

## Tier 1 – Baseline Connectivity Criteria

| Tier                      | Customers   | Stakeholders   | Customer Responsibilities   | Stakeholder Responsibilities   | VHIE Responsibilities   | Objective and Characteristics   | Value in Connecting to the VHIE  | Data Criteria  | Security  | Outcome   |
|---------------------------|---|--|---|--|---|---|--|--|---|---|
| 1 – Baseline Connectivity | <p>Health care organizations (HCO) contributing patient data for use at the point of care.</p> <p>HCOs contributing data as required by health reform delivery and payment programs (ACO, Blueprint for Health, MU, Vermont Dept of Health, other programs)</p> | Green Mountain Care Board (GMCB), ACO, Blueprint for Health, Vermont Dept for Health, VCCI, etc. | Engage with VITL to meet the Baseline Connectivity Criteria; establish connectivity to the VHIE; build interfaces from the Health care organization’s EHR to the VHIE | <p>Identify priority HCOs and their locations needing to contribute data</p> <p>Communicate to the prioritized HCOs the program’s need and use for data.</p> | <p>Establish and publish technical requirements that support secure, standard connections.</p> <p>Assess baseline data compliance for patient matching and message structure to share data using the <a href="#">Baseline Connectivity Criteria scoring worksheet</a></p> <p>Work with customer to establish connectivity and build interfaces from the HCO to the VHIE and from the VHIE to the Stakeholder’s system(s).</p> | <p>Interfaces are established that meet HL7 industry standards outlined in the VHIE Baseline Connectivity Criteria document.</p> <p>Interfaces to the VHIE are sufficient to support patient identity matching</p> <p>Interfaces to the VHIE are sufficient for transmitting data to Stakeholder(s)</p> <p>Access to patient data is supported by HIPAA or Vermont law, including patient consent</p> | <p>Clinician access to patient information integrated within the provider’s EHR or using the VHIE Provider Portal (VITLAccess)</p> <p>Electronic results delivery from the VHIE (e.g., hospital or third-party laboratory results) seamlessly integrated within a provider’s EHR.</p> <p>Data electronically delivered to and accessible within Vermont Immunization Registry</p> <p>Data facilitates timely and accurate Event notification systems</p> | <p>Meet the VHIE Baseline Connectivity Criteria which identifies requirements for patient matching and system specifications for sufficient, secure data exchange.</p> <p>Include the Connectivity Criteria tier achievement in HIT-related Certificate of Need requests to the GMCB</p> | <p>Complete VHIE Services Agreement to meet legal business, operational and security requirements.</p> <p>Attest to HIPAA Compliance.</p> | <p>Clinicians can access patient data across healthcare settings.</p> <p>Records are matched to the correct patients and duplicate patients are avoided.</p> <p>Data is used to analyze population health</p> |

