



Impact Brief

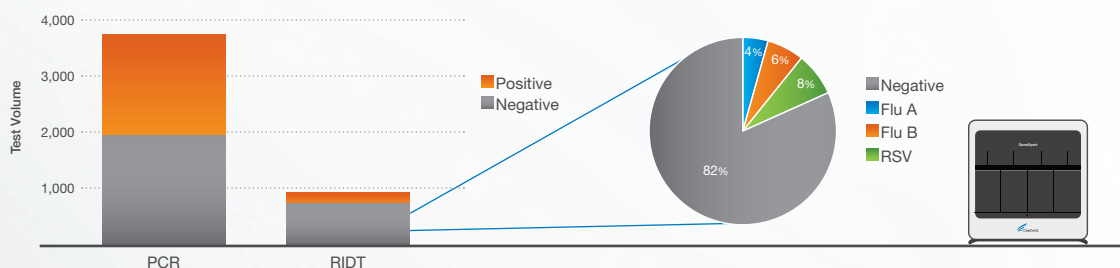
Create a Ripple

Millard Henry Clinic (MHC) improves treatment accuracy through the use of Xpert® **Xpress** Flu/RSV and antimicrobial stewardship while maintaining efficient patient flow during a very busy flu season.

- Decreased empiric treatment and avoided managing Tamiflu side effects on empirically treated patients.
- Improved provider confidence in result.
- Educated positive patients regarding persistent coughs lasting two weeks, avoiding return visits after a week.
- Instructed RSV positive patients to avoid close contact with young infants and elderly.
- Met and exceeded lab testing financial goals by switching to a more accurate respiratory test.

Impact

> MHC Flu Season 2017-2018 Results of Negative Confirmation



- 10% RIDT results: False Negative for Flu
- 8% Positive for RSV



The benefits far outweigh the few extra minutes it takes to run the Xpert **Xpress** Flu/RSV. Now you feel good about your decision on how you treat and manage your patient.”

— Rick Harrison, MD.

● ● ● Profile

Millard-Henry Clinic is part of Saint Mary's Regional Health System. They offer the region's most comprehensive range of primary care physicians and specialists in one location, including family practitioners, internists, obstetricians, gynecologists, pediatricians and surgeons in addition to specialists in nutrition and dietetics. Saint Mary's Regional Health System is part of the RCCH Healthcare. RCCH partners with communities to build strong local healthcare systems that are known for high quality patient care and excellent service.

Summary

Historically, Millard Henry Clinic performed a rapid antigen test with a reader for Influenza (flu) detection (RIDT). In 2016, the laboratory decided to reflex all negative flu results to Xpert® Flu/RSV XC (approximately 60 mins) in accordance with the RIDT manufacturers recommendation. During the 2016-2017 flu season, they noted several false negative results from the RIDT. The physicians lost confidence in the rapid test results and would empirically treat patients with Tamiflu until the Xpert Flu/RSV results were available. Based on the number of false negative results from the RIDT, the longer turnaround time needed to perform multiple tests, and the FDA approval of Xpert® **Xpress** Flu/RSV (approximately 30 mins), the clinic laboratory decided to move to Xpert **Xpress** Flu/RSV as their first line test for the 2017-2018 flu season. MHC permits use of the RIDT at night clinic and on Saturday urgent care clinic if providers request it; however several providers choose to only order the Xpert **Xpress** Flu/RSV due to the better accuracy. MHC has two satellite clinics. The satellite clinics continued running an RIDT last season due to testing options and budget. MHC main lab confirmed negative RIDT results using Xpert **Xpress** Flu/RSV. They noted a false negative rate of 10% with the initial results from the RIDT. They also found 8% of the time the patients were positive for RSV which would change patient management.

For *In Vitro* Diagnostic Use.

Data provided by Millard Henry Clinic.

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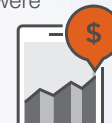
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Challenge



- False negative results with the current RIDT with reader.
- Physicians lost confidence in the RIDT results.
- Physicians had to make decisions on whether to treat or not to treat when the results were negative but the patients were symptomatic.
- Physicians had to manage Tamiflu side effects on patients they were choosing to empirically treat.
- Had to determine how to avoid long delays in clinic patient flow during a busy Flu/RSV season.
- Due to reflex testing protocol, regular billing credits were needed to avoid billing the patient both test results.



Vision

Implementation of Xpert **Xpress** Flu/RSV test utilizing the GeneXpert® System

- Better quality testing to regain physician confidence in the laboratory Flu/RSV results
- Deliver final Flu/RSV results faster and more efficiently rather than waiting on multiple results.
- Avoid having to issue billing credits due to the performance of multiple tests.
- Simple, three step procedure offers ease of use and saves hands-on steps for laboratory personnel



Implementation

Using the GeneXpert System, Xpert **Xpress** Flu/RSV was implemented as the first line Flu/RSV test at Millard Henry Clinic providing more accurate results and optimized treatment. Since the time to initial result was a few minutes longer, some physicians allowed the nurses to collect the sample upon arrival based on defined criteria and symptoms. Other physicians gave the patient an option to wait for the results in the waiting room or to be called with the results. To improve patient satisfaction, the physicians explained that the test they were waiting on was more accurate allowing the patient to avoid having to fill an expensive prescription for Tamiflu when it may not actually be needed.

Additional indirect benefits were noted. RSV positive results were seen more often than the physicians expected. This was critical information for patients with infants and elderly in the home or at work. The physicians were also able to educate RSV positive patients regarding the length of time symptoms of RSV can persist. The physicians felt this helped the patient avoid a return visit to the clinic within two weeks for a persistent cough.