

Poll Question #1

Which AI solutions have you deployed in your organization? (select all that apply)

- Machine Learning and Deep Learning (Predictive & Prescriptive Analytics)
- Natural Language Processing (NLP) / Natural Language Generation (NLG)
- Gen Al / LLMs Ambient Listening / Ambient Scribes
- Agentic AI / AI Agents (Process & Workflow Automation)
- None of the above

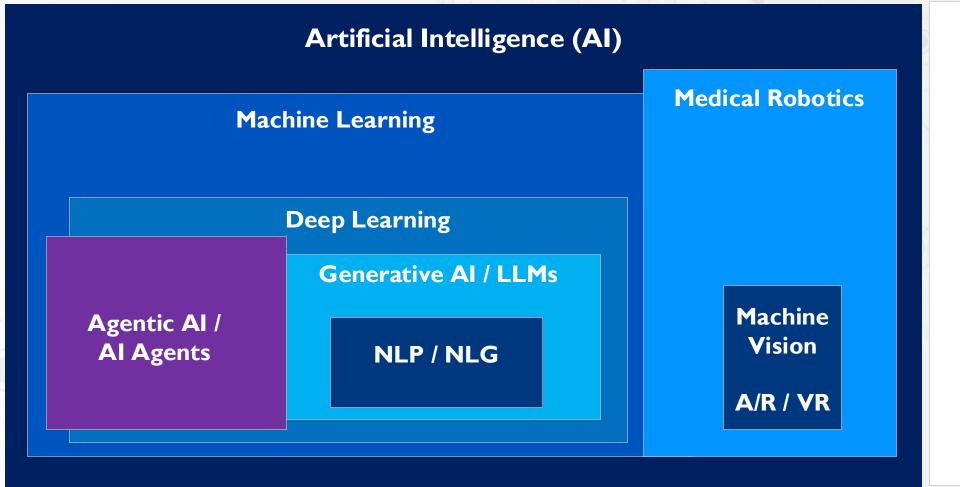
"Healthcare has often been accused of NOT delivering on product and service quality improvements despite significant adoption of new technologies"

Al is the platform that will help healthcare deliver a higher quality of care at a lower cost."

-Wright Lassiter III, CEO of Common Spirit (Closing Keynote Fireside Chat at AMGA 2025)

A Portfolio Management Approach to Al





Key considerations

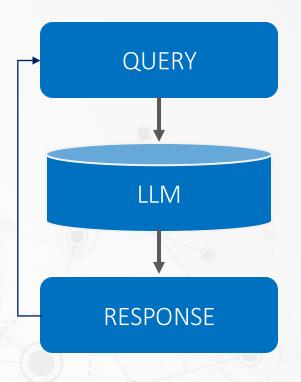
- Al automation potential to enable higher efficiencies and productivity
- Use cases with the highest value and ROI
- Al core competencies "Build vs. Buy"
- 4. Risk-based approach transparency vs. black box
- Governance, oversight,Al ethics and compliance

For additional details, please check out: 'Operationalizing AI for Healthcare: The Portfolio Management Approach', Andy De in the Lightbeam Health Blog, March 2025

Despite dis-proportionate investments and hype, why have Gen AI/LLMs not delivered measurable value and ROI?



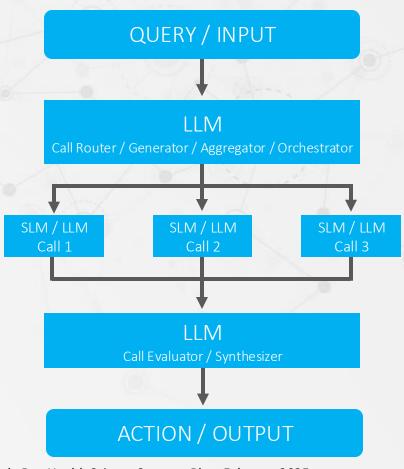
Generative AI / LLMs



Significant challenges with Gen AI / LLMs:

