

Spike Technologies Explain How Adding Lab Test Analysis Can Increase User Retention in Health Apps

NEW YORK, NY, UNITED STATES, April 15, 2026 /EINPresswire.com/ -- For health app teams that have nailed wearable data integration, the next question is how to add a new layer of value that users can't get elsewhere, and lab report analysis is one of the most overlooked answers.

Blood panels, metabolic markers, thyroid levels, and hormone profiles are all vital lab tests that reveal what's happening inside the body at the biological level, which no wearable can

detect. Users want to see that data: 65% of U.S. adults who were offered online access to their medical records accessed them, up from just 25% in 2014. Right now, that happens outside your app.

That's the next product opportunity.

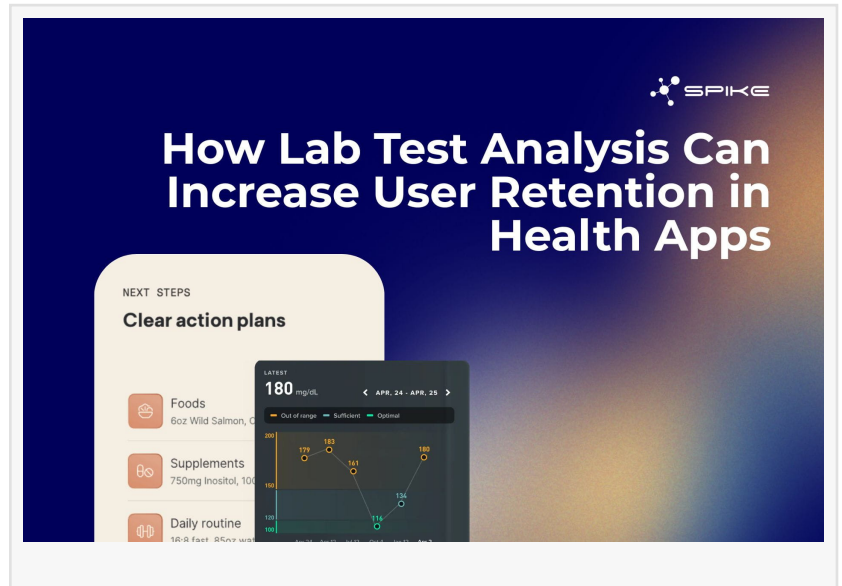
THE RETENTION GAP LAB RESULTS CAN FILL

Deloitte's 2026 US Health Care Outlook found that only 38% of US health care spending goes toward prevention, early detection, and well-being. To close this gap, digital consumer experiences are now a top strategic priority for health care organizations. Lab report integration sits directly in that value pool.

WHERE TO START WITH LAB REPORT INTEGRATION

There are three main components to get started:

1. Document parsing and OCR. Extracting structured data, test names, values, units, reference ranges, and collection dates from documents that vary widely in format requires medical-specific OCR logic.
2. LOINC normalization. "Glucose, fasting," "FBS," and "Fasting blood sugar" are the same test,



but a system that doesn't know that can't compare results across labs or over time. [LOINC is the international standard](#) that maps local lab codes to universal identifiers, enabling cross-lab comparison.

3. HIPAA compliance. Lab results are protected health information. Encryption at rest and in transit, access controls, audit logging, and BAAs with any third-party processors handling that data are non-negotiable. If you're serving European users, GDPR compliance applies too.

Once you have the data flowing, it's what you do with it that determines whether users open the app once a year or every week. If you connect lab data and wearables to an MCP layer and introduce a personalized AI health coach to your app, your users can ask questions and get contextual answers: Did their LDL improve after they started the new training program? Is their HbA1c moving in the right direction since they changed their diet? This kind of longitudinal, cross-data picture is only possible inside an app that holds both the medical and the lifestyle-related data.

The build-vs-buy decision here is worth examining carefully. Building this pipeline in-house is a multi-month engineering project. Pre-built lab report APIs reduce that timeline significantly and keep your team focused on core app features.

HOW THE INDUSTRY IS ALREADY LEVERAGING LAB REPORT INTEGRATION

1. Longevity and preventive health platforms

The most successful longevity platforms have built lab results into the user retention loop.

