

HL7 PHR System Functional Model and Standard



Presented by:

Donald T. Mon, PhD

**Vice President, Practice Leadership
American Health Information
Management Association (AHIMA)**

HL7 Board Member

HL7 Co-Chair, EHR WG

HL7 Co-Facilitator, PHR WG

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Agenda

- **PHR vs. PHR Systems (PHR-S)**
- **Differences bet. the EHR & the PHR**
- **Developing the PHR-S FM: Background & Current Status**
- **Overview of PHR System Functional Model**
- **Walk through of PHR-S FM**
- **Conformance Clause and Profiles**
- **Next Steps**

Executive Summary

- **HL7 builds on its solid foundation of international healthcare information technology standards by offering the Personal Health Record System Functional Model as a draft reference standard for Personal Health Record System functionality**

Executive Summary (con't)

The PHR-S FM:

- **Is consumer-oriented**
- **Lists the functions that PHR systems are required to, should, or may, do**
- **Provides a certification framework**
- **Serves as an anchor point for system interoperability**

PHR vs. PHR-S

- **PHR**
 - **The underlying single, logical patient record**
 - **The data elements comprising the record**
- **PHR-S: Software that provides functionality to**
 - **Manage and maintain the record**
 - **Accomplish the various purposes of the record**
 - **Consumers & caregivers make health decisions**
 - **Administrative: provider, financial management**
 - **Health education, wellness, research, public health**

