



The Gateway to Medicine 3.0

American Hospital and the GenetiQ Digital Twin



The Transition to Medicine 3.0

Pre 1950s

Medicine 1.0



Dominated by heroic interventions and trial-and-error treatments with limited biological insight.

1990 - 2010s

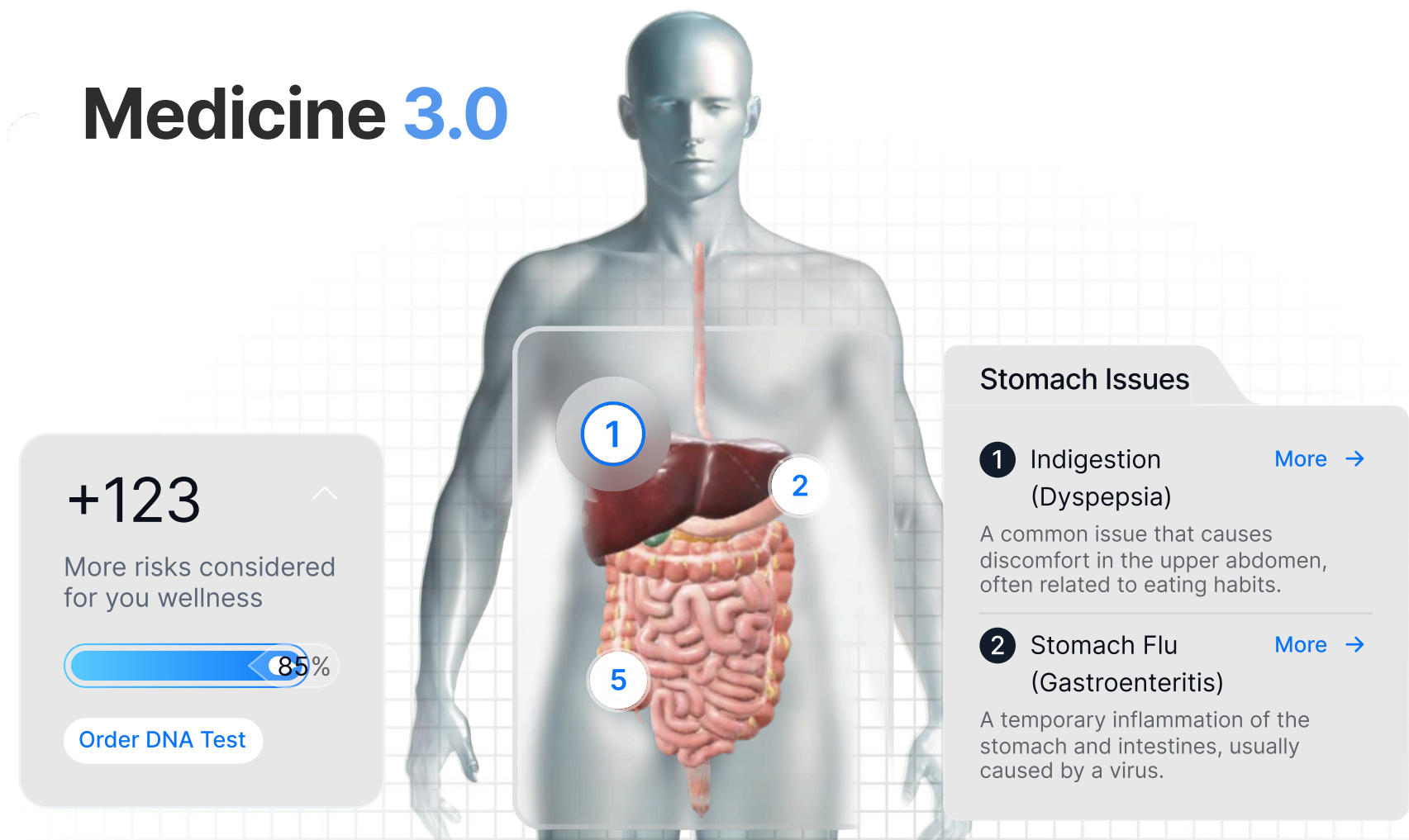
Medicine 2.0



Evolved toward evidence-based protocols and standardized acute care, significantly extending lifespan yet leaving us vulnerable to chronic and degenerative conditions.

