

## **2.0 Patient Registry**

Goal: Enable providers to manage their patients both at the population level and at point of care through use of a comprehensive patient registry.

21 total capabilities; 1 retired.

Capabilities 2.11, 2.12 and 2.16 applicable to: Adult Patients only

Capabilities 2.17 and 2.18 applicable to: Peds Patients only

*Applicable to PCPs; and to specialists for the patients for whom they have primary or co-management responsibility (regardless of insurance coverage and including Medicare patients).*

*For all Patient Registry capabilities except 2.9, registry may be paper or electronic. A fully electronic registry may be the last capability to be implemented.*

*Nine of the Patient Registry capabilities identify the population of patients included in the registry (2.1, 2.10, 2.11, 2.12, 2.13, 2.15, 2.16, 2.17, and 2.18). The other twelve Patient Registry capabilities pertain to registry functionality (2.2, 2.3, 2.4, 2.5, 2.6., 2.7, 2.8, 2.9, 2.14, 2.19, 2.20, and 2.21). All capabilities pertaining to functionality that are marked as in place must be in place for each population of patients marked as “included” in the registry.*

### **2.1**

***A paper or electronic all-payer registry is being used to manage all established patients in the Practice Unit with: Diabetes  
(For specialists, relevant patient population selected for initial focus and not addressed in other 2.0 capabilities)***

#### **PCP Guidelines:**

- a. “Active use” is defined as using the key content of the registry to conduct outreach and proactively manage the patient population
  - i. Generating patient lists that are not being actively used to manage the patient population does not meet the intent of this capability
- b. A patient registry is a database that enables population-level management in addition to generating point of care information, and allows providers to view patterns of care and gaps in care across their patient population. A registry contains several dimensions of clinical data on patients to enable providers to manage their population of patients.
- c. Relevant clinical information that is the focus of attention in generally accepted guidelines, and is incorporated in common quality measures pertinent to the chronic illness, must be incorporated in the registry (i.e., physiologic parameters, lab results, medication use, physical findings, and patient behaviors such as peak flow meter use or daily salt intake).
- d. Registry data must be in the form of data fields that are accessible for tabulation and population management.
- e. Registry must include all established patients with the disease referenced in the capability, regardless of insurance coverage (including Medicare patients)
- f. Patients assigned by managed care organizations do not have to be included in registry if they are not established patients (reference 2.15); however, outreach to those patients may be appropriate (reference 1.2 and 2.15)
- g. Patient information may be entered by the practice, populated from EHR or other electronic

or manual sources, or populated with payer-provided data

- i. Registry must include data pertinent to the clinical performance measures contained in the Clinical Quality Initiative (e.g., BCBSM-provided data or similar data from other sources)
- h. Registry may initially be a component of EHR for basic-level functioning, as long as the practice or the PO has the capability to use the EHR to generate routine population-level performance reports and reports on subsets of patients requiring active management.
  - i. Subsets of patients requiring active management refers to those patients with particular chronic illness management needs including but not limited to those who have physiologic parameters out of control, or who have not received specified, essential services
- i. Reference AAFP article for additional information on creating a registry:  
<http://www.aafp.org/fpm/2011/0500/p11.html>

*Specialist Guidelines:*

- a. Active use is defined as using the key content of the registry to conduct outreach and proactively manage the patient population
  - i. Generating patient lists that are not being actively used to manage the patient population does not meet the intent of this capability
- b. A patient registry is a database that enables population-level management in addition to generating point of care information, and allows providers to view patterns of care and gaps in care across their patient population. A registry contains several dimensions of clinical data on patients to enable providers to manage and improve the health of their population of patients.
- c. Relevant clinical information that is the focus of attention in generally accepted guidelines and is incorporated in common quality measures pertinent to the patient population must be incorporated in the registry (e.g., physiologic parameters, lab results, medication use, physical findings, and patient behaviors such as peak flow meter use or daily salt intake).
- d. Registry data must be in the form of data fields that are accessible for tabulation and population management.
- e. Registry must include all established patients for which the specialist has ongoing primary or co-management responsibility with the condition referenced in the capability, regardless of insurance coverage (including Medicare patients)
  - i. For ER physicians, a registry that tracks frequent ER users, or patients with drug-seeking behavior, may qualify
- f. Patients assigned by managed care organizations do not have to be included in registry if they are not established patients (reference 2.15).
- g. Patient information may be entered by the practice, populated from EHR or other electronic or manual sources, or populated with payer-provided data
  - i. Registry must include data pertinent to key clinical performance measures (e.g., BCBSM-provided data or similar data from other sources)
- h. Registry may initially be a component of EHR for basic-level functioning, as long as the practice or the PO has the capability to use the EHR to generate routine population-level performance reports and reports on subsets of patients requiring active management.
  - i. Subsets of patients requiring active management refers to those patients with particular management needs including but not limited to those who have physiologic parameters out of control or who have not received specified, essential services
  - ii. For example, for behavioral health providers, i.e., psychologists and psychiatrists,

common relevant conditions would be depression and anxiety

- i. Reference AAFP article for additional information on creating a registry:  
<http://www.aafp.org/fpm/20060400/47usin.html>

