Improving New York City's health through Data Integration
CSTE Roundtable, Tuesday, June 12, 2018: 5:45-6:30pm
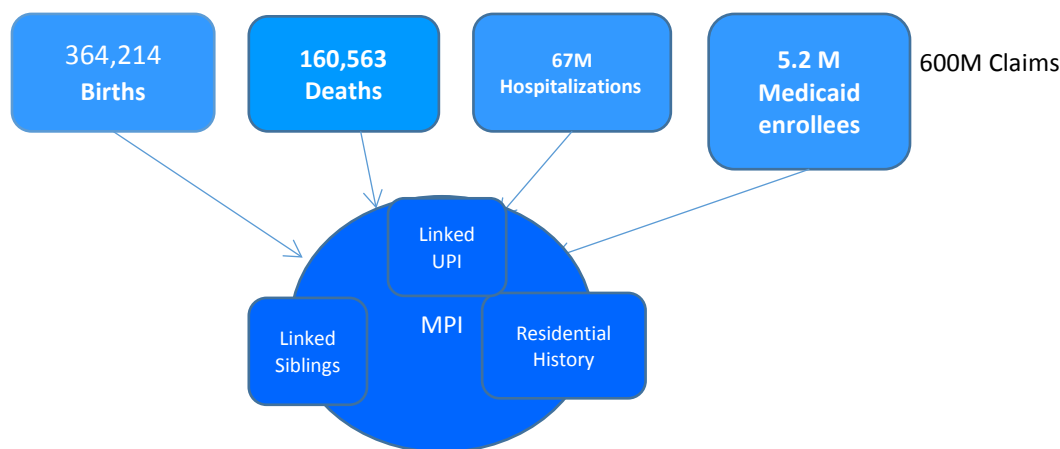
Regina Zimmerman, PhD, MPH; Daryl Chertcoff, Solutions Architect, HLN Consulting

NYC Health

1. Objectives of the Epi-Master Person Index (Epi MPI)

2. Examples of MPIs in Public Health/Government Agencies

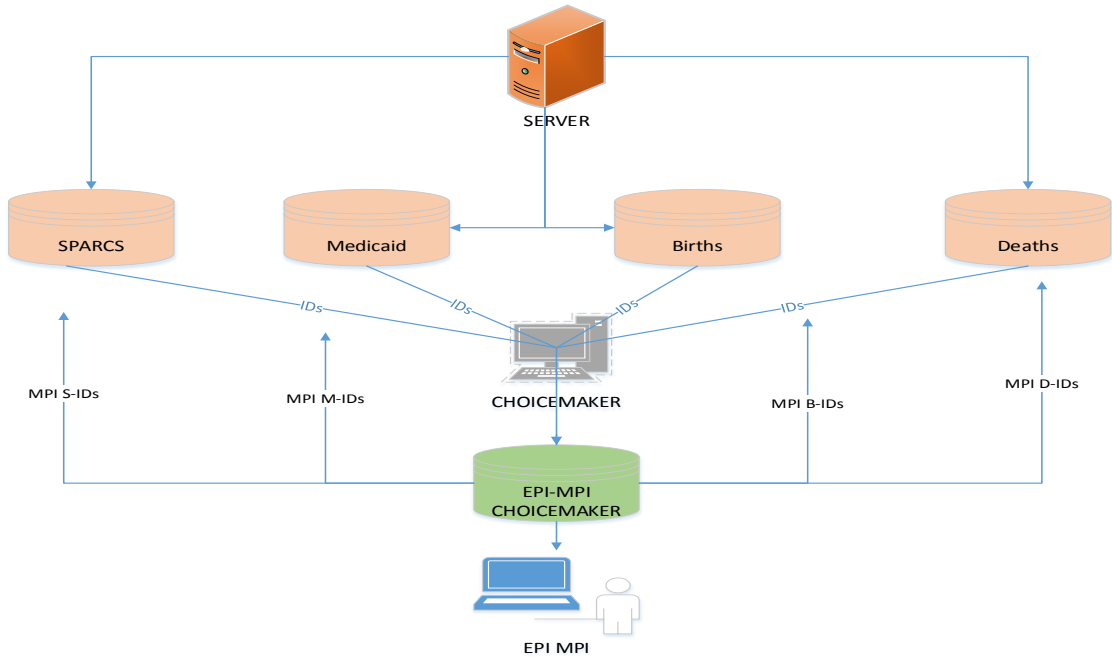3. Epi MPI-Linking 3 years of Administrative Health Data (2013-2015)

