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ROBERT H. SMITH SCHOOL OF BUSINESS  
AT THE UNIVERSITY OF MARYLAND

## **Model EHR Format for Children**

HCIL Symposium

May 23, 2012

Kenyon Crowley, MBA, MS, CPHIMS  
CHIDS UMD

# Sponsoring Agencies

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# Learning Objectives

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- ▶ Understand the Model EHR Format, its structure and draft content
- ▶ Understand how the model Format can be used to develop new, or enhance existing EHR products to help providers optimize healthcare for children
- ▶ Understand how to use the model children's EHR Format to assist children's healthcare providers in selecting EHR systems

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# Children's Health Insurance Program Reauthorization Act of 2009 (CHIPRA)

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- ▶ Section 401 (f) Development of a Model EHR Format for Children Enrolled in Medicaid or CHIP
- ▶ By 1/1/2010 the Secretary shall establish a program to encourage the development & dissemination of a model EHR Format for children

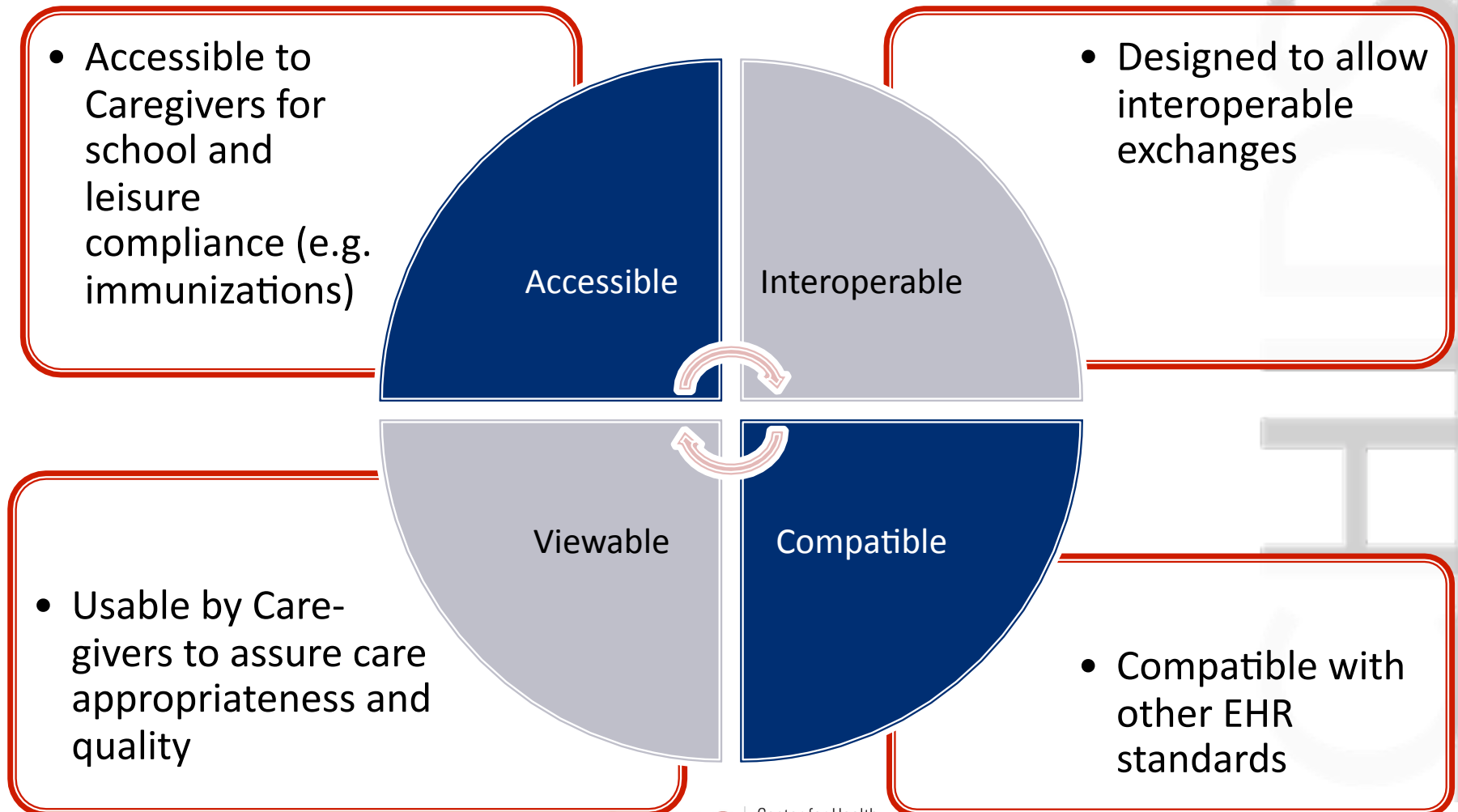


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# By law, the model EHR Format for children must be:



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# CHIPRA Demonstration Projects

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Section 401, Model EHR Format provision: “demonstrate the impact of the model EHR format for children developed and disseminated under subsection (f) on improving pediatric health, including the effects of chronic childhood conditions, and pediatric health care quality, as well as reducing health care costs”



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# Project Team



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# What is a “Format?”

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Requirements for:

- ▶ A minimum set of data elements
- ▶ Applicable data standards
- ▶ Usability
- ▶ Functionality
- ▶ Interoperability



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# Project Overview

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Existing EHR systems often do not optimally support the provision of health care to children. The goal is to develop a model EHR Format for children, demonstrate that it can be readily used, and package it in a way that facilitates broad incorporation into EHR systems. The project will:

- ▶ Develop a framework for the optimal EHR for children HCP's
- ▶ Identify gaps between existing systems and this framework
- ▶ Design, develop, test, and disseminate the model Format
- ▶ Assess existing products for conformance with the Format
- ▶ Demonstrate consumption of the Format



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# Component Tasks

## Environmental Scan and Gap Analysis

- Intermountain Healthcare

