

# Enhance legacy MPI software with 4medica 1% as-a-Service™ and 4medica Big Data MPI as-a-Service™

## 4medica's MPI solutions solve the clinical, financial and operational challenges caused by duplicate patient identities

Black Book Research estimates industry averages of 18%. While some have duplication rates of 30%, many are as high as 60%. 4medica is the only company that guarantees a 1% or less duplication rate.



Studies reveal the frequency of duplicate ID pairs is due to multiple discrepancy data errors, challenges in patient-provider demographic data, issues in key identifying fields and default values, MPI workflow challenges, and lack of data standardization.

All healthcare organizations struggle with high, double-digit duplication rates despite the use of legacy MPIs. Implementing a standalone MPI will not solve the root cause of today's complex data interoperability, patient safety and financial problems grounded in mismatched identities.

Only 4medica offers a guaranteed 1% duplication rate using its revolutionary and proven combination of MPI matching technology with automated intelligence and proprietary processes. Its skilled staff of data scientists provide data stewardship services foundational for data integrity.

### Why is 4medica different?

1. The 4medica 1% as-a-Service™ offering is a real-time, transactional, virtual service leveraging a proven combination of technology, people and processes to achieve a single digit duplication rate.
2. 4medica uses advancements in automated intelligence and analytics with an embedded rules engine that automates both critical and high-volume decisions to better define and improve the accuracy of the matching sequence.
3. A team of data scientists trained as data stewards work on your behalf to clean and maintain your MPI data hygiene to a 1% duplicate rate or less.
4. Scalable cloud-based architecture supporting the multi-patented 4medica Big Data MPI™ technology ensures ongoing data cleansing.
5. No other vendor offers a performance guarantee! The unique combination of the outcomes-based power of the automated intelligence in the 4medica Big Data MPI™ and data stewardship services ensures your duplication rate is at or below 1% and stays there. 100% Guaranteed.

Let 4medica assess your data hygiene, cleanse your data to 1% duplicate rate or less, and act as your dedicated Data Stewards maintaining clean data guaranteed.

## CASE STUDIES

### Michigan Health Information Network (MiHIN)



One of the country's largest HINs with 9M+ patient identities turned to the 4medica Big Data MPI™ after using legacy MPIs including IBM® Initiate® and Stibo Systems.



#### Challenge:

MiHIN struggled to find an MPI engine scalable to >15,000,000 identities and >50K transactions monthly while processing unlimited data sources in real time state-wide. 4medica's multi-patented matching algorithms conjoined with MiHIN's Common Key Service to create an "out of the box" scoring recommendation to dramatically reduce duplication issues.



#### Results:

Verified precision matching, real-time transaction processing, and lowered identity duplication issues and processing costs scaling to millions of identities and transactions (in millisecond latency).

### New Jersey Innovation Institute (NJII)



This large East Coast-based HIN, connected to multiple health reporting agencies, 70+ hospitals and thousands of providers failed to manage their MPI data management requirements using IBM® Initiate® without enduring loss of performance, speed and matching accuracy.



#### Challenge:

Initially a pilot, the 4medica Big Data MPI™ reviewed 1.2M previously matched identities to uncover a high duplication rate. Today 4medica processes 12M+ identities in multiple state health registries.



#### Results:

4medica's "research and reconcile" pilot demonstrated 100% accuracy of duplicate identification, enabling a merge of duplicate identities across multiple data sources like immunization and communicable disease data repositories. This led to the conversion of all state-wide identities and addition of data sources to 4medica for continual monitoring.

### HNL Lab Medicine



Lehigh Valley Health Network's HNL Lab Medicine, a multi-regional, full-service medical laboratory, strived to solve patient matching for their 5M+ patient identities using a legacy MPI.



#### Challenge:

Aggregating both inpatient and outpatient lab data was challenging and the enterprise duplication rate was close to 30%. Concerns about test results communicated to the wrong patients had an impact on safety and revenue.



#### Results:

With 4medica, HNL Lab Medicine's duplication rate of 30% was reduced to less than 1% in just six weeks. The facility implemented the 4medica Big Data MPI™ to ensure all incoming data from inpatient and outpatient systems is verified against the master data repository, ensuring 100% patient matching accuracy is achieved on every lab test order and result.

For more information or to schedule a demonstration, contact [info@4medica.com](mailto:info@4medica.com).

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