



mln call

A MEDICARE LEARNING NETWORK® (MLN) EVENT

CMS and ONC: Enabling Data Interoperability Across the Continuum

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Presenters:

Beth Connor, CMS
Lorraine Wickiser, CMS
Elizabeth Palena Hall, ONC
Michelle Dougherty, RTI
Dave Hill, MITRE



Acronyms in this Presentation

- CMS – Centers for Medicare & Medicaid Services
- CCD – Continuity of Care Document
- C-CDA – HL7 Consolidated Clinical Document Architecture
- CCDS – Common Clinical Data Set
- DCPAC – Division of Chronic and Post-Acute Care
- DEL – Data Element Library
- FHIR – Fast Healthcare Interoperability Resources
- HHA – Home Health Agency
- HIS – Hospice Item Set
- HIT – Health Information Technology
- HL7 – Health Level 7
- IMPACT – Improving Medicare Post-Acute Care Transformation Act
- IRF – Inpatient Rehabilitation Facility
- IRF-PAI – Inpatient Rehabilitation Facility Patient Assessment Instrument



Acronyms in this Presentation (Cont.)

- ISA – ONC Interoperability Standards Advisory
- LCDS – Long-Term Care Hospital (LTCH) Continuity Assessment Record and Evaluation (CARE) Data Set
- LOINC – Logical Observation Identifiers Names and Codes
- LTCH – Long-Term Care Hospital
- MDS – Minimum Data Set
- OASIS – Outcome and Assessment Information Set
- ONC – Office of the National Coordinator for Health IT
- PAC – Post-Acute Care
- RELMA -- Regenstrief LOINC Mapping Assistant
- SNF – Skilled Nursing Facility
- SNOMED-CT – Systematized Nomenclature of Medicine - Clinical Terms
- SPADEs – Standardized Patient Assessment Data Elements
- USCDI -- U.S. Core Data for Interoperability
- VSAC – Value Set Authority Center



Agenda

- The patient story: Use cases for health information exchange and care coordination
- The Improving Medicare Post-Acute Care Transformation Act and the DEL
- Data interoperability: Benefits and challenges
- DEL next steps: FHIR®



Objectives

- Describe the CMS approach for development and implementation of the CMS Data Element Library.
- Describe how various users can utilize the CMS DEL functionality including search and reports.
- Define the goals of standardized CMS assessment content mapped to HIT vocabularies and exchange standards.
- Discuss the strategies and use cases for how assessment content can be re-used to support discharge planning, quality improvement, and reduce burden through interoperable health information exchange.
- Explore how the emerging FHIR standards can be used to enable exchange among providers and with patients and their care givers.



The patient story and value of post-acute care interoperable data exchange across the continuum



Why is Post-Acute Care Important?

PAC Setting

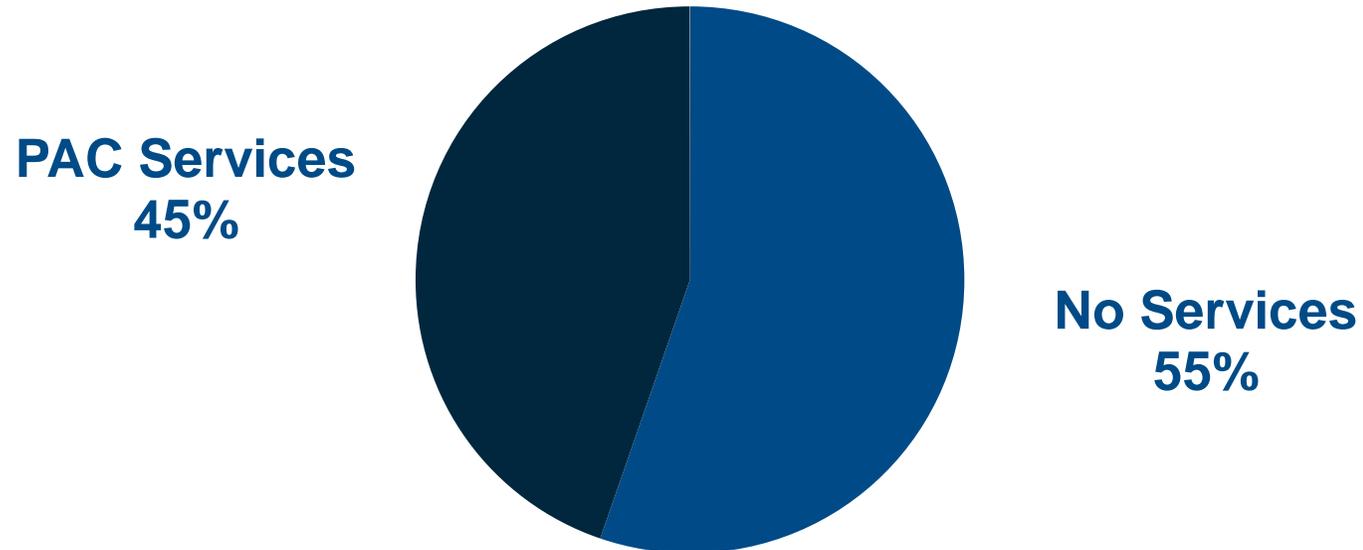
- Long-Term Care Hospitals (LTCH)
- Skilled Nursing Facilities (SNF)
- Home Health Agencies (HHA)
- Inpatient Rehabilitation Facilities (IRF)
- Hospices

- Approximately 33,000 PAC Providers in the U.S.

