

**Docket #:** S20-225

# Automated Point-of-Care Nucleic Acid Amplification Test

Stanford researchers have developed an automated point-of-care nucleic acid amplification test for use in clinics, pharmacies or even at home. While these tests are standard for detection of diseases like influenza and Covid-19, they currently require lab facilities and specialized technicians. This new system can perform quantitative multiplex nucleic acid detection without specialized training. This is due to the digitally controlled fluidic system that automatically washes and injects reagents, combined with the on-chip temperature management system for polymerase chain reactions (PCR) and portable magnetoresistive sensor platform.

## Stage of Research

- Prototype

## Applications

- **Point-of-care diagnostics: clinics, pharmacies, home**
- Customizable to target disease
- Research tool

## Advantages

- **Increased sensitivity over existing point-of-care diagnostics**
- Multiplex detections without specialized training

## Patents

- Published Application: [20230201832](#)

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