

Harnessing the power
of platform thinking to
transform healthcare



Mayo Clinic by the numbers

No. 1

Ranked healthcare
organization in the world

53M
People reached
through Mayo
Clinic Platform

85K+
Staff

50 States 135 Countries

320+
AI algorithms
in the Practice

\$1.3B
Research funding

150K
Surgeries a year

1 Mayo Clinic Platform

Mayo Clinic Platform is a critical embodiment
of the Mayo Clinic **Bold. Forward.** vision



Cure

Developing more cures for acute and chronic diseases – by deliberately interlinking discovery, translation and delivery to produce new diagnoses and treatments.



Connect

Connecting people with data to generate new knowledge and deliver scalable, end-to-end solutions.



Transform

Transforming healthcare by creating the first, scalable, AI-enabled health care platform.

Integrated deep multimodal and longitudinal **data**

15.4

Million patients

36

Petabytes of clinical data

30

Years of patient history

Imaging Data

3.9B MRI images
3M Eye images
128M Echo images
99M X-ray images
8.1B CT scan images

2.6M GI Endo images
630M PET scan images
325M Ultrasound images
26M Mammography images
19M Pathology images

Omics Data

Genetic Variants
Multi-Omics
RNA Seq.
Raw VCF & BAM

Waveform Data

121K Electroencephalogram (EEG)
10M Electrocardiogram (ECG)
11M Electromyography (EMG)