Required for PCMH Designation: NO	Predicate Logic: n/a
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"><li>• Demo the process of using the registry tool to identify the patient population</li><li>• Registry should contain relevant clinical info</li><li>• How is the info entered in the registry?</li><li>• What do you do with it when you receive it, how do you address gaps in care?</li></ul>	

## 2.2

***Registry incorporates patient clinical information, for all established patients in the registry, for a substantial majority of health care services received at other sites that are necessary to manage the population***

### PCP Guidelines:

- a. Registry may be paper or electronic
- b. "All patients in the registry" may consist, for example, of diabetes patients only, if practice unit has only implemented capability 2.1.
- c. The registry is not expected to contain clinical information on all health care services received at any site for 100% of patients in the registry, but is expected to contain a critical mass of information from various sources, including the PO's or practice unit's own practice management system, and electronic or other records from facilities with which the PO or practice unit is affiliated
- d. **Other sites and service types are defined as labs, inpatient admissions, ER, UCC, and pharmaceuticals** (with dates and diagnoses where applicable).
- e. The definition of "substantial majority of health care services" is three-quarters of **preventive and chronic** condition management services rendered to patients.
- f. If registry is paper, information may be extracted from records and recorded in registry manually, and must be in the form of an accessible data field for population level management of patients

### Specialist Guidelines:

- a. Registry may be paper or electronic
- b. "All patients in the registry" may consist of patients relevant to the specialty type, if practice unit has only implemented capability 2.1.
- c. The registry is not expected to contain clinical information on all health care services received at any site for 100% of patients in the registry, but is expected to contain a critical mass of information from various relevant sources, including the PO's or practice unit's own practice management system, and electronic or other records from facilities with which the PO or practice unit is affiliated
- d. Other sites and service types are defined as labs, inpatient admissions, ER, urgent care and pharmaceuticals (with dates and diagnoses where applicable), when relevant to the condition being managed by the specialist,
- e. The definition of "substantial majority of health care services" is three-quarters of relevant services rendered to patients.

- f. If registry is paper, information may be extracted from records and recorded in registry manually, and must be in the form of an accessible data field for population level management of patients

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• What data elements are included in population registry?</li> <li>• At least 4 out of the 5 data elements from other sites (Lab, ED, IP, UC, Meds) must be in registry and/or patient record</li> </ul>	

### **2.3**

#### ***Registry incorporates evidence-based care guidelines***

*PCP and Specialist Guidelines:*

- a. Registry functionality may be paper or electronic.
- b. Guidelines should be drawn from recognized, validated sources at the state or national level (e.g., MQIC Guidelines, USPSTF).
- c. Determination of which evidence-based care guidelines to use should be based on judgment of practice leaders.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Incorporates evidence based care guidelines (MQIC, HEDIS)</li> <li>• Review data elements in registry to ensure evidence-based care guidelines are incorporated</li> </ul>	

### **2.4**

#### ***Registry information is available and in use by the Practice Unit team at the point of care***

*PCP and Specialist Guidelines:*

- a. Registry functionality may be paper or electronic.
- b. Practice unit has and is fully using the capability to generate up-to-date, integrated individual patient reports at the point of care to be used during the visit.
- c. EHR would meet the requirements of this capability provided it contains evidence-based guidelines, and relevant information is identified and imported into screens or reports that facilitate easy access to all relevant data elements particular to the conditions under management, for the purpose of guiding point of care services.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	

- Actively using at point of care
- Ask about use of registry pre/during/post patient interaction in EMR or chart

**2.5**

***Registry contains information on the individual practitioner for every patient currently in the registry who is an established patient in the practice unit***

**RETIRED**

PCP Guidelines:

- a. Registry may be paper or electronic
- b. The individual practitioner responsible for the care of each patient is identified in the registry
  - i. Occasional gaps in information about some patients' individual attributed practitioner due to changes in medical personnel are acceptable

Specialist Guidelines:

