



Anvita Insight Implementation at Beth Israel Deaconess Medical Center

Challenge

Being one of the foremost U.S. hospitals and a teaching institution for Harvard Medical School, the Beth Israel Deaconess Medical Center (BIDMC) faced a number of challenges related to its growing imaging services in early 2005. The staff felt the need for an analytics tool capable of providing real-time clinical answers in order to identify the most appropriate imaging test for a specific patient. Physicians in the BIDMC physician organization had the capability to select from 2,000 orderable radiological studies, many of which were state-of-the-art technologies. However, the abundance of such options also resulted in potentially inappropriate testing, false positives, and potential risk to patients (e.g., contrast injections, interventional procedures, and radiation exposure). Furthermore, insurers had just mandated pre-authorization of all high-tech imaging using a phone- and paper-based process, an archaic system that caused delays and frustration for both patients and doctors. A better system was desired.

Solution

Beth Israel Deaconess Physician Organization (BIDPO), an organization of physicians affiliated with BIDMC, established a partnership with Anvita Health to deliver an advanced analytics solution with computerized provider order entry (CPOE) and real-time insurer authorization. Anvita Health and BIDPO joined forces to enhance the Anvita Health imaging implementation to create a natural language ordering vocabulary. A web-based, physician-designed user interface for Anvita Health's imaging implementation was then seamlessly integrated into BIDMC's existing EMR.



Results

Increased Efficacy

- Anvita Insight positively influenced up to 35 percent of all ordering decisions, and up to 10 percent of high-tech radiology decisions were changed
- Anvita Insight also decreased inappropriate imaging, helping physicians select the best imaging test for a specific patient, the first time

Streamlined Workflow

- Increased speed and conserved time as Anvita Insight achieved nearly 100 percent compliance by 1,300 BIDPO-affiliated physicians at BIDMC
- Seamless integration of the Anvita Insight solution into BIDMC's existing EMR platform
- Real-time insurer authorization increased efficiency, reduced frustrations, and saved time for physicians and hospital staff that no longer needed telephonic approvals

Reduced Costs

- The system decreased inappropriate imaging, which reduced overall cost trends for the hospital, patients, and the health plan while increasing quality
- BIDPO physicians beat network trend in their region enabling the organization to successfully reach 100 percent of their P4P goals with their largest health plan

Improved Patient Care

- Anvita Insight identified testing contraindications (e.g., contrast dye use) in patients at high risk for adverse reactions
- Anvita Insight identified and enabled comparative guidance into testing options based on radiation dose to the patient
- Anvita Insight identified and suggested alternative modalities more likely to yield a diagnosis for a specific clinical presentation (e.g., CT vs. MRI vs. nuclear study)

Richard Parker, M.D., Medical Director of Beth Israel Deaconess Physician Organization, on Anvita Health

"Anvita Health is providing a breakthrough CDS solution to help confront a major challenge facing physicians today—the abundance of a bewildering number of high-tech imaging choices, some of which are extremely powerful, and others which are expensive and risky, yet may not yield a rapid diagnosis. Anvita Health provides guidance to help physicians and hospitals perform the right tests at the right time based on the medical profile of each patient, and couples this with real-time authorization by the insurer. It's a superior model for all the stakeholders."

About BIDPO

BIDPO has more than 1,300 participating providers including physicians, podiatrists, and psychologists, who are affiliated with the Beth Israel Deaconess Medical Center (BIDMC). BIDPO promotes the highest quality of coordinated patient care, patient safety, and cost-effective care among its participating providers through its integrated and coordinated managed care contracts and related medical management programs.

About Anvita Insight™ Analysis Engine

In this implementation, the Anvita Insight analysis engine automatically identifies the safest, most effective, and most affordable radiology tests that are most likely to yield an accurate diagnosis for a specific patient. The Anvita Insight engine instantly personalizes, prioritizes, and identifies options to help doctors and patients make better medical decisions. The system also enables pre-authorization of imaging tests, thereby eliminating time-consuming and inefficient administrative processes associated with telephone-based systems currently in use today.

About Anvita Health

Founded by physicians in 2000, Anvita Health provides innovative clinical analytics to its customers who, in aggregate, manage more than 60 million lives. Anvita Health's analytics solutions are used by point-of-care information technology systems, health plans, pharmacy benefit managers, disease management companies, personal health record providers, and ambulatory care providers. The company is privately held with corporate headquarters located in San Diego. For more information, visit www.anvitahealth.com.

Contact Anvita Health for more information.

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