- 1. Hallucinations
- 2. Al Bias
- 3. Non-Determinism
- 4. Security Issues & Al Manipulations / Hacks aka "Al Grooming"
- 5. Copyright Infringement
- 6. Limited Use Cases and Applications

Agentic Al / Al Agents



For additional details, please check out: 'Why Agentic AI will prevail and subsume Gen AI/ LLMs in Healthcare', by Andy De, Health Science Strategy Blog, February 2025

Poll Question #2

Have you measured ROI from your AI implementations, and if so, what was the outcome? (select one)

- Positive, quantifiable ROI
- Breakeven on Al investments
- Negative or no ROI
- Deployed but not measured our ROI on AI

Gen AI Tools rolled out by the FDA, hallucinates and makes up non-existent studies!



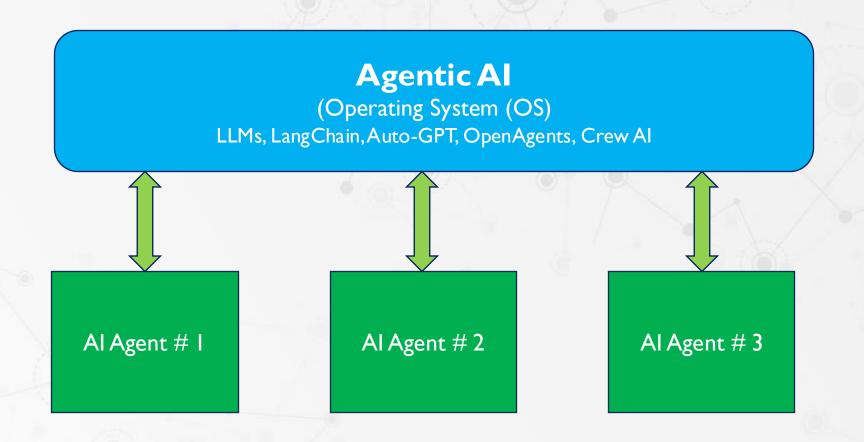
FDA NEWS RELEASE

FDA Announces Completion of First AI-Assisted Scientific Review Pilot and Aggressive Agency-Wide AI Rollout Timeline

