Missouri Primary Care Association Requirements Specification

Health Center Data Warehouse

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1 Overview

The Data Warehouse (DW) will enable the Missouri Primary Care Association (MPCA) to report on data aggregated across all of the CHCs in the state of Missouri. In addition the DW will provide an alternative location for the CHCs to create customize reports on their data.

The DW will provide a centralized location to examine Benchmarks, examine Best Practices, and increase access to information from a normalized reporting platform.

2 Common Schema

The DW will consist of a set of tables shared across all of the CHCs. As data is received by the DW, it will be normalized to a common set of code value tables in the DW. This will keep the DW consistent across all of the data from the CHCs.

2.1 Data Sources

- 2.1.1 The DW will have feeds from 22 CHCs in Missouri into the DW.
- 2.1.2 The DW shall accept an HL7 feed from EHS, NextGen, Sage, and others as necessary.
- 2.1.3 The DW shall accept a flat file feed from a PECS export.
- 2.1.4 Other feeds will exist and need to be defined.
- 2.1.5 The DW shall provide a user entry tool for financial data.

2.2 Data Consistency

- 2.2.1 Each Data Source Feed will comply with the following:
 - 2.2.1.1 Patient Matching
 - 2.2.1.2 Encounter Matching
 - 2.2.1.3 Lab/Medicine/Treatment/Immunization Code Value Lookup
 - 2.2.1.4 Diagnosis/Condition Code Value Lookup

2.2.2 Data Scrubbing and Auditing

- 2.2.2.1 Tools will be developed to allow the DW to be cleansed on a regular basis for invalid data.
- 2.2.2.2 Tools will be developed to modify the Code Tables necessary for the DW.

2.3 Data Security & Access

- 2.3.1 The DW must be able to support 200 users.
- 2.3.2 The DW must comply with HIPAA.

- 2.3.3 The DW will utilize Secure Sign-Ons with a DW Active Director Domain.
- 2.3.4 The DW will allow Health Center level security. A user must be assigned access to a Health Center in order to access the Health Center's data Unblinded.
- 2.3.5 The DW will allow reports to be aggregated across multiple Health Centers.
- 2.3.6 The DW Hardware will be physically hosted in a secured environment.
- 2.3.7 A Business Associate Agreement (BAA) must be in place between the CHCs and the MPCA.
- 2.3.8 A BAA must be in place between the MPCA and its staff.

2.4 Reports & Analysis

The purpose of the Data warehouse is to generate timely and accurate reports for the CHCs, the PCA, the State of Missouri, and HRSA.

- 2.4.1 The following reports must be built:
 - 2.4.1.1 Registry Summary Reports
 - 2.4.1.1.1 Diabetes
 - 2.4.1.1.2 Depression
 - 2.4.1.1.3 Asthma
 - 2.4.1.1.4 Cardiovascular
 - 2.4.1.1.5 Cancer
 - 2.4.1.2 FQHC Unblinded Scorecard
 - 2.4.1.3 FQHC Blinded Scorecard
 - 2.4.1.4 Business Plan Debt to Ratio
 - 2.4.1.5 Provider Scorecards
- 2.4.2 An Add-Hoc Report Creation Ability must be present as well.
- 2.4.3 The DW will allow Microsoft Excel to access the data for analysis.
- 2.4.4 A Dashboard type report will be created.
- 2.4.5 An end-user Report Builder must be available.

3 Future Expandability

- 3.1 The Data Warehouse will be flexible enough to allow direct data entry into the warehouse.
- 3.2 The Data Warehouse will be flexible enough to allow integration with current and future State Systems.
- 3.3 The Data Warehouse will be flexible enough to allow bidirectional communication with the CHC EMR systems.