Differences between the EHR & PHR

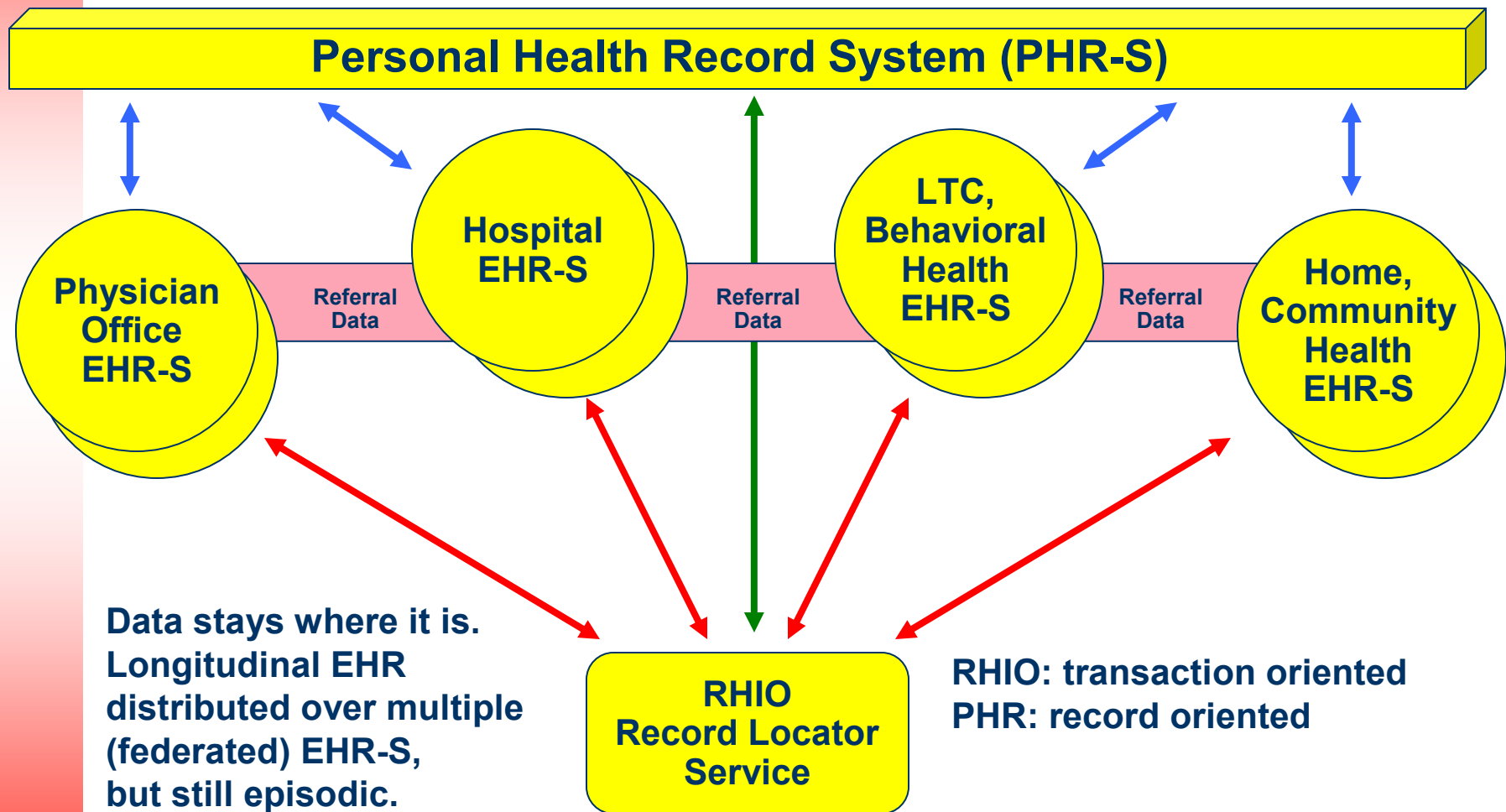
- **EHR**

- Legal record
- Episodic first, could be longitudinal
- Administrative, financial, clinical data

