

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

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IMPAC Medical Systems Inc.

enter a new
dimension
in oncology IT

IMPAC Medical Systems, Inc.

- ❖ 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



Oncology Data Alliance (ODA) QA Program

❖ 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

ODA Customer Benefits

- ❖ 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



Data Partners

- ❖ 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.



IMPAC Regulatory Affairs Department

- ❖ 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 feed back
 - Facility real-time reporting
- ❖ Evolve to Cancer Registry
 - Cancer registry system of future should approach real-time



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