## Develop the Format

- Westat and Team

## Conformance Testing

- University of Maryland

## Prototype Development

- Duke and University of Maryland

## Dissemination

- Westat

SHIPS

# Challenges to Development Process

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- ▶ Determining “incremental” needs for children
- ▶ Focusing on the “what” not the “how”
- ▶ SHALL / SHOULD / MAY
- ▶ Lack of vocabulary standards for pediatrics
- ▶ Focusing on what is “doable” in today’s technology



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# Technical Expert Panel (TEP)

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- ▶ Provide input and feedback to project overall
- ▶ Review key documents and deliverables
- ▶ Provide guidance on functionalities and requirements
- ▶ Serve as a resource on specific clinical, technical, and child welfare issues



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# TEP Representation

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- ▶ Physician Informaticians
  - ▶ Children's health focus
  - ▶ More general health focus
- ▶ Non-Physician clinicians
- ▶ Children's advocacy organizations
- ▶ Medicaid
- ▶ Vendor
- ▶ Federal Agencies (ONC, IHS)

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# Topics

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- ▶ Activity Clearance
- ▶ Birth Information
- ▶ Child Abuse Reporting Form
- ▶ Child Welfare
- ▶ Children with Special Health Care Needs
- ▶ Growth data
- ▶ Immunizations
- ▶ Medication Management
- ▶ Newborn Screening
- ▶ Parents, Guardians, and Family Relationship Data
- ▶ Patient (Child) Identifier
- ▶ Patient Portals – Personal Health Record (PHR)
- ▶ Prenatal Screening
- ▶ Primary Care
- ▶ Quality Measures
- ▶ Registry Linkages
- ▶ School-based Linkages
- ▶ Security and Confidentiality
- ▶ Special Terminology and Information
- ▶ Specialized Scales and Scoring
- ▶ Well Child and Preventive Care



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# Target Audiences for Format

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- ▶ CHIPRA Demonstration grantees
- ▶ Developers of existing EHR products
- ▶ New developers
- ▶ System purchasers
- ▶ Certifying bodies
- ▶ Standards groups
- ▶ Regulators
- ▶ Users/developers of “Meaningful Use” criteria

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# Demonstration of Model Children's EHR Format Sample Requirements Data

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# Screenshots of requirements: 4 topics

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- ▶ Growth data
- ▶ Medication management
- ▶ Birth information
- ▶ Newborn screening

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Requirements
Categories
Use Cases
AutoCapture

Add Requirement
Add/Edit Field Values
View Requirements
Popular Tags
Discussions
Import
Export
Create Reqs Doc
Trace
Recycle Bin

Go
Advanced Search

Hi Cynthia!

