



MedēAnalytics[®]
Power Clarity. Unleash Performance.

Realizing the full potential of social risk data

How integrated social risk data uncovers millions in hidden value and drives 3:1 ROI through targeted interventions



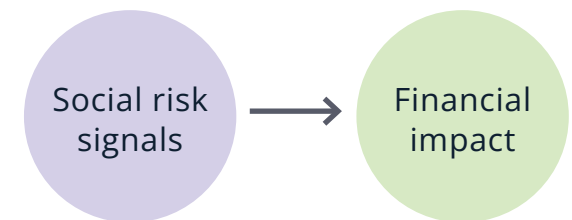


Introduction

Payers face increasing pressure to improve outcomes, control total cost of care, and succeed under value-based contracts.

While social determinants of health (SDOH) are widely recognized as major cost drivers, most payers lack the integrated analytics infrastructure to identify social risk, quantify its financial effect, and demonstrate return on investment (ROI) of social risk interventions.

The transformation comes when social risk is seen as not just a compliance initiative, but a financial lever that when quantified and validated results in direct financial performance improvement.



The hidden drivers of cost and outcomes

If payers rely solely on clinical data to assess performance, they overlook social risk factors that significantly drive member health outcomes, utilization, adherence, and avoidable spend. These factors, including housing stability, food access, transportation reliability, financial strain, health literacy, and social isolation, create persistent challenges:



Members with similar clinical profiles generate dramatically different costs



High-risk members are often identified only after avoidable utilization occurs



Social programs lack credible financial signals to guide prioritization



SDOH initiatives remain episodic rather than strategically integrated

When social risk is embedded into analytic workflows, cost variation becomes explainable, risk stratification improves, and intervention planning shifts from broad pilots to targeted, evidence-informed action.





Closing the social risk data gap

Payers struggle to integrate social risk data into their analytics systems because it is often siloed, fragmented, and locked in unstructured formats. Fewer than 38% of payers have the automation capabilities required to extract and map SDOH data from their electronic health records (EHRs).

Additionally, payers dedicate 10% or more of administrative spend to care management, but fragmented data makes it difficult to allocate their resources with precision. Despite significant investment in care management programs and point solutions, often five or more vendors per organization, payers have historically lacked a reliable, long-term method to validate intervention outcomes.

<38%

of payers have automated extraction and mapping of SDOH data from their EHRs

>10%

of payer administrative spend is dedicated to care management

Operationalizing social risk at scale requires an integrated analytics and data management framework built on three core capabilities:

1. **Social risk identification:** Granular, member-level measurement across multiple domains
2. **Data unification and stratification:** Real-time integration of social, clinical, and claims data to enable more precise risk segmentation
3. **Validation and measurement:** Actuarially sound methodologies to assess baseline performance and longitudinal impact

These capabilities create the infrastructure required to establish a unified member view, identify and predict emerging risks earlier, allocate resources with precision, prioritize highest ROI opportunities, and measure sustained clinical and financial performance. While this model outlines what is required to leverage social risk data to improve financial and clinical performance, a scalable, validated solution has not existed — until now.

MedeAnalytics partnered with **Socially Determined** and **Mathematica** to develop **Social Risk Insights Measures & Outcomes**, an enterprise-ready framework for identifying, stratifying, addressing, and measuring the financial and clinical effects of social risk.



A partnership built for measurable results



Technology, integration, and scale

MedeAnalytics' AI-powered Enterprise Healthcare Data Management Platform built on Health Fabric™—our intelligent, AI-native data fabric—unifies clinical, claims, and social risk data, into one trusted, governed source of truth, enabling:

- Enterprise integration of social risk into core analytics
- Population stratification using combined clinical & social indicators
- Closed-loop measurement of interventions and outcomes
- Scalable deployment across lines of business

Social risk intelligence

Socially Determined's SocialScape® platform provides:

- Over 500 unique social risk data elements
- Individual and community-level SDOH scores
- Coverage across five core domains: housing, food, transportation, financial strain, and health literacy
- Identification of hidden and stacked risks missed by traditional models

Actuarial validation and ROI modeling

Mathematica ensures credibility through:

- Independent extraction and modeling of medical and pharmacy data
- Establishment of baseline performance and comparative outcome analysis
- Financial impact modeling suitable for rate filing, budgeting, and value-based care reporting

Social Risk Insights Measures & Outcomes is powered by a partnership designed for scale, credibility, and financial impact. This partnership transforms social risk data into measurable performance improvement through integrated insight, independent validation, and enterprise-scale deployment.

What the solution delivers

Social Risk Insights Measures & Outcomes quantifies clinical and financial impact of social risk interventions, moving beyond insight to measurable performance improvement.