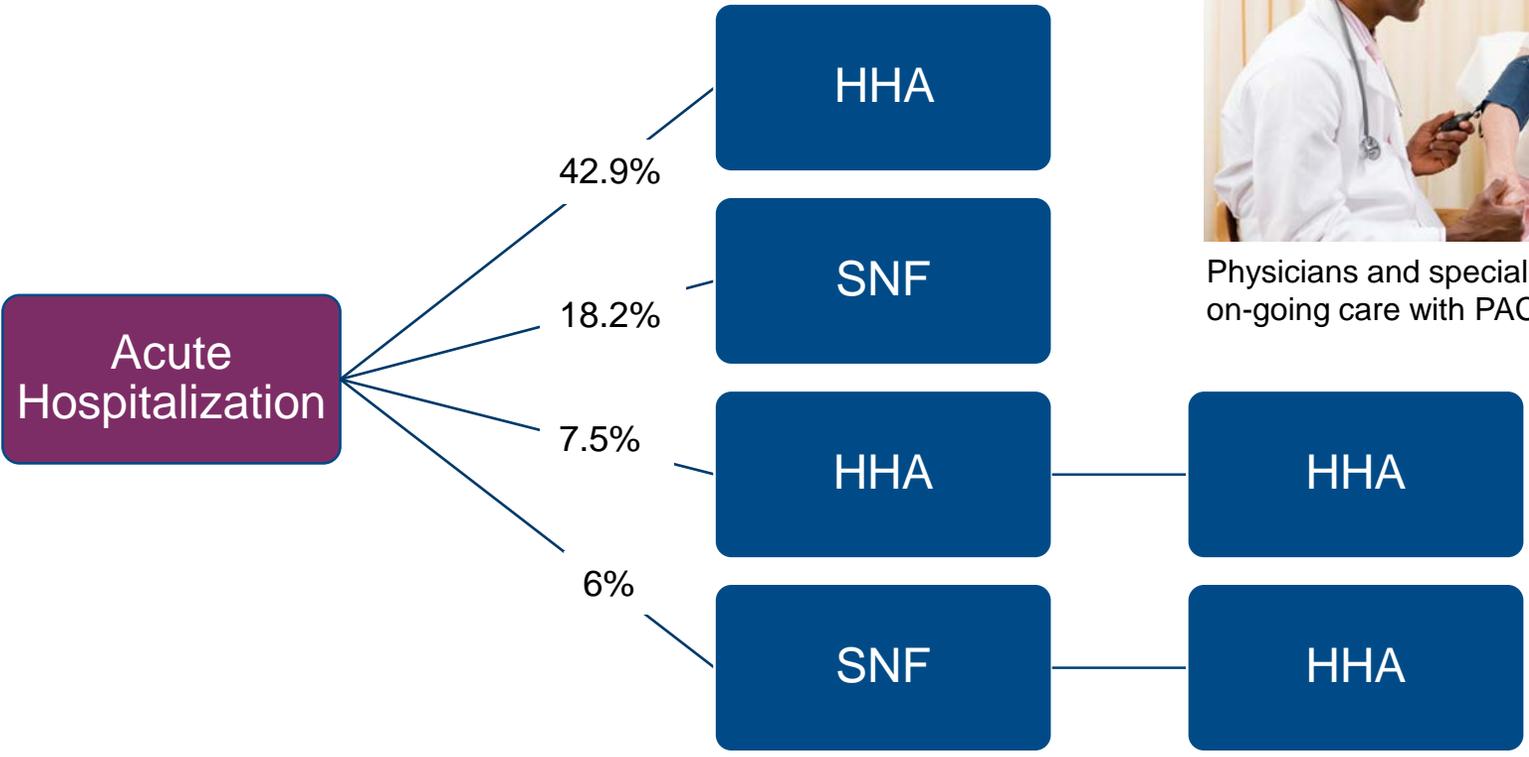


Episodes Requiring PAC Services after an Acute Hospitalization

MEDICARE BENEFICIARIES REQUIRING PAC SERVICES
AFTER AN ACUTE HOSPITALIZATION IN 2014



The Most Frequent Sequences of Care

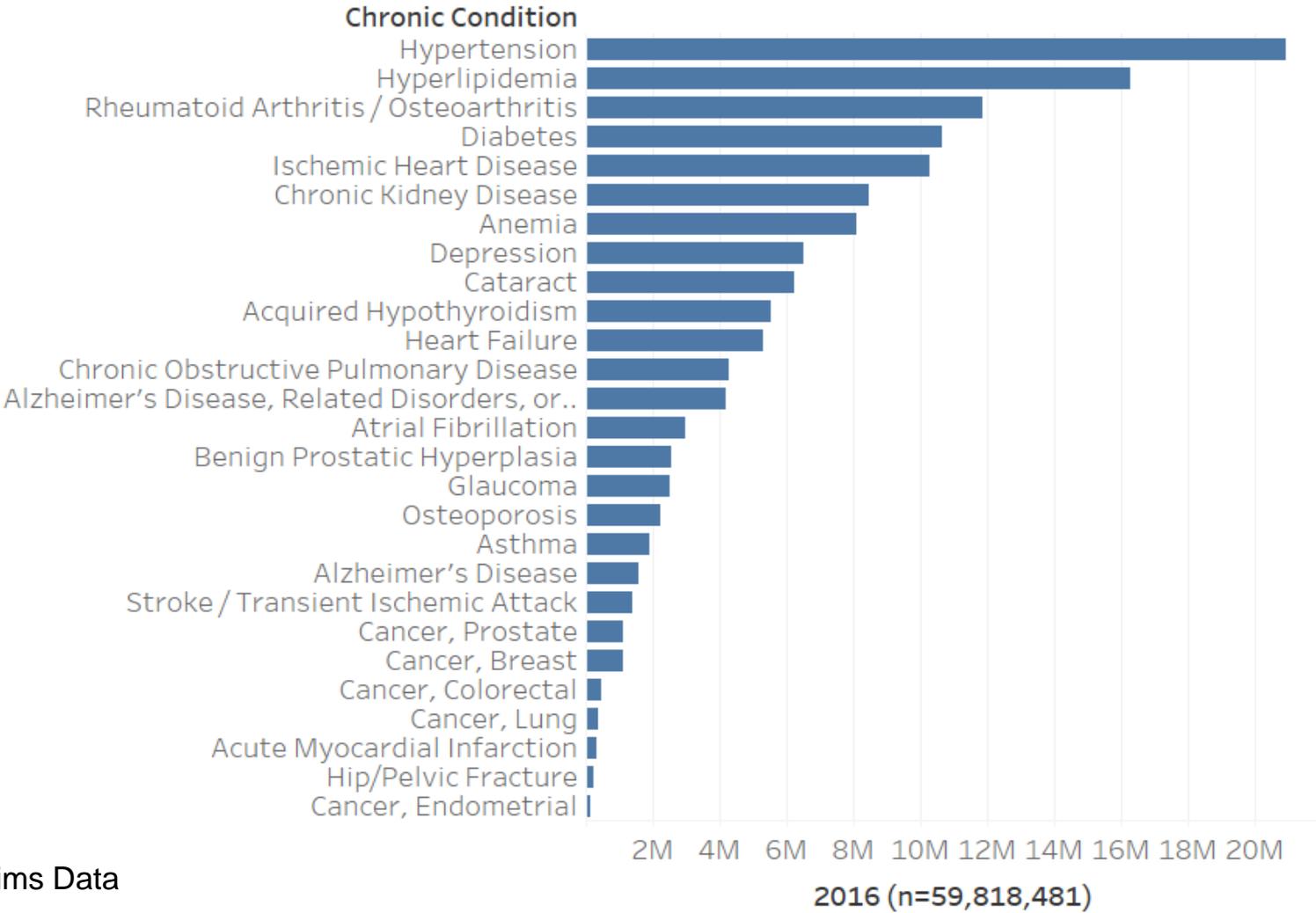


Physicians and specialists also coordinate on-going care with PAC settings.

http://www.medpac.gov/docs/default-source/contractor-reports/sept2018_pac_sequence_of_care_w_cov_contractor_sec.pdf?sfvrsn=0



