

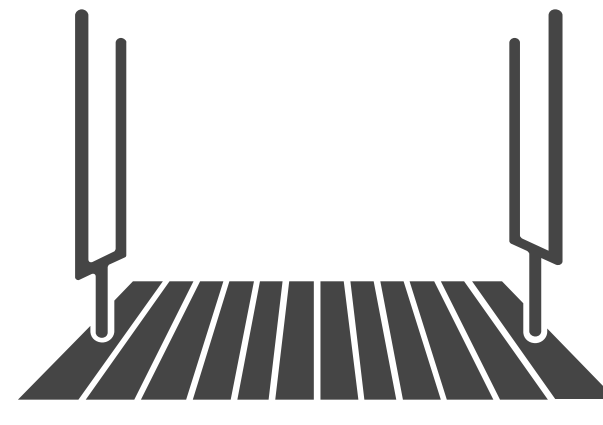
exploring how
**intervention
engine**
uses existing
healthcare data
to revolutionize
population
patient healthcare



Intervention Engine **provides clinicians with real-time population-driven tools** to improve patient care, interventions, and outcomes.

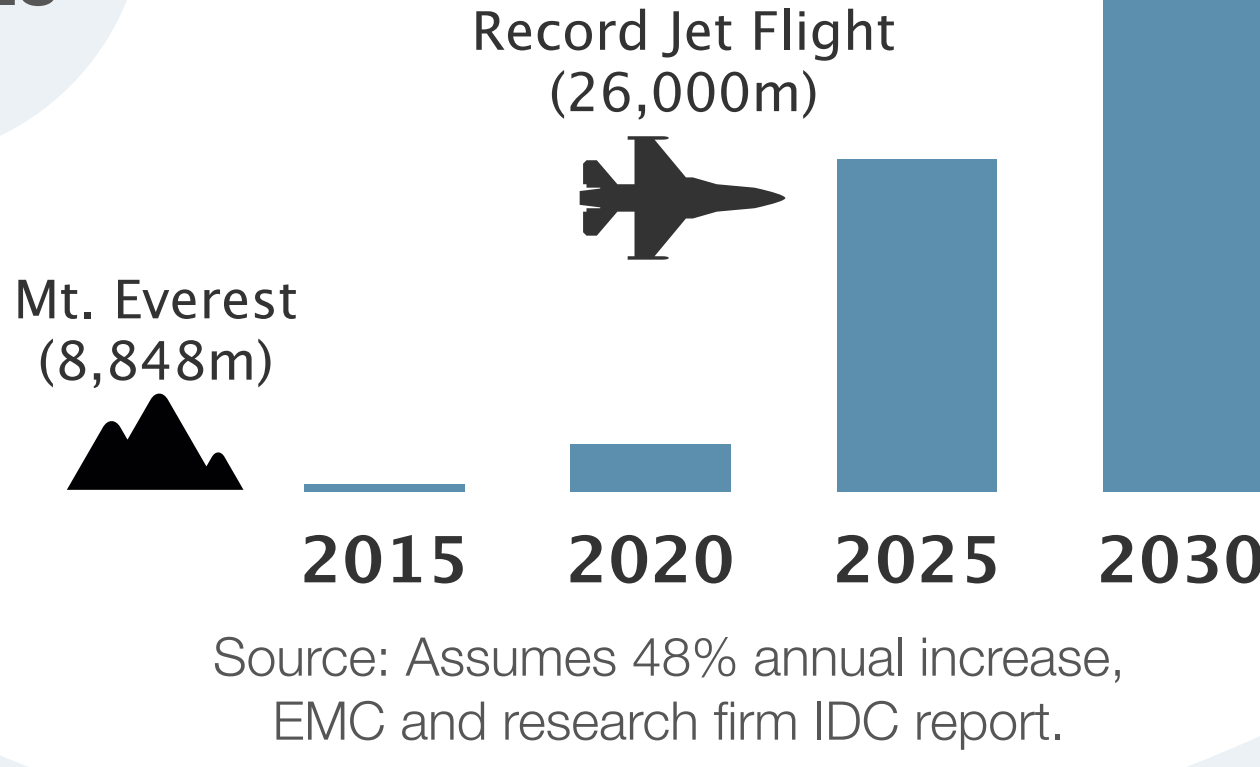
Intervention Engine **leverages the vastly increasing amount of U.S. healthcare data** collected, improving the quality of patient care.

