

NucleoLIS Customer Case Study – Aurora Diagnostics

Who

Aurora Diagnostics is a leading independent pathology services and cancer diagnostics company, offering integrated diagnostic and personalized medicine consultations and information technology solutions to physicians and hospital systems. Our pathologists provide diagnostic opinions and work collaboratively with referring physicians to determine appropriate patient treatment options. We also provide services to pharmaceutical companies and other research entities to support their efforts to develop new cancer treatments.

Aurora Diagnostics operates 29 community-based pathology practices with over 200 board-certified pathologists. We provide services to a broad array of physician specialists, including dermatologists, obstetricians and gynecologists, family practitioners, gastroenterologists, urologists, general surgeons and oncologists.

Challenge

We were looking for a flexible system that can handle the specificity of the molecular workflow and reporting functionality. We wanted the ability to create and use multiple or flexible table formats that are easy to construct and able to scale to the needs of molecular tests being performed. We are also looking to support the extraction and hybridization aspects of the molecular workflow.

Why Aurora chose Psyche Systems and NucleoLIS

The primary reason is because we are using other Psyche Systems' products. We know, trust, and are comfortable with Psyche and the fact that they know how to integrate this functionality. We did not want to spend time learning new systems, infrastructures and formats or educating another vendor on how to do this. We needed the ability to leverage the reports and templates for reports from other LIS' in our molecular LIS and Psyche's NucleoLIS can do this – such as the bone marrow summary report which shows three separate visits combined in one location. The physician can see the past two visits along with the current one to get a better patient view for diagnosis. We are doing a lot of FISH and NucleoLIS handles FISH excellently. Our goal is to bring over all of our FISH testing from Anatomic Pathology into NucleoLIS. Another major, deciding, factor was the flexibility of the application. We also needed to be able to use it as a standalone lab system that can integrate with all of our other labs.

The implementation process

The implementation went really well – the teams from both Aurora and Psyche worked well together. The quality of our molecular images now look like they were printed directly in the application. The report generation was totally different from Anatomic Pathology so there was a learning curve to move to the molecular report creation which is far more complex.

Outcome

All of our molecular testing can be done in one lab and sent back to seven labs. I am looking forward to integrating a portal to all of our labs that aren't currently talking to (interfaced with) NucleoLIS. We currently have seven labs that create molecular test orders that are then routed to NucleoLIS. The testing is performed and reported out of that one lab, then the reports and results are routed back to the original ordering lab. Our next step is to be able to do this type of routing from all of our labs, including our hospital labs. NucleoLIS is also completing and pushing the report directly out to the oncologist who is in the best position to read it and provide the treatment recommendations for the patient. Our NGS report looks awesome. It is very complicated and complex based on a combination being able to provide the genes expressed, clinical trials that are available for the patient to participate in along with recommended drugs the patient can use for treatment. It was a very smart design.