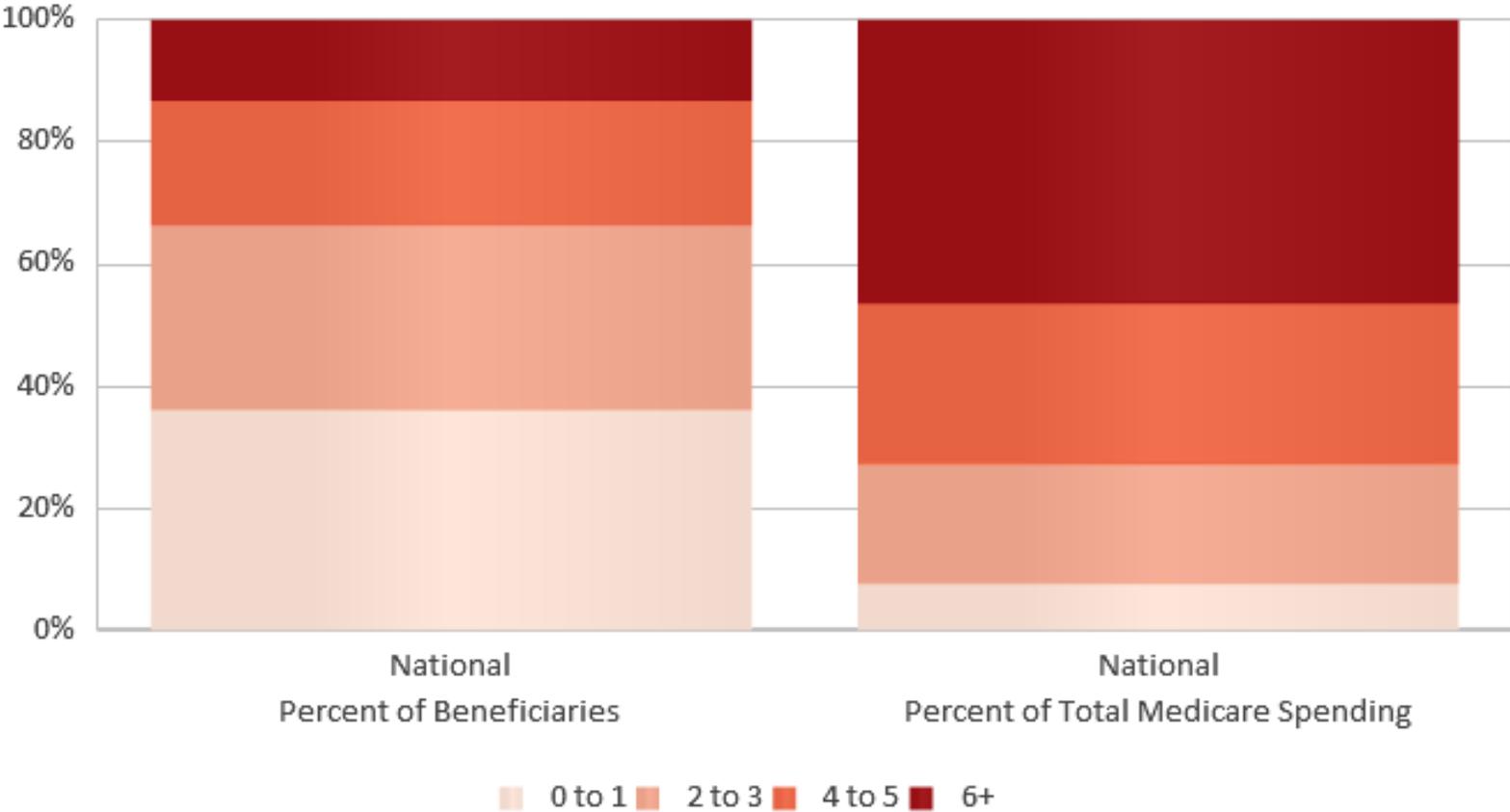
Volume of Claims by Chronic Conditions in 2016



Source: 2016 Medicare Claims Data



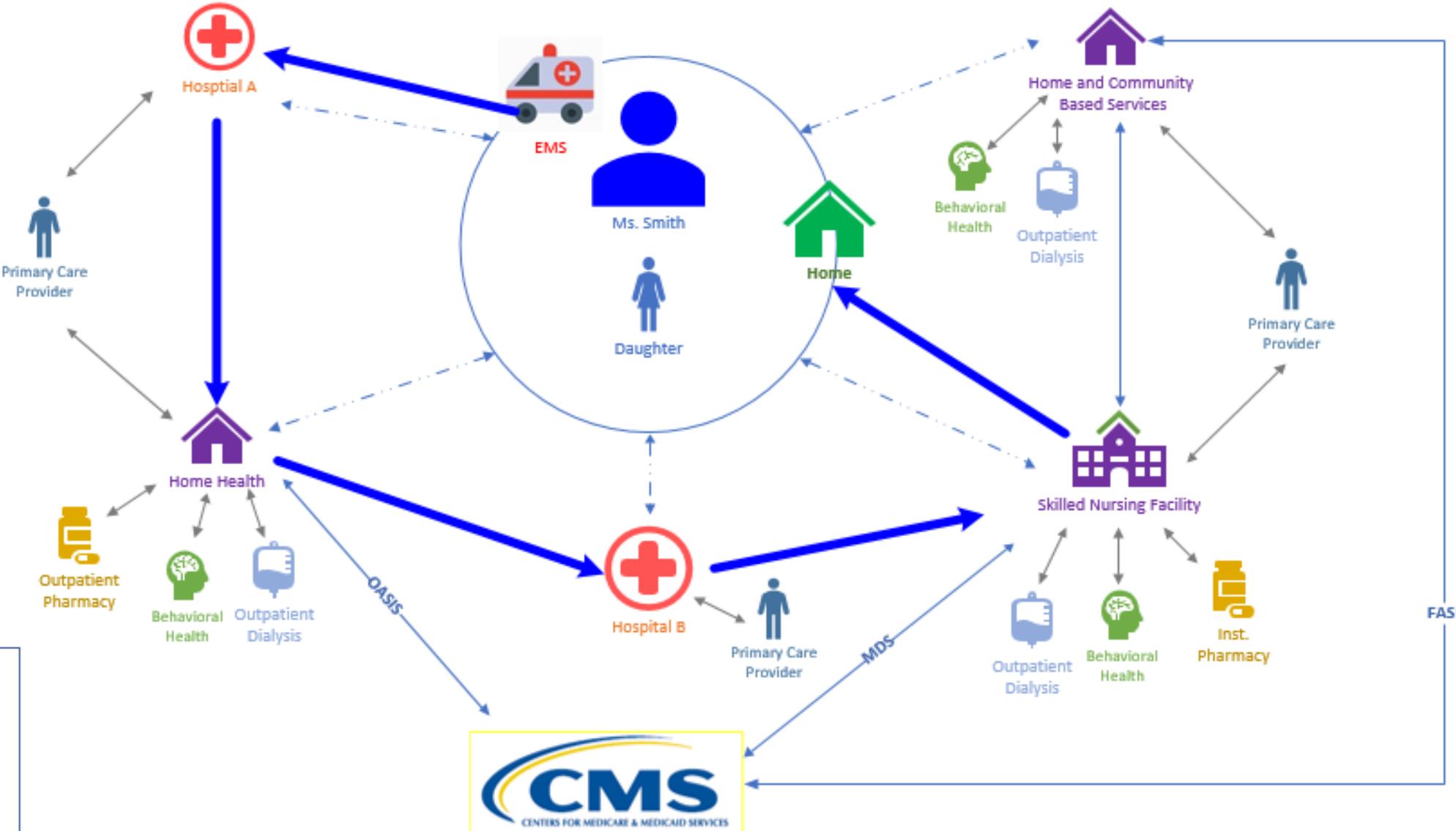
Distribution of Beneficiaries by Number of Chronic Conditions & Total Medicare Spending in 2015



Source: https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Dashboard/chronic-conditions-state/cc_state_dashboard.html



The Patier



Legend

- Provider to Patient Communication
- Patient's Path of Care
- Care Coordination Team Communication

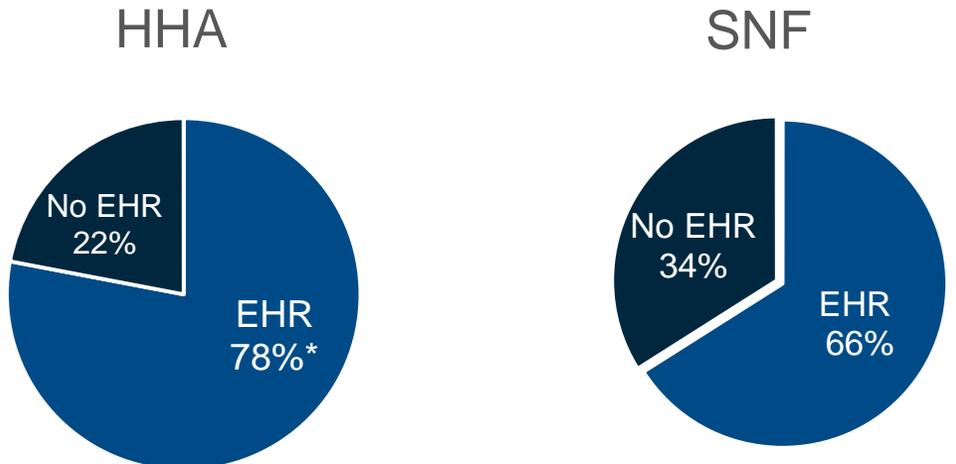
Points of Failure

- **Poor communication across care providers, including outpatient**
 - Medication discrepancies such as drug omissions during transitions of care are common
 - Multiple modes of information transmission are often used
 - Delays in PAC services can lead to adverse events and preventable readmissions
 - Redundant information collection creates inefficiencies and burden
- **Reliance on patient recall during periods of high stress**
 - Recall of information can be unreliable
 - Increased patient / family stress
- **Increased Cost and Provider Burden**
 - Additional costs related to hospital stays from adverse events, readmissions
 - Additional administrative costs to locate, reconcile and coordinate information
 - Longer length of stays and higher resource utilization