Research Data

Whole Exome Seq.
BioBank
Brain Bank
Research Registries
Prospective Trials

Structured

4.9B Lab tests
255M Appointments
826M Medications
2B Procedures

21B Flowsheets
9.5B Vitals
705M Encounters
Many More

Unstructured

1.7B Clinical Notes
ECG Reports
50M Radiology Reports

20M Pathology Reports
280K Cardiac Cath Reports

Admin Data

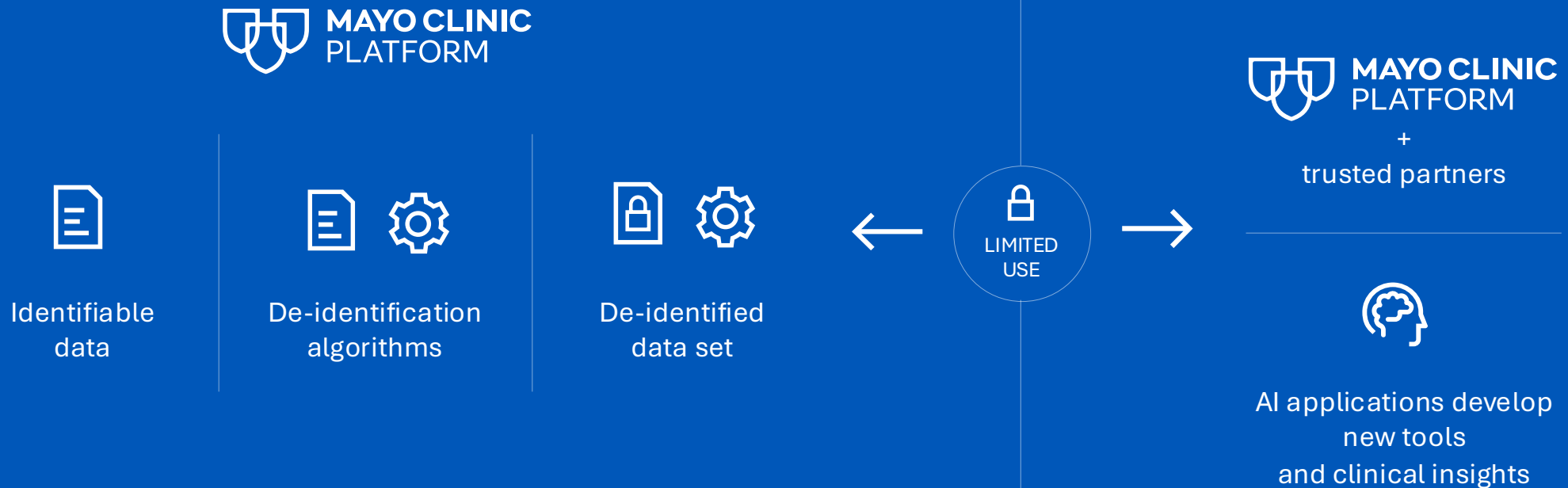
