



Nowadays, healthcare companies are drowning in data and challenged to gain reliable, actionable insights from it. Healthcare organizations' records today are often unstructured. Physician's notes, registration forms, discharge summaries and patient documents, all combined, produce an information chaos. As a result, millions of patients notes and records often sit unavailable in separate clinical data silos. This data contains very valuable information, but historically there's been no easy way to analyze it.

Predictive analytics is changing all of this, but with it comes the question: "Are we putting data to work for us? Predictive analytics can help healthcare providers accurately anticipate – and respond to – changes in their patient needs. The ability to make financial, administrative, and clinical decisions based on experience and intuition is enhanced with robust scoring applications that enable precise and validated predictions.

Predictive analytics can help in three key areas: Medical Management and Biomedicine, System Design and Planning and Operations Management.

Predictive analytics is helping make these connections in the following ways:



Disease Management

This can be used to drive a predictive risk of cost for each member in a healthcare plan by asking such questions as, "How probable is it that this person will be high risk, high cost?"



Fraud Detection

Predictive analytics can help healthcare professionals determine claims that need additional review for fraud by increasing the likelihood of discovering fraudulent claims.



Enhancing Patient Care

Healthcare facilities can take a more proactive approach to treatment. For example, by more precisely predicting which patients will develop chronic conditions, or which ones will respond best to certain types of medications or therapies, healthcare organizations can focus not only on treating existing conditions, but also on preventing recurrences.



Improving Clinical Outcomes

Healthcare organizations can pull clinical data from large amounts of patient information to understand patient histories and predict future outcomes. By closely analyzing which treatments work best, providers can make more intelligent decisions about treatment plans, minimizing complications and patient readmissions.



Optimizing Resource Utilization

Patterns and trends, patient admissions, bed utilization, length of stay, and other metrics can be analyzed and used to predict future volumes – particularly when peaks may occur. Hospitals can be more prepared and ensure there are enough resources on hand to provide superior care, thereby better allocating nurses, clinicians, diagnostic machinery, and other resources.



Increasing Income and Revenue

Identify opportunities to collect missing income, including claims that are wrongfully rejected by payers or overdue monies from patients.



The bottom line is healthcare predictive analytics can help healthcare organizations get to know their patients better, so that they can understand their individual needs, while delivering quality, cost effective services that could be, literally, life saving. Consistent, complete, and accurate results can be used to make better decisions about tomorrow, resulting in higher profits, reduced costs, improved quality of care and maximum ROI.

Qualex helped these clients on the following tasks:

- Reduce variability in the delivery processes
- Improve efficiency and effectiveness in the delivery of clinical, ancillary and administrative services through process analyses
- Assist in the structuring and support of medical decisions
- Improve the performance of diagnosis, testing, and treatment strategies
- Facilitate decision-making on services and technology to be provided
- Forecast and planning for resources and capacity
- Actuarial studies
- Data governance

To learn more about our Solution :

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Some of our clients include