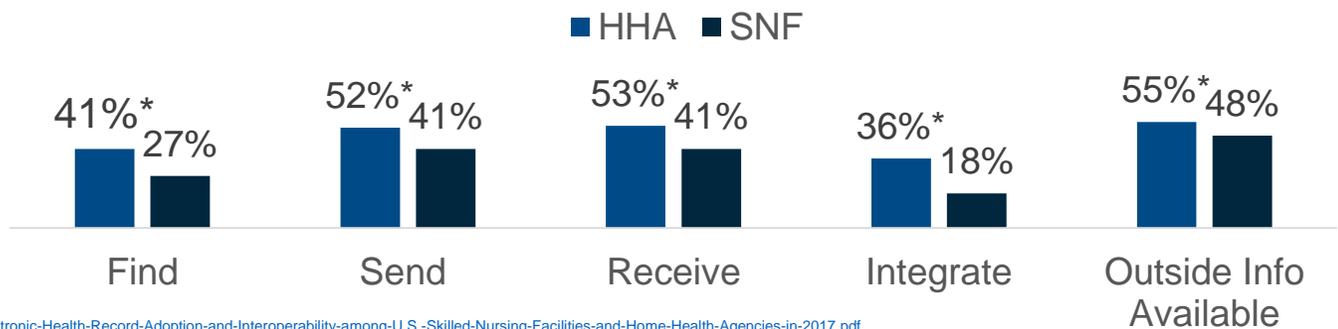


ONC Data Brief: SNF & HHA EHR Adoption and Interoperability in 2017

- EHR adoption rates were higher among HHAs compared to SNFs in 2017



- HHAs are more likely than SNFs to engage in each domain of interoperability.

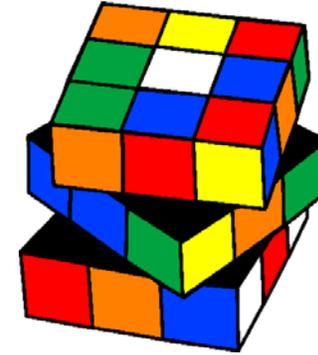


Source: <https://www.healthit.gov/sites/default/files/page/2018-11/Electronic-Health-Record-Adoption-and-Interoperability-among-U.S.-Skilled-Nursing-Facilities-and-Home-Health-Agencies-in-2017.pdf>



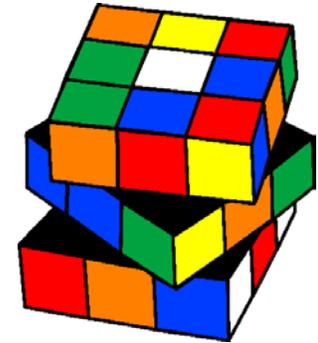
Interoperability Challenges

- **Lack of business case**
- **Lack of standards or consistent use of standards**
- **Limited understanding of interoperability and its value**
- **Lack of formalized workflows**
- **Frequent changes to payment models diverts resources from investment in interoperability**
- **Meeting CMS regulatory requirements diverts resources from investment in interoperability**
- **Lack of data transparency**
- **Data exchange between EHR systems is poor**
- **Staff recruiting and retention in PAC facilities**



Interoperability Challenges (Continued)

- **Accessibility is problematic for some patients**
- **Working physicians are not involved enough in standards development and software design**
- **Senior housing facilities do not employ any health IT infrastructure**
- **Assisted living facilities have been slow to adopt EHRs**
- **Post-acute utilization is high and increasing**
- **Internet connectivity for some health facilities is poor**
- **Patient matching is difficult, inaccurate, and hard to automate**
- **Data provided by ambulatory care are not timely**



Potential Cost Savings related to Points of Failures

- Description and Financial Cost
 - Time PCP spends collecting information, faxing and re-faxing or sending information through another mode (1 hour of time): \$107*
 - Average cost of adverse event during a hospital stay: \$13,745 #
 - Average cost of a Home Health Agency Stay: \$3,040 †
 - Average cost of an Inpatient Rehabilitation Facility Stay: \$19,714 †
 - Average cost of a Skilled Nursing Facility stay: \$18,174 †
 - Average cost of a Long-Term Care Hospital stay: \$40,656 †

* <https://www.medscape.com/slideshow/2018-compensation-overview-6009667#2>

L Levinson DR. Washington, DC: US Department of Health and Human Services, Office of the Inspector General; November 2010. Report No. OEI-06-09-00090

† MedPAC, A Data Book: Health care spending and the Medicare program, June 2018



IMPACT Act and CMS Data Element Library



IMPACT Act of 2014

- Bi-partisan bill passed on September 18, 2014, and signed into law October 6, 2014
- The Act requires *standardized* patient assessment data elements for:
 - Long-term Care Hospitals (LTCHs)
 - Skilled Nursing Facilities (SNFs)
 - Home Health Agencies (HHAs)
 - Inpatient Rehabilitation Facilities (IRFs)
- The Act specifies that data “... be standardized and interoperable so as to allow for the exchange of such data among such post-acute care providers and other providers and the use by such providers of such data that has been so exchanged, including by using common standards and definitions in order to provide access to longitudinal information for such providers to facilitate coordinated care and improved Medicare beneficiary outcomes...”.

[Improving Medicare Post-Acute Care Transformation \(IMPACT\) Act of 2014](#)



Data Element Interoperability

- IMPACT Act requires that post-acute care assessment data elements be interoperable to:
 - **“allow for the exchange of data** among PAC providers and other providers **and the use** by such providers **of such data** that has been exchanged, including by using common standards and definitions, in order **to provide access to longitudinal information** for such providers **to facilitate coordinated care and improved Medicare beneficiary outcomes.”**
- Interoperable data elements facilitate improvements to reduce overall provider burden by allowing the use and reuse of healthcare data
- Supports provider exchange of electronic health information to facilitate care coordination and person-centered care
- Supports real-time, data driven, clinical decision making



IMPACT Act Requirements

- **Data Must be Interoperable**
 - **Quality Measures**
 - Functional Status
 - Skin Integrity
 - Medication Reconciliation
 - Incidence of Major Falls
 - Transfer of Health Information
 - Medicare Spending per Beneficiary
 - Discharge to Community
 - Potentially Preventable Hospital Readmissions
 - **Standardized Data Submission**
 - Admission and Discharge
 - Functional status
 - Cognitive function and mental status
 - Special services, treatments, and interventions
 - Medical conditions and co-morbidities
 - Impairments
 - Other categories required by the Secretary



What are Post-Acute Care Assessments?