TODAY & TOMORROW

Medicine 3.0



- Proactive & Personalized: Moves beyond “treat-when-broken” by using data-driven strategies to intercept disease before onset.
- Holistic Outcome Focus: Elevates not only lifespan (quantity of years) but healthspan (quality of life).
- Precision Diagnostics & Therapies: Employs multi-omics, advanced imaging, and AI-driven insights to tailor interventions down to the molecular level.

VISION & MISSION

The GenetiQ Digital Twin A New Era of Medicine

GenetiQ is not just a diagnostic tool; it's the foundation of predictive precision medicine. By integrating multiomics data, AI-driven predictive modeling, and a deep learning knowledge graph, GenetiQ will redefine healthcare, shifting from reactive to proactive treatment approaches. This innovative platform leverages cutting-edge technologies to revolutionize patient care, enabling healthcare providers to anticipate and prevent diseases rather than merely responding to symptoms. By harnessing the power of comprehensive biological data and advanced artificial intelligence, GenetiQ paves the way for a new era of personalized, preventative healthcare.

World's Largest Assay Library of Precision Diagnostic Software

First-Mover Advantage

The world's first fully integrated precision diagnostics platform with multi-omics data.

Scalability Through Partnerships

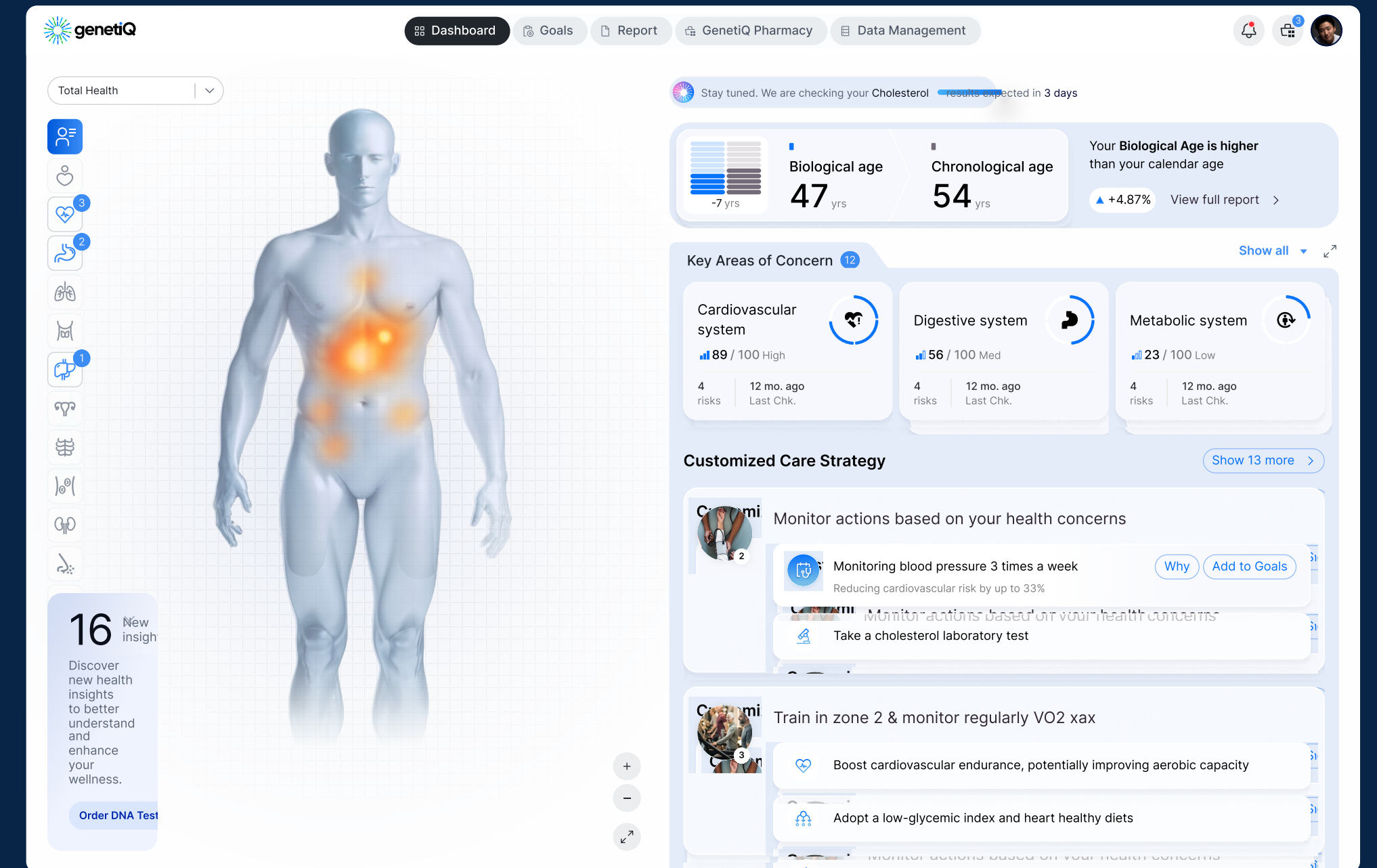
Instead of building standalone labs, we activate global lab networks to leverage existing infrastructure.

