Electronic Health Record (EHR) Instructions
for the Oracle Health EHR System

Population Health Insights Guide

TO HELP IDENTIFY APPROPRIATE CHILD AND ADOLESCENT PATIENTS FOR IMMUNIZATION AND EVALUATE VACCINATION RATES IN YOUR HEALTH SYSTEM

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01. Guide Overview

This Population Health Insights Guide is intended to help health systems make configuration updates in the Oracle Health (formerly Cerner) EHR Population Health Suite (HealtheIntent) to generate reports that may identify useful insights to support improving vaccination rates for child and adolescent patients. This guide provides suggestions and instructions to monitor and manage vaccination rates and associated population health metrics across the health system.

This guide will not work for other conditions, treatments, therapeutic areas, or on other EHR systems.

This guide provides specific considerations for:

- Identifying pediatric patients with immunization care gaps
- Using Oracle Health-released registries to provide visibility into immunization care gaps
- Using clinical decision support tools to create care gap awareness in the EHR for clinicians

Additionally, this guide will provide an overview of the HealtheIntent module, commonly used features of HealtheIntent, and technical instructions to configure these features across the registries, reporting tools, and health maintenance features within the HealtheIntent solution suite.

The processes outlined in this piece are variable, and not all steps will apply to every customer. Any steps or settings that are not part of a customer's standard process should be excluded or modified accordingly. Any questions should be directed to the appropriate service provider. The practice is solely responsible for implementing, testing, monitoring, and operating of any EHR tools.

This guide is designed for organizations using the most recent Oracle Health code set. Some configurations may be required by a clinical analyst.

Key Terms Used in This Guide

AAP = American Academy of Pediatrics

CDC = Centers for Disease Control and Prevention

HCP = healthcare provider

02. Background

Importance of Managing Immunization of Child and Adolescent Patients to Support Population Health at the Health System Level

The Oracle Health EHR system offers functionality for health systems to manage immunizations at the system or population level by supporting a health system's existing population health strategy. After a health system sets a strategy, which can include improving vaccination rates amongst vulnerable populations and standardizing vaccination processes, tactics can be set at both the health system and local levels to reach these goals. HealtheIntent provides critical tools to support both the strategy and tactics.

Individual tactics—for example, creating a list of patients with immunization care gaps—can help provide valuable care and insights into what is working well at both the health system and individual provider levels. A system-wide approach is suggested to create economies of scale and reduce any outliers that may negatively affect the health system's immunization efforts.

This guide provides instructions on how to help identify child and adolescent patients who may be due for a vaccination. These vaccination series include:

- COVID-19
- DTaP
- Hepatitis A
- Hepatitis B
- Hib
- HPV
- Influenza
- Meningococcal ACWY
- Meningococcal B
- MMR
- Pneumococcal
- Polio
- Rotavirus
- RSV (immunobiologic)
- Tdap
- Varicella

NOTE: The above list does not cover all recommended child and adolescent vaccines. A comprehensive immunization schedule may be found **here**.

03. Oracle Health EHR HealtheIntent Population Health Suite High-Level Overview

HealtheIntent, Oracle Health's population health management solution, includes:

- Comprehensive care management tools
- Advanced reporting capabilities for actionable insights
- Engagement solutions for both providers and patients
- Tools to empower patient activation
- Support for value-based care initiatives

Health systems can utilize HealtheIntent to help improve child and adolescent patient vaccination rates.

04. Overview of HealtheRegistries within the HealtheIntent Module

A critical component of HealtheIntent is **the HealtheRegistry solution**. Registries are commonly used to drive clinical outcomes at the health system level, provide data insights, and expose clinical variation to help guide the health system to meet strategic imperatives for achieving vaccination for appropriate patients.

Registries allow health organizations to identify subsets of their patient population. Registries are organized around a common health element(s) known as **registry inclusion rules**. Common inclusion rules include age, chronic conditions, diagnoses, health measures, immunization status, or other clinical factors. Patients who meet the selected inclusion rule for a particular registry are automatically included in the registry.

Since registries are dynamic, patients who no longer meet the inclusion metric are excluded, and new patients may be introduced. This is handled by a back-end program and does not require action by a provider.

Oracle Health provides many commonly used health registries to health systems; the most relevant registry for immunizations in the Oracle Health EHR system is the Wellness Registry. The **Wellness Registry** drives health maintenance alerts for all preventive measures and vaccination series. However, organizations can modify registries and their inclusion rules to meet their desired specific population health programs.

