Conquering the bottleneck
How one hospital is ramping up capacity for flu season

Agility and flexibility are the name of the game for Texas Children’s Hospital. Recognized as one of America’s best children’s hospitals, this not-for-profit organization has a mission to create a healthier future for children and women by leading in patient care, education and research.

By implementing the MagNA Pure 96 system for nucleic acid purification, Texas Children’s Hospital is now able to more effectively manage their workload and significantly reduce time-to-result for all respiratory viral testing. The MagNA Pure 96 system also provides more flexibility, particularly at the peak of respiratory virus season, enabling multiple extraction batches in a single 8-hour shift per day.

Previous technology limited daily throughput to 96 samples in a shift, requiring approximately 7 hours for nucleic acid isolation. However, since transitioning to the MagNA Pure 96 system, the lab has the capacity to process >500 samples per 8-hour day, with each 96-sample batch requiring about 90 minutes.

“The MagNA Pure 96 helps us to maximize staff productivity, decrease our turnaround times, and accommodate fluctuations in testing demands at the peak of respiratory virus season without making significant changes to staffing and workflows. A recent study we performed also showed that the MagNA Pure 96 performs better for RNA isolation of influenza A viruses and DNA isolation of adenoviruses. Overall, we are very happy with the MP96 system and with our Roche partnership.”

C. Renee Webb, MT(ASCP)
Manager, Molecular Laboratories
Texas Children’s Hospital

For more information, visit usdiagnostics.roche.com or contact your Roche representative.