152M Claims
Safety and Quality

Device Data

Med Devices
Supplies
Wearable Devices
Patient Monitoring

Protecting patient privacy and intellectual property

Privacy is embedded in platform architecture

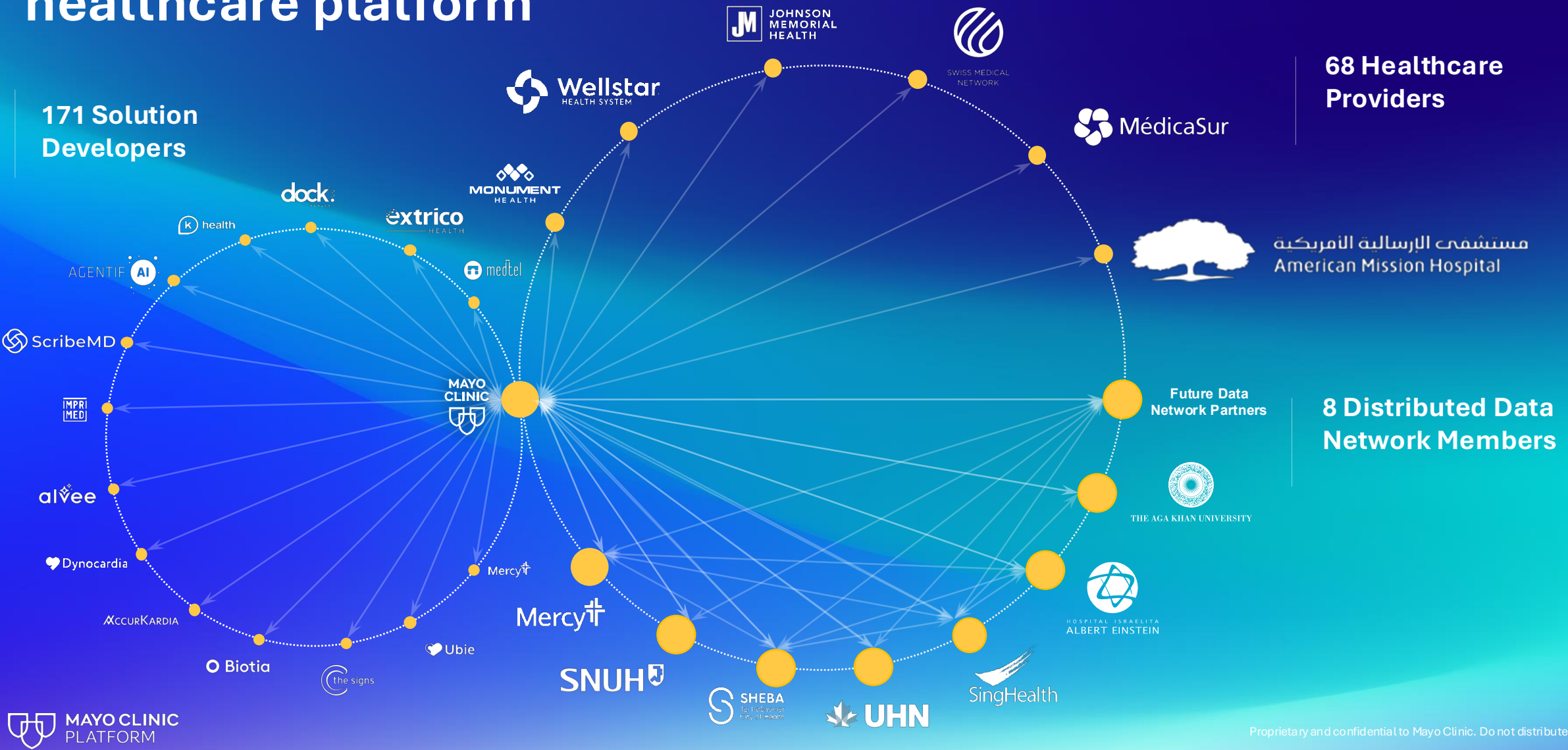


Integrated discovery to deployment to **impact**

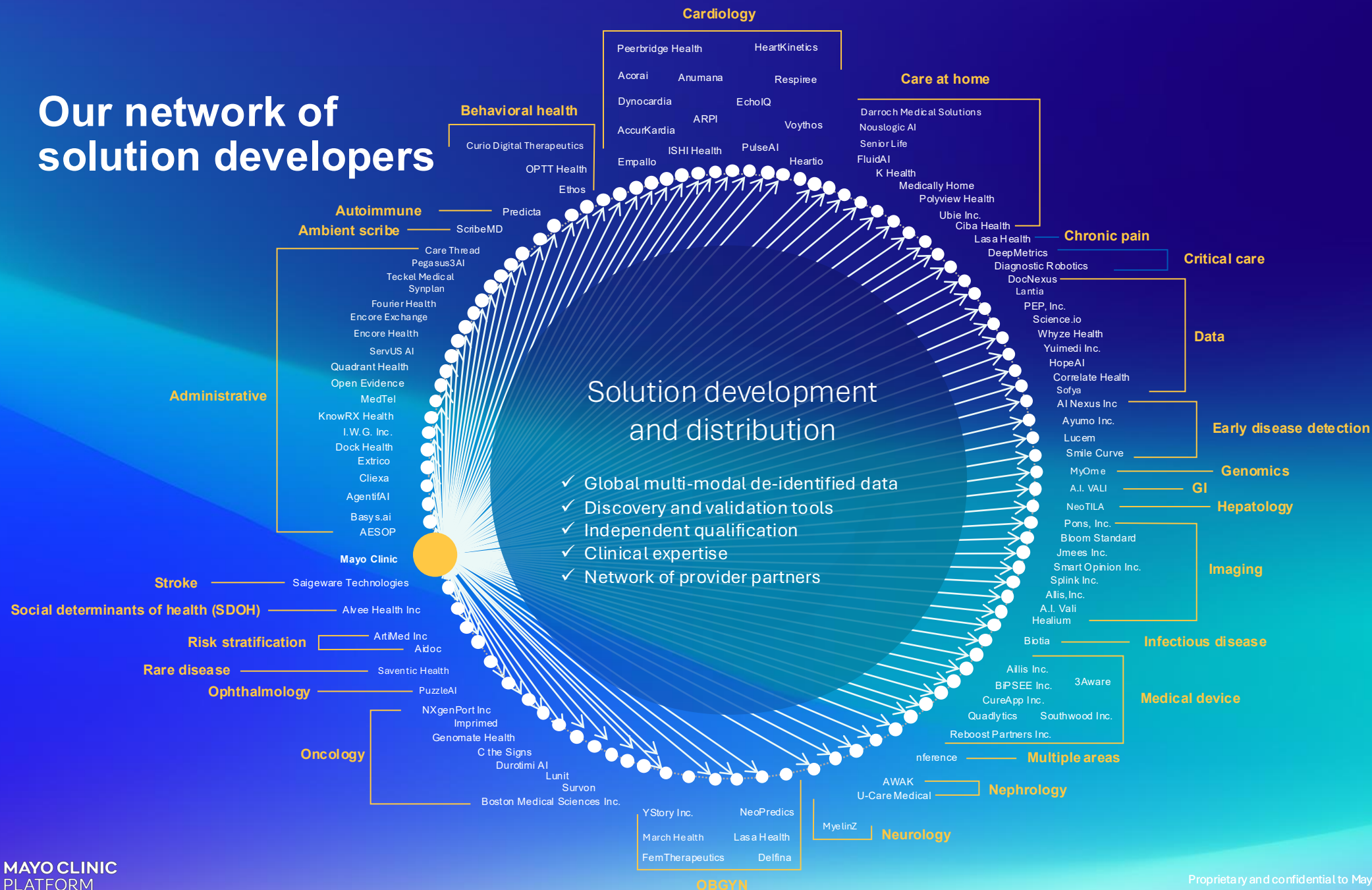
Platform Capabilities



The first comprehensive healthcare platform