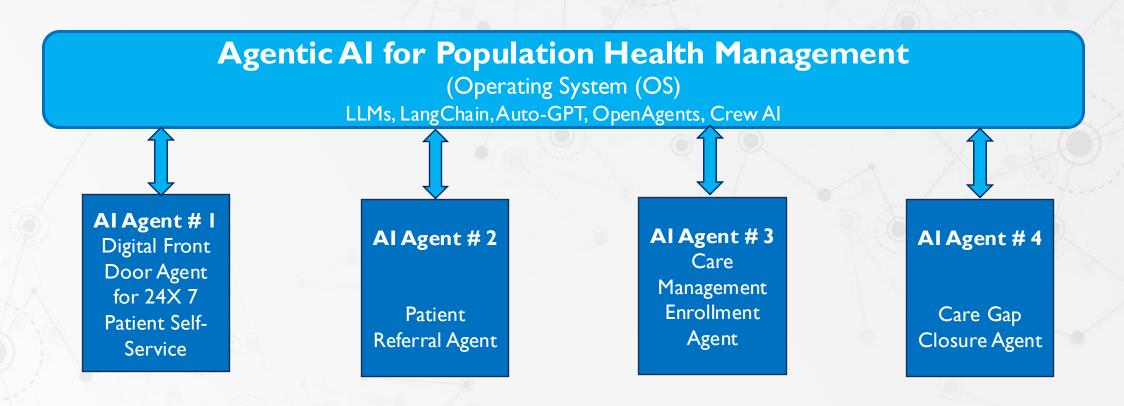
FDA'S AI TOOLS FAIL BASIC TESTS WHILE COMMISSIONER RUSHES ROLLOUT



Difference between Agentic Al and Al Agents



Agentic AI and AI Agents for Population Health Management



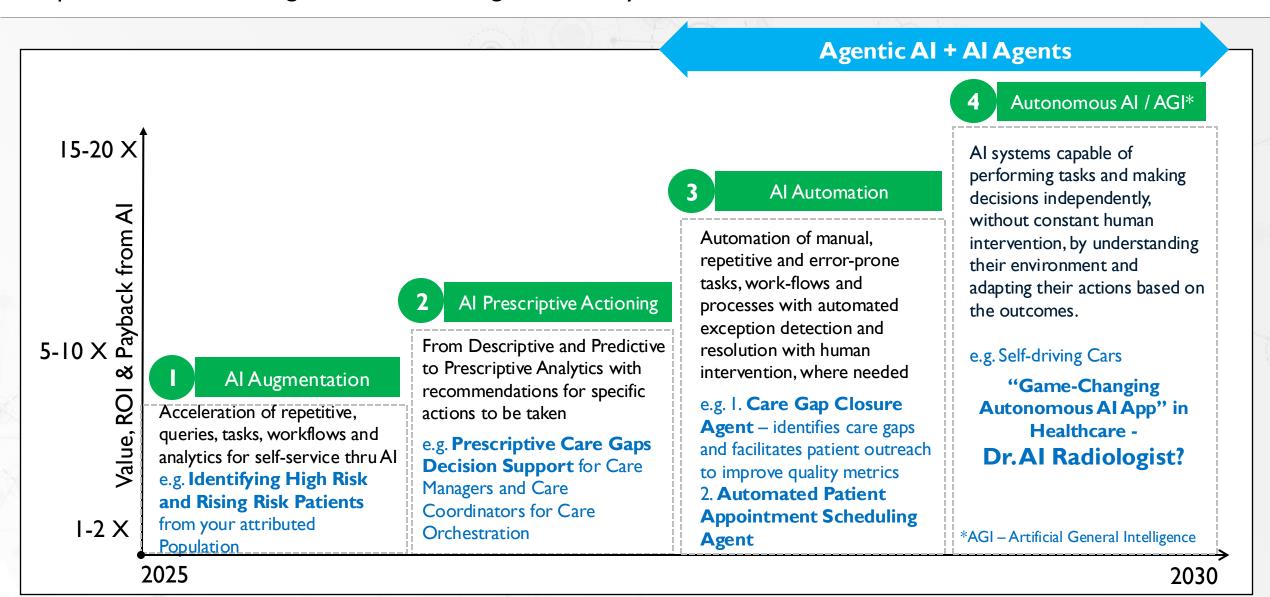
"We have deployed Ambient Listening to over 20,000 physicians at Kaiser Permanente - the largest deployment in North America".

"Al cannot be "pushed out" to clinicians or nurses.
We have tried that in the past and it has failed!
"Pull" from our physicians & nurses is the key to driving
Al & Tech adoption at scale."

- Dr. Maria Ansari, CEO & Executive Director of the Permanente Medical Group (Closing Keynote Fireside Chat at AMGA 2025)

A 4 stage Al Innovation / Adoption Maturity Cycle Population Health Management/Care Management Lifecycle

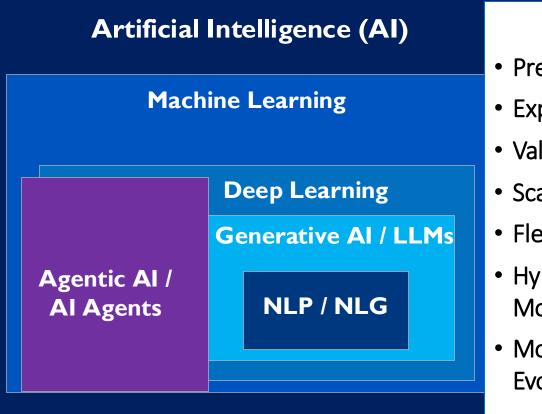




Lightbeam Al Innovation



A Portfolio Management Approach to Lightbeam Artificial Intelligence (LBAI) for Pop Health Management



