

Longevity reports that took clinicians a full day now generate in under 30 minutes

The Outcome

Biolytica, a Swiss longevity startup, had the science to help people live longer, healthier lives. They needed a platform to bring it to life. Presidio built NEXUS on AWS - aggregating blood labs, wearables, aging assessments, and smart home health data into a single clinician portal. Personalized longevity reports that previously took a full day now generate in under 30 minutes.

How They Got There

Presidio provided the full stack: infrastructure design, application development, data engineering, and ongoing managed services. NEXUS was built on AWS Lambda for serverless scalability, Amazon Aurora for clinician and patient data, DynamoDB for application metadata, and Amazon Cognito for secure identity management. CloudTrail and X-Ray handle monitoring and API oversight. The architecture meets both GDPR and HIPAA requirements from day one.

Why It Worked

Longevity medicine is only as useful as the data behind it. Before NEXUS, clinicians were manually pulling from a dozen disconnected sources and spending an entire day building a report that should take minutes. By unifying every data stream into one platform with clear, actionable views, Presidio gave clinicians back their time and gave patients something more valuable: a personalized health plan grounded in their actual biology.

The Situation

Biolytica set out to make longevity medicine accessible, combining state-of-the-art health data analytics with personalized optimization insights. Longevity clinics draw from a wide array of sources: blood labs, photos for aging assessment, wearables tracking sleep and activity, and smart home devices monitoring blood pressure and body composition. Before Biolytica, clinicians dedicated a full day to manually compiling a comprehensive longevity report from those sources.

The Approach

Presidio provided the complete technology stack for NEXUS: infrastructure design, application development, data engineering, and ongoing managed services. The platform was architected on AWS Lambda for serverless scalability, Amazon Aurora for data storage, DynamoDB for metadata, and Amazon Cognito for identity management. CloudTrail and X-Ray handle monitoring. The architecture meets both GDPR and HIPAA requirements. Presidio continues to manage the full infrastructure.

The Result

NEXUS aggregates blood labs, wearable data, aging assessments, and smart home health metrics into a single clinician portal. Personalized longevity reports that previously required a full day of manual compilation now generate in under 30 minutes. Clinicians worldwide use NEXUS to build individualized health optimization plans grounded in each patient's actual biology.

"The Science of Longevity is not just about Living Longer, It's About Living Healthier, Longer. Bringing this information together enables effective planning for longevity." — Dan Fobes, Biolytica

1 day → 30 min

Personalized longevity
report generation time

Full stack

Presidio owns
infrastructure, dev, data,
and managed services

GDPR + HIPAA

Compliance built into the
architecture from day
one