

Milliman Advanced Risk Adjusters

**Redefining Risk Adjustment
for the Road Ahead**



In this era of healthcare reform, the industry's success may be riding on the insight provided by risk adjusters. Of equal importance is how best to apply risk adjustment so that reforms are successful.

For more than 60 years, Milliman has been evaluating risk and opportunities to help customers manage their businesses in uncertain times. Often, new challenges spark new thinking and create new opportunities. There is no better time than now to *redefine* risk adjustment tools with advanced methods.

NEW DIRECTIONS REQUIRE MORE CLARITY

Milliman Advanced Risk Adjusters (MARA) is a new suite of risk measurement tools focused on providing customers the greatest level of accuracy and insight about individual health risk.

MARA delivers critical information to help customers compete successfully in today's complex health care environment.

LET THE LANDSCAPE CHANGE

- MARA is ready for the road ahead, providing superior performance over leading predictive models.¹

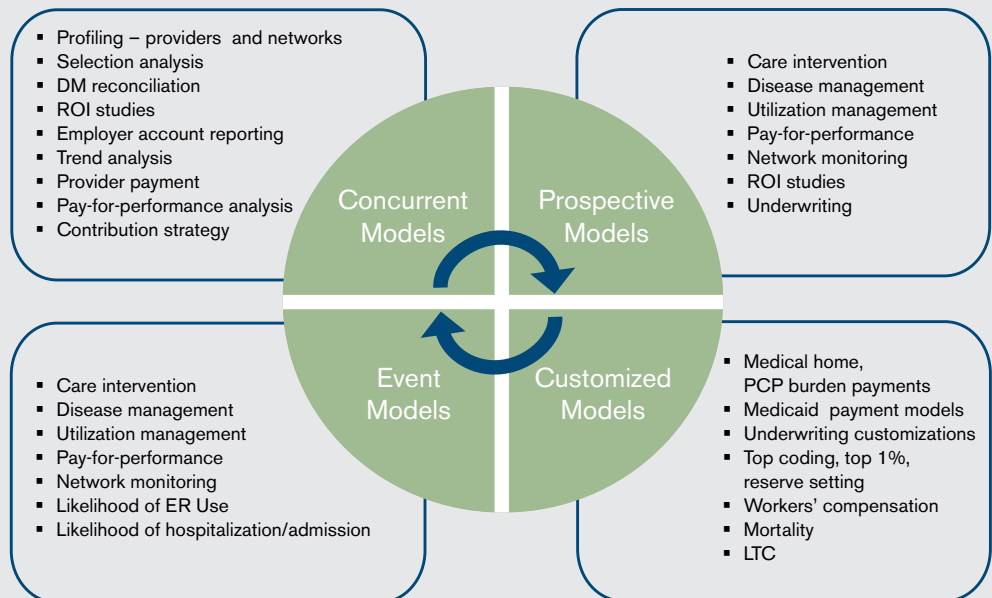
- MARA considers disease progression by taking advantage of longitudinal data sets.
- MARA is designed to offer superior insight for complex health care pricing and provider payment applications, delivers better information for case stratification and intervention planning.

MARA ADVANTAGES

- Robust data management and advanced capabilities for reporting and predictive applications;
- More scores to describe illness burden by service categories;
- Projects actionable hospitalizations;
- All models offer flexible lag options;
- Easy-to-use software supports desktop or enterprise users: Windows, UNIX, Linux;
- GUI or API for rapid integration;
- Includes updates and access to technical support personnel with years of risk adjustment experience.

Milliman expert consultants support all aspects of health care management

Risk adjusters or predictive models inform a wide range of healthcare decisions and applications, many of which are shown here. They are optimal only when applied effectively. As a full-service risk management firm, Milliman brings a comprehensive understanding of the application of risk adjustment and predictive modeling to complex healthcare budgeting, payment, and delivery issues. Whether you require risk adjustment tools, strategic advice, or customized models, our knowledgeable consultants and actuaries can help design and deliver successful solutions.

