isolated:

Legionella from a hotel spa

Norovirus from a prison shower stall

*Pseudomonas aeruginosa* from sinks, drains, faucet aerators from a Neonatal Intensive Care Unit
Influenza

H3N2v “swine” Flu

H5N1 Avian Flu

H1N1

Cells damaged by influenza virus
Globe-trotting pathogens

Ebola: through pets
Chikungunya: through travel
Hepatitis A: through food
West Nile virus: through vectors
Dengue: through vectors
Agents of Bioterrorism

- Anthrax
- Brucella
- “white powders”
- Tularemia
With mixed technologies

- Culture
- PCR
- Serology
- Biochemicals
- Chromatography
- Mass Spec
- Sequencing
Want more information? Please visit our Directory of Services at http://nmhealth.org/publication/view/general/1496/