NOTE: Default registry information in Oracle Health is ingested according to CDC recommendations. However, some organizations may prefer to align recommended vaccines with alternate authorities, such as the AAP, based on their clinical policies or patient population needs. At this time, these adjustments are not automated and require organizations to manually update registry configurations to reflect their preferred recommendations.

It is important to note that registries can consume data feeds from outside organizations if desired. For immunizations, consider identifying if a state immunization registry is available to feed historic administered vaccines. Adding this data feed provides a complete immunization history to providers, and the immunization rules acted upon by the registry can forecast any vaccine(s) due.

Defining registries and registry inclusion factors, components, and outcomes are critical elements of a population health strategy.

Registry metrics and supporting facts are components used to collect data that is pertinent to the patients in the defined population registry. Once a metric is associated with a registry, reports can be created from the population subset, and these metrics can be used to show the captured data to gain insight on the patient's condition.

Proposed registry metrics for child and adolescent patient immunization registries and technical instructions for configuring them can be found in later sections of this guide.

05. Using HealtheRegistry to Track Vaccinations at the System Level

Population health insights and registries at the health system level may offer:

- The opportunity to evaluate health system vaccination rates
- The ability to help identify and monitor sites within the health system that are not achieving immunization goals
- Clinical decision tools, such as Health Maintenance alerts and Discern Alerts, which support a standards-based approach to addressing immunization needs of children and adolescents
- The ability to utilize social determinants of health to help identify barriers and help develop impactful immunization efforts

As health systems provide longitudinal healthcare to their members, setting up immunization tactics at the system level can potentially add supplementary touchpoints with patients (expanding from family medicine-based encounters to acute and other care settings).

Immunization campaigns can be launched at the local level and expanded and scaled to the health system level if desired. Consider modifying the patient report and health maintenance alert scope from a local instance to the health system when scaling up.

06. Technical Instructions for Configuring HealtheRegistries to Help Identify Child and Adolescent Patients Eligible for Vaccination

Registries are based on a general inclusion rule and may contain multiple metrics to define outcomes related to the common registry element. For immunizations, the inclusion rule is age, and multiple wellness age-based registries are available.

The "Comprehensive Wellness" Registry is the default HealtheIntent registry that includes all health system patients used for setting immunization expectations. Patients who meet CDC recommendations will automatically be assigned when HealtheRegistries and Health Maintenance are aligned in Oracle Health when they meet the immunization criteria.

Please note that when not electing to use Health Maintenance alerts, manual Discern Alerts can be created and used. This option would require manual configuration and a maintenance burden on the health system to manage all immunization recommendations and preventive health maintenance recommendations from the US Preventive Services Task Force.

07. Technical Instructions for Modifying Registry Inclusion Rules

The registry inclusion rule determines who should be part of the registry. This is usually a condition or disease, whereas age is used for the Wellness Registry.

Registry changes can be made in the HealtheRegistries administrator tool if desired. To do so, **select the desired vaccination Measure Name and select the Inclusion, Exclusion, and Met Criteria as desired**.

The integration of the HealtheRegistries and Health Maintenance requires an association in the healthexp tool to appropriately reflect the immunizations in the HealtheRegistries tab of the Recommendations section in PowerChart. To set up the association:

1. **Select the desired schedule** in the healthexp tool.
2. **Check the radio button next to Associate to a HealtheRegistry measure on the Expectation screen** and **select the desired series**.
3. **Click "Validate" and then "Commit"** to save the information.

NOTE: The Wellness Registry may not capture all patient vaccinations outside the health system. Therefore, it is important for HCPs to review patient immunization history and update vaccination records as appropriate.

08. How to Configure Registry Metrics/Key Performance Indicators to Monitor Population Health Metrics

Registry metrics provide insights into what needs to be measured for the subset of patients in the registry.

Oracle Health-released registries come with multiple registry metrics. Metric rules can be edited, modified, or added.

To create or modify the configuration logic for the registry metrics, set the logic expression for the metrics as desired. You may change the status to Enabled or Disabled to activate or deactivate the registry metric.

For the immunization registry metrics, consider the following Key Performance Indicators (KPIs) and related parameters. These KPIs serve as examples of reports a health system may find useful for tracking child and adolescent vaccinations. However, each health system can customize and configure KPIs based on its specific population health priorities and initiatives.