LB Al is:

- Prescriptive
- Explainable
- Validated
- Scalable
- Flexible
- Hybrid & Multi-Modal
- Modular & Evolving

Lightbeam's proven Al innovation empowers healthcare organizations with prescriptive insights, automated workflows, and sense-and-respond capabilities to enable superior patient outcomes at lower caregiver fatigue and cost of care through a portfolio management approach to Al innovation.

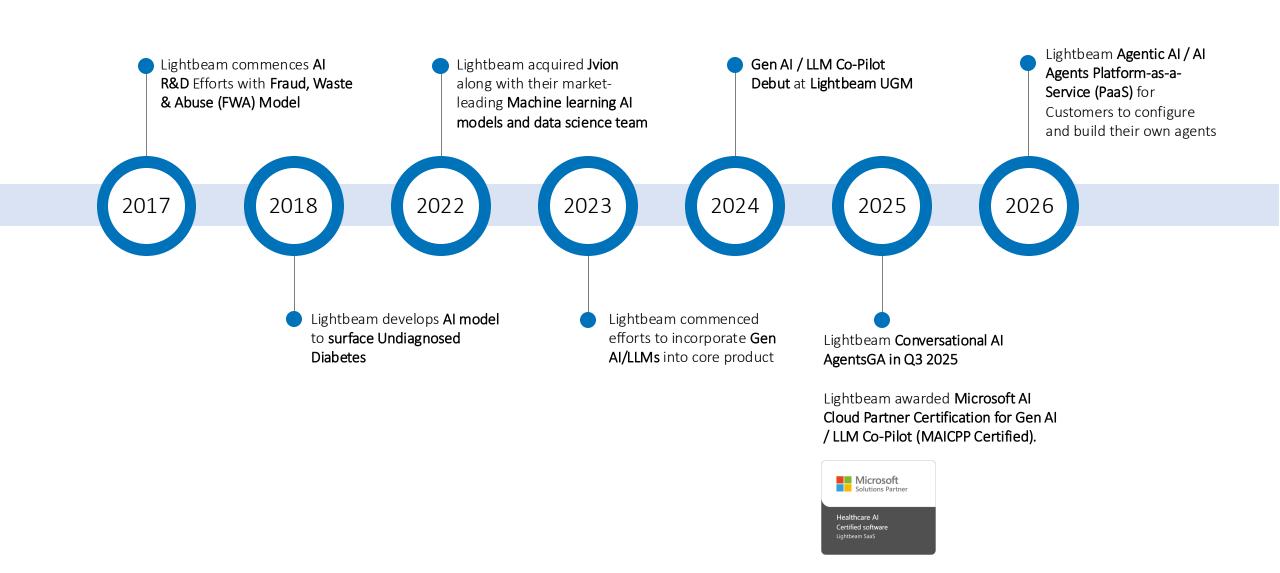
Lightbeam's portfolio management approach comprises ML, NLP/ NLG, deep learning, Gen AI / LLMs, and agentic AI/AI agents--targeted to enable hybrid, multi-modal AI solutions that are designed, validated, and delivered to maximize value, ROI, and payback for our clients

Lightbeam AI (LBAI) is a clinically validated AI platform and solutions suite which predicts, prescribes, and helps prevent avoidable adverse outcomes across a wide range of healthcare use cases. LBAI enables **better care decisions by identifying who is at risk, why they are at risk, and what you can do about it.**