How much healthcare
data is there in the U.S.?



Imagine a stack of iPad Air tablets spread across a football field. If each iPad holds 32 GB of U.S. health data, by 2030, the football field-sized stack of iPads would reach well into space.

335
EXOBYTES
IN 2015



How can we put
this archive of data to use?



Electronic **Clinical Quality Measures (CQMs)** were introduced as part of meaningful use requirements for the Medicare and Medicaid EHR Incentive Programs to **measure the quality of patient care**.

Eligible hospitals and healthcare professionals are incentivized to report a core set of CQMs to the federal government. These CQMs **focus on high-priority health conditions and best-practices for care delivery**.

Source: Centers for Medicare & Medicaid Services (CMS)



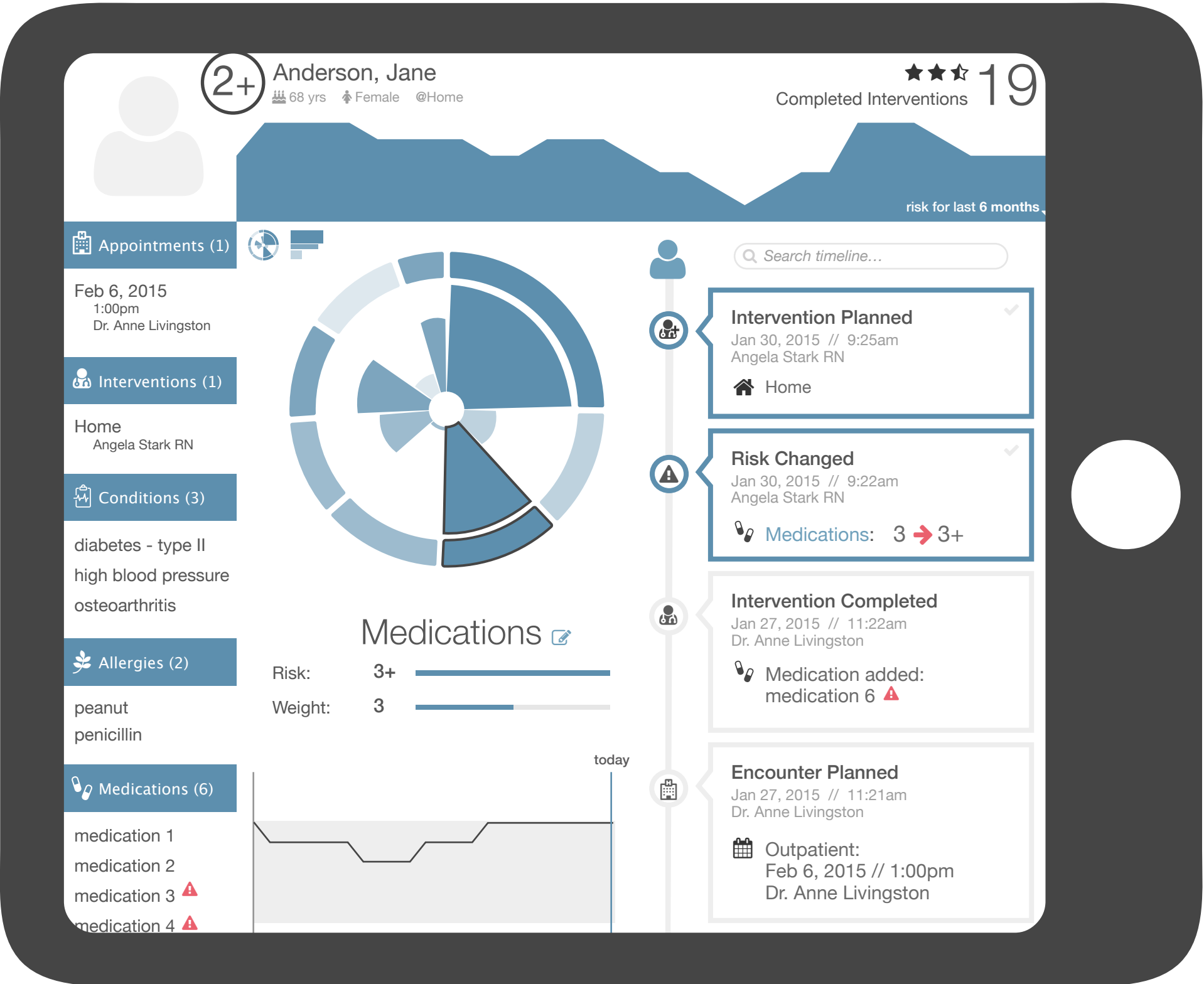
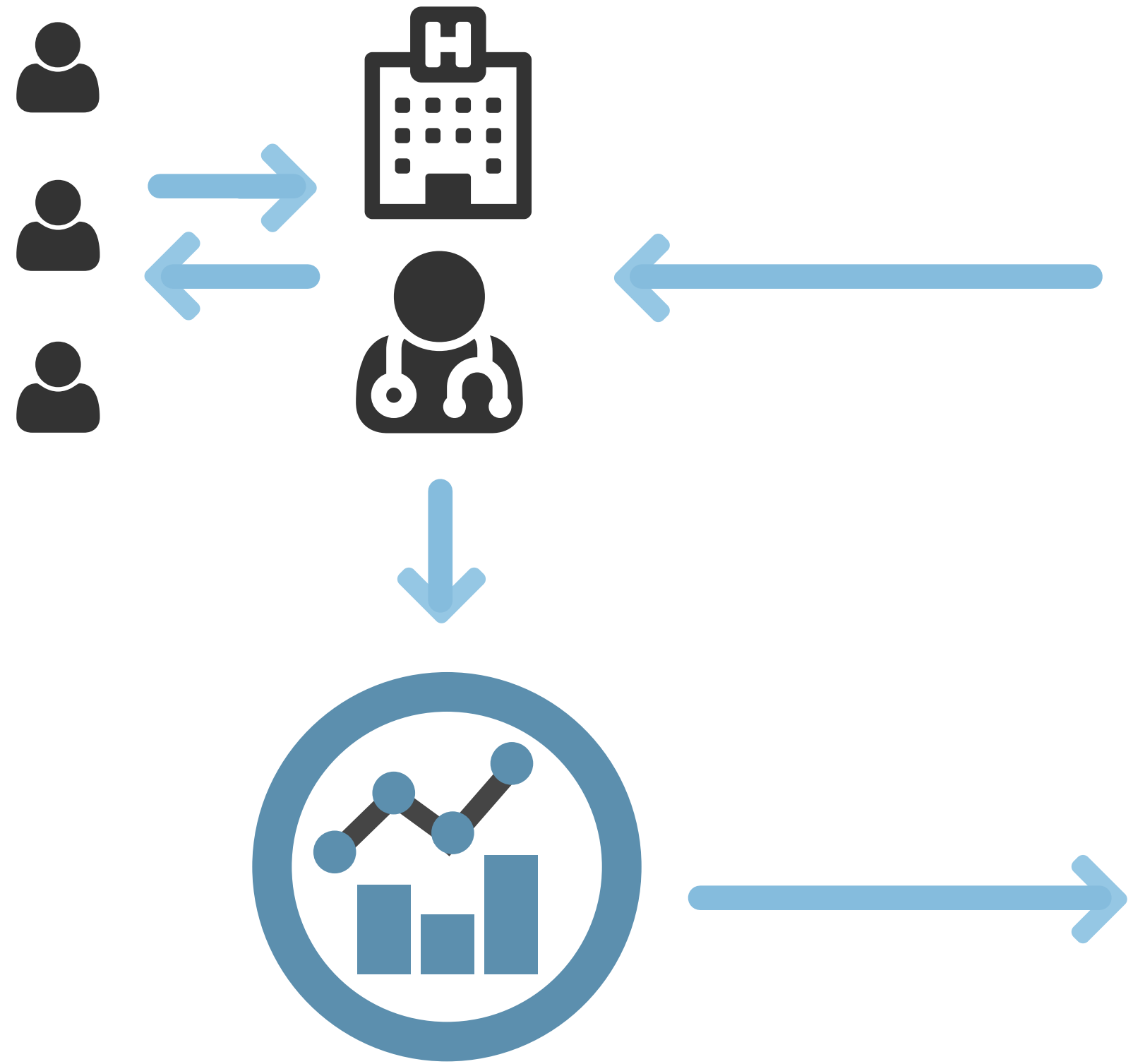
BENEFITS

