Health Analytics for everyone

With patients demanding higher-levels of transparency in their care decisions, and organizations looking for more ways to control costs while improving services, the need for advanced analytics in healthcare is greater than ever. Health analytics solutions from Microsoft and our partners help pull together structured and unstructured data, ranging from EMR systems to handwritten notes to social media. These solutions can combine these diverse data types in ways never before possible, generating the actionable insights that healthcare organizations need to improve the quality of care and efficiency of services delivered. Now, health professionals have access to powerful predictive and real-time analytics capabilities within familiar applications like Excel and Power BI. This enables them not only to bring vast amounts of data together, but also to make the best choices at the point of decision, helping to ultimately improve the outcomes achieved, reduce patient readmissions, and even prevent hospital-acquired infections.

Gain self-service insight from any data

Optimize healthcare services by providing highly intuitive, interactive tools for data exploration, visualization, and presentation such as Microsoft Power BI and Excel for health professionals at any level of your organization.

Get insights quickly from multiple data types.

Mine disparate information systems and easily bring together structured data such as electronic medical records with unstructured data like handwritten case notes to uncover actionable intelligence.

Freely model and explore information.

Empower users at all levels with self-service BI. Embed geography as a variable in environmental health determinants, and then view geospatial patterns on an interactive 3D map using Power View and Power Map. Or ask questions in a natural language speech bubble to get data visualizations in Excel.

Create powerful data models.

Create flexible models that can crunch large data sets very quickly with technologies like Microsoft Azure HDInsight, Azure Machine Learning cloud services, and Microsoft SQL Server.

Connect and collaborate in new ways

Help health professionals share insights, collaborate, and access reports from virtually anywhere with Power BI, Excel, and SharePoint.

Work together more easily.

Create collaborative Power BI sites quickly to share live reports and custom data sets with others across organizations and the entire continuum of care.

Get answers more intuitively with natural language.

Use natural language queries to find, explore, and report on your data. With the Q&A feature of Power BI, anyone can type questions in a search field and the system will present answers in the form of interactive visualizations.

Stay connected with mobile access to your reports.

With new HTML5 support, health professionals can navigate and explore browser-based reports, or quickly find key files using the Power BI mobile app while in the field.

Forward-thinking healthcare organizations are expected to reap considerable dividends, including a collective $109 billion worldwide return on digital and analytics investments over the next four years. The dividends come from multiple areas, including reduced costs, increased revenue, and better productivity.

Fueled by widespread EMR adoption and the rise of consumer health technologies, the digital data universe in health is growing at 48% a year. And, yet, few organizations are equipped to generate actionable insights from all of this data. This is because most organizations lack the ability to draw vast and rapidly growing bodies of data together so that they can uncover the hidden connections affecting their patient populations. Given that the rate of health data production is due to increase, how can health organizations make intelligent use of it to improve their quality and effectiveness of services?

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Gain comprehensive predictive insight
Apply predictive analytics to uncover unexpected patterns and develop models that can be used to optimize patient care, anticipate emerging health trends, and mitigate risk.

Optimize organizational performance. Use technologies like Azure, Excel, and SharePoint for insights on how to provide more valuable services that enhance outcomes, reduce readmissions, and control costs.

Improve population health management. Use predictive data to develop targeted population health strategies and help reduce health costs at city, provider, and systemic levels.

“With Cortana Intelligence, we’re transforming the way healthcare is delivered today: improving patient outcomes, reducing costs, and offering an unprecedented level of personalized care.”

Ethan M. Berke, MD, MPH
Medical Director, Clinical Design and Innovation
Dartmouth-Hitchcock Medical Center

Get results with a holistic approach to health analytics
Use a complete data platform of connected technologies—from relational data warehouses to big data stores to end-user productivity tools—so you can power rapid insights from any data in the tools that health professionals know and love.

Help ensure quality and accuracy. Improve the completeness, accuracy, and consistency of health information by resolving problems caused by bad data in business intelligence or data warehouse workloads.

Scale with confidence. Provide your IT teams with the enterprise-class security and governance they need to confidently scale insights across the organization—including your devices and the cloud.

Connect, capture, and transform data from devices. Embrace the Internet of Things (IoT) by connecting, managing, and capturing machine-generated data from a variety of sensors and health devices.

Support security, governance, and compliance. Set user-level permissions to your analyses that allow certain members of the organization, depending on their credentials, to see some but not all data—a critical aspect of maintaining regulatory compliance.

In the world of large data volumes, real-time data creation, and multiple data types, you have to be able to deploy and consume technologies and data on-premises, in the public cloud, and with a hosting service provider. Microsoft brings you a consistent, comprehensive infrastructure for this hybrid world.

Extend the power of analytics to virtually any device. With HTML5 support and the Power BI mobile app, health professionals can share and work on reports from virtually anywhere.