Emerging and Innovative Sources of Health Data

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My definition of traditional

- Administrative claims data aggregated from
  - hospital-based (BIDMC)
  - payer-based (BCBS)
  - physician organizations (BIDPO)
  - health data consortia (MHDC)
Non-traditional and emerging data sources

- Datamarts from hospital-hosted EHRs and Departmental systems
- Regional aggregated databases from regional healthcare IT extension centers (MAeHC)
- RHIOs - lab aggregation for payers, clinical summaries, eRx
- Surescripts/Rx Hub
- Labs compliant with HITSP standards
- Social Security Administration/Megahit
- Centers for Disease Control/Biosense
Non-traditional and emerging data sources

• Medical societies (Mass Medical Society)
• Departments of Public Health
• Consumer Healthcare Devices (Continua)
• PHRs - tethered, payer, employer-sponsored and vendor-based
  – Comments about Google Health and Health Vault
  – Comments about patient entered data
• Google Trends
• Aegis
• Catalyst/Shrine
SHRINE – Shared Health Research Information Network
Two List Demographics Comparison

Number of patients in Morbid Obesity = 2829
Number of patients in Allergic Asthma = 2407

Age Comparison

Reference list includes all patients in the database.

<table>
<thead>
<tr>
<th></th>
<th>List1</th>
<th>List2</th>
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</thead>
<tbody>
<tr>
<td>Mean</td>
<td>46.52</td>
<td>43.77</td>
</tr>
<tr>
<td>StdDev</td>
<td>12.21</td>
<td>21.97</td>
</tr>
<tr>
<td>n</td>
<td>2829</td>
<td>2407</td>
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z-score = 5.467
p-value = 0