Lightbeam Al Innovation and Roadmap for Population Health Management

Lightbeam Al Timeline & Rodmap: Innovative & Secure

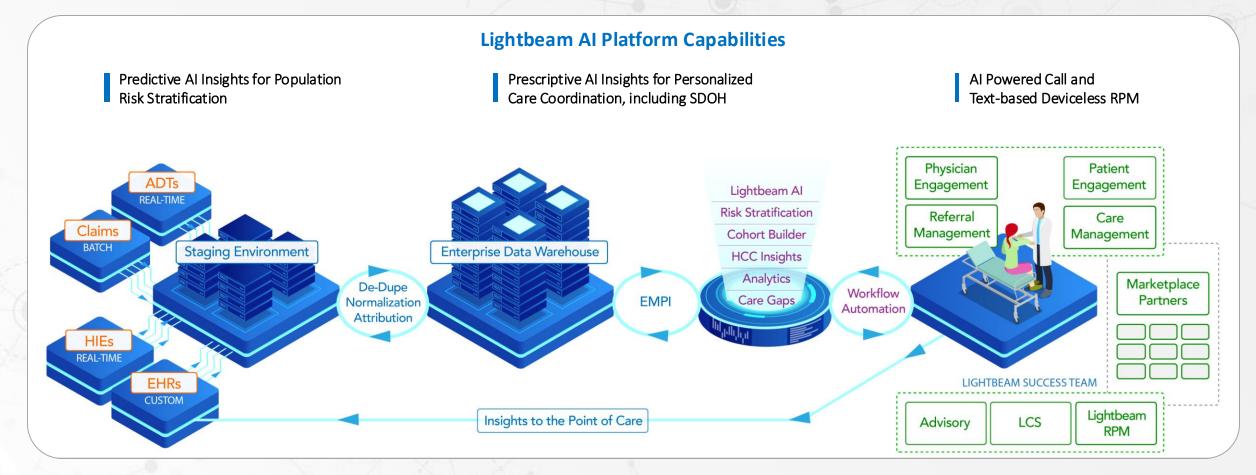




Award-Winning Al Platform & Capabilities



Lightbeam's AI enhanced solutions empower healthcare organizations with prescriptive insights, automated workflows, and sense and respond capabilities, to enable superior patient outcomes at lower caregiver fatigue & cost of care.



Do you really know your members?



Why do patients with the same diagnosis have different outcomes? Diabetes Depression

According to the National Institute of Medicine, for patients with similar disease burdens 80% of the variability in clinical outcomes is driven by non-clinical factors.



Non-Clinical Data Sources Aggregated & Analyzed









Transportation







Access

Behavioral



US Census Bureau

Includes American Community Survey.



Environmental Protection Agency



Federal Bureau of Investigation (FBI)



US Department of Agriculture



Centers for Disease Control and Prevention



Federal Emergency Management Agency (FEMA)



U.S. Department of Housing & Urban Development



National Provider Identifier

and PLACES data.



U.S. Department of **Transportation**



U.S. Department of Health and Human Services



National Oceanic and **Atmospheric Administration**



National Interagency Fire Center (NIFC)

3rd Party Data Sources Aggregated & Analyzed

















Product Propensity

Purchasing history and likelihood to use certain products. Includes elements derived from actual purchases and self-reported survey.



Rx Propensity

Filled location and propensity to prefer to fill. Also defines likelihood to inquire about prescription medication.



Occupational Detail

Details of the individual's occupation, aggregate of the overall.



Family Ties

Household characteristics about the individuals in the household including life associated milestones.



Digital Fluency & Relationship

Indicates the use of computers or software in the household, data about the household's phone behaviors and internet connection.



Health Interest

Derived from purchases and self-reported sourced. Includes common health-related household data such as allergies, diabetic focus, and arthritis needs.



Purchasing Propensity & Interest

Interest elements are derived from actual purchases and self-reported surveys (not time sensitive).



Vehicle Detail

Vehicle purchase and ownership data from dealer services and self-reported sources.



Homeowner Detail

Includes home-related events such as a recent home purchase or refinance. Data is from self-reported sources and public records.