- CMS PAC Assessments:
- LTCH Continuity Assessment Record & Evaluation (CARE) Data Set (LCDS)
- Resident Assessment Instrument (RAI) Minimum Data Set (MDS)
- Outcome and Assessment Information Set (OASIS)
- IRF Patient Assessment Instrument (IRFPAI)
- Hospice Item Set (HIS)*

DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTER FOR MEDICARE & MEDICAID SERVICES

INPATIENT REHABILITATION FACILITY

Identification Information*

1. Facility Information
A. Facility Name _____

B. Facility Medicare Provider Number _____

2. Patient Medicare Number _____

3. Patient Medical Number _____

4. Patient First Name _____

5A. Patient Last Name _____

5B. Patient Identification Number _____

6. Birth Date _____ MM/DD/YYYY

7. Social Security Number _____ MM/DD/YYYY

8. Gender (1 - Male; 2 - Female) _____

9. Race/Ethnicity (Check all that apply)

American Indian or Alaska Native A. _____
Asian B. _____
Black or African American C. _____
Hispanic or Latino D. _____
Native Hawaiian or Other Pacific Islander E. _____
White F. _____

10. Marital Status
(1 - Never Married; 2 - Married; 3 - Widowed;
4 - Separated; 5 - Divorced)

11. Zip Code of Patient's Pre-Residence _____

12. Admission Date _____ MM/DD/YYYY

13. Assessment Reference Date _____ MM/DD/YYYY

14. Admission Class
(1 - Initial Rehab; 2 - Evaluation; 3 - Re-admission;
4 - Discharged Discharge; 5 - Continuing Rehabilitation)

15A. Admit From
(01 - Home (private home only, board care, assisted living, group home, transitional living); 02 - Short-term General Hospital; 03 - Skilled Nursing Facility (SNF); 04 - Intermediate care; 06 - Home under care of organized home health service organization; 09 - Hospice (home);
11 - Hospice (institutional facility); 61 - Swing bed; 62 - Another Inpatient Rehabilitation Facility; 63 - Long-Term Care Hospital (LTCM);
64 - Medical Nursing Facility; 65 - Inpatient Psychiatric Facility;
66 - Critical Access Hospital; 99 - Not Listed)

16A. Pre-hospital Living Setting
(The codes from 1.6. Admin Form)

17. Pre-hospital Living With
(Code only if item 1.6.4 is 01 - Home. Code using 01 - Alone;
02 - Family/Partner; 03 - Friends; 04 - Attendant; 05 - Other)

18. DELETED

19. DELETED

inal IRF-PAI Version 2.0 - Effective October 1, 2018

OASIS C2

LIVING ARRANGEMENTS

(M1100) **Patient Living Situation:** Which of the following best describes the patient's residential circumstance and availability of assistance? (Check one box only.)

Living Arrangement	Availability of Assistance				
	Around the clock	Regular daytime	Regular nighttime	Occasional / short-term assistance	No assistance available
a. Patient lives alone	<input type="checkbox"/> 01	<input type="checkbox"/> 02	<input type="checkbox"/> 03	<input type="checkbox"/> 04	<input type="checkbox"/> 05
b. Patient lives with other person(s) in the home	<input type="checkbox"/> 06	<input type="checkbox"/> 07	<input type="checkbox"/> 08	<input type="checkbox"/> 09	<input type="checkbox"/> 10
c. Patient lives in congregate situation (for example, assisted living, residential care home)	<input type="checkbox"/> 11	<input type="checkbox"/> 12	<input type="checkbox"/> 13	<input type="checkbox"/> 14	<input type="checkbox"/> 15

SENSORY STATUS

(M1200) **Vision** (with corrective lenses if the patient usually wears them):

Enter Code	Description
<input type="checkbox"/> 0	Normal vision: sees adequately in most situations; can see medication labels, newspaper.
<input type="checkbox"/> 1	Partially impaired: cannot see medication labels or newspaper, but can see obstacles in path, and the surrounding layout; can count fingers at arm's length.
<input type="checkbox"/> 2	Severely impaired: cannot locate objects without hearing or touching them, or patient nonresponsive.

Centers for Medicare & Medicaid Services Patient Identifier

Section B Hearing, Speech, and Vision

B0100. Comatose

Enter Code Persistent vegetative state/no discernible consciousness

0. No → Continue to BB0700, Expression of Ideas and Wants

1. Yes → Skip to GG0100, Prior Functioning: Everyday Activities

BB0700. Expression of Ideas and Wants (3-day assessment period)

Enter Code Expression of ideas and wants (consider both verbal and non-verbal expression and excluding language barriers)

4. Expresses complex messages without difficulty and with speech that is clear and easy to understand

3. Exhibits some difficulty with expressing needs and ideas (e.g., some words or finishing thoughts) or speech is not clear

2. Frequently exhibits difficulty with expressing needs and ideas

1. Rarely/Never expresses self or speech is very difficult to understand

BB0800. Understanding Verbal and Non-Verbal Content (3-day assessment period)

Enter Code Understanding Verbal and Non-Verbal Content (with hearing aid or device, if used, and excluding language barriers)

4. Understands: Clear comprehension without cues or repetitions

3. Usually Understands: Understands most conversations, but misses some part/intent of message. Requires cues at times to understand

2. Sometimes Understands: Understands only basic conversations or simple, direct phrases. Frequently requires cues to understand

1. Rarely/Never Understands

Resident Identifier Date

Section H Bladder and Bowel

H0100. Appliances

Check all that apply

A. Indwelling catheter (including suprapubic catheter and nephrostomy tube)

B. External catheter

C. Ostomy (including urostomy, ileostomy, and colostomy)

D. Intermittent catheterization

Z. None of the above

H0200. Urinary Toileting Program

Enter Code A. Has a trial of a toileting program (e.g., scheduled toileting, prompted voiding, or bladder training) been attempted on admission/entry or reentry or since urinary incontinence was noted in this facility?

0. No → Skip to H0300, Urinary Continence

1. Yes → Continue to H0200B, Response

9. Unable to determine → Skip to H0200C, Current toileting program or trial

Enter Code B. Response - What was the resident's response to the trial program?

0. No improvement

1. Decreased wetness

2. Completely dry (continent)

9. Unable to determine or trial in progress

Enter Code C. Current toileting program or trial - Is a toileting program (e.g., scheduled toileting, prompted voiding, or bladder training) currently being used to manage the resident's urinary continence?

0. No

1. Yes

H0300. Urinary Continence

Enter Code Urinary continence - Select the one category that best describes the resident

0. Always continent

1. Occasionally incontinent (less than 7 episodes of incontinence)

2. Frequently incontinent (7 or more episodes of urinary incontinence, but at least one episode of continent voiding)

3. Always incontinent (no episodes of continent voiding)

9. Not rated, resident had a catheter (indwelling, condom), urinary ostomy, or no urine output for the entire 7 days

H0400. Bowel Continence

Enter Code Bowel continence - Select the one category that best describes the resident

0. Always continent

1. Occasionally incontinent (one episode of bowel incontinence)

2. Frequently incontinent (2 or more episodes of bowel incontinence, but at least one continent bowel movement)

3. Always incontinent (no episodes of continent bowel movements)

9. Not rated, resident had an ostomy or did not have a bowel movement for the entire 7 days

H0500. Bowel Toileting Program

Enter Code Is a toileting program currently being used to manage the resident's bowel continence?

0. No

1. Yes

H0600. Bowel Patterns

Enter Code Constipation present?

