Matching inpatient hospitalization records to the New York City HIV surveillance registry, 2013

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Speaker Disclosures

• No commercial or financial relationships to disclose
Rationale for matching

• New York City (NYC) HIV surveillance registry used to monitor the clinical status of people with HIV/AIDS (PWHA)

• New York State’s Statewide Planning and Research Cooperative System (SPARCS) maintains hospital discharge records for all hospitalized patients

• Linking these sources allows us to:
  • Gain a more complete picture of health care interactions among PWHA
  • Characterize PWHA receiving inpatient care
  • Identify reasons for hospitalization and comorbidities
Match process

122,679 PWHA in the NYC HIV registry
• Alive as of 1/1/2013
• Diagnosed with HIV as of 12/31/2013

822,469 hospitalized individuals
• At least one hospitalization in an NYC facility in 2013
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16 match rounds using keys
- Partial first/last name
- Full date of birth
- Partial SSN
- Sex
- Zip code
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Manual review
- Non-matches flagged as HIV-infected by hospital (N=1,948)
- Low match scores (N=83)
Resulting dataset

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16,648 matched PWHA with
27,049 hospitalization events

• Manual review resulted in matching 690 patients flagged as HIV-infected by hospital that did not match programmatically

• Overall, 12,990 (78%) of 16,648 PWHA were flagged as HIV-infected in hospital records
Conclusions

• Matched data can be analyzed at patient or event level to provide insight into clinical care patterns among NYC PWHA

• Match methods can be applied to additional years and to future matches with other data sources

• Limitation: lack of full name for match

• Next steps:
  • Compare hospitalization rates among demographic subpopulations
  • Characterize reasons for hospitalizations (HIV or other condition)
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