Media Usage Propensity

Predictive models that indicate consumer's preference for various media channels, as well as health-related search engine propensity.



Stages of Life Characteristics

Identifies life-stage based on household level segmentation based on specific consumer behavior and demographic characteristics.



Household characteristics

Includes demographical information about the individual and household.

Lightbeam Insights Al



Avoidable Admissions

 Predicts avoidable admissions within the next 30, 60, 90 days

Avoidable ED

 Predicts which members are at highest risk for avoidable ED visit in the next 30, 60, 90 days

Avoidable Readmissions

 Predicts which members are at highest risk for avoidable ED visit in the next 30, 60, 90 days

End of Life Support

- Identified Mortality Risk within a given timeframe (3 to 18 months)
- Timely transition to palliative/hospice

Engageability Index

 Reflects each member's willingness and ability to (or lack thereof) to engage in their own healthcare

Individual SDoH

 Non-clinical risk factors for individual members, identifying who is at highest risk and why

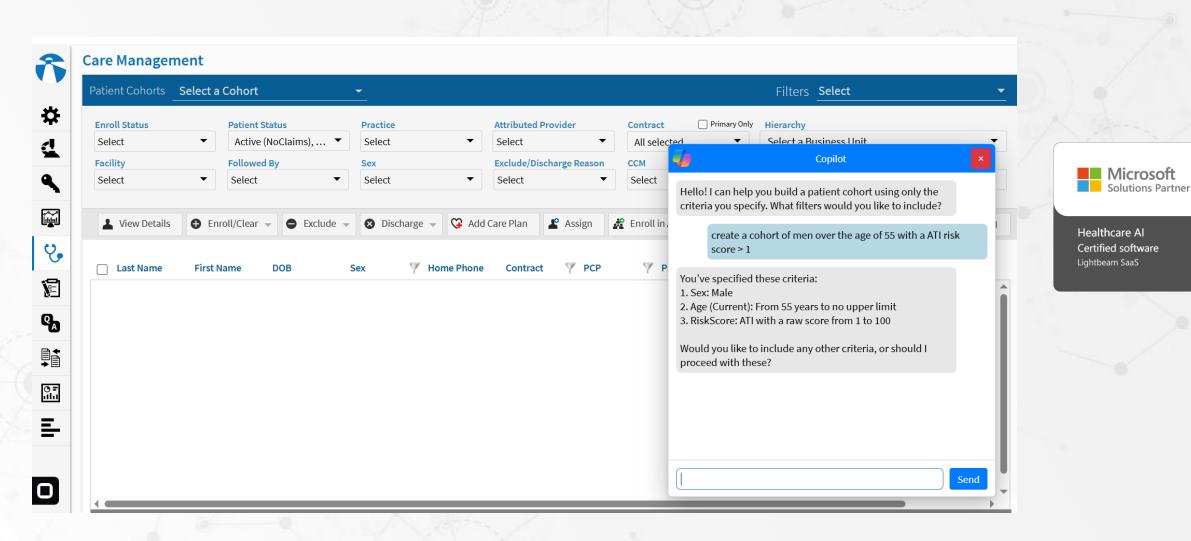
Community SDoH

- Race, ethnicity, access to care, poverty, transportation/walkability, insurance coverage, access to healthy foods, environmental conditions
- Dual Eligibility Identification
- HCC Suspecting