Requirements View: Growth Data requirements

Requirements meet the criteria specified for this view. [Learn more](#)

Who are the owners of this view?

ins all the requirements that fall under the topic area of - Growth Data

Actions
Email
Print

&lt; prev
1-50
51-100
next &gt;

Internet
90%

[Advanced Search](#)

Hi Cynthia!

## Views View: Medication Management requirements

Do not meet the criteria specified for this view. [Learn more](#)

Who are the owners of this view?

See all the requirements that fall under the Medication Management topic area

< prev | 1-50 | next >

Child	ID	Title	Description	Provenance	Topic Area	Source ID
<input type="checkbox"/>	Req-269	<a href="#">Manage Medication List</a>	Statement: Create and maintain patient-specific medication lists.  Description: Medication lists are managed over time, whether over the course of a visit or stay, or the lifetime of a patient. All pertinent dates, including medication start, modification, and end dates are stored. The entire medication history for any medication, including alternative supplements and herbal medications, is viewable. Medication lists are not limited to medication orders recorded by providers, but may include, for example, pharmacy dispense/supply records, patient-reported medications and additional information such as age specific dosage.	HL7 EHR FM R1	Medication Management	DC.1.4.2
<input type="checkbox"/>	Req-596	<a href="#">Capturing medication details</a>	The system SHALL provide the ability to capture the details of the medication such as ordering date, dose, route, formulation, and SIG (description of the prescription, such as the quantity) when known.	HL7 EHR FM R1 - HL7 CH FP R1	Medication Management	DC.1.4.2-3
<input type="checkbox"/>	Req-597	<a href="#">Capturing additional medication details</a>	The system SHALL provide the ability to capture other dates associated with medications such as start and end dates.	HL7 EHR FM R1 - HL7 CH FP R1	Medication Management	DC.1.4.2-4
<input type="checkbox"/>	Req-880	<a href="#">Ability to capture reasons for start/stop of a medication</a>	The system SHOULD provide the ability to capture the reasons for start/stop of a medication	SME	Medication Management	2.4
<input type="checkbox"/>	Req-272	<a href="#">Support for Patient Specific Dosing and Warnings</a>	Statement: Identify and present appropriate dose recommendations based on known patient- conditions and characteristics at the time of medication ordering.  Description: The clinician is alerted to drug-condition interactions and patient specific contraindications and warnings e.g. pregnancy, breast-feeding or occupational risks, hepatic or renal insufficiency. The preferences of the patient may also be presented e.g. reluctance to use an antibiotic. Additional patient parameters, such as age, gestation, Ht, Wt, BSA, shall also be incorporated.	HL7 EHR FM R1	Medication Management	DC.2.3.1.2
<input type="checkbox"/>	Req-448	<a href="#">Ability to identify other-than-standard doses</a>	The system SHALL provide the ability to detect a daily dose that exceeds the recommended range for patient age or maximum recommended adult dose whichever is smallest, and inform the user during ordering.	CCHIT - IH Gap Analysis	Medication Management	IH.07.002
<input type="checkbox"/>	Req-449	<a href="#">Ability to detect a drug dose that falls outside the min-max range</a>	The system SHALL provide the ability to detect a drug dose that falls outside the min-max range based on the patient's age, weight, and maximum recommended adult dose, for a single dose for the medication and to inform the clinician during ordering.	CCHIT - IH Gap Analysis	Medication Management	IH.07.003
<input type="checkbox"/>	Req-454	<a href="#">Calculating medication dosage based on reference weight</a>	The system SHALL provide the ability to calculate medication dosages based on reference weight where appropriate.	IH Gap Analysis	Medication Management	IH.07.006
<input type="checkbox"/>	Req-646	<a href="#">Drug dosage computation</a>	The system SHALL compute drug doses, based on appropriate dosage ranges, using the patient's body weight.	HL7 CHWG - HL7 EHR FM R1 - HL7 CH FP R1	Medication Management	DC.2.3.1.2-8
<input type="checkbox"/>	Req-648	<a href="#">Dosing Weight</a>	The system SHALL provide the ability to specify an alternative "dosing weight" for the purposes of dose calculation.	HL7 CHWG - HL7 EHR FM R1 - HL7 CH FP R1	Medication Management	DC.2.3.1.2-10
<input type="checkbox"/>	Req-649	<a href="#">Drug dosage computation</a>	The system SHALL perform drug dosage functions using any component of a combination drug (e.g., acetaminophen-hydrocodone).	HL7 CHWG - HL7 EHR FM R1 - HL7 CH FP R1	Medication Management	DC.2.3.1.2-11