0. No

1. Yes

MDS 3.0 Nursing Home Comprehensive (NC) Version 1.16.0R Effective 10/01/2018 DRAFT

Page 24 of 50

Final LTCH CARE Data Set Version 4.00, Admission - Effective July 1, 2018

PAC Assessment Content

- **Administrative Content**

- Patient Name
- Date of Birth
- Race/Ethnicity
- Marital status
- Admission/Discharge dates
- Admit from/Discharged to locations
- Reason for admission
- Provider NPI, CCN, Medicaid Provider #

- **Standardized Patient Assessment Data Elements (SPADEs) across instruments**

- Function (e.g., self care and mobility)
- Cognitive function (e.g., express & understand ideas; mental status, such as depression and dementia)
- Special services, treatments & interventions (e.g., need for ventilator, dialysis, chemotherapy, and total parenteral nutrition)
- Medical conditions and co-morbidities (e.g., diabetes, heart failure, and pressure ulcers)
- Impairments (e.g., incontinence; impaired ability to hear, see, or swallow)
- Other categories

- **Clinical Content**

- Diagnosis/medical conditions
- Mental/Cognitive Status (memory, orientation, consciousness, delirium, mood, behavior)
- Communication (express needs, understanding verbal/non-verbal content, hearing and vision)
- Functional Status (Self-care/ADLs, Mobility, Use of assistive devices)
- Bladder and Bowel continence
- Falls
- Pressure ulcers and other skin conditions
- Surgery
- Nutritional and swallowing status
- Medication information
- Special treatments, procedures & programs
- Height and Weight
- Patient preferences and goals of treatment
- Pain
- Vaccinations
- Therapy- PT, OT, SLT
- Living arrangements/support availability
- Care planning



SPADES: Standardized Assessment: Many Uses

Section GG	Functional Abilities and Goals
GG0170. Mobility (3-day assessment period)	
Code the patient's usual performance at admission for each activity using the 6-point scale. If activity was not attempted at admission, code the reason. Code the patient's discharge goal(s) using the 6-point scale. Use of codes 07, 09, 10, or 88 is permissible to code discharge goal(s).	
Coding: Safety and Quality of Performance - If helper assistance is required because patient's performance is unsafe or of poor quality, score according to amount of assistance provided. <i>Activities may be completed with or without assistive devices.</i> 06. Independent - Patient completes the activity by him/herself with no assistance from a helper. 05. Setup or clean-up assistance - Helper sets up or cleans up; patient completes activity. Helper assists only prior to or following the activity. 04. Supervision or touching assistance - Helper provides verbal cues and/or touching/steadying and/or contact guard assistance as patient completes activity. Assistance may be provided throughout the activity or intermittently. 03. Partial/moderate assistance - Helper does LESS THAN HALF the effort. Helper lifts, holds or steadies patient for more than half the effort. 02. Substantial/maximal assistance - Helper does MORE THAN HALF the effort. Helper lifts or steadies patient for more than half the effort. 01. Dependent - Helper does ALL of the effort. Patient does none of the effort to complete the activity.	
If activity was not attempted, code reason: 07. Patient refused 09. Not applicable - Not attempted and the patient did not perform this activity prior to the current illness, exacerbation, or injury. 10. Not attempted due to environmental limitations (e.g., lack of equipment, weather constraints) 88. Not attempted due to medical condition or safety concerns	

1. Admission Performance	2. Discharge Goal	
↓ Enter Codes in Boxes ↓		
<input type="text"/>	<input type="text"/>	A. Roll left and right on bed.
<input type="text"/>	<input type="text"/>	B. Sit to lying: Transfer to and from bed.
<input type="text"/>	<input type="text"/>	C. Lying to sitting: Feet flat on the floor.
<input type="text"/>	<input type="text"/>	D. Sit to stand: Transfer to and from bed.
<input type="text"/>	<input type="text"/>	E. Chair/bed-to-chair transfer: The ability to transfer to and from a bed to a chair (or wheelchair).
<input type="text"/>	<input type="text"/>	F. Toilet transfer: The ability to get on and off a toilet or commode.
<input type="text"/>	<input type="text"/>	G. Car transfer: The ability to transfer in and out of a car or van on the passenger side to open/close door or fasten seat belt.

Data Elements: Question and Response

Care Planning/
Decision Support

QI

Payment

Quality Reporting

Care Transitions



The Data Element Library (DEL)

- The DEL is a centralized resource for CMS assessment data elements (e.g. questions and response options), and their related mappings to nationally accepted health IT standards

- **PAC Settings and Their CMS Assessments:**

- Long-term Care Hospitals (LTCHs) = LTCH Continuity Assessment Record & Evaluation (CARE) Data Set (LCDS)
- Skilled Nursing Facilities (SNFs) = Resident Assessment Instrument (RAI) Minimum Data Set (MDS)
- Home Health Agencies (HHAs) = Outcome and Assessment Information Set (OASIS)
- Inpatient Rehabilitation Facilities (IRFs) = IRF patient assessment instrument (IRF-PAI)
- Hospices = Hospice Item Set

DEL Contents

- Assessment and version (e.g., MDS 3.0 v. 1.16)
- Item label (e.g.- GG0170)
- Item status (Published, Active, Inactive)
- Copyright information (if applicable)
- CMS usage (Payment, Quality Measure, Survey and Certification, etc.)
- Identification of skip pattern triggers and lookback periods
- Health IT standards (e.g., LOINC, SNOMED)

Visit the DEL here: <https://del.cms.gov>



DEL Homepage

- Overview
- Announcements
- Listserv

Visit the DEL here:

<https://del.cms.gov>

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Data Element Library

Search Reports Help Training/FAQ

Data Element Library Overview

What is the Data Element Library?

The CMS Data Element Library (DEL) is the centralized resource for CMS assessment instrument data elements (e.g. questions and responses) and their associated health information technology (IT) standards.

DEL Mission and Goals

The mission of the Data Element Library (DEL) is to create a comprehensive, electronic, distributable, and centralized resource of CMS assessment instrument content.

In support of the Improving Medicare Post-Acute Care Transformation Act (IMPACT Act), the goals of the DEL are to:

- Serve as a centralized resource for CMS assessment data elements (questions and response options)
- Promote the sharing of electronic CMS assessment data sets and health information technology standards; and
- Influence and support industry efforts to promote Electronic Health Record (EHR) and other health IT interoperability

In support of CMS' focus on "Patients over Paperwork", the DEL promotes interoperable health information exchange by linking CMS assessment questions and response options to nationally accepted health IT standards. Standardized and interoperable data support health information exchange across healthcare settings to facilitate care coordination, improved health outcomes, and reduced provider burden through the reuse of appropriate healthcare data.

What is included in the DEL?

CMS assessment items included in the DEL are derived from the following:

- Inpatient Rehabilitation Facility Patient Assessment Instrument (IRF-PAI)
- Long-Term Care Hospital Continuity Assessment Record & Evaluation (CARE) Data Set (LCDS)
- Resident Assessment Instrument (RAI) Minimum Data Set (MDS)
- Outcome and Assessment Information Set (OASIS)
- Hospice Item Set (HIS)
- Functional Assessment Standardized Items (FASI) (In Progress)

The DEL does not contain patient health data. The DEL database includes post-acute care (PAC) assessment questions and their response options, as well as other associated details including the assessment version, item labels, item status, copyright information, CMS item usage, skip pattern information, lookback periods, and linked health IT Standards (e.g. Logical Observation Identifiers Names and Codes (LOINC), and Systematized Nomenclature of Medicine - Clinical Terms (SNOMED) when available).

How do I learn more?

Please visit the help page for frequently asked questions and the user guide. In addition, sign up for the DEL listserv [here](#) to receive email updates about the Data Element Library.

Announcements

Upcoming DEL Outage:
The Data Element Library will be unavailable at the following times:
beginning Friday 1/18/19 8pm ET through Sunday 1/20/19 8am ET, and beginning Friday 1/25/19 8pm ET through Sunday 1/27/19 Noon ET due to system maintenance.