A Data-Driven, AI-Powered Knowledge Engine

Our deep learning model aggregates and refines the world's most advanced assays to continuously improve predictive insights.

A Monetizable Asset

This platform is not just about diagnostics, it is a revenue-generating intelligent digital ecosystem.



The GenetiQ Digital Twin Enriched by 100x Assays



The grid contains the following logos and categories:

- BIOMESENSE
- Genomics & Epigenomics
- BAYLOR GENETICS
- CELEMICS
- Endocrinology & Hormonal Assays
- PREOMICS
- GUARDANT
- Proteomics & Metabolomics
- ThyroSeq[®] Thyroid Genomic Classifier
- ZRT LABORATORY
- prenuvo
- DNA Complete[®] Powered by Nebula Genomics
- Cardiovascular Health
- clearly
- WITHINGS
- Neurodegeneration & Cognitive Function
- Stride[®]
- Galleri[®]
- FUJIREBIO
- QIAGEN
- Function
- MIRAI LAB
- GlycanAge
- AGE Longevity & Aging Biomarkers
- Nebula Genomics
- MICROBA[™]
- Qvin[™]
- Organ-Specific Functional Diagnostics
- NIX[™]
- Immunology & Inflammation
- TruDiagnostic[™] The Epigenetic Company
- V I O M E
- Biophysical & Functional Tests
- Olink
- AMILI
- hdrop
- ZOE
- EDIFICE HEALTH
- LIFE LENGTH
- GRAIL
- muse[™]
- Multi-Omic Integrative Panels
- tinyhealth
- Microbiome & Gut Health
- EXACT SCIENCES
- frontiers
- ACTIVE MOTIF[®] Enabling Epigenetics Research
- seer
- OWLSTONE
- Cancer Screening & Liquid Biopsy
- THORNE
- CellMax Life
- Freenome
- COSMOSID[®] Unlocking The Microbiome
- Adaptive biotechnologies[™]
- Immunoprofiling & Inflammation
- G-BIOSCIENCES[™]
- cologuard[®] Rx only
- oncotype dx[®] Colon Recurrence Score
- DATAR CANCER GENETICS-EUROPE
- Trucheck[™]
- oncoEXtra[®]
- Floré
- oncoguard[™] liver
- riskguard[™] Hereditary Cancer Test
- Nightingale Health
- Metabolon[™]

