HealthWeave for Baylor Genetics

Invisible Clinical Intelligence That Transforms Care Without Changing Workflows

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Problem Statement

Baylor Genetics provides world-class genetic testing. But what happens after the report leaves our lab?

- Genetic results land in patient portals and EHRs
- Primary care physicians have 15 minutes per appointment
- Specialists don't always see genetic implications for their domain
- Critical connections between genetic findings and clinical presentation go unidentified
- Patients receive complex results without comprehensive interpretation
- Care coordination across specialties remains fragmented

The result: Our excellent genetic testing fails to reach its full clinical potential.

The Concept

HealthWeave operates as an invisible clinical intelligence layer that automatically synthesizes genetic results with a patient's complete medical picture—delivering actionable insights to providers exactly when they need them, without disrupting existing workflows.

How It Works

Event-Driven Clinical Synthesis:

When a **new genetic report** is uploaded to a patient's chart: → HealthWeave automatically analyzes the genetic findings against the patient's complete medical history → Identifies cross-specialty connections (cardiac, oncology, hepatology, metabolic) → Flags medication interactions based on pharmacogenomic findings → Generates provider-ready synthesis

before the next appointment → Proactively notifies the provider of any significant, noteworthy changes or correlations.

When a **provider's schedule loads** for the day: → HealthWeave prepares fresh synthesis for each patient with genetic results → Provider sees comprehensive insights within their existing EHR/MyChart workflow → No separate login, no extra platform, no additional time required

When **new clinical data arrives** (labs, imaging, medications): → HealthWeave re-analyzes against genetic profile → Updates correlations and flags changes requiring attention → Ensures genetic findings stay relevant as patient's condition evolves

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The Patient Experience

What changes: The quality and comprehensiveness of care

What stays the same: The 15-minute appointment, the familiar workflow, the trusted provider

Before HealthWeave: Patient receives Baylor genetic report → Reviews with ordering provider → Genetic information considered in isolation → Follow-up with genetics scheduled if questions arise

With HealthWeave: Patient receives Baylor genetic report → AI synthesis happens automatically in background → Provider sees comprehensive analysis in EHR before appointment → 15-minute visit delivers insights that previously required genetic counselor, multiple specialists, and hours of coordination

The result: Exponentially better care in the same amount of time.

The Baylor Genetics Differentiator

Other genetic testing labs provide reports. Baylor Genetics provides reports + clinical intelligence.

Competitive Advantage:

For Referring Providers:

- "Order from Baylor and get AI-powered clinical synthesis with every report"
- Reduces provider burden of interpreting complex genetic findings

- Makes genetic testing more actionable in primary care settings
- Improves care coordination without additional work

For Patients:

- "Baylor Genetics reports come with comprehensive analysis built in"
- Better understanding of what genetic results mean for their complete health
- Proactive identification of connections other labs miss
- Confidence that nothing falls through the cracks

For Healthcare Systems:

- "Partner with Baylor and enhance care quality without adding resources"
- Improves outcomes without increasing appointment times
- Reduces coordination overhead between genetics and other specialties
- Demonstrates measurable value-add beyond the test itself

Clinical Value Propositions

For Genetic Counselors:

- **Time Savings:** Pre-appointment synthesis reduces prep work
- **Comprehensive Context:** See patient's complete clinical picture automatically
- **Follow-up Optimization:** Identify which patients need urgent vs. routine follow-up
- **Quality Enhancement:** Ensure no genetic implication is missed

For Ordering Providers (PCPs, Specialists):

- **Actionable Insights:** Genetic results translated into clinical recommendations
- **Cross-Specialty Awareness:** Understand implications beyond their specialty
- **Medication Management:** Pharmacogenomic guidance integrated with current prescriptions
- **Decision Support:** Evidence-based recommendations with citations

For Patients:

- **Clarity:** Complex genetic information made comprehensible
- **Coordination:** Connections between genetics and their conditions identified
- **Empowerment:** Better informed for shared decision-making
- **Safety:** Drug-gene interactions flagged proactively

Real-World Example

Case: BRCA1 Pathogenic Variant Identified

Traditional Workflow:

- Genetic report delivered to ordering oncologist
- Report discusses breast/ovarian cancer risk and surveillance
- Patient's existing cardiac condition managed separately by cardiologist
- Hepatologist monitoring mild liver disease unaware of genetic testing
- No one correlates BRCA1 status with patient's complete medication list

With HealthWeave:

- Genetic report triggers automatic synthesis
- AI identifies:
    - BRCA1 implications for oncology (per NCCN guidelines)
    - Interaction between proposed cancer surveillance medications and patient's cardiac drugs
    - Consideration for liver function monitoring given genetic profile
    - Family cascade testing recommendations
    - Integrated surveillance schedule across all specialties
- Provider receives single synthesized view before appointment
- 15-minute visit addresses oncology, cardiac, hepatic, and medication considerations

- Patient leaves with comprehensive, coordinated care plan

Outcome: Life-saving connections made. Same appointment time. Better care.

Integration Philosophy

HealthWeave doesn't replace existing systems—it enhances them invisibly.

- **No separate app for providers to log into**
- **No new workflow to learn**
- **No additional time required**
- **Works within MyChart, Epic, or existing EHR**
- **Appears as enhanced report annotations or clinical decision support**

The Value Equation:

Same Time Investment + HealthWeave Intelligence = Exponentially Better Care

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Business Model Alignment

For Baylor Genetics:

Immediate Value:

- Differentiation in competitive genetic testing market
- Justification for premium pricing ("reports + intelligence")
- Increased provider satisfaction and loyalty
- Reduced genetic counselor burden for routine interpretations

Long-term Value:

- Platform for offering subscription-based clinical intelligence
- Licensing opportunity to other genetic testing labs
- Healthcare system partnerships (value-add for network contracts)
- Data insights that improve report quality and turnaround

Market Positioning: "Baylor Genetics doesn't just tell you what's in the genome—we tell you what it means for the whole patient."

What This Requires

To Validate Concept:

1. **Pilot with genetic counselors:** Does AI synthesis match counselor interpretation?
2. **Provider feedback:** Do ordering physicians find this clinically valuable?
3. **Patient outcomes:** Does it improve care quality or patient satisfaction?

To Implement:

1. **EHR integration strategy:** How does this appear in provider workflow?
2. **Compliance framework:** HIPAA, security, liability considerations
3. **Clinical validation:** Accuracy benchmarks, quality metrics
4. **Business model:** Pricing, reimbursement, value capture

The Question

Is there clinical and strategic value in positioning Baylor Genetics as not just a testing lab, but as a clinical intelligence partner that ensures genetic results reach their full potential in patient care?

If the answer is yes, HealthWeave represents a pathway to differentiate Baylor Genetics in a crowded market by solving the "now what?" problem that follows every genetic test result.

Prepared by:
Garot Conklin
Senior DevOps Manager, Baylor Genetics
gconklin@baylorgenetics.edu

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