Our network of solution developers



Collaboration at **global scale**

30M

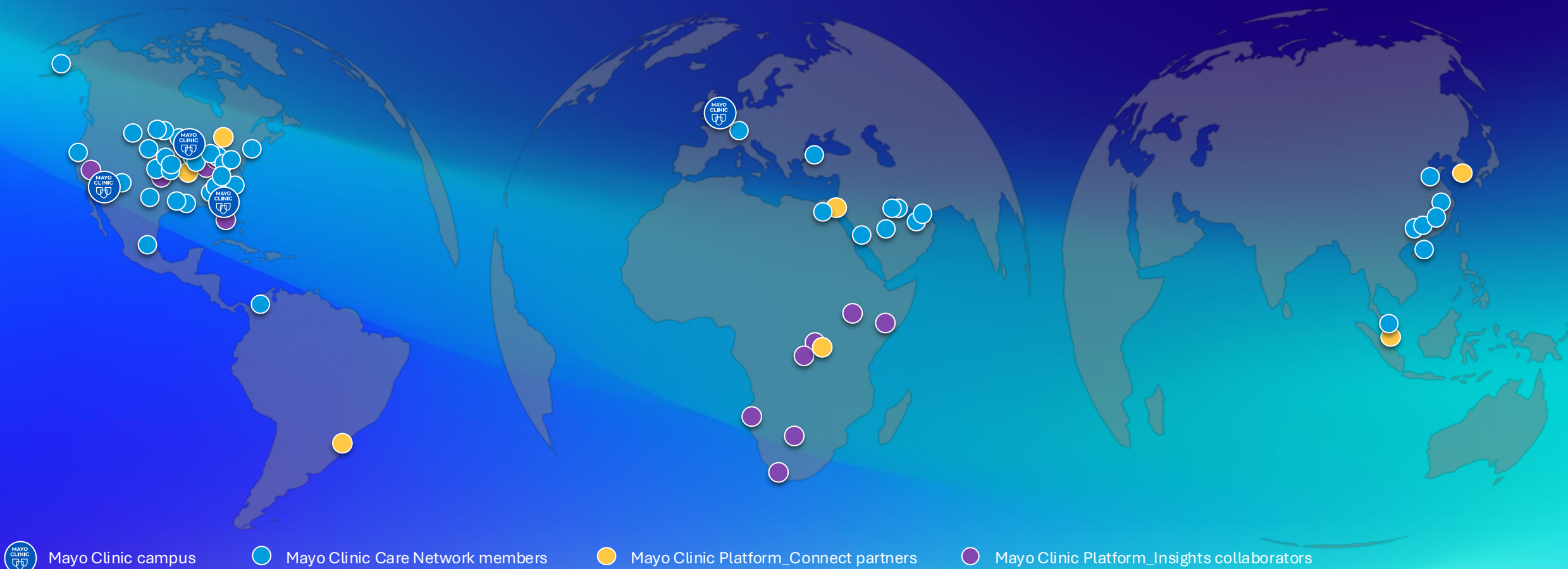
De-identified
lives

50K

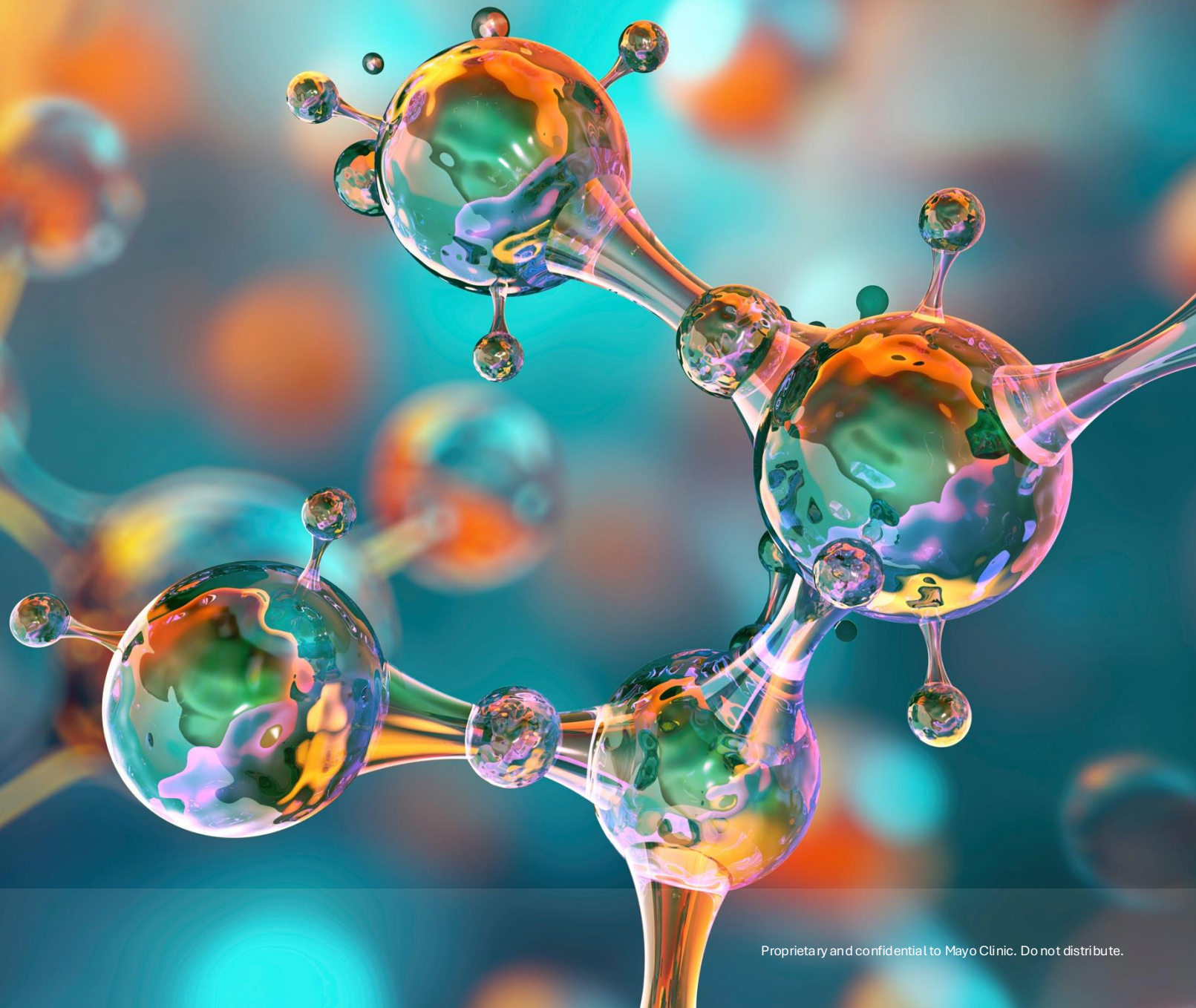
Staffed
hospital beds

19M

Patients seen
annually



2 What's possible



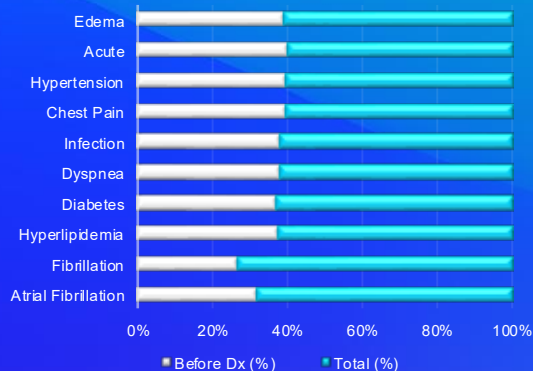
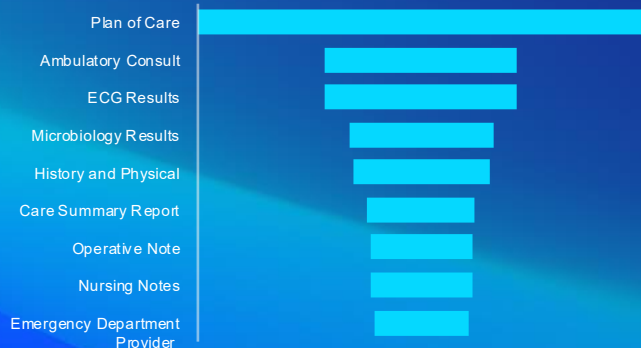
Heart disease data snapshot