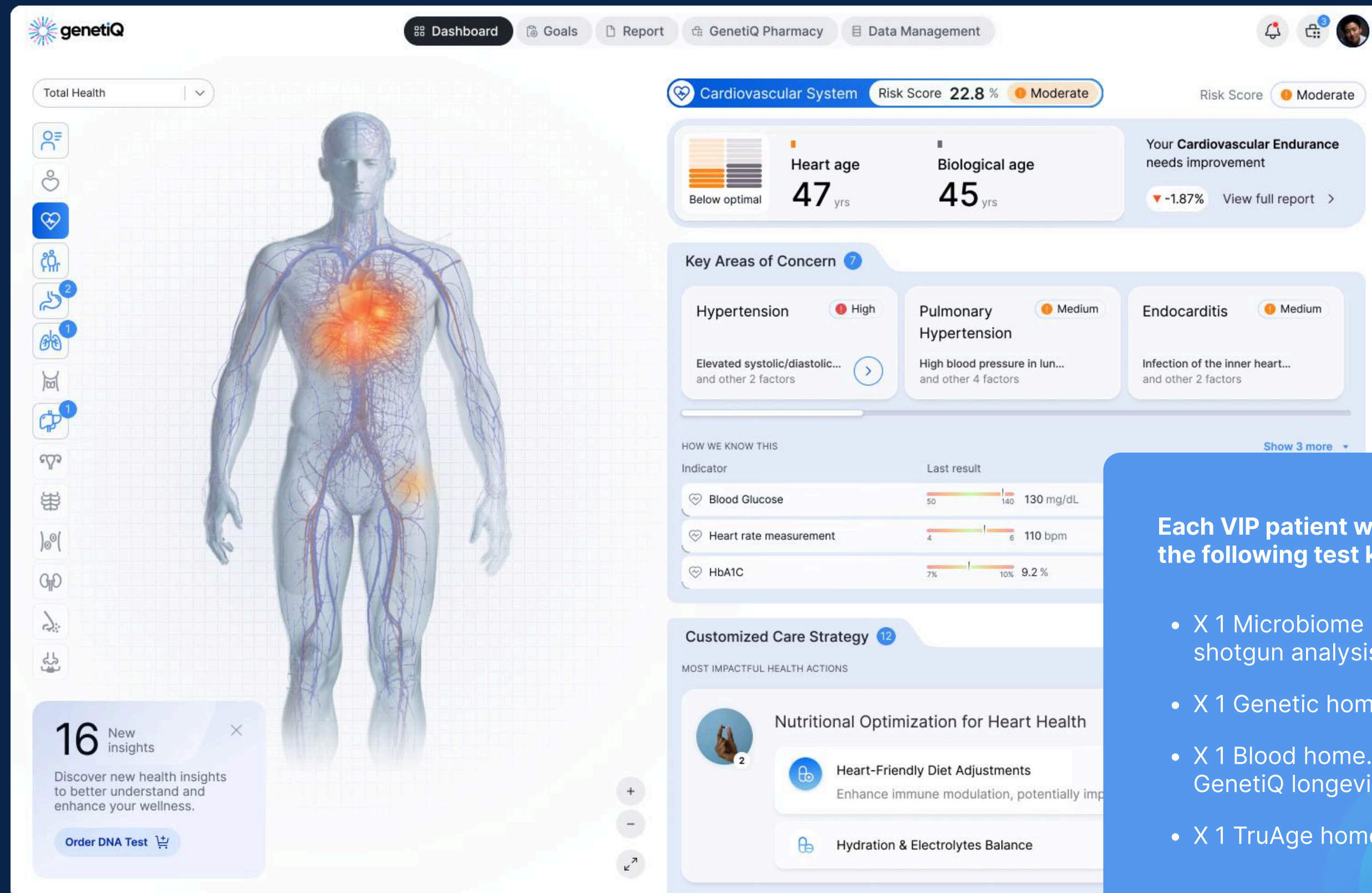
The **GenetiQ digital twin** is supported by the most comprehensive consumer diagnostics lab in the MENA region and is partnering with global best-in-class solutions across:

- Genetic testing
- Microbiome testing
- Bloods testing
- Metabolite testing
- Cancer liquid biopsies
- Exosome testing