- c. Registry may be paper or electronic
- d. The individual practitioner responsible for the care of each patient is identified in the registry
  - i Registry should contain information on both specialist and patient's primary care physician
  - ii Exceptions may be granted when patient does not want to identify provider, e.g., behavioral health providers
  - ii. Occasional gaps in information about some patients' individual attributed practitioner due to changes in medical personnel are acceptable

**2.6**

***Registry is being used to generate routine, systematic communication to patients regarding gaps in care***

PCP and Specialist Guidelines:

- a. Registry may be paper or electronic.
- b. Communications may be manual, provided there is a systematic process in place and in use for generation of regular and timely communications to patients.
- c. Communications may be sent to patients via email, fax, regular mail, text messaging, or phone messaging.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Used to identify gaps in care, communicated (mail, phone, email, portal) to patient</li> <li>• Demo use of registry to reach out to patients</li> </ul>	

## 2.7

### ***Registry is being used to flag gaps in care for every patient currently in the registry***

#### PCP and Specialist Guidelines:

- a. Registry may be paper or electronic.
- b. Registry must have capability to identify all patients with gaps in care based on evidence-based guidelines incorporated in the registry.
- c. EHR would meet the requirements of this capability if it can be used to produce population level information on gaps in care for chronic condition patients.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"><li>• Used to flag gaps in care for all patients in registry</li><li>• How are patients identified, missing tests, missed data elements</li></ul>	

## 2.8

### ***Registry incorporates information on patient demographics for all patients currently in the registry***

#### PCP and Specialist Guidelines:

- a. Registry may be paper or electronic.
- b. Registry contains basic patient demographics, including name, gender, date of birth.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"><li>• Contains all relevant patient demographics (name, gender, age, etc.)</li><li>• Demonstrate evidence in registry</li></ul>	

## 2.9

### ***Registry is fully electronic, comprehensive and integrated, with analytic capabilities***

#### PCP and Specialist Guidelines:

- a. Practice unit must have capability 2.2 in place in order to receive credit for 2.9
- b. All data entities must flow electronically into the registry
- c. Data is housed electronically
- d. Linkages to other sources of information (as defined in 2.2) are electronic for all facilities and other health care providers with whom the practice unit regularly shares responsibility for health care.
- e. Registry has population-level database and capability to electronically produce comprehensive analytic integrated reports that facilitate management of the entire population of the Practice Unit's patients.

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: 2.2</b>
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PCMH Validation Notes for Site Visits	
<ul style="list-style-type: none"> <li>Fully electronic - direct feed of labs, admits, ED</li> <li>Demonstrate evidence in registry</li> </ul>	

### 2.10

#### ***Registry is being used to manage all patients with: Persistent Asthma***

##### PCP and Specialist Guidelines:

- a. Reference 2.1(a)-(g).

Required for PCMH Designation: NO	Predicate Logic: n/a
PCMH Validation Notes for Site Visits	
<ul style="list-style-type: none"> <li>Demo the process of using the registry tool to identify the patient population</li> <li>Registry should contain relevant clinical info</li> <li>How is the info entered in the registry?</li> <li>What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

### 2.11

#### ***Registry is being used to manage all patients with Coronary Artery Disease (CAD)***

##### PCP and Specialist Guidelines:

- b. Reference 2.1(a)-(g).

Required for PCMH Designation: NO	Predicate Logic: n/a
PCMH Validation Notes for Site Visits	
<ul style="list-style-type: none"> <li>Demo the process of using the registry tool to identify the patient population</li> <li>Registry should contain relevant clinical info</li> <li>How is the info entered in the registry?</li> <li>What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

### 2.12

#### ***Registry is being used to manage all patients with: Congestive Heart Failure (CHF)***

##### PCP and Specialist Guidelines:

- a. Reference 2.1(a)-(g).

Required for PCMH Designation: NO	Predicate Logic: n/a
PCMH Validation Notes for Site Visits	
<ul style="list-style-type: none"> <li>Demo the process of using the registry tool to identify the patient population</li> <li>Registry should contain relevant clinical info</li> <li>How is the info entered in the registry?</li> <li>What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

### 2.13

#### **Registry includes at least 2 other conditions**

##### PCP Guidelines:

- a. Reference 2.1(a)-(g).
- b. Registry includes at least 2 other **chronic conditions not addressed in other 2.0 capabilities** for which there are evidence-based guidelines and the need for ongoing population and patient management, and which are sufficiently prevalent in the practice to warrant inclusion in the registry based on the judgment of the practice leaders
  - i. Examples of other chronic conditions include (but are not limited to) depression or sickle cell anemia, hypertension, anxiety

