

NEW YORK CLINICAL INFORMATION EXCHANGE

An Axial Executive Summary

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NYCLIX, Inc. is a New York City – based regional health information organization (RHIO). NYCLIX was created to establish a privacy-protected system for sharing clinical information among physicians, hospitals and other health care service organizations in efficient and meaningful ways. NYCLIX was created as a result of a recommendation from the Technology Committee of the Greater New York Hospital Association (GNYHA) in an effort to improve healthcare in a region through interoperability among many otherwise competitive institutions. The Committee decided to focus initial efforts on the needs of providers in the Emergency Department setting. The exchange is based on a federated data model fed by 80 system interfaces.

In 2008, NYCLIX participated in several projects and demonstrations designed to showcase the potential of interoperable clinical data. NYCLIX was one of nine RHIOs that demonstrated that emerging operational RHIOs could be interconnected using existing standards and the principles that had been laid out for the NHIN. This demonstration was part of the Office of the National Coordinator for Health Information Technology (ONC) \$22M “trials implementation” program (“NHIN 2”) to extend the fledgling National Health Information Network (NHIN).

Patient Population and Content

NYCLIX currently incorporates 2 million records representing 1.3 million unique patients. While some Medicaid patients are included in NYCLIX, most patients are insurance-carrying residents of the greater NYC area, including patients that have been transferred to Manhattan’s tertiary care facilities. (The majority of NYC’s Medicaid patients are serviced through NYC’s public hospitals, which are not part of NYCLIX.) Nevertheless, NYCLIX characterizes its patient population as “diverse”, including a disproportionately large number of HIV-positive patients that are served by specialty clinics in the Greenwich Village area. The HIE has access to the longitudinal data contained in each of the end point systems.

Data incorporated in these records are:

- the admission discharge transfer (ADT) report
- laboratory data
- diagnostic imaging info (in text form)
- problem lists (coded)
- allergy information
- procedure summaries

Future phase II additions will include prescription data from internal hospital pharmacies and ambulatory settings (via SureScripts) as well as a broader representation of ambulatory EHR systems connected to the exchange.

The NYCLIX HIE is able to extract sufficient information to construct a continuity of care document (CCD). NYCLIX has implemented a CCD for special use cases such as the transition of care of a patient from a conventional care setting to a nursing home.

Technology

The platform is built on the Medplus Centergy HIE solution and Initiate's MPI engine. The Centergy Solution deploys "edge servers" behind each of the endpoint firewalls that are connected to the individual HIS/EHR systems. Queries are distributed to each edge server and results are returned to an aggregated display in Centergy's Clinical Viewer. Data is not translated into a specific format, but is instead presented "as is" in a consolidated, web browser-based form.

Data Sharing

Provider partners have an agreement with NYCLIX to represent them for data sharing agreements. NYCLIX has a Business Subcommittee to its Board of Directors that is developing the business plan to provide a roadmap for sustainability. This subcommittee is "meeting with representatives of pharmaceutical organizations to begin to explore the potential use of anonymized health care data for research and analytical purposes."

Overall governance of NYCLIX is the responsibility of its Board of Directors, comprised of the CIOs and CMIOs from participating hospitals.

About Us

Axial Exchange has created a suite of products that extract clinical data from existing hospital information systems and deliver it in real-time to the people who need it:

- Primary care physicians receive real-time easy-to-read clinical information when patients visit the hospital, and prepare effectively for outpatient care.
- Medicaid case workers are notified of Emergency Department visits and prevent avoidable readmissions by ensuring that post-discharge treatment plans are followed.
- Researchers reduce patient recruitment costs for trials by identifying potential candidates as they enter the hospital.
- The Emergency Department receives real-time information collected during EMS transport, saving precious time in preparation for critical care.

For More Information

For more information about Axial Exchange, please contact us through any of the following:

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