

When Lab Processing Errors Risk Lives, Automation Saves Them

Intelligent Automation Saves 12 Minutes Per Result and Eliminates 100% of Manual Errors

The Hidden Patient Safety Crisis in Lab Processing

When "Close Enough" Isn't Close Enough: A misplaced decimal point in glucose, a transposed digit in cardiac enzymes, or an incorrect reference range can lead to missed diagnoses, inappropriate treatments, or delayed interventions that compromise patient safety.



The Error Rate Reality: Manual data entry has **1-3% error rates**. For a practice processing 500 lab results weekly, this means **5-15 potential transcription errors every week**. Over time, these errors create cumulative risk threatening both patient safety and practice liability.

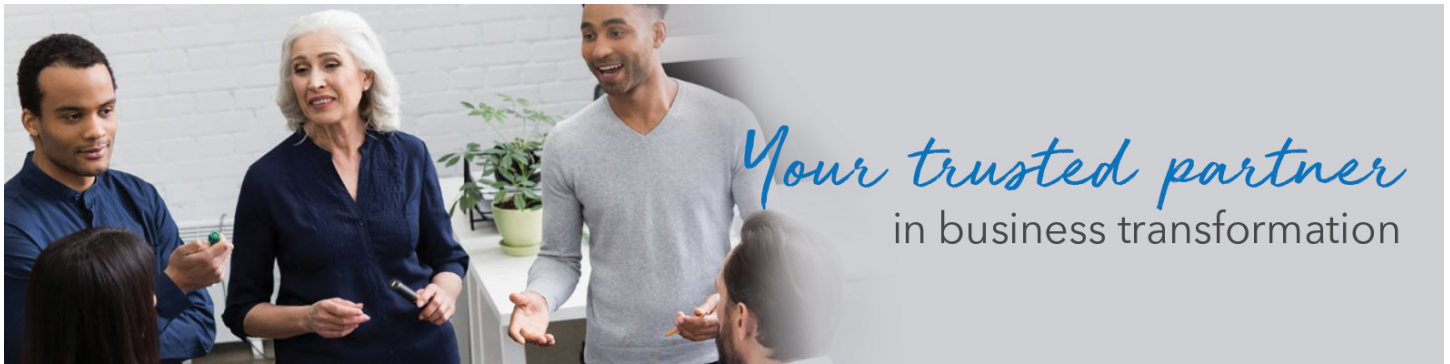
Cognitive Overload Problem: Clinical staff face cognitive overload switching between reviewing clinical significance, entering data accurately, and managing workflow priorities. This context switching increases error likelihood while decreasing processing efficiency.

System Integration Chaos

Multiple Laboratory Complexity: Most practices receive lab results from multiple laboratory systems using different formats, reference ranges, and data structures. Staff must manually reconcile these differences while entering data into EMR systems that may not integrate seamlessly.

Translation Errors: Creating opportunities for errors in translation between systems while consuming excessive time on formatting and data manipulation rather than clinical review.

Volume Challenge: For practices processing 100+ lab results daily, manual processing represents **20+ hours of staff time daily**—equivalent to 40 hours weekly dedicated to data entry instead of patient care.



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Intelligent Lab Processing That Eliminates Risk

Healthcare-Native Automation Intelligence

DCA's AI-powered lab processing understands medical terminology, normal ranges, critical values, and clinical significance patterns. Unlike generic automation, our system recognizes when lab values are inconsistent with patient history and when results require immediate clinical attention.

Multi-Laboratory Integration

Integrates with multiple laboratory systems and EMR platforms, automatically handling format differences and data standardization. Works with large commercial labs, hospital-based laboratories, and specialty testing facilities seamlessly.

Intelligent Routing and Clinical Workflow

Processed results automatically routed to appropriate clinical staff based on urgency, specialty protocols, and provider preferences. Critical values immediately flagged, routine normals processed automatically, abnormal findings prioritized appropriately.

Standardized Processing

Learns your practice's preferred reference ranges, critical value thresholds, and clinical protocols, applying intelligence consistently across all lab sources.

Measurable Results That Transform Laboratory Operations

12 min

Saved Per Result

100%

Error Elimination

75%

Faster Clinical Review

40

Hours Saved Weekly

Practice Benefits

- ✓ Eliminate 100% of manual data entry errors
- ✓ 75% reduction in clinical review time
- ✓ Intelligent critical value routing
- ✓ Free up 40 staff hours weekly for patient care
- ✓ Seamless multi-laboratory integration
- ✓ Retroactive quality improvement capabilities

How Lab Processing Automation Works

- 1. Automated Result Ingestion:** DCA automatically receives and processes lab results from multiple sources, extracting key values, applying appropriate reference ranges, and identifying abnormal findings. Handles diverse result formats and standardizes them for consistent processing.
- 2. Intelligent Clinical Prioritization:** Results automatically classified by clinical urgency and routed based on your practice protocols. Critical values requiring immediate physician attention flagged urgently, routine normals processed automatically.
- 3. Seamless EMR Integration:** Processed results automatically entered into patient records with proper formatting, clinical coding, and historical context. Providers receive clean, organized result summaries enabling rapid clinical decision-making.

Stop Risking Patient Safety with Manual Lab Processing

Transform error-prone manual processing into intelligent, accurate automation

digital blue
improving lives

Schedule Demo

See 100% error elimination in
30 minutes

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Get Started

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Accurate processing in 2
weeks

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