## Requirements View: Birth Information Requirements

69 requirements meet the criteria specified for this view. [Learn more](#)

Who are the owners of this view?

This view contains all the requirements that fall under the topic area Birth Information

[Actions](#) [Email](#) [Print](#)

< prev | 1-50 | 51-100 | next >

	Child	ID	Title	Description	Environment(s)	Topic Area	Provenance
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-895	<a href="#">Birth History</a>	Birth represents a significant milestone in pediatric medicine. Newborn babies undergo large physiologic changes that make them susceptible to medical problems in the perinatal period. An accurate birth history provides the foundation for good pediatric care	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-896	<a href="#">Growth and Developmental Parameters</a>	Intrauterine growth, symmetry, and maturation are critical aspects of the birth history.	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-94	<a href="#">Birth Order : Familial Rank</a>	The system SHALL record Birth Order (Familial Rank)	All	Birth Information	IH Gap Analysis
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-837	<a href="#">Collect date and time of birth to the minute</a>	The system SHALL enable entry of the date and time of birth (no less precisely than to the minute) if required by the scope of practice	All	Birth Information, Well Child	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-838	<a href="#">Store date and time of birth to the minute</a>	The system SHALL store the date and time of birth (no less precisely than to the minute) if required by the scope of practice	All	Birth Information, Well Child	HL7 CH FP R1 - IH Gap Analysis - SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-897	<a href="#">Ability to record Birth weight in kg</a>	The system SHALL record birth weight in kilograms to 3 decimal places.	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-898	<a href="#">Ability to record gestational age based on LMP</a>	The system SHALL record gestational age in weeks and days based on LMP, Ultrasound or Maternal Report	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-899	<a href="#">Ability to record gestational age based on Dubowitz scoring</a>	The system SHALL record gestational age in weeks based on Dubowitz scoring or Ballard Exam	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-900	<a href="#">Ability to record if infant is singleton, twin, or multiple gestation</a>	The system SHALL record whether the infant is a singleton, twin, or multiple gestation.	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-901	<a href="#">Ability to record birth order</a>	If an infant is not a singleton, the system SHALL record the birth order	Inpatient	Birth Information	IH Gap Analysis - SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-902	<a href="#">Ability to record infant size relative to gestational age</a>	The system SHALL record the size of the infant relative to gestational age (SGA=Small for Gestational Age, AGA=Appropriate for Gestational Age, LGA=Large for Gestational Age)	Inpatient	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-903	<a href="#">Ability to record symmetry</a>	The system SHALL record symmetry as Symmetrical or Asymmetrical	All	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-904	<a href="#">Maternal Data and Labs</a>	Maternal laboratory data and serologies are critical to the care of a newborn infant	All	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-905	<a href="#">Ability to record maternal Gravidity / Para / Abortus status / Living Children</a>	The system SHALL record maternal Gravidity / Para / Abortus status / Living Children	All	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-906	<a href="#">Ability to record maternal blood type</a>	The system SHALL record maternal blood type	All	Birth Information	SME
<a href="#">read</a>   <a href="#">edit</a>   <a href="#">del</a>	<input checked="" type="checkbox"/>	Req-907	<a href="#">Ability to</a>	The system SHALL record maternal antibody status	All	Birth	SME

Staff Directory

Gmail - Priority Inbox (1) - 22...

Westat WebEx Enterprise Site

Newborn Screening Requi... X

What's coming soon...

Settings

Help

Logout

compa

Requirements

Categories

Use Cases

AutoCapture

Add Requirement

Add/Edit Field Values

View Requirements

Popular Tags

Discussions

Import

Export

Create Reqs Doc

Trace

Recycle Bin

Go

Advanced Search

Logged in to: Westat

Hi Cynthia!