Al In Action – Cohort Copilot



Al Driven Cohort Creation

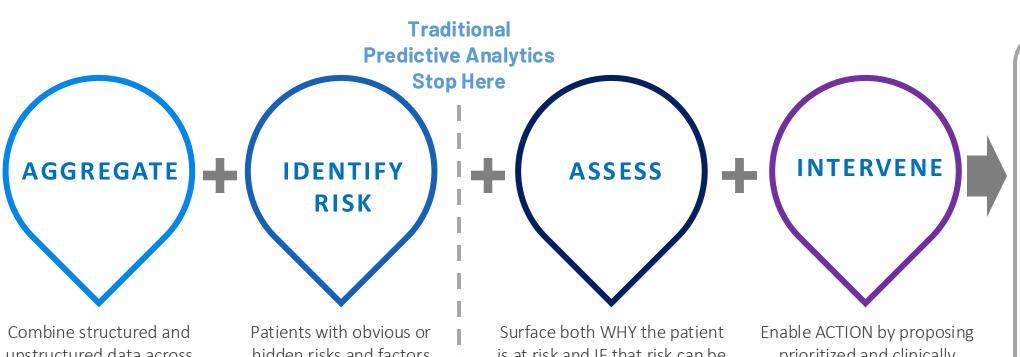


Don't Just Identify Risk - Eliminate It



Uncovering both obvious and hidden risks, targeting impactability, and the actions that matter

Lightbeam AI Identifies Which Patients are at Risk, Why, and How to Intervene



unstructured data across the enterprise

hidden risks and factors that put them on an accelerated path to a poor outcome

is at risk and IF that risk can be changed - prioritizing those that are modifiable in terms of health improvement and cost avoidance

prioritized and clinically validated interventions that can best change patient outcomes

Clinical & **Financial Results**

Reduction in Readmissions

Reduce Care Manager Call Time

Identify More Avoidable **Utilization Events** than EHRs

Cost Savings

Lightbeam Actions AI – Voice Agents



- Status-quo: a team of engagement specialists making outreaches based on a script
- Using voice agent: natural language outreach with consistent patient & empathy (but still based on a script to ensure compliance)
- Brings scalability and ability to always target optimal call hours (e.g., for commercial patients, it's right before dinner time)
- Conversion Rates (CR) for picked up calls show that the enrollment agent performs on-par with our engagement specialists, at time even surpassing

	Average Conversion Rate	Conversion vs. Human	Highest Conversion Day
Human	53.1%	-	63.8%
V1 Prototype	34.5%	65%	46.7%
Live Agent	52.8%	99%	64.3%





Gaps in Care Agent

Automatically outreach to patients with care gaps identified by your Lightbeam cohorts, faciliate scheduling using natural language interactions.

Launch Demo

Gaps in Care Demo

2025 Lightbeam Al Innovation Roadmap

Al Insights + Al Actions = Superior Outcomes

GA Availability end of Q2 2025

Predictive Algorithms / Models (M/L) for Population Risk Stratification:

- Avoidable Admissions
- 2. Avoidable Re-admissions
- 3. Avoidable ED Visits
- 4. Ambulatory Re-admissions
- 5. Outpatient All-Cause Readmission
- 6. End of Life Support
- 7. HCC Suspecting
- 8. Engageability
- 9. Dual Eligibility Identification
- 10. Individual SDOH
- 11. Community SDOH
- 12. Care Orchestration integrated with LB DRPM

Q3 2025

Agentic AI / AI Agents and Curated Gen AI / LLMs enabled AI Actioning for Tasks / Workflow / Process Automation

- Cohort Co-Pilot certified by Microsoft
- 2. Conversational Al Agent within LB DRM for Patient Enrollment
- 3. Conversation Al Agent for Care Gap Closure
- 4. Enhanced HCC Suspecting incl. Clinical Data

Conversational Al Agent
 (Post-Discharge) with tighter

O4 2025

- 2. Ambient Listening for Care Management Summary
- 3. Analytics Copilot

integration

Al Augmentation for Actionable (Predictive + Prescriptive) Insights

Lightbeam Al Innovation in Action – Customer Success Stories Articulating Measurable Value & Outcomes

Overview



An Arizona-based integrated delivery network (IDN), sought to increase the impact of the care team, reduce avoidable admissions, and achieve cost savings



Goals

- Reduce avoidable admissions among high-risk Medicaid plan members
- Improve care coordination
- Increase care team effectiveness and efficiency