GenetiQ VIP Longevity Program

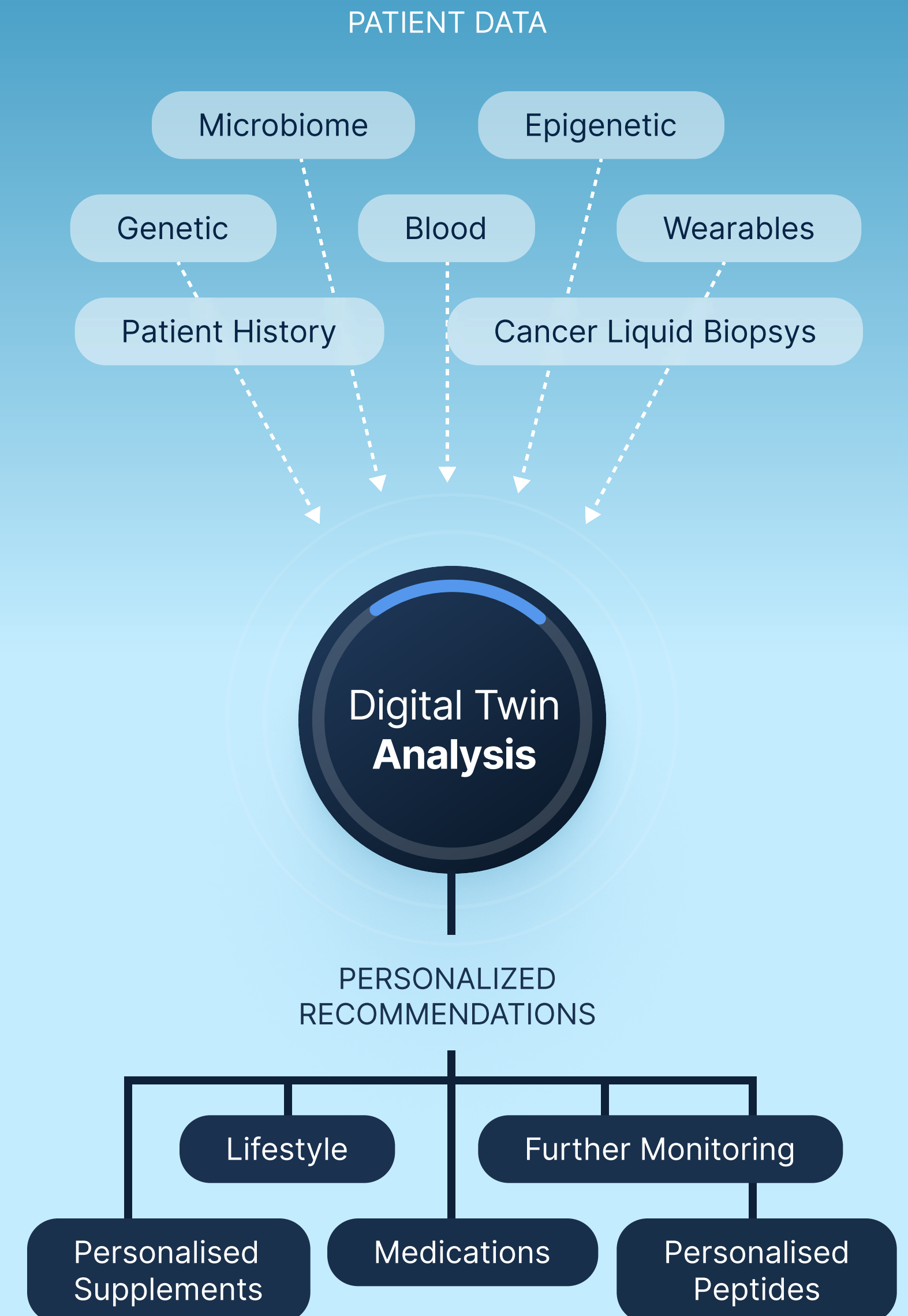


The pilot program for the American hospital VIP clinic will leverage the GenetiQ platform to build the healthcare digital twin of each patient using multi-omic data analysis to provide the physician with predictive health risks and recommendations for the patient. Together the patient and physician review the data and insights, selecting which recommendations to convert into actionable longevity protocols with set KPIs and testing to monitor health outcomes.



Each VIP patient will also receive the following test kits at-home:

- X 1 Microbiome home kit for shotgun analysis
- X 1 Genetic home kit for WGS
- X 1 Blood home. This is the GenetiQ longevity blood panel
- X 1 TruAge home test kit



The GenetiQ VIP Longevity Program: **Benefits**



Patient Benefits

Personalized Longevity Plan

Multi-omic analysis for precision health protocols to optimise performance, healthspan and longevity. This helps identify risks early and leverages functional medicine optimised performance healthspan and longevity.