- ✓ Encourages healthcare providers to focus on **quality over quantity of care**.
- ✓ Helps to ensure that our health care system is delivering **effective, safe, efficient, equitable, and timely care**.

DRAWBACKS

- ✗ Highly **complex** and extremely **selective** measures only apply to specific **limited populations**.
- ✗ Measures are **predetermined** and don't necessarily measure **patient outcomes**.
- ✗ Insights gained from these measures have **no direct feedback loop back to the providers and patients**.

interventionengine



Bridges the gap between patient data and the patient by providing real-time data-supported tools to positively impact population health.

How can
we do better?

- ← Let providers **create their own measurements and risk assessment models** from their own data.

How can
Intervention Engine improve
population patient healthcare?

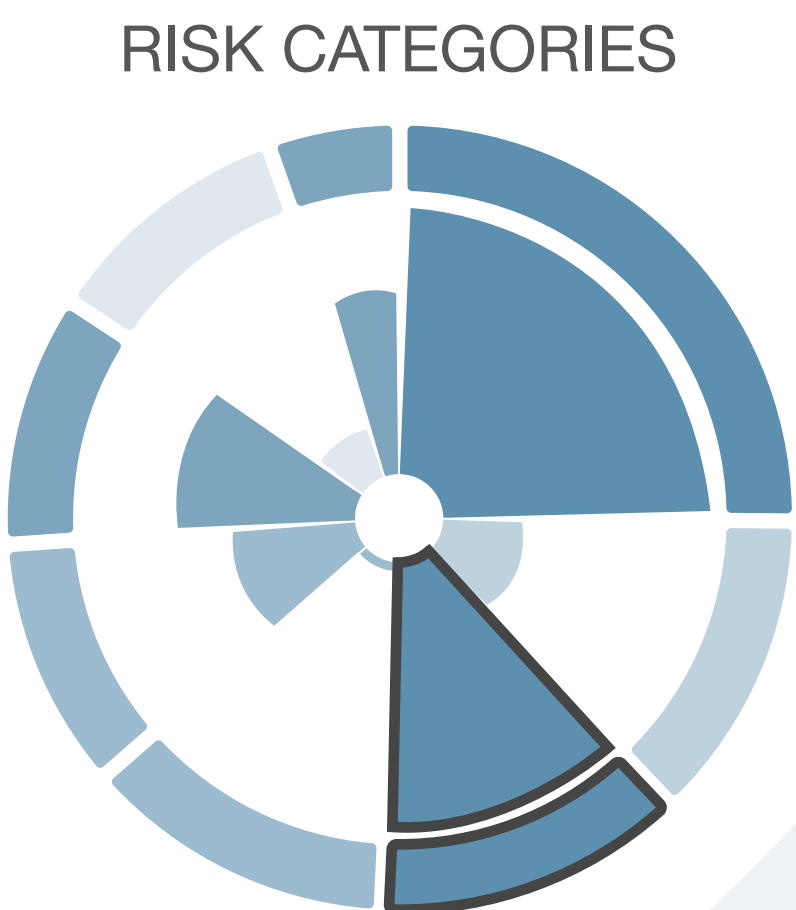
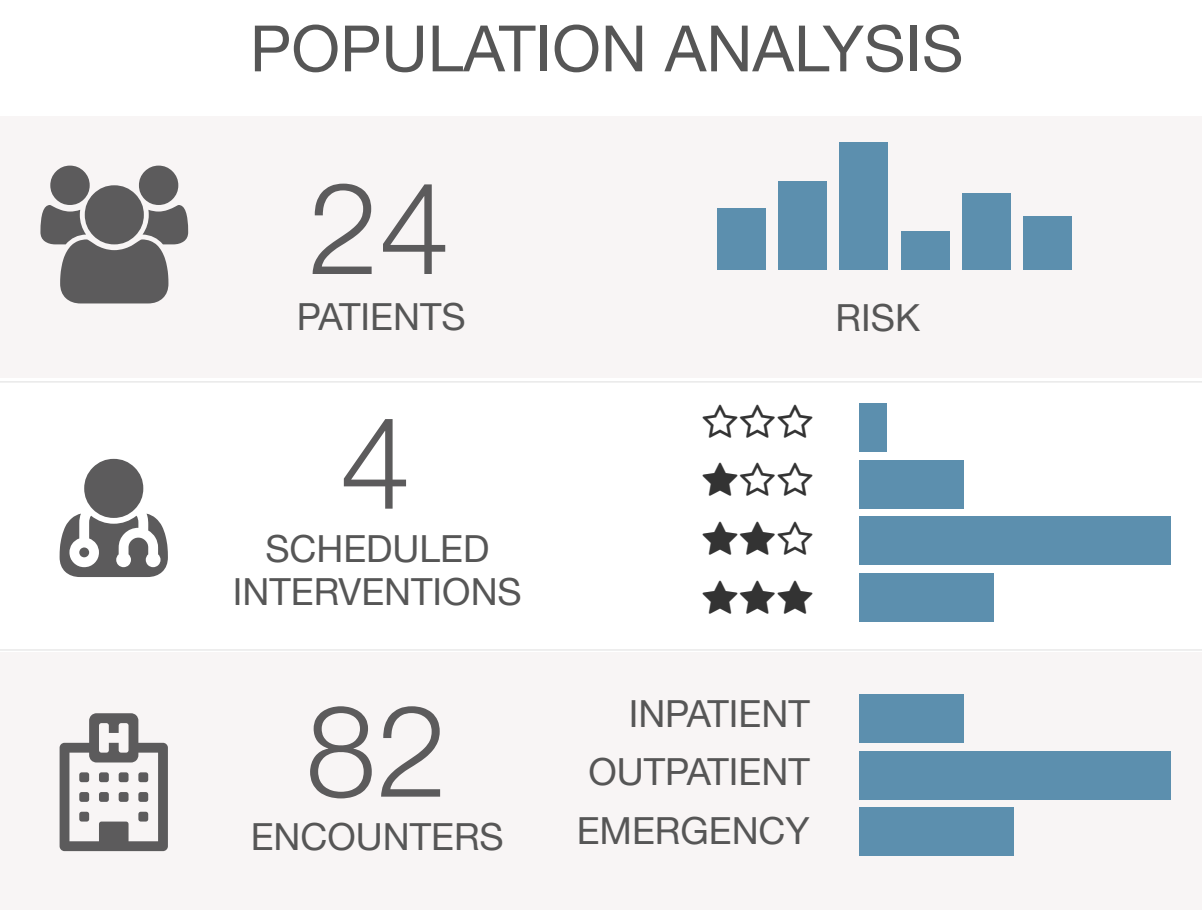


**Provider-Built
Population Measures**

Analyzing populations of patients specific to a provider allows more informed clinical decisions and interventions which lead to better directed population health.

**Data-Supported
Risk Assessment Models**

Providing risk assessment tools supported by patient health data allows providers to better track and treat their populations of patients.



[Intervention Engine] will allow the individual caregiver to efficiently use evidence-based medicine to improve care at reduced cost.

~ Dr. Dana Frank, Chair, Department of Medicine MedStar Good Samaritan Hospital / Union Memorial Hospital



Some might think of Intervention Engine as a tool for “the Health System of Tomorrow.” It is not. It is a game changer. It is a tool that we all needed yesterday. We can’t afford to fall any further behind in caring for our patients on the population level.

~ Dr. Joey Nichols, Director of Scholarship and Discovery - MedStar

Learn more at
www.interventionengine.org
an open source project

Developed by The **MITRE** Corporation

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