Requirements View: Newborn Screening Requirements

Requirements meet the criteria specified for this view. [Learn more](#)

Who are the owners of this view?

contains all the requirements that are related to Newborn Screening

Actions

Email

Print

< prev | 1-50 | next >

Child	ID	Title	Description	Topic Area	Provenance	Source ID
<a href="#">del</a>	<a href="#">Req-820</a>	<a href="#">Receipt of Newborn Screening Testing</a>	The goal of newborn screening is to identify a wide range of conditions that can potentially benefit from early detection during the presymptomatic or early symptomatic period. Historically, newborn screening has been based on dried blood spot analysis by state public health departments. More recently, point-of-service testing in the nursery (e.g., newborn hearing screening) has been included. Another point-of-service test that will likely be added in the coming year to newborn screening is pulse oximetry to detect critical cyanotic congenital heart disease. Newborn screening is expanding at a rapid rate. Although the US Secretary of Health and Human Services makes recommendations about what should be included as part of newborn screening, individual states are responsible for developing their own panel, including the threshold for a positive test. Some states require retesting of all newborns. States have varying methods of short and long-term follow-up for those that have tested pos...	Newborn Screening	SME	3
<a href="#">del</a>	<a href="#">Req-799</a>	<a href="#">Compliance with state requirements for newborn screening</a>	The system SHALL comply with the state requirements for newborn screening and be modifiable by birth location	Newborn Screening	SME	3.2
<a href="#">del</a>	<a href="#">Req-800</a>	<a href="#">Record age when newborn dried blood spot collected</a>	The system SHALL record the age of the neonate when the newborn dried blood spot was collected. Multiple samples may be collected, such as in those states that require repeat testing or on prematurely born neonates	Newborn Screening	SME	3.3
<a href="#">del</a>	<a href="#">Req-801</a>	<a href="#">Record age when mandated point-of-service testing occurred</a>	The system SHALL record the age of the neonate when mandated point-of-service testing occurred. Presently, this is only newborn hearing screening. However, this is going to expand.	Newborn Screening	SME	3.4
<a href="#">del</a>	<a href="#">Req-802</a>	<a href="#">Record refusal of newborn dried blood spot testing</a>	The system SHALL record if parents refuse newborn dried blood spot testing	Newborn Screening	SME	3.5
<a href="#">del</a>	<a href="#">Req-803</a>	<a href="#">Record refusal of point-of-service testing</a>	The system SHALL record if parents refuse point-of-service testing.	Newborn Screening	SME	3.6
<a href="#">del</a>	<a href="#">Req-799</a>	<a href="#">Compliance with state requirements for newborn screening</a>	The system SHALL comply with the state requirements for newborn screening and be modifiable by birth location	Newborn Screening	SME	3.2
<a href="#">del</a>	<a href="#">Req-800</a>	<a href="#">Record age when newborn dried blood spot collected</a>	The system SHALL record the age of the neonate when the newborn dried blood spot was collected. Multiple samples may be collected, such as in those states that require repeat testing or on prematurely born neonates	Newborn Screening	SME	3.3
<a href="#">del</a>	<a href="#">Req-801</a>	<a href="#">Record age when mandated point-of-service testing occurred</a>	The system SHALL record the age of the neonate when mandated point-of-service testing occurred. Presently, this is only newborn hearing screening. However, this is going to expand.	Newborn Screening	SME	3.4
<a href="#">del</a>	<a href="#">Req-802</a>	<a href="#">Record refusal of newborn dried blood spot testing</a>	The system SHALL record if parents refuse newborn dried blood spot testing	Newborn Screening	SME	3.5
<a href="#">del</a>	<a href="#">Req-803</a>	<a href="#">Record refusal of point-of-service testing</a>	The system SHALL record if parents refuse point-of-service testing.	Newborn Screening	SME	3.6
<a href="#">del</a>	<a href="#">Req-821</a>	<a href="#">Newborn Screening Results</a>	<p>ONC and HRSA are actively developing use cases and other health IT resources around newborn screening. A use case is available at: <a href="http://www.hhs.gov/healthit/usecases/documents/NBSDetailedUseCase.pdf">http://www.hhs.gov/healthit/usecases/documents/NBSDetailedUseCase.pdf</a> [1]. The U.S. National Library of Medicine (NLM) has published the Newborn Screening Coding and Terminology to promote and facilitate the use of electronic health data standards for the conditions recommended for screening by the HHS Secretary's Advisory Committee on Heritable Disorders in Newborns and Children (ACHDNC). This is available at: <a href="http://newbornscreeningcodes.nlm.nih.gov/">http://newbornscreeningcodes.nlm.nih.gov/</a> [2].</p> <p>ONC and HRSA are actively developing use cases and other health IT resources around newborn screening. A use case is available at: <a href="http://www.hhs.gov/healthit/usecases/documents/NBSDetailedUseCase.pdf">http://www.hhs.gov/healthit/usecases/documents/NBSDetailedUseCase.pdf</a> [3]. The U.S. National Library of Medicine (NLM) has published the Newborn Screening Coding and Terminology to promote and facilitate the use of electronic health data standards for the conditions recom...</p>	Newborn Screening	SME	4
<a href="#">del</a>	<a href="#">Req-804</a>	<a href="#">Record results of dried blood spot newborn screening</a>	The system SHALL record the results of dried blood spot newborn screening. For each condition tested within each state, the results can be Normal, Out-of-Range, or Insufficient (e.g., sample processing error). Out-of-Range SHALL be further defined based on the individual test. For example, hemoglobinopathy out-of-range results includes Sickle Cell Trait. The type of Out-of-Range results varies by individual state.	Newborn Screening	SME	4.2
<a href="#">del</a>	<a href="#">Req-805</a>	<a href="#">Record results of point-of-service testing</a>	The system SHALL record the results of point-of-service testing	Newborn Screening	SME	4.3

