Secondary Uses of Health Data
IMPAC’s Oncology Data Alliance Program

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IMPAC Medical Systems Inc.
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- Est. 1990.
- Elekta Company
- Provides healthcare IT solutions that streamline clinical and business operations across the spectrum of cancer care
- Core product is an oncology-specific Electronic Medical Record (EMR) system
  - Includes substantial reporting capabilities
  - Numerous interfaces to external HIS, billing, device, cancer registry, other resources…
  - Patient safety, practice administration, data management all components of system
Overview

- Quality assurance initiative, est. 2005
- Increase physician use of EMR
- Help customers prepare for pay for performance
- Leverage oncology practice community
- Leverage data aggregate byproduct

Program is optional; $0 cost to IMPAC EMR customers
ODA Program Description

- Consortium of customers primarily using Med Oncology product
- Implementation combines software with customer training/support
  - Train customer in best data entry practices
  - Software => limited data set electronically transferred monthly to update the aggregate
  - IMPAC creates de-identified aggregate of customers’ EMR data
  - Feedback to customers and IMPAC
Data Composition

- Subset of Medical Oncology (MO) and Radiation Oncology (RO) variables
  - Basic patient demographics
  - Diagnostic information
  - Laboratory data
  - Drug and radiation utilization
Data De-identification

- No names, city or state, zip codes, or staff names are collected.
- Select Treatment dates are collected
  - Shifted by a set interval each time aggregate is created in order to further de-identify
  - Enables interval between treatment times to remain accurate, while hiding actual dates
- DOB is used to calculate age only and is not recorded in the aggregate
Quality reports that disclose “missing data” elements per patient

Access to a secure website to access aggregate de-identified data
  - Analyze using IMPAC’s data analysis tools
  - Benchmark their site alone or in comparison to other de-identified facilities and aggregate
IMPAC provides de-identified data aggregate to external commercial partners

- Consulting and healthcare research firms
- Have significant interest in real-time patterns of care

Program members fully participate in this partnership
HIPAA-related Considerations

- Program created as vehicle to collect, aggregate, and de-identify oncology data
- IMPAC: Learns how to improve product to better support customers/patients
- Customers: QA comparisons against aggregated baselines
- Customers: Access to other data quality reports and trends
- Participation in program permissible disclosure of data to IMPAC as a covered entity health care operation.
Dedicated department that oversees and ensure all data aggregation and transfer processes are HIPAA... compliant

- Compliance processes
- Audits of processes
- Assures proper management of legacy data including data protection, user audits, and intended data destruction
Future Plans

- “Open the faucet” –
  - Enhancing the interface from the EMR to the ODA
  - Enhancing the interface from the EMR to Registry
- Improving data quality
  - Real-time feedback
  - Facility real-time reporting
- Evolve to Cancer Registry
  - Cancer registry system of future should approach real-time
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