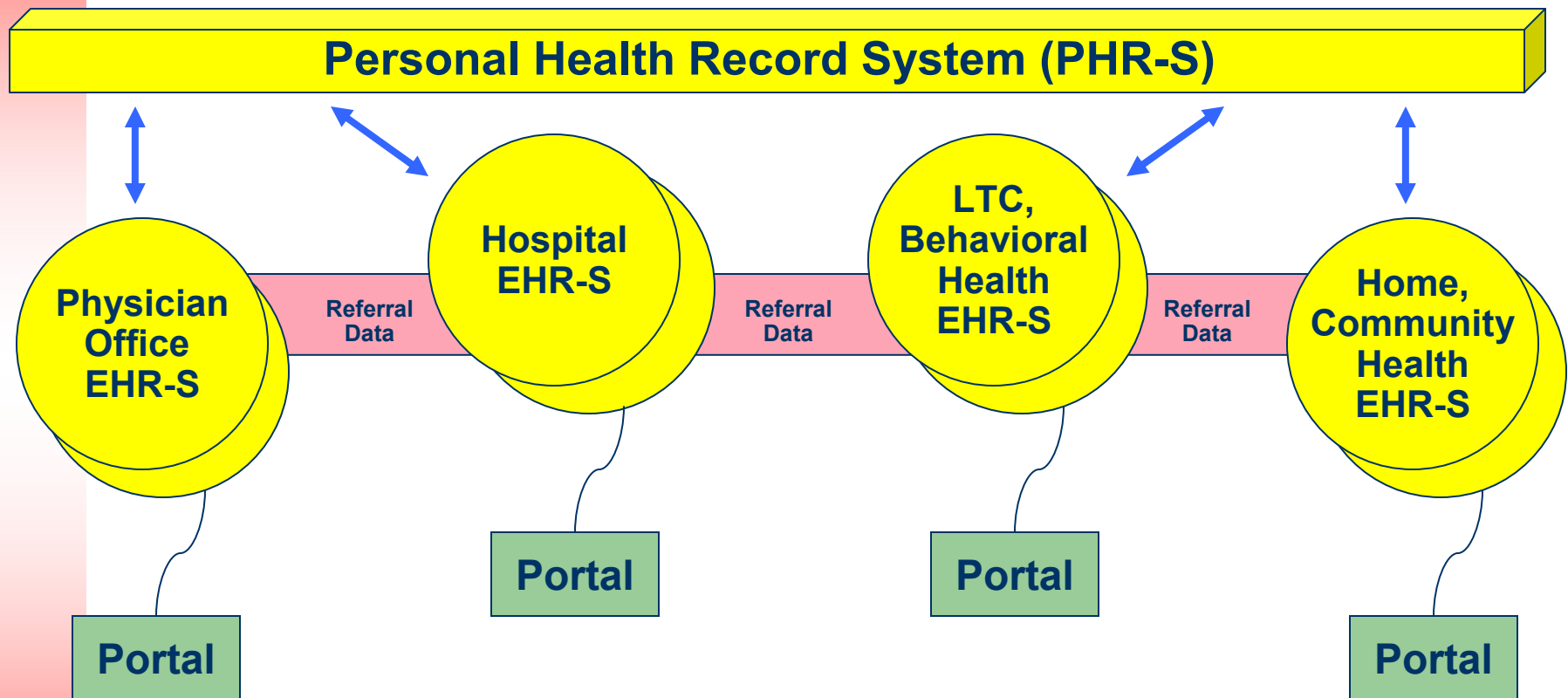
- **PHR**

- Not a legal record
- Could be cradle to grave
- Pertinent data: How much clinical data to store?

Differences between PHR and EHR



Stand-alone vs. “Tethered” PHR-S



Pros

- Pre-populated data
- Convenience
- Lower maintenance

Cons

- Episodic, not lifelong
- Which one to use?

Meeting PHR-S Requirements

- **A fundamentally different record and system in purpose, yet has some similarities with the EHR & EHR-S in structure and content**
- **Privacy and security issues**
- **Access, use, and control issues**
- **Longitudinal, yet pertinent data**
- **Interoperability with other PHR system models, EHR-S, HIEs, including portability of information**
- **International perspectives**

Developing the PHR-S FM: Background

- **HL7 PHR Work Group**
 - Originally called EHR-PHR Linkage WG, focused on a standard for the health information exchange between the PHR and the EHR
 - Target definition and environmental scan
 - Updated 2003 Connecting for Health PHR Functional Model, now has 60+ functions
 - PHR glossary terms
 - Conformance criteria drafted
 - Decided to develop full PHR FM and standard, 2007
 - Draft Standard for Trial Use approved, 2008
 - Submitted to CCHIT, criteria used for certification

Current Status: PHR-S as a DSTU

- **Approved May, 2008 as a Draft Standard for Trial Use (DSTU)**
 - **2 year period to continuously improve DSTU, become an ANSI accredited standard**
 - **Core, not perfect or exhaustive, functionality**
 - **Enough to begin using a standard today**
 - **Enhancement over compatibility with previous versions**
 - **Ok to leave less essential functions in, but make sure essential functions are not left out**

The Functional Model

Is Not...

- A messaging specification
- An PHR specification
- An implementation specification (not the “how”)
 - Does not prescribe technology, data content
 - Does not dictate how functions must be implemented (e.g., via the user interface, database design)

Is...

- A system specification
- An PHR system specification
- A reference list of functions that may be present in an PHR-S (the “what”)
 - Enables consistent expression of functionality
 - Provides flexibility for innovation and product differentiation
 - Gold standard, sensitive to what can practically be done by a system, future system development