# Annotated growth chart

Requirement Details: **[Req-876] Display clinical context for each point on growth chart**

PrevNext

Related: [Req \(2\)](#) - [FT \(0\)](#) - [UC \(0\)](#) | [Attachments \(0\)](#) | [Links \(0\)](#) | [Discussions \(0\)](#)

▶ Actions ▼

Email

Print

Updated 7 months ago by Anubhav Sharma

Basic Information

Requirement ID: **Req-876** Version: **v6**

Title: Display clinical context for each point on growth chart

Description: The system SHOULD allow display of clinical context for each data point on the growth chart (e.g., acute illness such as diarrhea, ventilated, or receiving growth hormone).

Requirement Set (under development): Clinical Decision Support

Tags:

Environment(s): [All](#)

Owner (development only):

Function Type(s): [Direct Care](#)

Topic Area: [Growth Data](#)

Source(s): [Growth Data Version 1.5, 1/27/2011](#)

Meaningful Use (under development):

See Also:

Importance: High

Requirement Subset (under development): Predictive Growth and other decision support

Project (development only):

Source ID: 9.2

Comment(s):

Provenance: [HL7 CH FP R1 - SME](#)

Specialty (under development):

Release Status: [Released](#)

Requirement Type: Normative Statements

Review Status (development only): [Reviewed: copy/edits](#)  
[Reviewed: Clinical QA](#)  
[Reviewed: Titles Edited](#)

Shall/Should/May: SHOULD

Relationship Tree For: **Req-876 Display clinical context for each po**

< Back to Req-876

RELATIONSHIP SUMMARY FOR Req-876:

Supersedes: [1 other requirements](#)

Is Child Of: [1 other requirements](#)

Req-876 Supersedes:

- [Req-623 Data points in clinical context](#) (Status not yet assigned)

Req-876 Is Child Of:

- [Req-874 Predictive growth and clinical context](#) (All)
  - [Req-280 Clinical Decision Support](#) (Status not yet assigned)