Proactive Health Tracking

Guided health monitoring at home, ensuring proactive rather than reactive care.

Exclusive Therapies

VIP patients access cutting-edge biomarker-driven longevity treatments including peptides and regenerative therapies to enhance cellular function and slow aging.

Monitored Health Outcomes

Regular follow-up testing provides ongoing monitoring of health outcomes accompanied with proactive data-driven adjustment of interventions, ensuring that every patient stays on the most effective path to long-term wellness.

Physician Benefits

Multi-omic AI-Powered Insights

The digital twin layers multi-omic patient data to give an nuanced and holistic view of the patients biology. This enables physicians to visualize risks, predict disease progression, and make precise, data-backed decisions.

Effortless Patient Management

Automated notifications, pre-analyzed reports, and real-time monitoring streamline patient health tracking. Physicians can efficiently monitor progress, adjust treatments, and reduce administrative workload.

Advanced Treatment Access

Physicians gain access to next generation longevity interventions and research through the GenetiQ partnerships and community.

Real-time Health Monitoring

Genetic digital twin real-time health monitoring via wearables integration enables physicians to track biological trends, detect early risks, and personalize interventions in real time for improved patient engagement, and optimized longevity outcomes.

GenetiQ VIP Longevity Program: User Journey



Physician Journey

- **Registration & Data Sync** – Physician sends app download link, and the patient is registered in the portal.
- **Analysis & Review** – Physician is notified when results are ready and has at least 3 days to review before the appointment.
- **Consultation & Goal Setting** – Patient books an appointment, and the physician discusses results, selects which recommendations should be turned into protocols in the goals dashboard. Protocols include key KPIs to measure progress as well as timeframes.
- **Results & Action Plan** – Physician releases all digital twin data to the patient-facing app for ongoing tracking.
- **Follow-up** – Physicians review updated biomarker data, assess patient progress, and refine KPIs, supplements, or treatment protocols before releasing updated recommendations to the patient app.

Patient Journey

- **Register & Connect** – Patients download the app via a physician's link, complete health questionnaires, and syncs EHR and wearable data (e.g., Apple Watch).
- **Sample Collection & Processing** – Home test kits are sent with app-guided instructions. Patients return samples and receive an analysis timeline.
- **Results & Personalized Consultation** – Once processed, patients are notified and prompted to book a virtual or in-person consultation with their physician to discuss results and tailored health recommendations.
- **Follow-up** – Patients receive goal-specific follow-up test kits, return samples to the lab, and are prompted to book a follow-up appointment to review progress and adjust their longevity plan.

The Physician Interface



Multi-omic risk score

Real-time monitoring data

Patient history, lifestyle, goals

Test results

Pharmacogenomics

Health actions taken by the patient

genetiQ Doctors Dashboard

Patients List

Search for.. MM/DD/YYYY

Name / MRN	DOB	Sex	Results	Address	Last result
EJ Emma Johnson 20345678	11/11/1993 40 y.o.	Male	0 / 14	892 Oak Street, Denver, Colorado 80202	01/10/24 Dr. Nigel Pratt
MB Michael Brown 30456789	09/07/1975 40 y.o.	Male	2 / 5	127 Maple Ave, Austin, Texas 73301	02/05/24 Dr. Jason Williams View doctors portal
KM Kathryn Murphy 50678935	08/05/1978 40 y.o.	Male	0 / 3	120 Pine St, Boston, Massachusetts 02108	1/21/24 Dr. Nigel Pratt
WM William Miller 50678901	04/17/1987 40 y.o.	Male	0 / 3	300 Birch Lane, Seattle, Washington 98109	1/21/24 Dr. Nigel Pratt
SD Sophia Davis 40567890	07/29/1965 40 y.o.	Male	0 / 3	562 Elm Street, San Diego, California 92101	1/21/24 Dr. Nigel Pratt
JT James Taylor 50678901	10/03/1992 40 y.o.	Male	0 / 8	4140 Parker Rd. Allentown, New Mexico 31134	1/21/24 Dr. Nigel Pratt
CM Charlotte Martinez 01123456	06.02.1973 40 y.o.	Male	0 / 3	875 Redwood St, San Francisco, California 94103	12/27/23 Dr. Jason Williams
EJ Emma Johnson 20345678	11/11/1993 40 y.o.	Male	0 / 14	892 Oak Street, Denver, Colorado 80202	01/10/24 Dr. Nigel Pratt
MB Michael Brown 30456789	09/07/1975 40 y.o.	Male	0 / 14	127 Maple Ave, Austin, Texas 73301	02/05/24 Dr. Jason Williams
KM Kathryn Murphy 50678935	08/05/1978 40 y.o.	Male	0 / 3	120 Pine St, Boston, Massachusetts 02108	1/21/24 Dr. Nigel Pratt
WM William Miller 50678901	04/17/1987 40 y.o.	Male	0 / 3	300 Birch Lane, Seattle, Washington 98109	1/21/24 Dr. Nigel Pratt
JT James Taylor 50678901	10/03/1992 40 y.o.	Male	0 / 8	4140 Parker Rd. Allentown, New Mexico 31134	1/21/24 Dr. Nigel Pratt