Rich clinical real-world data across cohort

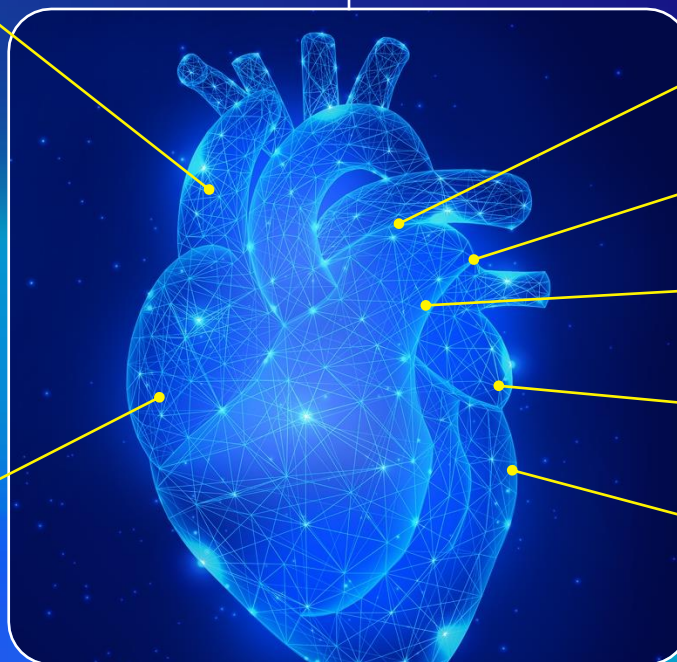
Datasets

Mercy⁺

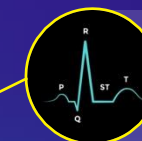
Clinical Notes



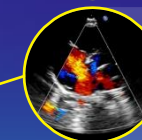
Patient Population
240,209



Procedures and Labs



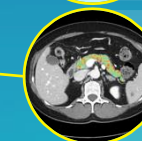
Electrocardiograms
220,186



Echocardiograms
200,781



Chest X-Rays
180,201



CT Scans
145,998



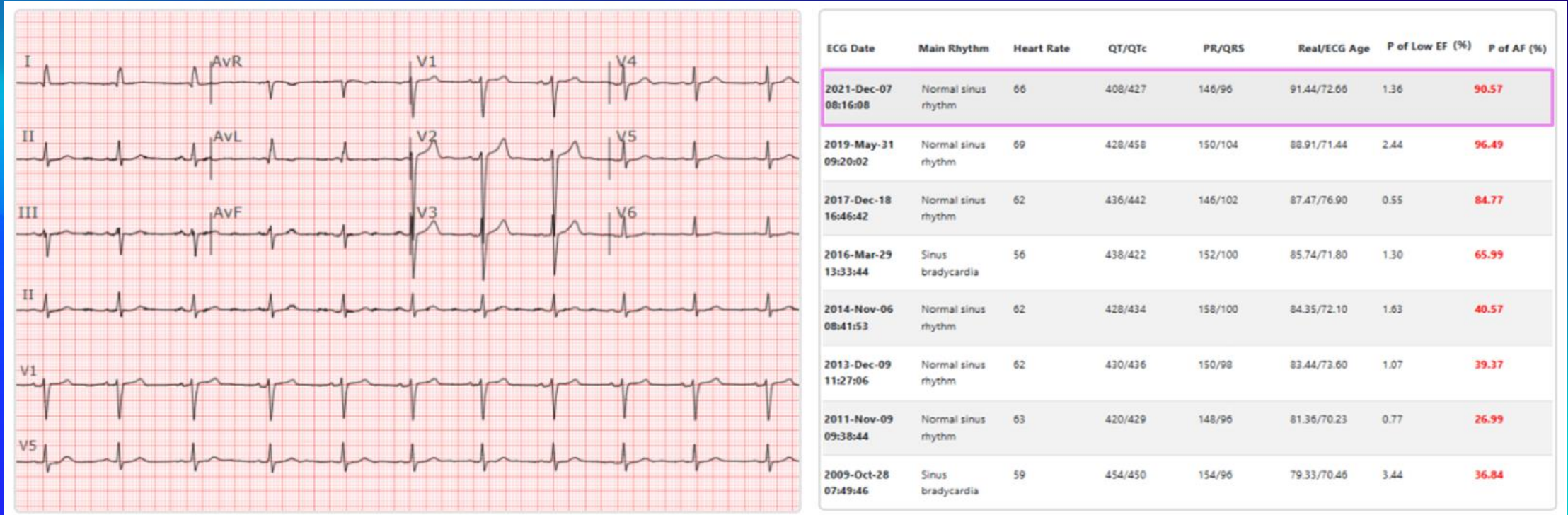
Angiograms
71,362

Average time pre-diagnosis
12.9 years

Average duration
19.5 years

Average time post-diagnosis
8.4 years

Detect atrial fibrillation risk ahead of any event using AI-ECG



Although all ECGs showed a normal rhythm, the AI-ECG indicated a clear trend toward an increased risk of atrial fibrillation.

