

Secondary Use of EHR Data: Are Research Data Repositories Obsolete?

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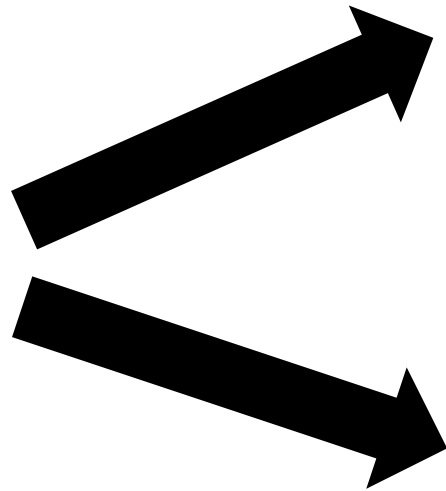
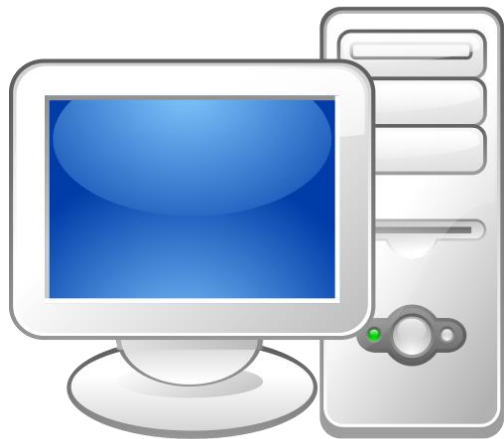
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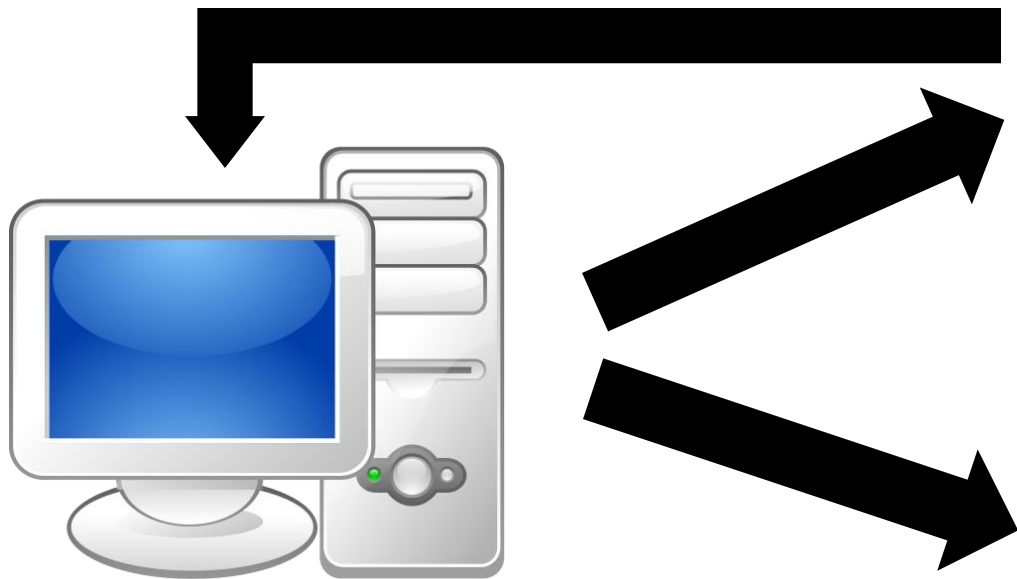
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**Patient Care
(1° Use)**

**Research
(2° Use)**



**Patient Care
(1° Use)**

**Research
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Primary Use of EHR Data

- Documentation
 - Clinical
 - Billing
 - Legal
- Clinical Decision Support
- Population Health Management
- Regulatory Compliance
- Maximize “pay for outcomes”

Functional Requirements for 2^o Use

- Data aggregation
- De-duplication (e.g. eMPI)
- “Normalization” (common data model)
- “Cleaning” (QA)
- Presentation tools
 - Queries
 - Extraction
 - De-identification

There is no functional difference
between a research data repository
and a population health management
system

Population Health Systems are Superior to Research Data Repositories

- Financially supported by clinical operations
- Vendor supported
- Scope is driven by clinical needs which are often broader than research needs
- Buy vs. build
- Tight integration to 1^o use case (patient care)



Issues

- Gaps in tools
- Poorly described common data model (normalization)
- Funding of population health may be in jeopardy
- HIPPA vs. IRB environment
 - anonymization
- Linkage to genomics data
- Linkage to research networks