Autonomy Meaning Based Healthcare

Better Quality Care, Lower Costs

Autonomy Meaning Based Healthcare is an award-winning, comprehensive set of clinical diagnosis and knowledge management technologies designed to deliver better quality care for lower costs. It leverages the power of Autonomy’s Intelligent Data Operating Layer (IDOL) to benefit clinicians, ancillary support staff, healthcare delivery organizations, payers, and researchers – leading to higher quality, more efficient healthcare delivery. Autonomy’s technology reaches across the current universe of fragmented healthcare IT systems to extract relevant information and present it in a meaningful way. From navigating unstructured clinical information for more accurate diagnosis, to a quicker adoption of best practices, Autonomy Meaning Based Healthcare is a healthcare IT paradigm shift that is essential to advance the practice of medicine.

A New Era in Healthcare

Today, all participants in healthcare are under pressure to improve efficiency. Caretakers must deliver care more efficiently, starting with a quicker and more accurate diagnosis process. They need to be cognizant of the cost of care and practice in a manner which responsibility considers healthcare resource constraints. HDOs must oversee a standardized and efficient practice of medicine, computerize health records and incorporate analytics, and constantly evaluate available resources in order to allocate them in a manner which optimizes utilization. Finally, payers must have quicker methods of accurately identifying and adopting best practices. They need to help healthcare providers achieve a reimbursement system which is more compatible in guiding the provision of healthcare from a medical perspective, as well as help HDOs make valuable EMR data available to researchers in order to speed up the medical research lifecycle.

Fundamental Shifts Require a Fundamentally Different Approach

Healthcare is a human-based endeavor. Every patient is a unique individual with specific histories, symptoms and disease processes, and ultimately a clinician is responsible for the diagnosis, treatment plan and care of that individual. Patients and doctors communicate with one another via ‘human friendly’ information—in-person consultations, phone calls, emails, handwritten case notes and prescriptions, video conferences, social media conversations, and the like.

However, the world’s computing infrastructure has evolved around a paradigm of structured data and fixed processes – an infrastructure that is ill-suited for healthcare. Autonomy’s technology benefits the entire medical delivery cycle: our ability to conceptually understand unstructured data is critical in the medical realm, where a culture of rich medical narratives has repeatedly defied attempts over the years to impose structure through lexicons, hierarchies, and changes in the medical workflow. Moreover, Autonomy’s technology is scalable, modular, and extensible, enabling a variety of deployment configurations to support to the HCIT structure of the present and the future.

Autonomy Meaning Based Healthcare provides the following benefits:

- Quicker and more accurate diagnoses
- Better utilization of physician resources
- Improved compliance with payer policies
- Updated, accurate, and relevant patient health records
- Efficient clinical study enrollment
- Quicker identification of best practices
Meaning Based Healthcare at Work

Consolidated Information Access
Healthcare data is found in a fragmented universe of IT systems. And even within these disparate systems, are multiple levels of structure ranging from tightly restricted database fields to unformatted files containing free-text, audio, and even video. To date, this data has been viewed as a chronological record of clinical care, only useful within the framework of limited tools in which it was generated. Autonomy technology reaches data wherever it resides. By identifying patterns and meaningful relationships in data, each notation in the clinical record provides useful information. This ability to navigate, analyze, and visualize this information enables quicker identification of best practices, and is vital for improvement of quality and efficiency in healthcare delivery.

Navigation of Free-Text Records and Reports
Medical records such as clinical image findings, procedure reports, and other PDFs are typically archived in the HIS as a permanent record of clinical care. However, these archives provide little ability to recall information for the purposes of improving quality, ensuring adequate reimbursement, or decreasing costs. Autonomy IDOL can process the resulting corpus of free-text data to extract structure permitting these records to be recalled when they are relevant, even beyond their initial use for specific patient care. Autonomy's advanced visualization features enable search and retrieval of this information at any time, for specific patient care or inclusion in aggregate statistics from big-data for administrative purposes.

Detection of Medical Waste and Fraud
The complex nature of coding medical diagnoses and services makes the identification of duplicate, conceptually similar, or conflicting procedures especially difficult. Autonomy IDOL can perform analysis over a large number of parameters including both structured and unstructured data, visualizing relationships in the data which may be indicative of fraud. It recognizes patterns of kickbacks in exchange for referrals, charges posted outside of an appropriate treatment period, procedure “upcoding”, excessive physician billing, medically unnecessary tests, and other areas of waste or fraud. Autonomy’s fraud detection technology is the clear market leader in all regulated industries, including financial services.

Relevant Medical Information at the Point of Care
Healthcare Delivery Organizations need to ensure that their clinicians have the best tools at their fingertips to ensure an accurate diagnosis. The financial cost of even a single misdiagnosis can be enormous – not to mention the intangible human costs and time lost. Auminence gives clinicians state-of-the-art access to relevant evidence-based medical information right at the point of care. In addition, by opening up and standardizing the decision-making process, providers practice more guided and defensible healthcare delivery than the black-box approach still in place at many institutions.

See the “big-picture” of healthcare delivery
From internists and specialists to therapists, technicians, and social workers, healthcare delivery involves a continuously changing selection of services delivered to a patient. Auminence World allows healthcare workers to see, at a glance, how their services fit into the holistic picture of patient-oriented healthcare delivery. This allows healthcare delivery organizations to better manage their services, and even identify where the expertise in their organization resides, so they can better utilize providers with each new case that comes along.