

Teradata Identifies Patterns to Avoid Surgery

GOVERNMENT HEALTHCARE



As healthcare evolves to an outcomes-based approach that emphasizes total quality of care over specific procedures, understanding patient treatment patterns is increasingly critical. Those patterns can identify candidates who would likely benefit from early intervention and treatments to prevent invasive musculoskeletal surgeries.

Having specific, data informed profiles can assist physicians and patients with alternative approaches to remain healthier, enable outpatient care, lower costs, and avoid post-surgery conditions such as risk of infection, long-term rehabilitation, etc.

Understanding Warning Signs Can Change Treatments

Not surprisingly, the key to avoiding surgery is detecting warning signs and patterns before a musculoskeletal condition deteriorates to a level that requires an operation. Until now, targeted and accurate identification of those patterns has been almost impossible due to the inability of analytics to run across massive data sets and different data types to find the correlating set of patient histories.

Teradata Aster Analytics eliminates that barrier. Unlike other solutions, it uses text analytics, allowing doctors' notes to be integrated with other data to unlock deeper insights. Additionally, the size of the data set is important for accuracy. Rather than using sample data sets, Teradata tools are efficient enough to allow the analytics to run across all the available data, providing more trustworthy results—essential for physicians considering surgery.

Gain New Patient Insights

Teradata uses a new technique that provides a better understanding of the patient. Instead of only being able to review simple structured clinical data, such as blood pressure or weight, Teradata Aster Analytics looks at all available information, irrespective of format, including doctors' written notes, MRI reports, x-rays and other data to present a complete patient profile.

10X Improvement in Avoiding Surgeries

Humedica, a healthcare informatics company, used Teradata Aster Analytics to analyze more than 10 years of data, including medical claims, procedures, revenue codes, patient demographics, risk scores, patient services prior to surgery and other diagnosis and lab data sets.

As a result of technology from Teradata, Humedica experienced a 10-fold improvement in identifying patients trending toward musculoskeletal surgeries that could be avoided. This saved money while improving patient outcomes and quality of life. Using these same analytics techniques to identify patterns will enable the healthcare industry to also address other issues—even diagnosing conditions before patients experience symptoms—to continue lowering costs and improving care.

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