Payers can:

- Identify high-risk members traditional analytics miss
- Understand cost variation across similar clinical cohorts
- Prioritize interventions with the greatest ROI potential
- Validate outcomes with actuarial rigor
- Scale proven programs across populations
- Increase precision and impact of interventions

Key benefits:

Quantified ROI

Actuarially validated savings and reduced utilization

Quality performance

Improved Stars, HEDIS, and engagement measures

Precision investment

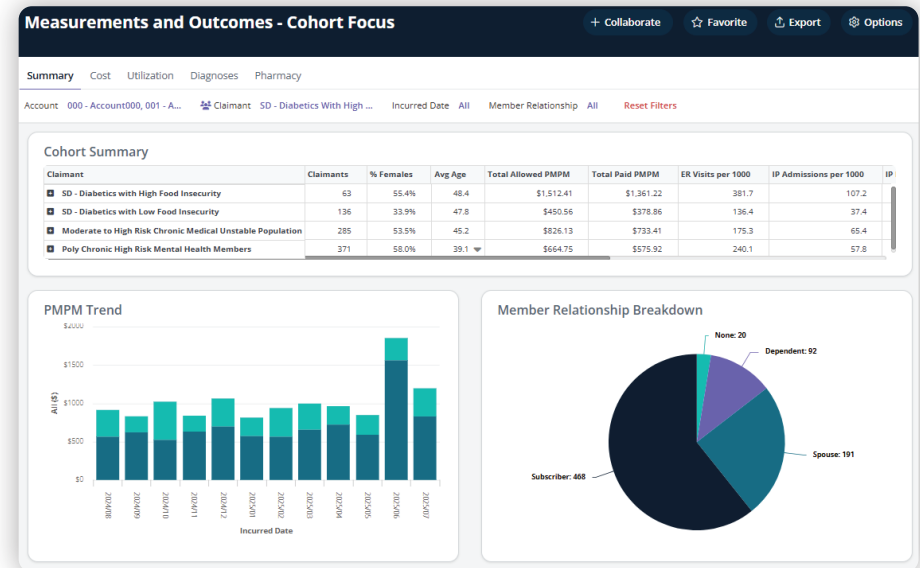
Capital deployed where financial return is highest

Operational scalability

Enterprise-ready infrastructure

Executive confidence

Defensible business cases before capital commitment



The solution methodology

Social Risk Insights Measures & Outcomes follows a structured, repeatable methodology designed to quantify and validate the impact of social risk interventions.

1

Social risk identification

Individual-level social risk scores are generated across five SDOH domains, revealing hidden and stacked risks that drive cost and utilization.

2

Data integration and stratification

Social risk, claims, and utilization data are unified using MedeAnalytics' Health Fabric™, enabling centralized analysis and visualization of high-risk, high-cost cohorts.

3

ROI modeling and opportunity analysis

Medical and pharmacy data are extracted and modeled using actuarially accepted methods to estimate savings and identify cohorts with outsized per-member-per-month cost differential.

4

Intervention measurement and validation

Outcomes and utilization are monitored over time, with period-over-period validation of realized ROI. Results inform ongoing refinement and scaling of intervention strategies.

These steps create a **closed-loop system** that links social risk insight to **validated financial and clinical performance improvement** at enterprise scale.

Proof of impact

An employer covering nearly 450,000 commercially insured lives wanted to understand how social risk was driving claims costs and where targeted interventions could reduce exposure. Claims data alone couldn't explain cost and outcome variability among members with similar conditions.

An opportunity assessment analyzed three years of medical and pharmacy claims, member-level social risk scores across five domains, and included independent actuarial validation.

Key findings

Integrating social risk into analytics identified high-risk cohorts with the greatest financial opportunity. Targeted interventions across five cohorts could generate up to \$25M in validated savings (3:1 ROI).

Notably, fewer than 5,000 members (<1%)—pregnant women with stacked social risks—represented a disproportionate share of savings potential, including \$2.4M–\$5.4M in addressable savings, up to 200% ROI, and an additional \$1.2M by adding food and housing supports.

Why it matters

Social risk enhances traditional risk models, revealing financial exposure and savings opportunities that claims data alone misses. Precision targeting enables stronger ROI and provides executives with a defensible, data-backed investment case.

From opportunity to action

The assessment serves as a decision gate—helping payers prioritize investment dollars, measure validated ROI, and confidently scale proven interventions.

\$25M

in validated savings across
five targeted cohorts

3x

return on investment

The bottom line

Social risk is no longer a secondary input or compliance exercise. **It is a financial lever.**

As value-based accountability expands, payers that embed social risk as a measurable, validated analytic driver will be better positioned to allocate resources with precision, intervene earlier, and deliver sustained financial and clinical performance.

Social Risk Insights Measures & Outcomes provides the data, validation, and enterprise infrastructure to make that shift possible.

Take the next step towards leveraging social risk data for financial impact



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