##### Specialist Guidelines:

- a. Reference 2.1(a)-(g).
- b. Registry is being used to manage all patients with at least 2 other conditions relevant to the specialist's practice for which there are evidence-based guidelines and the need for ongoing population and patient management, and which are sufficiently prevalent in the practice to warrant inclusion in the registry based on the judgment of the practice leaders

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"><li>• Demo the process of using the registry tool to identify the patient population</li><li>• Registry should contain relevant clinical info</li><li>• How is the info entered in the registry?</li><li>• What do you do with it when you receive it, how do you address gaps in care?</li><li>• Note: Remember the two conditions must be different than those listed in previous capabilities</li></ul>	

### 2.14

#### **Registry incorporates preventive services guidelines and is being used to generate routine, systematic communication to all patients in the practice regarding needed preventive services**

##### PCP Guidelines:

- a. Reference 2.1(a)-(g).
- b. Registry must include all current patients in the practice, including well patients, regardless of insurance coverage and including Medicare patients
- c. Preventive services guidelines must be drawn from a recognized state or national source, such as USPSTF, CDC, or national guidelines that address standard primary and secondary preventive services (i.e., mammograms, cervical cancer screenings, colorectal screening, immunizations, well-child visits, well-adolescent visits, and well-adult visits).

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	

- Incorporates preventive services (mammograms, pap smears, immunizations, well visits) & outreach to engage them in practice.

### 2.15

#### ***Registry incorporates patients who are assigned by managed care plans and are not established patients in the practice***

##### PCP Guidelines:

- Patients assigned by managed care plans who are not established patients must be included in the registry, and active outreach conducted to engage them as established patients

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Patients do not need to be added to registry until they are established with practice; if practice can demonstrate active outreach to the assigned-but-not-established patients, this capability can be marked as in place.</li> </ul>	

### 2.16

#### ***Registry is being used to manage all patients with: Chronic Kidney Disease***

##### PCP and Specialist Guidelines:

- Reference 2.1(a)-(g).
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<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Demo the process of using the registry tool to identify the patient population</li> <li>• Registry should contain relevant clinical info</li> <li>• How is the info entered in the registry?</li> <li>• What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

### 2.17

#### ***Registry is being used to manage all patients with: Pediatric Obesity***

##### PCP and Specialist Guidelines:

- Reference 2.1(a)-(g).

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Demo the process of using the registry tool to identify the patient population</li> <li>• Registry should contain relevant clinical info</li> <li>• How is the info entered in the registry?</li> <li>• What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

**2.18**

**Registry is being used to manage all patients with: Pediatric ADD/ADHD**

PCP and Specialist Guidelines:

- a. Reference 2.1(a)-(g).

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Demo the process of using the registry tool to identify the patient population</li> <li>• Registry should contain relevant clinical info</li> <li>• How is the info entered in the registry?</li> <li>• What do you do with it when you receive it, how do you address gaps in care?</li> </ul>	

**2.19**

**Registry contains information identifying the individual care manager for every patient currently in the registry who has an assigned care manager**

PCP and Specialist Guidelines:

- a. Registry may be paper or electronic
- b. Registry includes name of the care manager for each patient with an assigned care manager
- c. Where a patient has more than one care manager, registry must identify which care manager is the lead care manager

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Registry includes name of care manager for each patient with an assigned care manager</li> </ul>	

**2.20**

**Registry contains advanced patient information that will allow the practice to identify and address disparities in care**

PCP and Specialist Guidelines:

- a. Registry may be paper or electronic.
  - i. Registry contains advanced patient demographics to enable practices to identify vulnerable patient populations, including race and ethnicity, and also including data elements such as:
    1. primary/preferred language
    2. measures of social support (e.g., caretaker for disability, family network)
    3. disability status

4. health literacy limitations
5. type of payer (e.g., uninsured, Medicaid)
6. relevant behavioral health information (e.g., date of depression screening and result)
7. social determinants of health such as housing instability, transportation limitations, food insufficiency, risk of exposure to violence

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Registry contains relevant advanced patient demographics, as listed in the guidelines (at least four of the seven elements).</li> </ul>	

### **2.21**

***Registry contains additional advanced patient information that will allow the practice to identify and address disparities in care***

*PCP and Specialist Guidelines:*

- b. Registry may be paper or electronic.
  - ii. Registry contains advanced patient demographics to enable them to identify vulnerable patient populations, including both:
    1. gender identity
    2. sexual orientation

<b>Required for PCMH Designation: NO</b>	<b>Predicate Logic: n/a</b>
<b>PCMH Validation Notes for Site Visits</b>	
<ul style="list-style-type: none"> <li>• Registry contains advanced patient demographics, as listed in the guidelines</li> </ul>	