

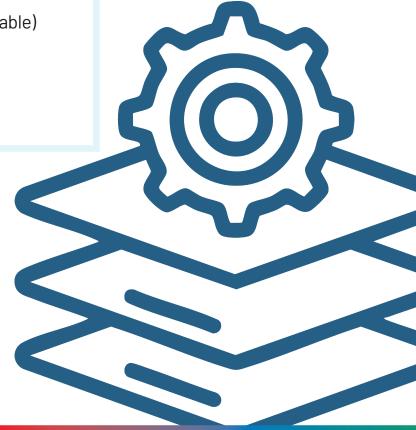


Scan and Explore

Strand's qPCR Reporting Software (PQRS)

Our in-house customizable infectious-disease reporting end-to-end solution processes qPCR input and generates a comprehensive and actionable report with detailed pathogen profiles, antibiotic susceptibility status, and drug recommendations.

- 2-Minute Report Turnaround Time
- Highly Customizable Features
- Seamless LIMS Integration
- Broad test range (expandable)
 - 91 Pathogens
 - 42 AMR Genes
 - 513 Pathogen-Drug recommendations

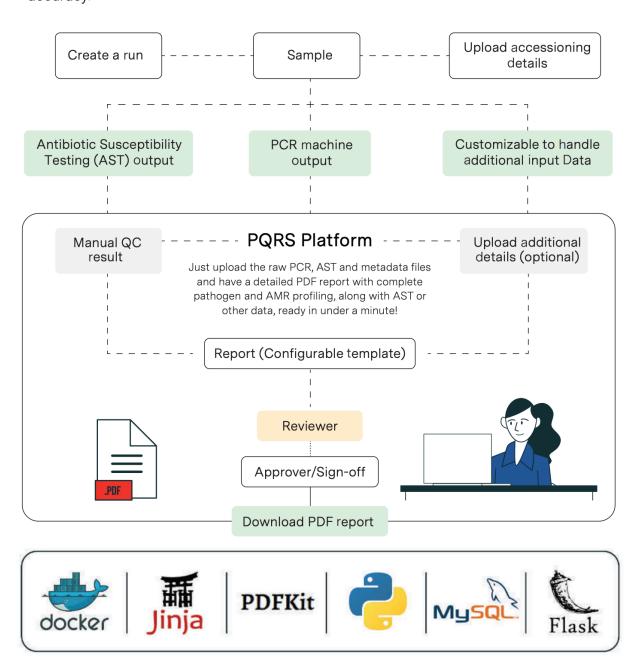




The PORS Workflow

- PQRS software offers an end-to-end solution for qPCR reporting.
- The process is initiated by inputting qPCR result files, and the PQRS platform can be customized to handle other input data types as well.
- Additionally, culture test output files can also be entered into the workflow, thus enabling combined reporting of pathogens, AMR genes and antibiotic susceptibility testing (AST).
- A manual QC step is performed to ensure accuracy.

- Following this, a comprehensive report based on a configurable template is compiled and generated.
- A brief review by a senior scientist follows and the report is made available to the end user as a PDF download.
- The entire workflow from file input through QC to report generation — is completed in under 2 minutes.
- PQRS can be integrated into existing LIMS setups, enabling seamless report generation and retrieval.





Tailored qPCR and AST Report with Medication Options

Our customizable report offers the following benefits

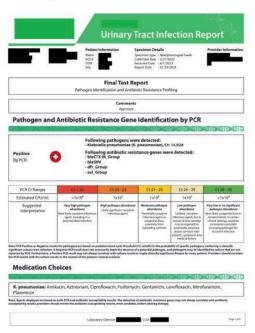
- Clinician-approved format: We incorporate client-specific requirements into the qPCR report through frequent interactions with the clinician team.
- 2. Combined qPCR and AST reporting:
 The end report captures the qPCRidentified pathogens, antibiotic resistance
 genes, as well as antibiotic susceptibility
 test results, offering insights on infectious
 pathogens as well as AST status.
- 3. Broad array of medication options: Our platform currently supports over 500 drug-pathogen recommendations across 91 pathogens and 42 resistance genes. Clinicians can choose from multiple antibiotic recommendations based on pathogen profiles to make patient-tailored decisions.

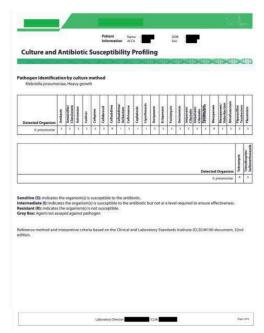
- 4. Dosage guidance: PQRS can be configured to include medication dosage guidance based on pathogen profiles and antibiotic susceptibility.
- Additional customization: Reports can be customized to include drug tiers, and administration routes based on curated treatment protocols and clinician preferences.

Reports can also have **embedded audit logs** to track report creation times and approval status, and optionally include **sign-offs by subject matter experts**.

Minimal and basic customizations, such as branding, logo, and template modifications, can be completed in ~2 weeks. Additional features, depending on their complexity, can be implemented in 1-3 months.

The high-level summary in the first page is followed by a detailed account of identified pathogen profiles.





Reference Databases and Compliances

- The PQRS platform is equipped with an infectious-disease knowledge base curated by referencing established and licensed publicly available data sources.
- The knowledge base currently caters to UTI panels, but is evolving to include other panels, such as the respiratory pathogens panels (RPP), women's health, and wound

healing panels. Thus, it can be adapted and augmented to align with the clients panels and evolving treatment protocols to ensure accurate and relevant medical suggestions.

 Our privacy and security protocols also ensure that patient data remains confidential as per HIPAA guidelines, and the data received through our API is HL7 compliant.



Sanford Guide

Guidelines for the Treatment of

Infectious Diseases



Centers for Disease Control and Prevention

Health Topics and Data



Stanford Stanford Medicine

Curated KB combining - - information from multiple data sources



ABX Guide:

JOHNS HOPKINS Diagnosis and Treatment of

Infectious Diseases



Infectious Diseases IDSA Society of America

Practice Guideline



Clinical Pathway Guideline

Medscape Medscape eMedicine Infectious Diseases

Recent Stories

We worked with a US-based CLIA/CAP-certified diagnostic laboratory offering infectious-disease testing to deliver a bespoke PQRS solution:

- 1. We customized the report to include all medication choices without details on tiers, route of administration, or dosage.
- 2. The antibiotic choices provided in the report were filtered for those approved in the US and referred to by their US trade names instead of generic names.
- 3. The report generation process was modified to require a medical director's approval.
- 4. The report was made available in both PDF and JSON formats.

Strand Life Sciences works with marquee genetics diagnostics, sequencing instrument, pharma and biotech companies to accelerate bioinformatics and software development See our website for recent Case Studies and to get in touch!



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Genetic Tests Reported 500+

Projects Executed for Genomics Majors Globally Presence in 20+

Countries





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