Show 12 / 100

Go to page 10

genetiQ Doctors Dashboard

Patients List / Michael Brown

Patient MRN # 20345678
Michael Brown (Mr)

DoB 10/08/1968 Age 56 y.o. Sex Male Weight (kg) 97.5 ▲+1.5 kg

Recent Actions Purchased
✓ CoQ10, Omega-3 fish oil +3

Health Risks

- Circulatory System** 58 / 100 High Risk
 - Hypertension
 - Artery Disease +3
- Respiratory System** 47 / 100 Moderate Risk
 - Asthma
 - Pulmonary fibrosis +2
- Digestive System** 45 / 100 Moderate Risk
 - Crohn's disease
 - Peptic ulcer +1
- Endocrine System** 39 / 100 High Risk
 - Hyperthyroidism
 - Addison's disease +4
- Skeletal System** 37 / 100 Moderate Risk
 - Osteoporosis
 - Fractures +3
- Muscular System** 32 / 100 High Risk
 - Muscular dystrophy
 - Fibromyalgia +4
- Immune (Lymphatic) System**

Your Digital Twin Overview

A personalized model uses your medical history, imaging, and real-time data to simulate and predict heart function.

Patient Care Summary

Export results to patient portal

View patient portal

The patient's overall health indicates moderate risk, with significant concerns in cardiovascular health and elevated inflammatory markers.

Blood Health Results Optimal

Comprehensive blood tests covering metabolic, inflammatory, and cardiovascular health.

Biomarker Name	Results
Hemoglobin(Hb)	14.8
Hematocrit (Hct)	41.5
WBC Count	5.9
Total Iron Binding Capacity (TIBC)	328.6
Neutrophils %	67.4
Lymphocytes %	39.2
Transferrin Saturation	26.4
LDL Cholesterol	119.2
HDL Cholesterol	54.3
Total Cholesterol	175
C-Reactive Protein (CRP)	1.45
Erythrocyte Sedimentation Rate	11.3

Next Steps

Selecting initial VIP patient cohort for early testing and data calibration.

- How many patients
- Age/sex/health demographic

Feedback on user journey and level of physician involvement

- How intuitive is the onboarding process?
- Is this the appropriate level of physician engagement? Would you like more or less involvement?
- Would you like the patient touchpoints to be virtual or in person?

Understand timelines for clinic

- What are the timelines for the clinic launch?
- When would you hope to launch this program
- Would you like to launch the VIP program all at once or have a staggered roll out to VIP clients?

Requirements for EHR integration

- What EHR and you are using and what are your API and privacy requirements?
- Could we get a full scoping from tech teams on the requirements for this?

Physician training program

- Once we decide on launch data we can set a date for the training workshop. This will include:
- Interactive Demonstration with Q&A on navigating the platform
- Masterclass on understanding the test results from the analysis pipelines and their implications
- Masterclass on the digital twin infrastructure and how our recommendations are generated.



المستشفى الأمريكي
AMERICAN HOSPITAL

Thank You