Search Categories

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Data Element Library

Search Reports Help Training/FAQ

List of Available Search Categories

Data Elements	HIT Codes
Search by ID	Search by ID
Search by Text	Search by Text
Search by Assessment Instrument Version	Search by Assessment Instrument Version
Search by Item Status	
Search by Item Subset	

Home **CMS.gov** A federal government website managed by the Centers for Medicare & Medicaid Services. 7500 Security Boulevard, Baltimore, MD 21244

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CMS.gov
Centers for Medicare & Medicaid Services

Data Element Library

Search Reports Help Training/FAQ

Data Element Search by Assessment Instrument Version

* indicates required field.

* Assessment Instrument: LCDS

* Assessment Version: 4.00

Search



Search Results List

Data Element Search by Assessment Instrument Version

There are 163 records returned from the search.

* indicates required field.

* Assessment Instrument:

* Assessment Version:

List of Data Element Search Results

Assessment Instrument	Item ID	Section Name	Short Name
LCDS	A0050	Section A: Administrative Information	Type of transaction
LCDS	A0100	Section A: Administrative Information	{Facility/provider} numbers
LCDS	A0100A	Section A: Administrative Information	{Facility/provider} National Provider Identifier (NPI)
LCDS	A0100B	Section A: Administrative Information	{Facility/provider} CMS Certification Number (CCN)
LCDS	A0100C	Section A: Administrative Information	State {facility/provider} Medicaid number
LCDS	A0200	Section A: Administrative Information	Type of {facility/provider}
LCDS	A0210	Section A: Administrative Information	Assessment reference date
LCDS	A0220	Section A: Administrative Information	Admission date
LCDS	A0250	Section A: Administrative Information	Reason for assessment (record)
LCDS	A0270	Section A: Administrative Information	Discharge date
LCDS	A0500	Section A: Administrative Information	Legal name of {patient/resident}
LCDS	A0500A	Section A: Administrative Information	{Patient/resident} first name
LCDS	A0500B	Section A: Administrative Information	{Patient/resident} middle initial
LCDS	A0500C	Section A: Administrative Information	{Patient/resident} last name
LCDS	A0500D	Section A: Administrative Information	{Patient/resident} name suffix



Detailed Data Element Information

Item Name	Item Value
Item ID:	A2110
Assessment Instrument:	LCDS
Assessment Instrument Version(s):	2.01,3.00,4.00
Section Name:	Section A: Administrative Information
Short Name:	Discharge location
Question Text:	Discharge Location
Valid Response Values (Code, Text):	01 Community residential setting (e.g., private home/apt., board/care, assisted living, group home, adult foster care) 02 Long-term care facility (LTC) 03 Skilled Nursing Facility (SNF) 04 Hospital emergency department 05 Short-stay acute hospital (IPPS) 06 Long-term care hospital (LTCH) 07 Inpatient rehabilitation facility or unit (IRF) 08 Psychiatric hospital or unit 09 Intellectually Disabled/Developmentally Disabled (ID/DD) facility 10 Hospice 12 Discharged Against Medical Advice 98 Other = Voluntarily skipped
Skip Pattern Trigger:	N
Lookback Period (days):	0
Status:	Active
Status Date:	10-01-2014
Item Use(s):	*
Collection Time Period/Item Subset(s):	LCDS Planned Discharge; LCDS Unplanned Discharge
Parent Item ID:	*
HIT Information (Standard Name, Version, Code):	LOINC 2.63 85416-6
Copyright Information:	<i>(Next three entries)</i>
Owning Organization:	*
License Required Indicator:	*
Owning Organization Weblink:	*



OASIS D Health IT Codes

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Data Element HIT Codes

20190117_HIT_Codes - Excel

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Beth Connor

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[Data Elements by Assessment Instrument Version](#)
[Data Elements Used Across Settings](#)
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HIT Standard Name	HIT Standard Version	Item HIT Code	Item HIT Text	Assessment Instrument	Assessment Instrument Version	Item ID	Short Name	Item Subsets	Response HIT Code	Assessment Response Codes	Response HIT Text
LOINC	2.64	83239-4	Prior functionir	OASIS	D-012019	GG0100	Prior functio	01 03	LA11539-6	3 1 2 8 9	Independent - Patient completed the activities by him/herself, wit
LOINC	2.64	85070-1	Prior functionir	OASIS	D-012019	GG0100A	Prior functio	01 03	LA11539-6	3 1 2 8 9	Independent - Patient completed the activities by him/herself, wit
LOINC	2.64	85071-9	Prior functionir	OASIS	D-012019	GG0100B	Indoor mobil	01 03	LA11539-6	3 1 2 8 9	Independent - Patient completed the activities by him/herself, wit
LOINC	2.64	85072-7	Prior functionir	OASIS	D-012019	GG0100C	Prior functio	01 03	LA11539-6	3 1 2 8 9	Independent - Patient completed the activities by him/herself, wit
LOINC	2.64	85073-5	Prior functionir	OASIS	D-012019	GG0100D	Prior functio	01 03	LA11539-6	3 1 2 8 9	Independent - Patient completed the activities by him/herself, wit
LOINC	2.64	83234-5	Prior device use	OASIS	D-012019	GG0110	Prior device u	01 03	LA10046-3	E D C A B Z	Orthotics/Prosthetics Walker Mechanical lift Manual wheel chair
LOINC	2.64	89410-5	Eating - functio	OASIS	D-012019	GG0130A1	Self-care (adr	01 03	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89409-7	Eating - functio	OASIS	D-012019	GG0130A2	Self-care (dis	01 03	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89410-5	Eating - functio	OASIS	D-012019	GG0130A3	Self-care (dis		9 LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89410-5	Eating - functio	OASIS	D-012019	GG0130A4	Self-care (fol	04 05	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89405-5	Oral hygiene - f	OASIS	D-012019	GG0130B1	Self-care (adr	01 03	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89404-8	Oral hygiene - f	OASIS	D-012019	GG0130B2	Self-care (dis	01 03	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89405-5	Oral hygiene - f	OASIS	D-012019	GG0130B3	Self-care (dis		9 LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.
LOINC	2.64	89405-5	Oral hygiene - f	OASIS	D-012019	GG0130B4	Self-care (fol	04 05	LA10055-4	03 07 05 02 88	Partial/moderate assistance - Helper does less than half the effort.

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Training/FAQ

Helpful Documents

- Introduction to the CMS Data Element Library (DEL) webinar recording, July 11, 2018: [Link](#)
- Data Element Library Introductory Webinar - July 11, 2018: [Link to PDF](#)
- DEL User Guide: [Link to PDF](#)

