Big Data in Healthcare

University of Ontario Institute of Technology: Real-time Health Monitoring and Intervention











There is boundless data in healthcare about every patient, condition, procedure and drug across multiple providers and organizations.





The ability to access, manage, connect and understand this data to create actionable insights is critical to improving care and outcomes.



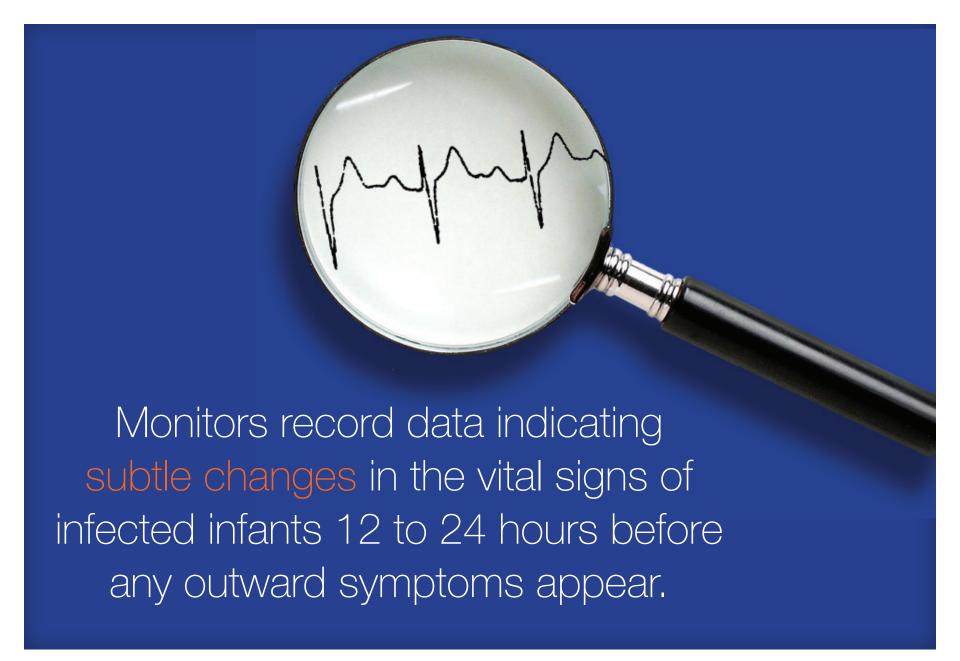


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Real-time Health Monitoring and Intervention

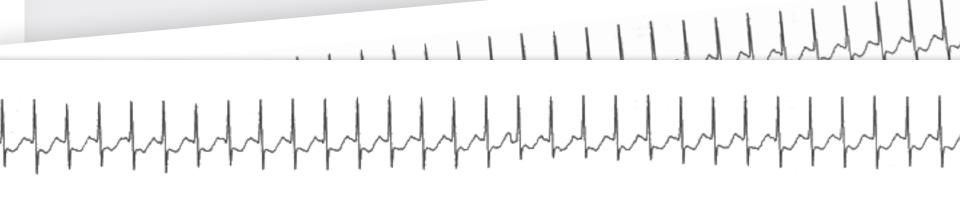








These changes are not significant enough to trigger an alert, and the flow of data is too rapid and abundant for the human mind to process in time.





So this information, which could stop an infection from becoming life-threatening, goes unnoticed.







The University of Ontario Institute of Technology teamed with IBM Research and the Toronto Sick Kids hospital to develop a highly flexible platform, Project Artemis, aimed at helping physicians make better, faster decisions in patient care.



Project Artemis' first test was to determine how to detect nosocomial infection sooner, taking advantage of the streaming physiological data from monitors.





Using specially-designed algorithms to perform real-time analytics, Project Artemis can spot certain anomalies as soon as they appear.

Solution Components

IBM InfoSphere[™] Streams • IBM DB2®



As a result, physicians can provide critical treatment to infants up to 24 hours before the infection gets worse—making a life-saving difference.





Different organizations are now utilizing Project Artemis' early-warning capabilities for other conditions that can be detected through subtle changes in data streams, such as brain ischemia and cardiac care.

Learn more about Project Artemis in the full case study. http://ibm.co/bighealth



This and many other healthcare organizations are pioneering the big possibilities that big data brings.



The IBM big data platform extends the value of your existing technology by tapping into all traditional and non-traditional sources of data and effectively managing, integrating, governing and performing analytics on this torrent of complexity and data growth.



Take the first steps toward change.

http://ibm.co/bighealth

http://ibmbigdatahub.com