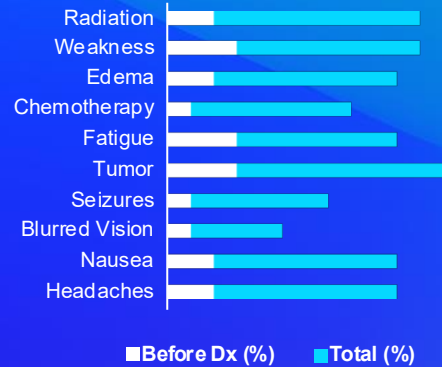
Glioblastoma data snapshot

Rich clinical real-world data across cohort

Datasets

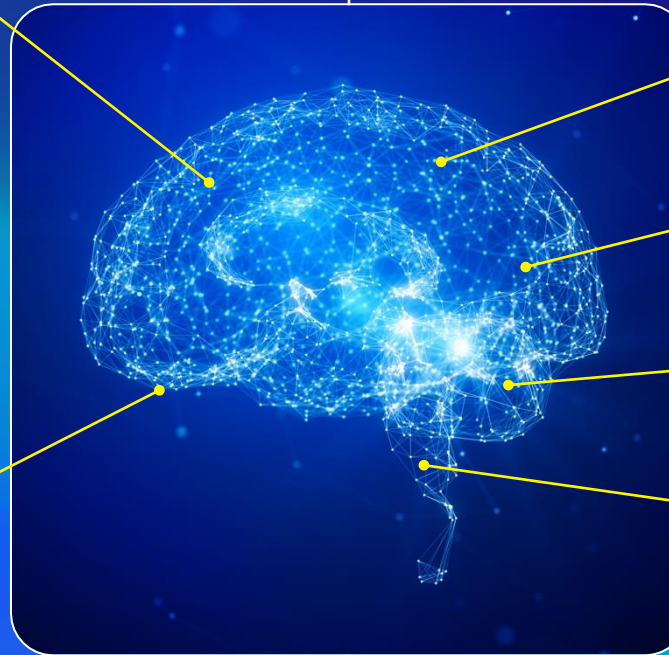


Clinical Notes



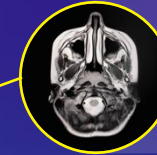
Average time pre-diagnosis
6.0 years

Patient Population
8,673



Average duration
15.9 years

Procedures and Labs



MRI of the Brain
14,667



Immunohistochemistry
8,001



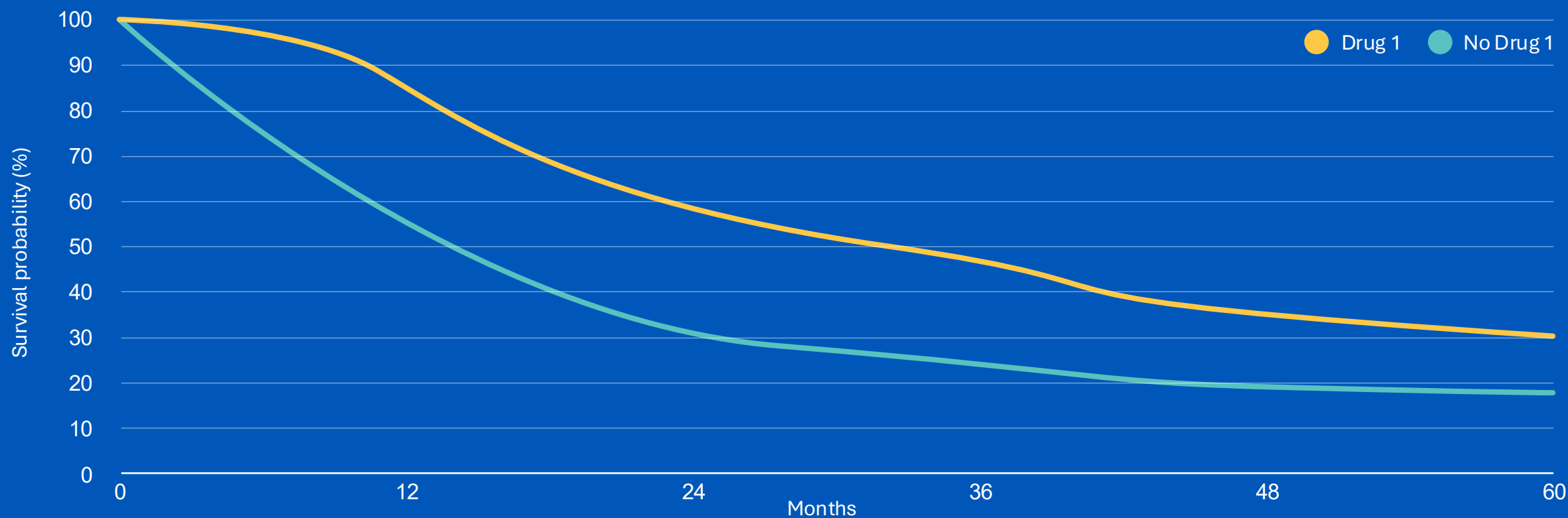
Craniotomy
5,390



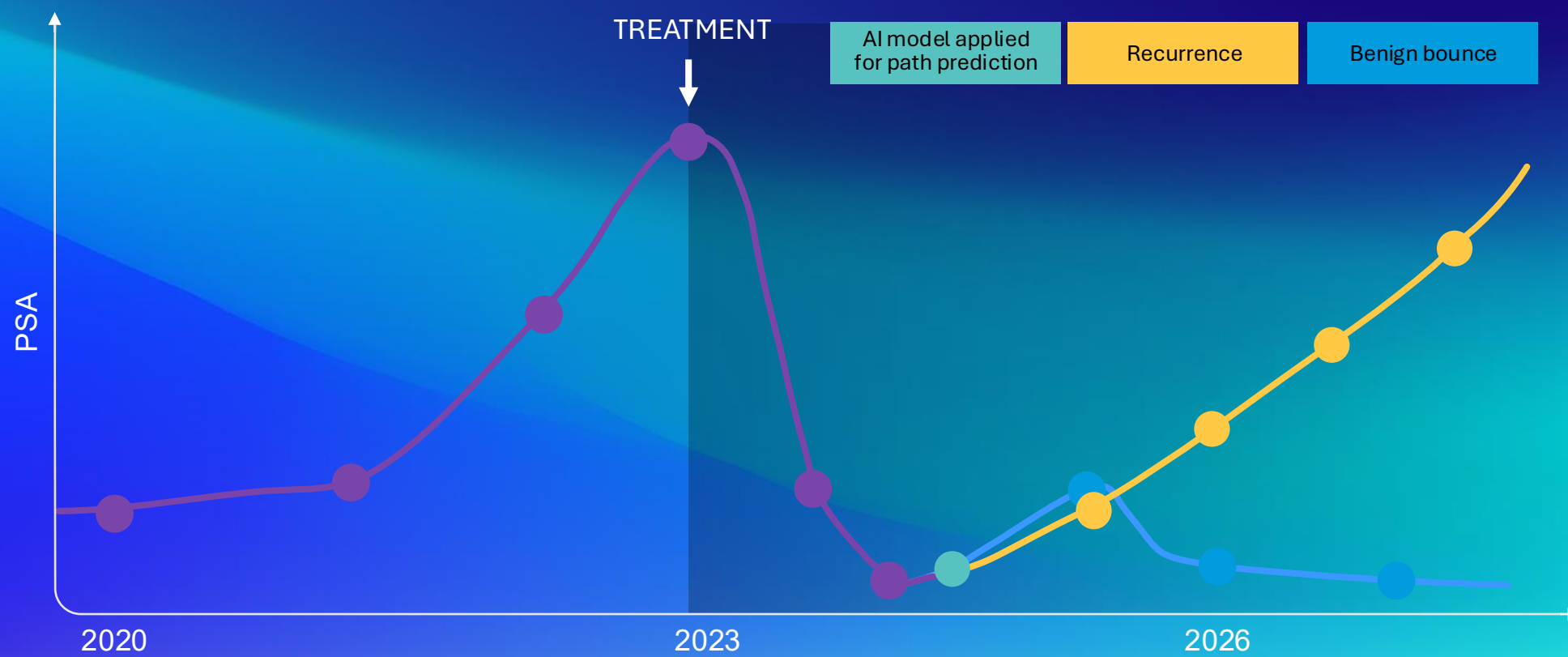
C-Reactive Protein (CRP)
3,436

Average time post-diagnosis
9.9 years

Platform Insights: What influences survival in patients diagnosed with glioblastoma



Improving prostate cancer follow-up care using AI to predict recurrence from rising PSA



Application to Oncology: Cancer screening tool

Exemplar for Mayo Clinic Platform discovery and validation capabilities



Can an AI screening tool detect cancer at the early, more treatable stage?



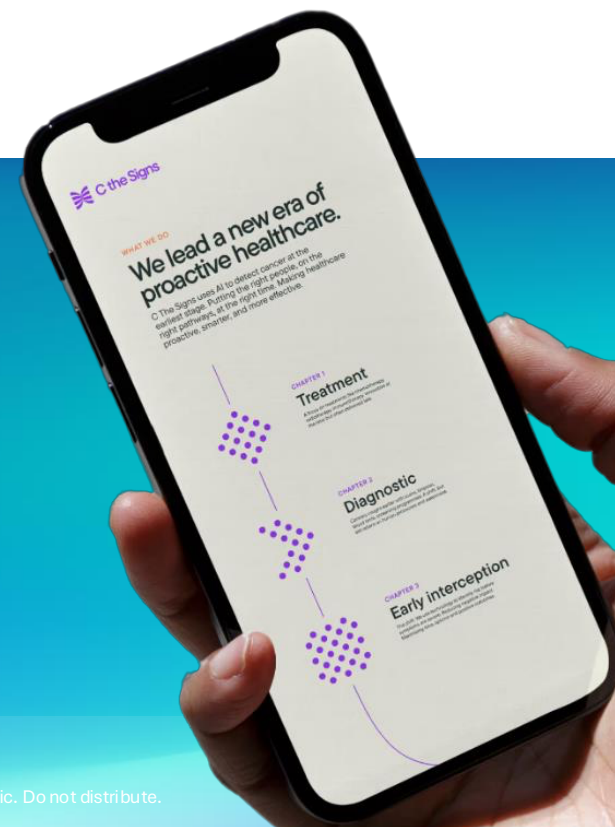
Democratize access to early cancer screening enabling rapid and accurate identification of patients who at higher risk.



30K

Patients with cancer identified