Function Health aggregates large-scale lab testing and uses AI to build a personalized health baseline and intervention plan for the user. This protocol gives users a reason to come back at a recommended time to repeat the tests to see if the treatment plan worked, and a reason to use the app between tests to track the lifestyle changes that should move the needle. InsideTracker, founded by researchers from Tufts and MIT, connects blood biomarkers to wearable data and generates recommendations across nutrition, training, and supplements, giving users a combined view of their health as well as a reason to come back, increasing retention.

User demand for this category is evident. Neko Health, a body scanning and preventive health startup aiming to provide personalized insights based on medical tests, surpassed 300,000 signups in its global waitlist by January 2026 and is opening its first US location in New York City this spring.

2. Femtech

Lack of actionability is cited as a primary drop-off driver for period-tracking apps, with 72% of users stopping engagement within three months.

Estrogen, progesterone, FSH, LH, and AMH values are central to fertility tracking, menopause management, and PCOS monitoring, and femtech apps that incorporate these are leading the

field.

Midi Health introduced diagnostic input directly inside its menopause and perimenopause platform, going as far as ordering blood work to clarify hormonal root causes, then feeding those results into personalized treatment plans, clinician consultations, and follow-up testing. This loop is what keeps users engaged: they're inside an active health journey, and the app is where all the information lives.

In October 2025, Oura launched Health Panels in collaboration with Quest Diagnostics. Users schedule a blood draw at one of 2,000 Quest locations through the Oura app, and results come back directly inside the app, connected to the sleep, readiness, and activity data the ring is already tracking. The lab results don't change your daily recommendations, but they explain them: a result showing elevated A1C sits next to your sleep trends and activity scores, so users can see what may be driving it. The lab result stops being a standalone number and becomes part of an ongoing health picture.

3. Athletic performance and sports health

Performance apps have always tracked how athletes are training, but few track biology.

WHOOOP Advanced Labs closes that gap: users order biomarker panels in the WHOOOP app, go to a partner lab for the blood draw, and results are delivered inside the app alongside continuous strain, recovery, and sleep data. The key product decision is that results feed into WHOOOP's daily coaching layer and actively change it. A high hs-CRP result translates into adjusted recovery targets the next day; elevated cortisol shifts sleep recommendations. Behavioral changes show up in daily biometrics first and in lab results over time, making progress trackable in both directions.

At the elite level, Biolyz partnered with Borussia Dortmund in a three-year agreement following a successful pilot during the 2024/25 German football (Bundesliga) season. Rather than annual blood panels, Biolyz uses non-invasive saliva testing with mass spectrometry to capture 100+ biomarkers at high frequency, providing the medical team with insights into players' inflammation, recovery, and readiness between matches. The club reported fewer injuries and better workload management; as a result, additional Bundesliga clubs have adopted the platform, with a Premier League rollout underway.

FROM RAW VALUES TO CLINICAL CONTEXT: WHAT A GOOD DISPLAY LOOKS LIKE

An app that displays numbers without context misses the retention opportunity entirely. The apps that do this well focus on three things:

- Longitudinal trends. Normalized to LOINC codes, results from different labs and visits can be compared over time. WHOOOP Advanced Labs is one example of a lab tracked over time, with clear visualisation of the results and improvements.
- Reference range context. Standard reference ranges are population-level averages. Displaying

where a value sits within its range and explaining what that means in plain language is more useful than a binary "normal/abnormal" flag. InsideTracker surfaces both standard and optimal ranges based on personal user information side by side.

- Cross-data correlation. The most powerful use of lab data is connecting it to wearables and nutrition data already in your app. Oura does exactly that: when a user's A1C comes back elevated, they can immediately see how their sleep quality, activity levels, and stress patterns over the past weeks may have contributed, because all of that data already lives in the same app. The lab result stops being a static number and becomes part of an ongoing health picture.

Spike has it covered: our [Lab Reports API handles](#) OCR extraction, LOINC mapping, and multi-format parsing.

ABOUT SPIKE

Spike Technologies Inc. is a B2B Agentic AI and health data startup founded in late 2022, split between San Francisco, California, and Vilnius, Lithuania. Spike provides a 360° Health Data API for wearables and IoT devices, alongside a multimodal Voice AI-powered platform designed to eliminate administrative burden in the health industry. The company serves a diverse client base across healthcare, government, digital health and health insurance sector. Visit spikeapi.com or spikecare.com to learn more.

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