# Prototyping

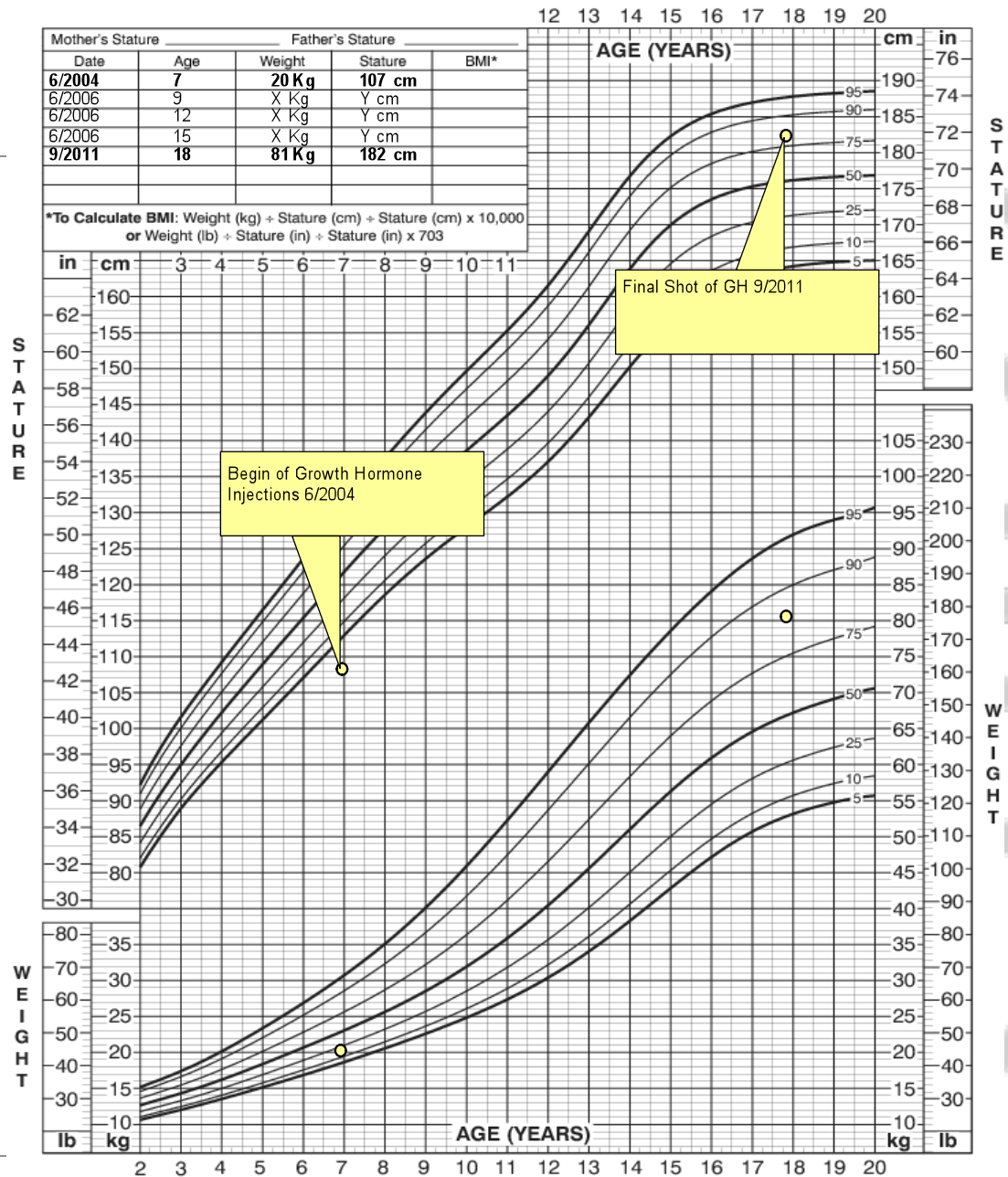
- Annotated growth chart

2 to 20 years: Boys

Stature-for-age and Weight-for-age percentiles

NAME \_\_\_\_\_

RECORD # \_\_\_\_\_



# Conformance Testing

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- ▶ 7 leading EHR vendors of interest to CHIPRA grantees at real practice sites
- ▶ 3 Use Cases – SHALL and High Importance
  - ▶ Well Child
  - ▶ Teen with Social Service Referrals
  - ▶ Newborn Screening
- ▶ Assess for feature success and usability
- ▶ Share and allow response from vendors



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# Summary

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- ▶ >700 *incremental* EHR requirements for children
- ▶ No new standards set
- ▶ Compatible with existing & potential systems
- ▶ Primary care and general inpatient care
- ▶ Will be accessible through Accompa guest account
- ▶ Expect to formally release the Format late summer.



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# Questions?

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