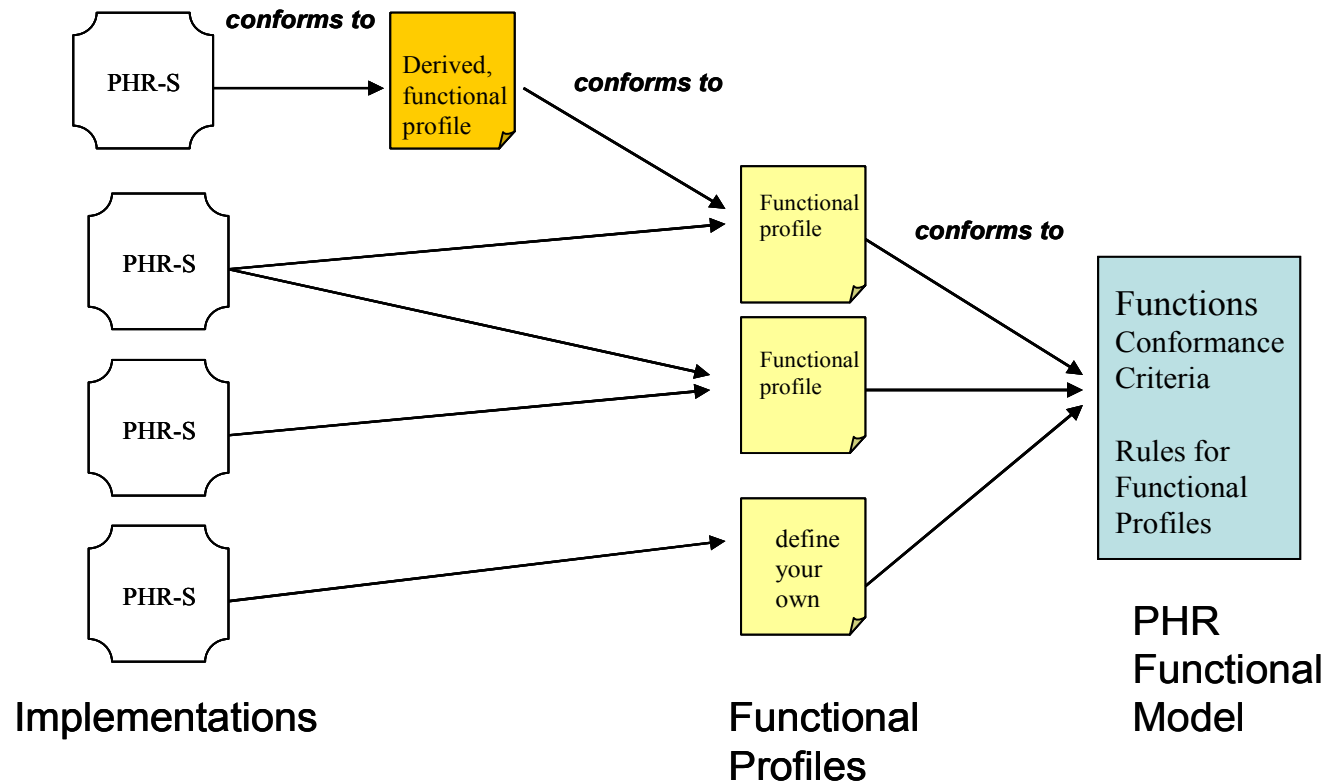
Overview of the Standard

Personal Health	PH.1	Account Holder Profile
	PH.2	Manage Historical Clinical Data And Current State Data
	PH.3	Wellness, Preventive Medicine, and Self Care
	PH.4	Manage Health Education
	PH.5	Account Holder Decision Support
	PH.6	Manage Encounters with Providers
Supportive	S.1	Provider Management
	S.2	Financial Management
	S.3	Administrative Management
	S.4	Other Resource Management
Information Infrastructure	IN.1	Health Record Information Management
	IN.2	Standards Based Interoperability
	IN.3	Security
	IN.4	Auditable Records

Functions are categorized and listed hierarchically. *(The highest level functions are shown.)*

Each function has an ID, Name, Statement, Description, Examples, and Conformance Criteria.

Conformance to Profiles



Next Steps

- **Profiles developed**
 - **Payer-sponsored**
 - **Health authority**
- **Reaching out for profiles**
 - **Provider-based**
 - **Health record banks**
 - **Free-standing**
 - **Employer-based**
 - **Realm-based profiles**

Next Steps

- **EHR-PHR health information exchange**
- **PHR system's role in RHIOs/HIEs**
- **Data content, data definitions, data standards**
- **How the PHR-S FM informs updating of the EHR-S FM**
- **Full ANSI (normative) accreditation status**
- **Submit additional criteria to CCHIT for certification of PHR systems**
- **Promote internationally**

For More Information

- **Visit the HL7 web site and download the model:**
www.HL7.org/ehr
- **Subscribe to HL7 PHR List server**
www.HL7.org/special/committees/list_sub.cfm?list=ehrwgphr
- **Contact the co-facilitators:**
 - Gary.Dickinson@Centrihealth.com
 - Lorraine.Doo@cms.hhs.gov
 - Don.Mon@AHIMA.org
 - JohnRitter1@verizon.net

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Q & A

