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Enhancing Data Linkages in Health Services for Improved Outcomes

By Chetan Kottidi and Patricia Mangiacotti

Data is the lifeblood of modern decision-making, especially within health and human services agencies (HHS). However, much of the valuable information collected remains siloed, leading to inefficiencies that can hinder research, programs, and support for beneficiaries. The concept of enhanced data linkages across agencies offers a pathway to break down these silos and create actionable insights to support better outcomes.

This article explores how LexisNexis® Risk Solutions utilizes its advanced and proprietary Scalable Automated Linking Technology (SALT), to enhance data management across the government health sector with its unique identifier, LexID®.

Understanding Data Linkages for Health Services



The Problem with Siloed Data

Within public health agencies, federal benefit programs, and human services, data is collected in massive volumes through standard operations. However, this data is often:

- ❗ Dispersed across multiple divisions, departments, or agencies.
- ❗ Stored in systems that do not communicate effectively.
- ❗ Lacking consistent formats, identifiers, or connections.

These structural disconnects can lead to gaps in understanding at both individual and population levels. For instance:

- ⚠️ Critical beneficiary data may fail to provide a comprehensive view of a person's engagement across multiple programs.
- ⚠️ Researchers and decision-makers could miss out on opportunities to leverage high-quality metadata for analysis.



The Opportunity in Enhanced Data Linkages

Establishing robust connections between datasets and creating standardized identifiers can:

- ✅ **Improve Decision-Making:** Generate integrated profiles to support whole-person care.
- ✅ **Streamline Data Exchange:** Facilitate collaboration across agencies and jurisdictions.
- ✅ **Optimize Resource Allocation:** Identify unmet needs and improve service delivery based on comprehensive insights.

The solution lies in leveraging advanced data aggregation, linking, and standardization technologies, such as those provided by LexisNexis Risk Solutions.



The LexisNexis Risk Solutions Approach to Proprietary Data Linking: LexID® Technology

At the center of LexisNexis Risk Solutions is LexID®, a proprietary, persistent, and anonymized identifier designed to connect disjointed data elements with precision. LexID® offers:



99%+ accuracy in linking individuals' records across datasets.



The ability to create a unified “whole person view” by linking contact details, program enrollments, behavioral health data, clinical history, and more.



Continuous updates to maintain an accurate and persistent identifier over time.

Benefits of LexID®:



Data Quality Improvement:

Standardizes and cleanses raw data to minimize inaccuracies and duplicates.



Enhanced Risk Management:

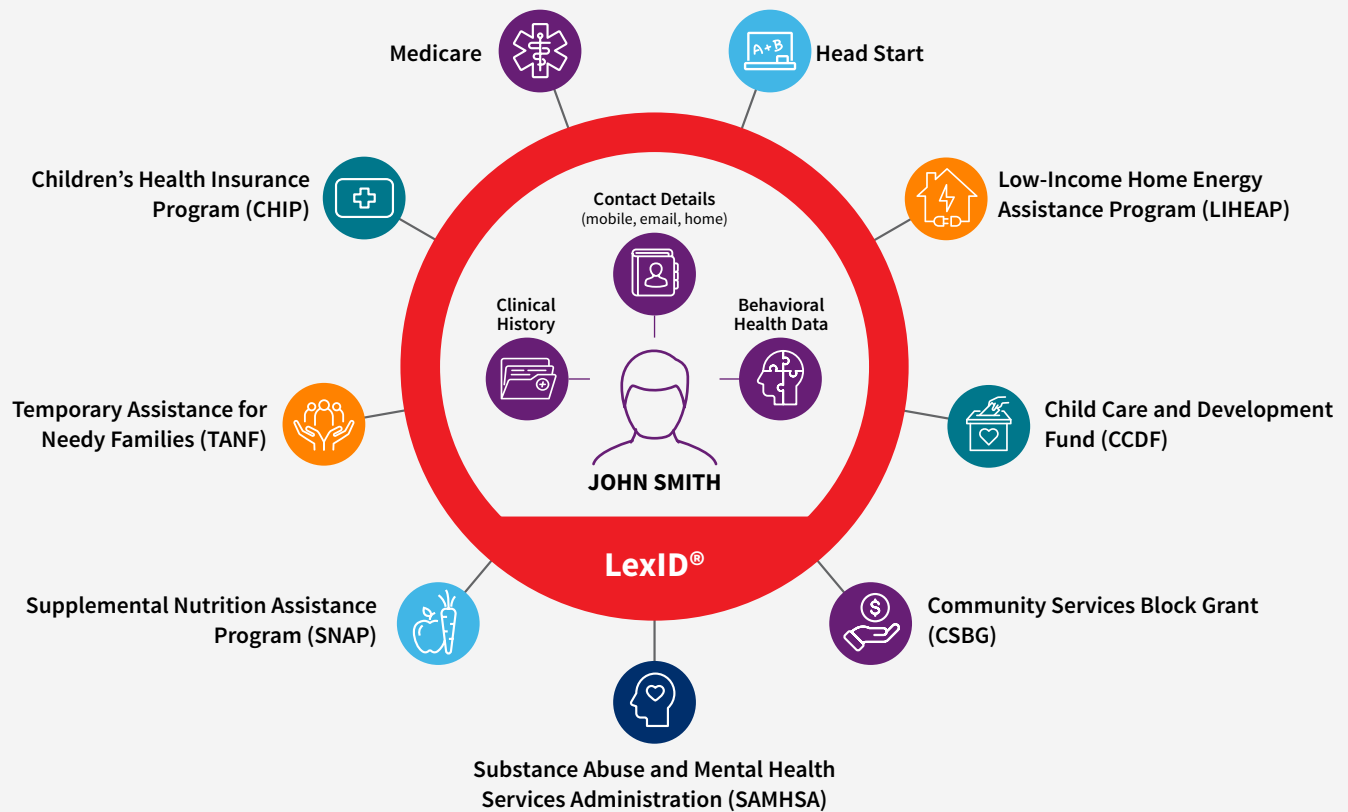
Provides a 360-degree view of individuals, helping to ensure informed decision-making and better compliance.