In 2024, C the Signs completed over 400,000 risk assessments, identifying **30,000 patients across 50 types of cancer.**



Turning Surgical Safety Markers Into Diagnostic Breakthroughs and Cures

Exemplar for Mayo Clinic Platform discovery and validation capabilities



Can multimodal data and machine learning pinpoint predictive insights from SSIs (surgical site infections)?



SSIs may serve as sentinel events signaling underlying systemic illness, particularly malignancy, well before clinical manifestation.

Unprecedented data integration positions Mayo Clinic to discover hidden patterns that could transform SSI prevention from reactive treatment to predictive intervention.



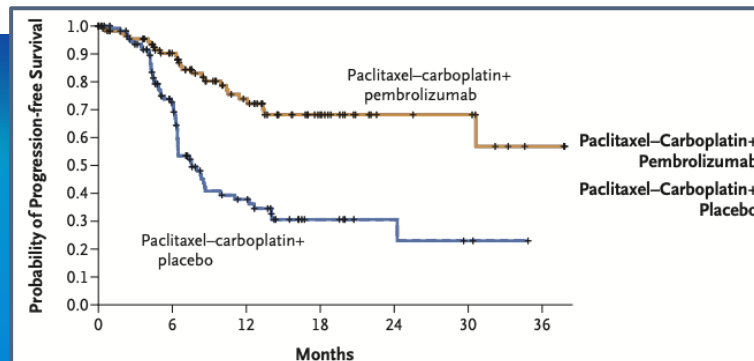
Synthetic Reconstruction of Landmark Clinical Trials

Exemplar: Reconstruction Phase 3 Pembrolizumab + Chemo trial

Endometrial Cancer: Using Mayo Clinic Platform data, a published Phase 3 randomized trial of pembrolizumab plus chemotherapy in advanced endometrial cancer (NEJM, 2023) was synthetically reconstructed by mirroring eligibility criteria, treatment arms, endpoints, and follow-up.