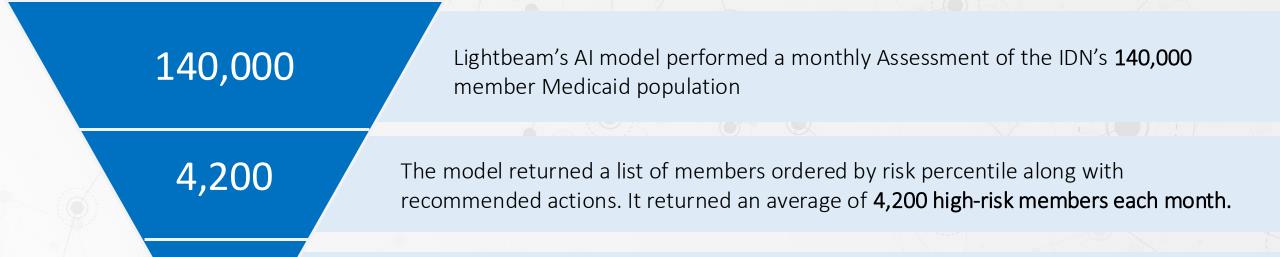
Solution

- Deploy Lightbeam AI's 30-day Avoidable Admission model to proactively identify high-risk members at risk of an avoidable admission within the next 30 days
- Use patient-specific recommended interventions to efficiently address patient needs

Risk Stratification & Intervention Workflow

150





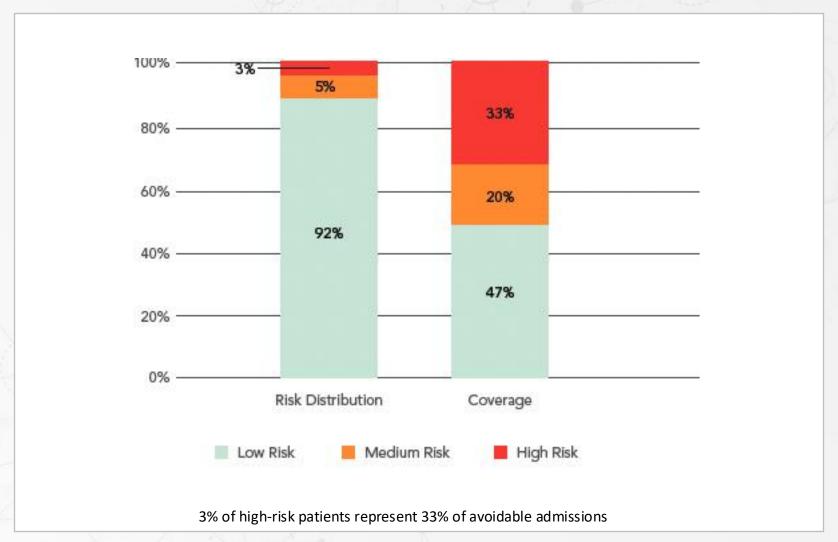
The IDN's care managers outreached to members and recorded progress. They

intervened with an average of 150 members each month.

AA Model Performance



Avoidable Admission Model Performance for June 2024



Value and Impact



IP30 Admits (Intervened)	IP30 Admits (Control)			Estimated Cost Avoided
85	150	65	\$9,800	\$637,000

	High Risk Patients	IP30 Admit Events	30-Day Admit Rate	Admit Rate Difference	Relative Reduction
Intervention Group	1226	85	6.9%	-5.3%	43.3%
1:1 Matched Control Group	1226	150	12.2%		

"Al will deliver value by unburdening clinicians and empowering them to focus on caring for their patients which is what they do best."

"Trust is key to the adoption of Al at scale.

Al will be deployed at the speed of Trust!"

- Stephen Jones, MD, CEO of Inova and Immediate Past Chair of the Board, AMGA
(Closing Keynote Fireside Chat at AMGA 2025)



Q&A

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Thank you