

Infectious Disease Diagnostics in the Geisinger Health System

A Publication of Geisinger Medical Laboratories
2017 Vol. (3):3. Microbiology. March 6, 2017

MUMPS

With Mumps outbreaks in Pennsylvania, remember, DO NOT order the IgM test alone. Please order IgM AND reverse transcriptase PCR (RT-PCR).

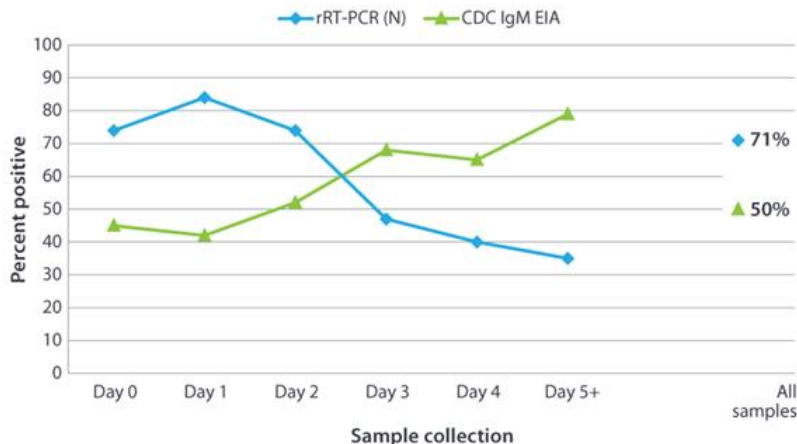
For primary case presentation or suspicion of mumps virus infection (parotitis):

- Collect samples ASAP (≤ 3 d post onset)
- Collect Buccal Swab for RT-PCR, the best laboratory confirmation option, particularly among suspected mumps patients with a history of vaccination (ORDER a Misc. Test in EPIC and write in Mumps, RT-PCR)
- Collect acute-phase serum for IgM testing (MUMPS IGM AB, serum from 6 mL red-top (plain, non-serum separator) tube)

IF real-time PCR is negative, or molecular method was not performed:

- Consider collecting another serum for IgM 5-10 days after symptom onset (in some cases, the IgM response is not detectable until 5 days after symptom onset)

In an outbreak setting, the proportion of samples with positive results by RT-PCR decreased as the interval between onset and specimen collection increased. The trend was reversed for IgM detection with increasing time to sample collection the number of seropositive samples increased. (Rota et al, 2013).



SUMMARY

Request IgM Serology AND RT-PCR for mumps diagnosis (outbreak in PA)

Parainfluenza is the top respiratory pathogen circulating within GHS

Check out 10X Essentials on YAMMER
https://www.yammer.com/geisinger.edu/#/threads/inGroup?type=in_group&feedId=8104830&view=all

If you have any questions, please contact the Doctoral Directors, Donna Wolk, Ph.D., D(ABMM) at 570-271-7467 or Raquel Martinez Ph.D., D(ABMM) at 570-214-6587.



WHAT'S CIRCULATING? (Refer to Figure 1)

Parainfluenza is the top respiratory pathogen as of 3/1/2017
 Influenza A, B, and RSV are decreasing rapidly

Figure 1: Viruses in GML Regions
 52% positive of 5,875 Samples, in Feb and Mar