Registry Metric	KPI	Rule Parameters	Intended Improvement
Underperforming Sites	Sites that are below the child and adolescent vaccination goal for this health system	Rule to set the vaccination goal AND SER Facility item number (**NOTE:** The rule to set the vaccination goal may already exist)	Increase % of vaccination rates for eligible child and adolescent patients across the underperforming sites

09. Key Population Health Configuration Use Cases

9.1 How to access and use the registry data/scorecards

Population health registry data can be accessed in the Oracle Health EHR in a few ways:

1. Reports via Dynamic Worklist or DA2
2. The HealtheRegistries application

An overview and instructions for accessing each of the above-listed options are provided below.

Reports

Dynamic Worklist or DA2 are end-user reporting tools that can be used to access registry data. Access and permission to either reporting tool may vary but both can be used to review patient information. A comprehensive patient search list and automated patient outreach resource provides full details on how to leverage both reporting solutions. All patients who meet the registry inclusion rule are included in the registries and can be included in the report. Consider the registry and the registry metric criteria to create the desired report. For example, to find all appropriate patients without the desired immunization, use the Registry criterion and the Registry Metric count criterion for the number of the desired immunizations for the patient.

Registry-based information can be added in many reporting templates. Consider adding registry criteria (for example, the Registry Metric criterion) and display columns (for example, the Patient Registry Metric Value column) in reports. A unique Registry criterion is available in Dynamic Worklist.

HealtheRegistries

1. **Access HealtheRegistries in the app bar**. Access may be restricted to certain roles.
2. **Click the Registries tab** on the top of the screen. Consider selecting Scorecard or Announcements to review summarized information if desired.
3. From the available options, **select an organization**. The provided options are determined by the initial configuration of the registry in HealtheIntent.
4. From the pull-down menu, **select the desired registry**, for example, “wellness”.
5. Registry Supporting Facts can be sorted by clicking the Completion % or Met % options in the pull-down menu. To view the data in a spreadsheet, **click the table button**. Registry Supporting Facts tiles that are red indicate that the measure is not achieved. The tile turns blue once the measure is achieved.
6. For individual provider metrics, **click the organization** to reveal all associated providers. Clicking on an individual provider reveals their performance against the selected Registry Fact.
7. **Click Export** to export the selected data set.

09. Key Population Health Configuration Use Cases (continued)

9.2 How to share population health reports and scorecards

Results from Dynamic Worklist and DA2 reports can be exported and shared to other users.

For Dynamic Worklist:

1. **Navigate to the "List Actions" tab** when creating a report.
2. **Select Share** and **enter the user, group, or pool with whom to share the report**.

For DA2:

1. **Navigate to the Report** and **right-click the name of the report**.
2. **Select Schedule** from the drop-down menu and **select the user, group, or with whom to share the report**.

Users can be provided access to dashboards within HealtheRegistries in order to access the application.

9.3 How to create immunization tactics in Oracle Health's HealtheIntent

Because population health touches many stakeholders in a health system, gaining buy-in from the key constituents is critical. Building an appropriate immunization program requires a strategy and approved tactics.

When setting up the appropriate population health program, consider the following milestones:

1. **Identify all stakeholders:** The population health/quality team may have extensive knowledge in setting up similar programs and have a playbook available. A clinical champion/leadership team tasked to drive immunizations across the health system can orchestrate the strategy and tactics. The EHR team may need to refine the registry inclusion rule and registry metrics and create reports and clinical decision support aligned to the strategy.
2. **Create the appropriate immunization program:** A timeline of milestones, objectives, and key personnel involved can set expectations for each phase of the appropriate program.
3. An interface may be required to connect with the state immunization registry to provide a complete immunization history of patients.
4. **Identify the target population:** Given historical appropriate immunization rates, what is the target rate to achieve?
5. Besides the overall appropriate immunization rate, what other key performance (registry) metrics related to appropriate can be defined and are meaningful?

10. Disclaimers

- Conditions listed in this guide are only examples to help identify patients. Ultimately, it is up to the HCP/health system to determine whether a patient is appropriate for vaccination
- The customer (ie, physician, medical group, integrated delivery network) shall be solely responsible for the implementation, testing, and monitoring of the instructions to ensure proper orientation in each customer's EHR system
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11. Notes



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