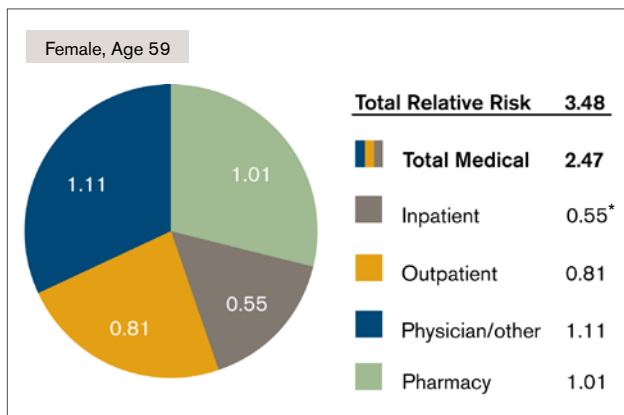


¹ MARA performance is benchmarked against vendors described in "A Comparative Analysis of Claims-Based Tools for Health Risk Assessment," published in an SOA Health Research Project of the same name, "A Comparative Analysis of Claims-Based Tools for Health Risk Assessment." For a copy of the benchmark comparison, contact ART@Milliman.com

MILLIMAN ADVANCED RISK ADJUSTERS (MARA) – A SUITE OF PREDICTIVE TOOLS

MARA includes the ideal set of advanced risk adjusters for population risk analysis.

MARA is perfectly suited for budgeting, pricing, payment, stratifying risks, and analytic reporting. Included are risk adjusters for performance measurement, population health forecasting, and many other predictive applications. You can take advantage of readily available data assets that are best suited to the intended purpose.



MARA	Input	Prospective	Concurrent	Scores	Lag Options
RxAdjuster	Pharmacy	✓	✓	6	0/3/6
DxAdjuster	Medical	✓	✓	6	0/3/6
Comprehensive Cx Adjuster	Medical & Pharmacy	✓	✓	6	0/3/6

Scores by category reveal where spending appears to carry the greatest risk and costs can spike.

Use MARA's valuable clinical explanations by individual to help alert you of potentially manageable risks.

*Inpatient Risk is highly correlated with admissions. It is a "likelihood of hospitalization" indicator—no need to license and run a separate event model, MARA provides more insight for case management. Contact art@milliman.com to see how well MARA performs to help identify manageable conditions.

TECHNICAL SPECIFICATIONS

No two health plans are similar, and complex technical infrastructures can add to the challenge of bringing in a new software solution. MARA's system-independent and component-based design allows for deployment in diverse technology environments. It meets virtually any system requirement for desktop or enterprise installation, without the need for any third-party tools.

Milliman Advanced Risk Technologies (ART) technical support provides easy access to seasoned support personnel. MARA software includes User, Analytic, and Programmer Guides, as well as on-time, accurate code updates. Our technical support personnel have more than eight years of experience supporting risk adjustment customers, knowledge to support a variety of technical environments, and strong working knowledge of healthcare data structures. You can quickly get started using MARA.

LEADING HIT VENDORS EMBED MARA

MARA is *inside* the leading business intelligence tools from Milliman, including IntelliScript®, and MedInsight®. Adding MARA to your in-house reporting services, case management workflow tools, or inside a third-party decision support system is supported. Check with your vendors for details, or if you prefer we can contact your vendor for you.

Operating System	MARA Supported
Windows	✓
UNIX	✓
Linux	✓
Integration	
.NET API	✓
Java API	✓
Web Service	✓



Milliman, whose corporate offices are in Seattle, serves the full spectrum of business, financial, government, and union organizations. Founded in 1947 as Milliman & Robertson, the company has 52 offices in principal cities in the United States and worldwide. Milliman employs more than 2,400 people, including a professional staff of more than 1,100 qualified consultants and actuaries. The firm has consulting practices in employee benefits, healthcare, life insurance/financial services, and property and casualty insurance. Milliman's employee benefits practice is a member of Abelica Global, an international organization of independent consulting firms serving clients around the globe. For further information visit milliman.com.

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