364,214 Births

160,563 Deaths

67M Hospitalizations

5.2 M Medicaid enrollees

600M Claims

Linked UPI

MPI

Linked Siblings

Residential History

4. Active Matching Projects that could be replaced by central Epi MPI
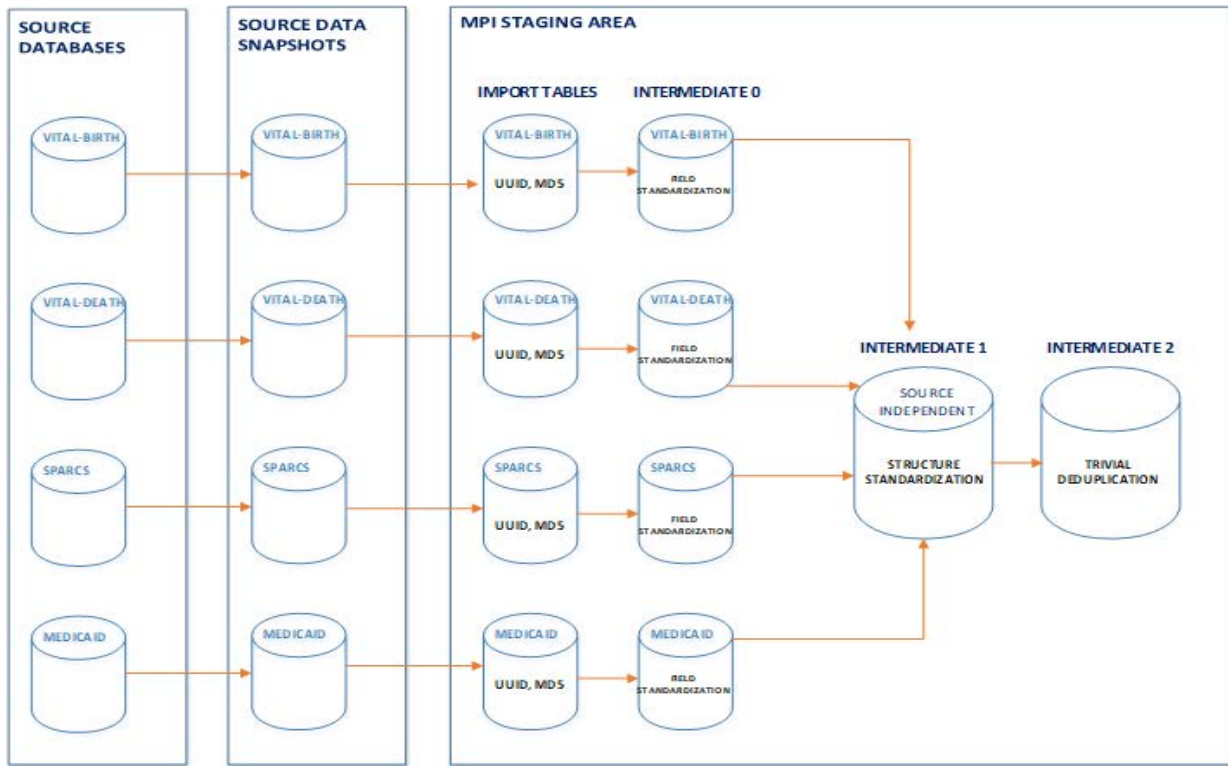
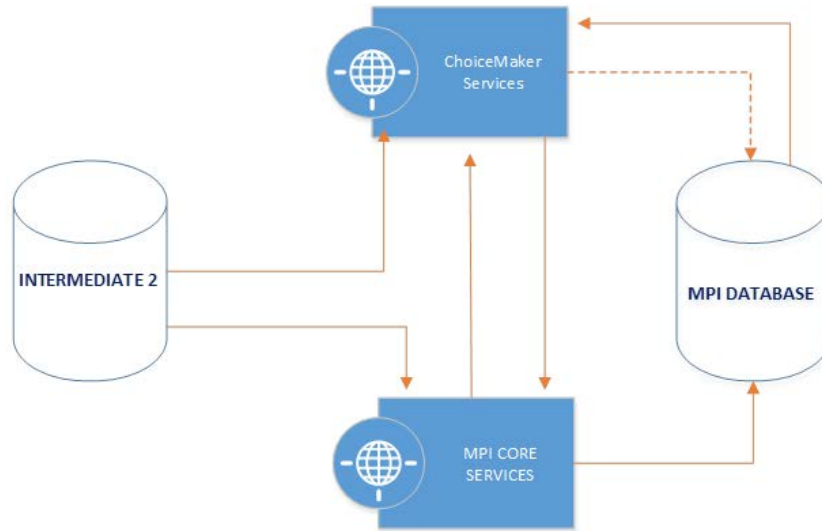| Data Source Matched	Active Projects
1. Hospital Discharge – Medicaid Data – Vital Records – other Data Source	2
2. Hospital Discharge – Vital Births or Deaths	9
3. Hospital Discharge – Other Data Source	19
4. Medicaid – Other Data Source	6

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5. Epi-MPI Architecture

6. Staging Data for subsequent Match/Link by ChoiceMaker

7. Epi-MPI Match/Link Patient Records and Store in MPI Database

8. Epi MPI Linking Machine

9. Epi-MPI – Efficient Operations for creating DOHMH Research and Surveillance Datasets

10. Epi MPI – Improved Privacy and Identifier Security

11. Epi MPI Reduced duplicative processes and data storage needs

12. Epi MPI Examples of Public Health Use Cases
- Validation
  - Reconcile entities across data sources and with other data sources
  - race and ethnicity
  - Self report
  - Etc.
- Evaluation
  - Asthma risk in school
  - Vision 0 impact of road changes
  - Supportive housing evaluations
  - Impact of naloxone distribution
- Examination of co-morbidities across disease registries
- Complete patient picture for surveillance practices
- Examination of maternal morbidity and mortality through multiple data sources
- Morbidity and mortality among select populations
- Health utilization patterns
- Other descriptive monitoring patterns

13. Current and Future Epi MPI Stakeholders and Developments

- Management Stakeholders
  - COH, Divisions of EPI, Family and Child Health, Disease Control, DIIT-Informatics
- Continued Development
  - Data Governance Committee
  - Additional years of data (legacy and prospective)
  - More timely data
- Future Investment
  - Web based applications
    - Automate extracts
    - Enables MPI views
  - Additional enhancements to improve performance and efficiency

14.

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