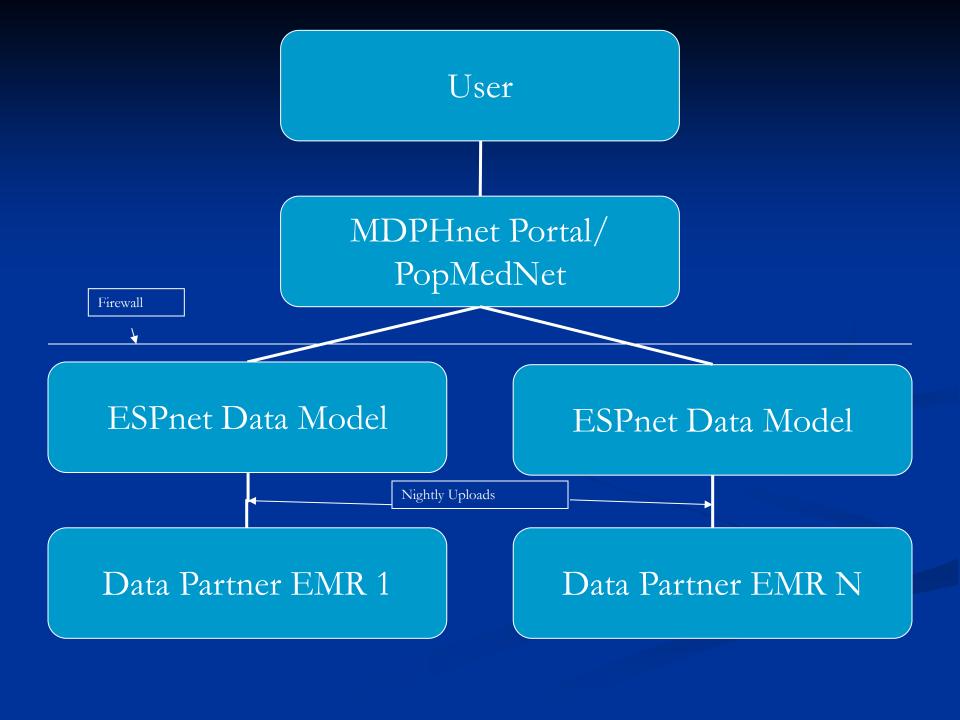
MDPHnet: Real-time Public Health Surveillance

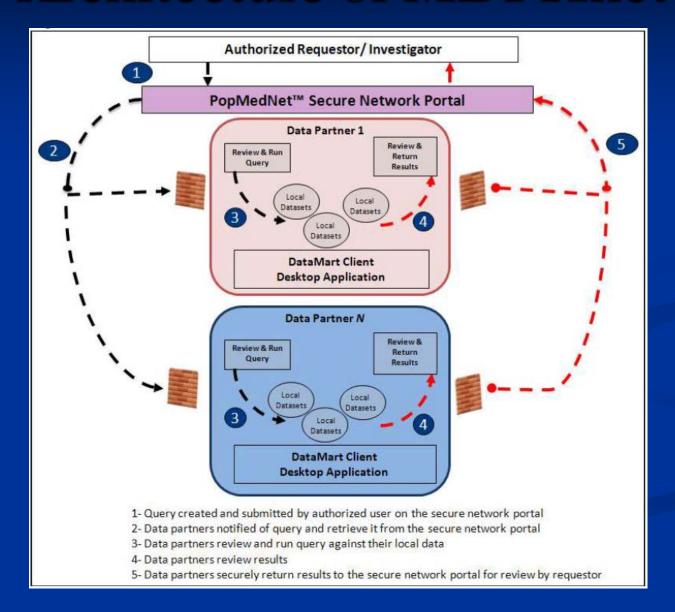
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Overview of MDPHnet

- Ambulatory data
 - Patient visits, pharmacy and labs
- Collaborative effort
 - MDPH, Atrius Health, Massachusetts League of Community Health Centers, Cambridge
 - Health Alliance
- Online query builder tool
 - Complex querying also available



Architecture of MDPHnet



Features of MDPHnet

- Privacy
 - Data stays with the providers
- All ICD-9 codes available
 - Many possibilities, new information
- Reportable diseases
 - ILI and Diabetes
 - Smoking and Asthma
- SQL Submission
 - Enables querying of entire data model

Features of MDPHnet

- Scheduled Queries
- ZIP code stratification
- Cohorts

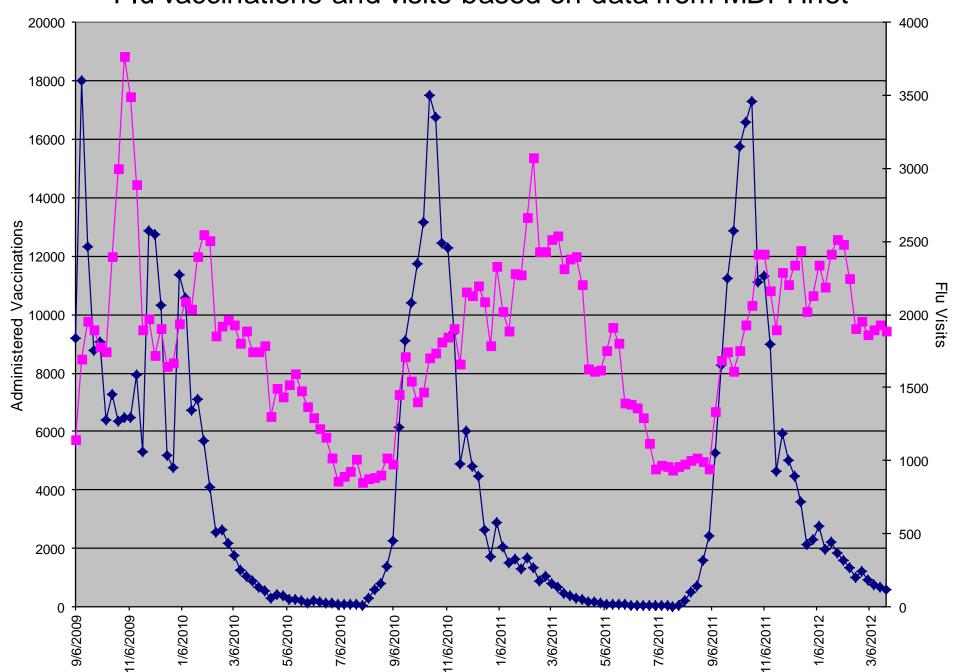
Interoperabilty

- Atrius uses different EMR system from Mass League and Cambridge Health Alliance
- Built with the Query Health standard

MDPHnet Usage

- 15% of epidemiologists at the department registered
- Monthly usergroups
- Proof-of-Concept queries
 - Diabetes

Flu vaccinations and visits based on data from MDPHnet



Governance

- Representatives from each partner
- Monthly meetings
- Governance document
 - Response times
 - Suppression rules
- Funding and support structure

Future

- Statistical extrapolation to state prevalences
- Linkages
- Basis for cloud-based tools at DPH

More Information

- Systems like this have potential nationwide
- Other pilot projects are currently in various stages
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