Scalability:

Handles vast amounts of information, supporting millions of individuals within federal programs.

Create a unified whole person view by linking contact details, program enrollments, behavioral health data, clinical history with 99%+ linking accuracy for individual records across datasets.



Scalable Automated Linking Technology (SALT)

LexID® functions through the LexisNexis Risk Solutions patented **Scalable Automated Linking Technology (SALT)**. SALT transforms disparate datasets into actionable insights by linking over 109 billion public and proprietary records drawn from more than 14 petabytes of data.

Key Features of SALT:



Uses advanced **machine learning algorithms** to connect data attributes across 10,000+ sources.



Enable health agencies to unify fragmented data for seamless analysis.



Supports interoperability and data governance at scale.



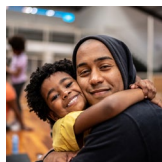
Proven Use Cases in Action

LexID® and SALT have already demonstrated immense value in real-world applications:



1. Health and Human Services Integration

Federal agencies can use LexID® to link beneficiary data across Medicaid, social services, and behavioral health programs to ensure that individuals receive comprehensive and coordinated support.



2. Social Determinants of Health Analysis

By integrating non-clinical factors like housing status, transportation access, and socioeconomic data, agencies can gain a deeper understanding of how to address public health challenges.



3. Emergency Response Coordination

During crises, linked data allows for faster identification of at-risk populations, ensuring resources reach those who need them most.

How Data Linkages Empower Health and Human Services

Here's a snapshot of the key benefits of enhanced data linkages using LexisNexis Risk Solutions:



Improved Service Delivery

Unified data can ensure that recipients receive the right support efficiently, avoiding duplication of services.



Enhanced Research Capabilities

Linked datasets can provide a deeper understanding of health and human needs, fostering data-driven innovation.



Operational Efficiency

Can reduce administrative burdens by eliminating redundant processes within programs.



Compliance and Transparency

Comprehensive records can contribute to accountable and data-supported decisions.

Making the Vision a Reality

Data silos don't just hinder efficiency; they can create gaps in care, missed opportunities, and resource wastage. The future of health services depends on breaking down these silos to unlock an interconnected, data-driven ecosystem.

LexisNexis Risk Solutions goes beyond the basics of data aggregation. With technologies like LexiD® and SALT, there is now a pathway to transform fragmented public data into powerful insights that can improve individual outcomes and support population-level health management.

Whether you're a decision-maker in government programs or involved in health and human services, adopting advanced data-linkage tools can position your organization at the forefront of innovation.





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Elevating Health Services with Advanced Data Solutions

The need for linked, high-quality data in health and human services cannot be overstated. By adopting solutions like LexID® and SALT, organizations can break down silos, improve operational efficiency, and ultimately, create a healthier and more equitable future for all.

Interested in exploring the possibilities of advanced data linkage?
Contact the experts at LexisNexis® Risk Solutions to learn how
our cutting-edge technologies can help your organization build
a *whole person view* and drive impactful outcomes.



Please visit our website or contact us
for more information.

1-800-869-0751



About LexisNexis® Risk Solutions

LexisNexis® Risk Solutions harnesses the power of data and advanced analytics to provide insights that help businesses and governmental entities reduce risk and improve decisions to benefit people around the globe. We provide data and technology solutions for a wide range of industries including insurance, financial services, healthcare and government. Headquartered in metro Atlanta, Georgia, we have offices throughout the world and are part of RELX (LSE: REL/NYSE: RELX), a global provider of information-based analytics and decision tools for professional and business customers. For more information, please visit www.risk.lexisnexis.com, and www.relx.com.