

Analytics of Healthcare Things IS THE Next Generation Real World

Data Joy King, Teradata Corporation

ABSTRACT

As you know Real World Data (RWD) provides highly valuable and practical insights. But as valuable as RWD is, it still has limitations. It is encounter-based and we are largely blind to what happens between encounters in the Healthcare System. The encounters generally occur in a clinical setting which may not reflect actual patient experience. Many of the encounters are subjective interviews, observations, or self-reports rather than objective data. Information flow can be slow (even real-time is not fast enough in healthcare anymore). And some data that could be transformative cannot be captured currently.

Data from select IoT can fill the gaps in our current RWD for certain key conditions and provide missing components that are key to conducting AoHT, such as:

- Direct objective measurements
- Data collected in "usual" patient setting rather than artificial clinical setting
- Data collected continuously in patients setting
- Insights that carry greater weight in Regulatory and Payer decision-making
- Insights that lead to greater commercial value

Teradata has partnered with an IoT company whose technology generates unique data for conditions impacted by mobility or activity. This data can fill important gaps and provide new insights that can help distinguish your value in your marketplace.

Join us to hear details of successful pilots that have been conducted as well as ongoing case studies.

INTRODUCTION

As the Internet of Things (IoT) was gaining momentum in industries such as manufacturing, insurance, travel and transportation, the healthcare and life science industries were still trying to figure out how to leverage real world data (RWD) such as claims and electronic health records.

Now that RWD has been firmly embraced, it is time to explore the benefits of IoT to healthcare and life science companies and ultimately to the patient, clinician and caregiver.

REAL WORLD DATA GAP

Real world data provides insight into a patient at a point in time and are based on provider/patient encounters such as, a doctor visit or filing a claim. What it does not provide is information about the patient in his or her normal life setting.

Claims show what assessments and treatments were actually performed, billed, and paid but they are not always clear about the context and are not always accurate and interpretable. EHRs are a significant evolution in healthcare data but they are only as good as the degree to which information is accurately and reliably entered. There are fields that contain free text, like physician notes, that need to be accurately captured and organized to be useful.

So the question remains: What happens to the patient between doctor visits?

ADVANTAGES OF USING DATA FROM IOHT

IoHT can be a valuable tool to differentiate medicines in the marketplace and drive greater commercial value. It also carries greater weight in regulatory and payer decision-making. Advantageous features of the data include:

1. Direct objective measurements rather than self-reported, physician-reported, or observational

2. Collected in the “usual” patient setting, rather than an artificial clinical setting which may not reflect accurate readings or patterns
3. Collected continuously, which is a richer source of data to reveal variability and patterns over time
4. Informing the provider as to what occurs between encounters

CONCLUSION

Integrating loHT data and conducting robust, advanced analytics on the data can provide immediate competitive advantage. The data, by itself, has no business value unless it provides decision-making insights. That is why the Analytics of Healthcare Things (AoHT) provides a real differentiator for companies leveraging Real World Data (RWD).

CONTACT INFORMATION

Your comments and questions are valued and encouraged. Contact the author at:

Joy King
Teradata Corporation
(919) 696-6067
joy.king@teradata.com
www.teradata.com