## Tier 2 – Common Clinical Data Set and Data Quality Connectivity Criteria

| Tier  | Customers   | Stakeholders   | Customer Responsibilities   | Stakeholder Responsibilities   | VHIE Responsibilities   | Objective and Characteristics  | Value in Connecting to the VHIE   | Data Criteria   | Security       | Outcome   |
|---|---|--|---|--|---|--|---|---|----------------|---|
| 2 – Common Clinical Data Set and Data Quality Standards | Participating HCOs in ACO, VCCI, Blueprint for Health, Bi-State, other programs | <p>Population Health Management and Quality care programs (Accountable Care Organization (ACOs); Blueprint for Health; Vermont Department of Health; other)</p> <p>Care management programs being supported (VCCI, OneCare, others).</p> <p>Policy makers, clinicians and HCO administrators reliant on data reports from the Accountable Care Organization (ACOs); Blueprint for Health; Vermont Department of Health; other.</p> <p>Green Mountain Care Board (GMCB)</p> | <p>Capture data in discrete data fields in EHR.</p> <p>Hold EHR vendors accountable for sharing data for program(s) in which the HCO participates</p> <p>Complete the <a href="#">Data Set and Data Quality Standards Worksheet</a> containing the common data set requirements</p> | <p>Establish common clinical data set.</p> <p>Identify HCOs needing assistance in meeting Clinical Quality measures for their program.</p> <p>Partner with VITL and the HCO and the program(s) in data quality projects to improve data quality during and/or post-interface implementation.</p> | <p>Assess the ability of HCOs to document minimum data sets and their EHR’s capability to send that data using the <a href="#">Data Set and Data Quality Standards Worksheet</a>.</p> <p>Facilitate the effort with HCOs to improve data quality at the documentation level or the EHR technical level to meet stakeholder’s and customer’s minimum data requirements.</p> <p>Identify data delivery and standardization opportunities</p> <p>Resolve data delivery and standardization opportunities</p> | <p>Minimum clinical data sets are complete, accurate.</p> <p>Clinical data is standardized and therefore interoperable</p> <p>Expanded applications such as care management and clinical data use can be supported to meet customer specified usage.</p> <p>Performance measurement and population health management applications are enabled.</p> | <p>Same as Tier 1 with the addition of:</p> <p>Supports Care management tools (Vermont Chronic Care Initiative, etc.) by those engaged in the care continuum</p> <p>Reduces manual effort by enabling chart abstraction tools for quality measure and population health reporting (Bi-State FQHC, Blueprint for Health, etc.)</p> <p>Robust data analysis and reporting to measure performance (Blueprint for Health practice profiles, ACO OneClick, etc.)</p> | <p>Participates in and complies with programs that have specific data quality requirements.</p> <p>Meet the common clinical data set requirements in the <a href="#">Clinical Data Set and Data Quality Standards Worksheet</a></p> <p>Include the Connectivity Criteria tier achievement in HIT-related Certificate of Need requests to the GMCB</p> | Same as Tier 1 | Increased data quality enables usage and confidence in information for quality performance measurement and population management reporting. |

## Tier 3 – Expanded Clinical Data Set and Data Quality Connectivity Criteria

| Tier                                   | Customers   | Stakeholders   | Customer Responsibilities   | Stakeholder Responsibilities  | VHIE Responsibilities  | Objective and Characteristics   | Value in Connecting to the VHIE  | Data Criteria   | Security       | Outcome   |
|--|---|--|---|---|--|---|--|---|----------------|---|
| 3 – Clinical Data Set and Data Quality | Participating HCOs in ACO, VCCI, Blueprint for Health, Bi-State, other programs | <p>Population Health Management and Quality care programs (Accountable Care Organization (ACOs); Blueprint for Health; Vermont Department of Health; other)</p> <p>Care management programs being supported (VCCI, OneCare, others).</p> <p>Policy makers, clinicians and HCO administrators reliant on data reports from the Accountable Care Organization (ACOs); Blueprint for Health; Vermont Department of Health; other.</p> <p>Green Mountain Care Board (GMCB)</p> | <p>Capture data in discrete data fields in EHR.</p> <p>Hold EHR vendors accountable for sharing data for program(s) in which the HCO participates</p> <p>Complete the <a href="#">Data Set and Data Quality Standards Worksheet</a> containing the expanded data set requirements</p> | <p>Establish expanded clinical data set</p> <p>Identify standardization issues to achieve interoperability</p> <p>Identify HCOs needing assistance in meeting Clinical Quality measures for their program</p> <p>Partner with VITL and the HCO and the program(s) in data quality projects to continuously improve data quality</p> | <p>Assess the ability of HCOs to document full data sets and their EHR’s capability to send that data using the <a href="#">Data Set and Data Quality Standards Worksheet</a>.</p> <p>Facilitate the effort with HCOs to improve data quality at the documentation level or the EHR technical level to meet stakeholder’s and customer’s data requirements.</p> <p>Identify data delivery and standardization opportunities</p> <p>Resolve data delivery and standardization opportunities</p> | <p>Clinical data sets are complete, accurate, standardized, and interoperable</p> <p>Performance measurement and population health management applications are optimized.</p> | <p>Same as Tiers 1 and 2 with the addition of:</p> <p>Data can be used for advanced end user tools and services (Care Management tools, custom data marts for customer use</p> <p>Advanced reporting driven by clinical data (Comparative data sets, etc.)</p> | <p>Meet the clinical data set requirements in the <a href="#">Clinical Data Set and Data Quality Standards Worksheet</a></p> <p>Scope of data collected supports performance measures and interoperability supports population health management.</p> <p>Include the Connectivity Criteria tier achievement in HIT-related Certificate of Need requests to the GMCB</p> | Same as Tier 1 | Increased data quality enables usage and confidence in information to optimize quality performance measurement and population management reporting. |