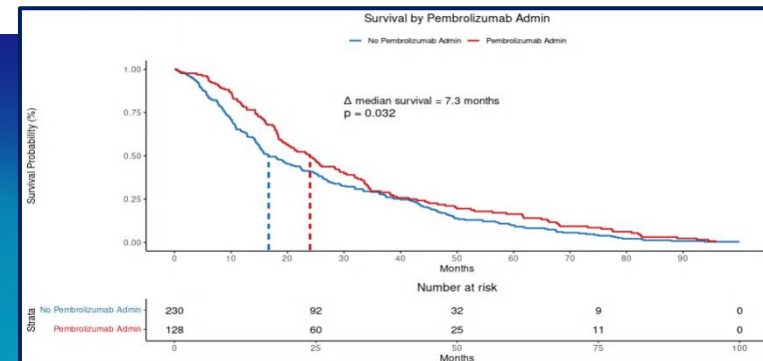
Independent Validation of Pivotal Trial Evidence

- Independent real-world reproduction of a landmark Phase 3 oncology trial
- Balanced synthetic cohorts (SMD < 0.1) preserved trial intent and comparability
- Survival benefit directionally consistent with NEJM results
- Platform enables scalable validation and contextualization of pivotal evidence



N=816, 1:1 split between arms

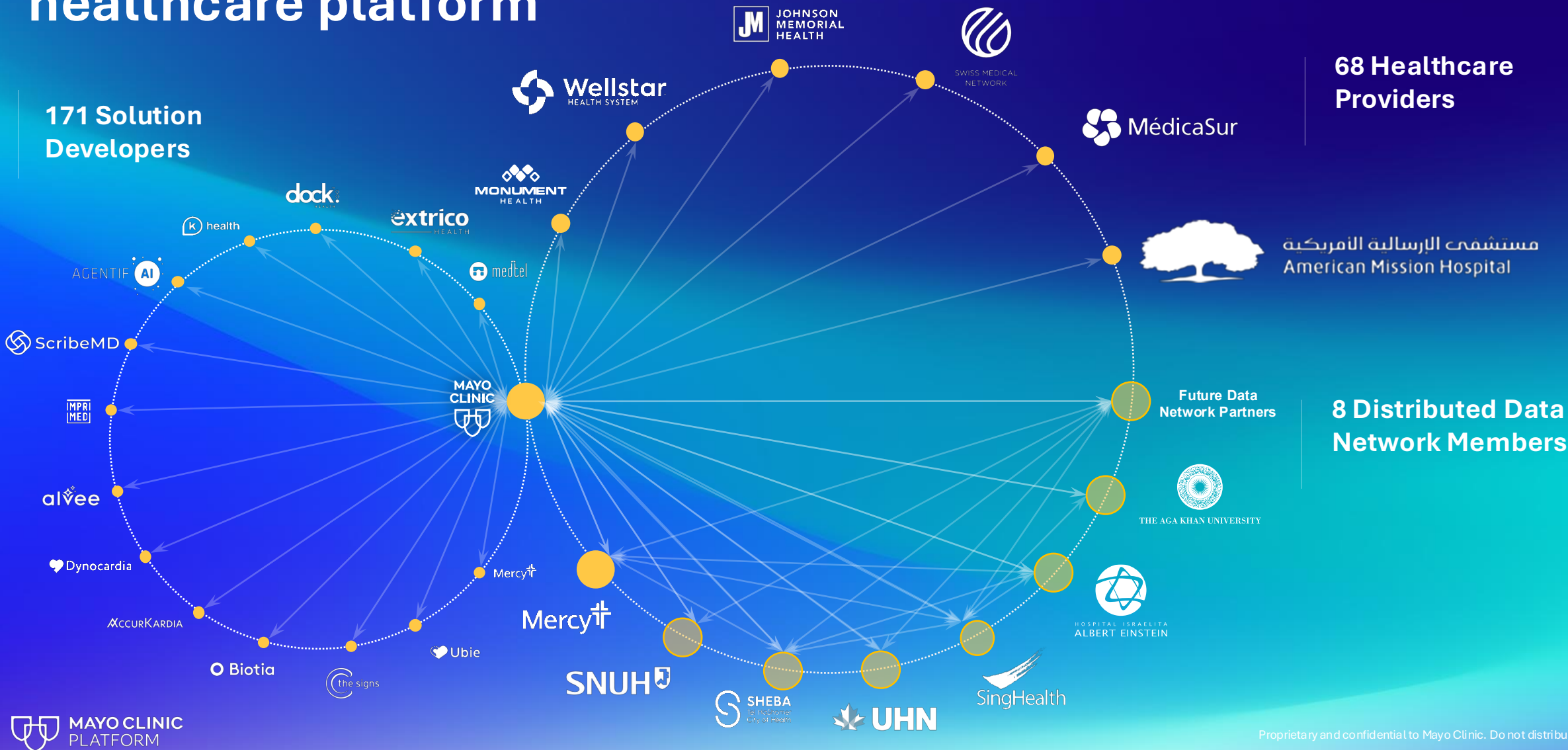
Original trial reported a 12-month progression-free survival benefit



N= 128 Paclitaxel-carboplatin + Pembrolizumab
N =228 Paclitaxel-Carboplatin excl. Pembrolizumab

Synthetic trial suggests an 8.7-month progression-free survival benefit

The first comprehensive healthcare platform





The future of
healthcare **is now**