Frequently Asked Questions

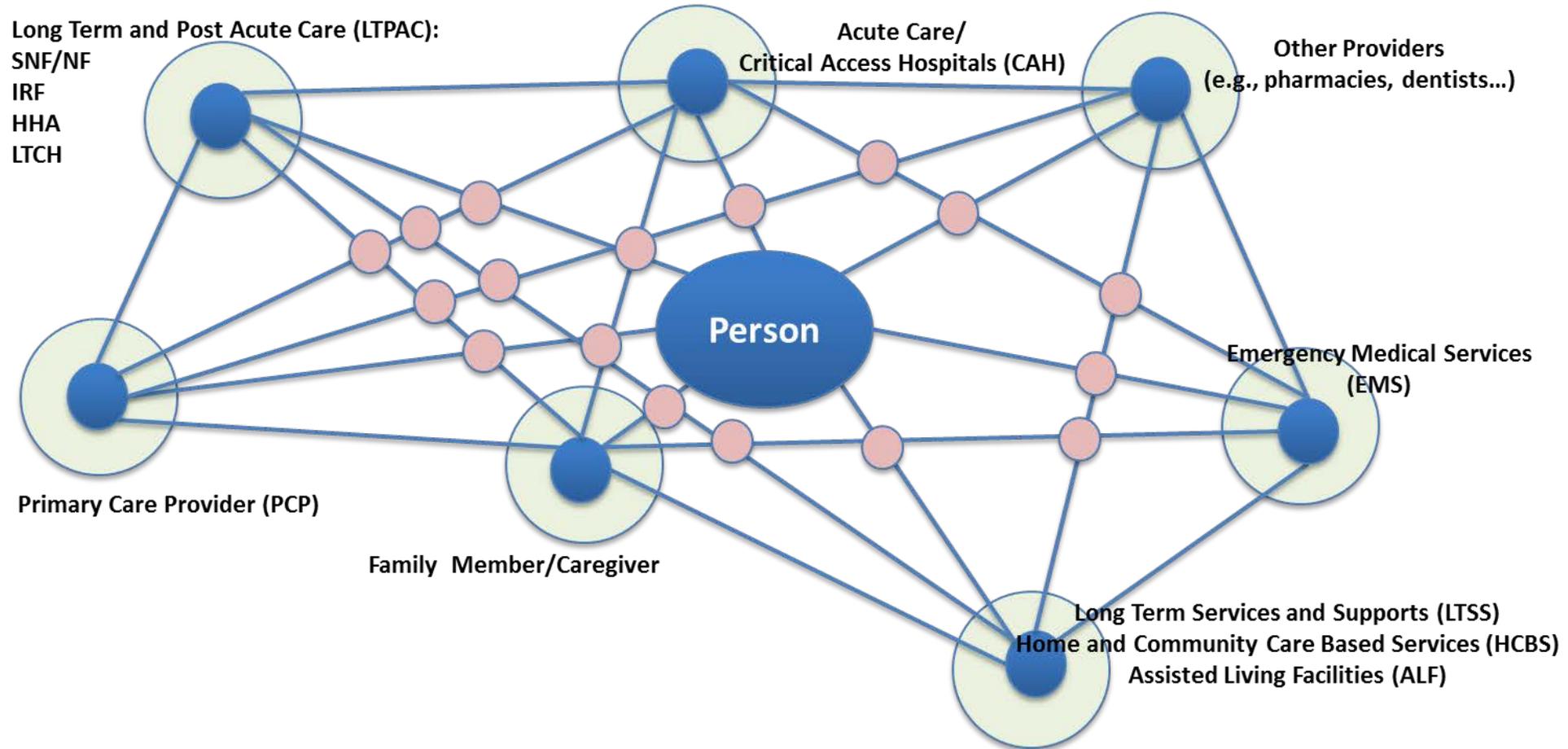
Question	Answer
What is a data element?	In the context of the CMS Data Element Library and post-acute care, data elements are discrete questions and responses that are found in the patient/resident assessment instruments that post-acute care providers use to submit data to CMS.
I am a PAC provider, does the DEL change how I submit data now?	No- the DEL is a repository of CMS assessment data elements (questions and responses). It does not affect provider data submission processes. Providers and vendors must still follow the submission specifications required for submitting data to CMS electronically.
How frequently will the DEL	



Alignment and Interoperability: Advancing interoperability by aligning assessment content with industry standards and mapping content to vocabularies, terminologies and code sets



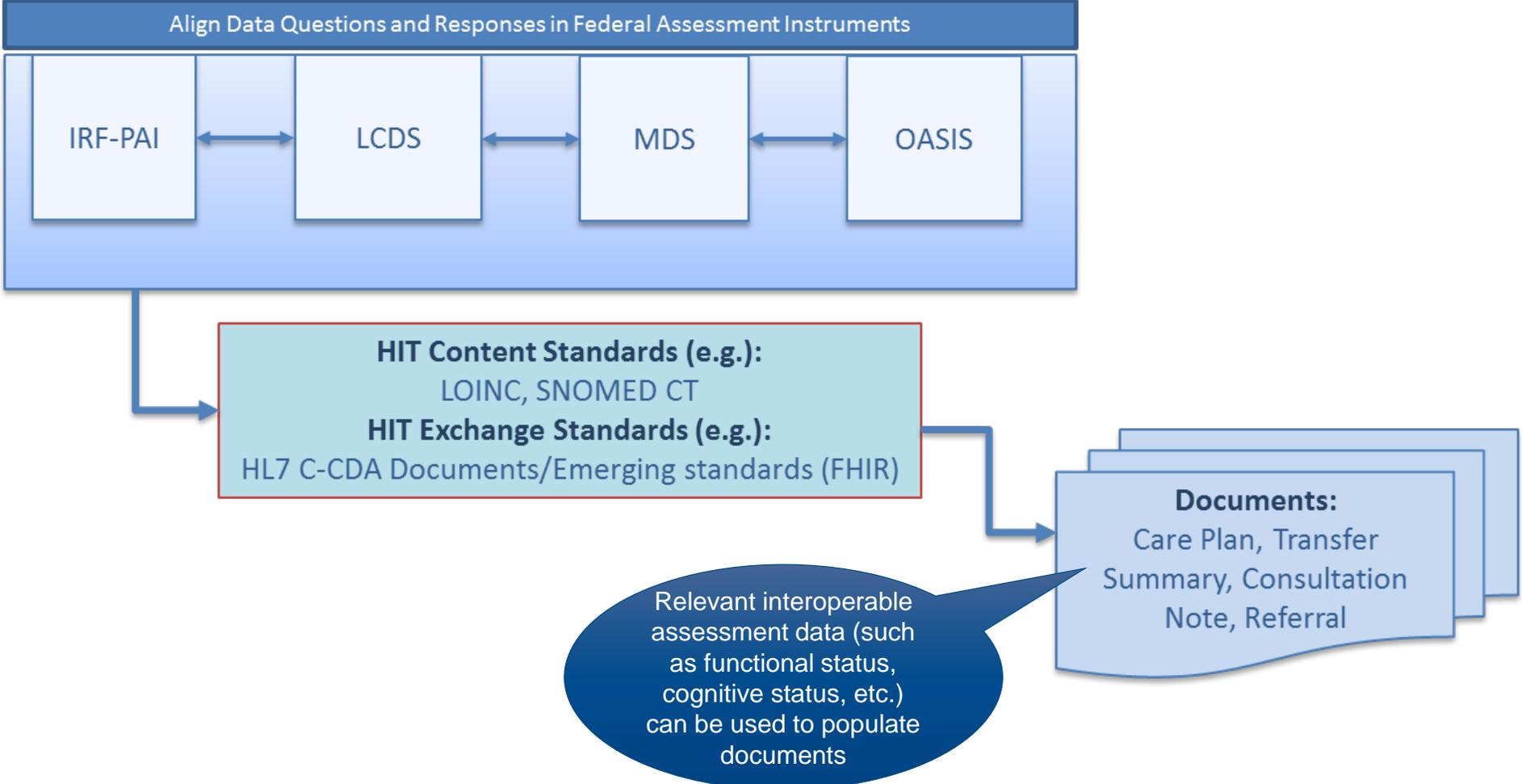
Guiding Principle: Data Needs to Follow the Person



Support data availability in real-time. Electronic information is exchanged and used by health IT systems without special effort on the part of the user.



Making PAC Assessment Data Elements Standardized/Aligned and Interoperable



CMS Data Element Library HIT Workgroup Focus



Vision for Interoperable Assessment Content



Opportunities for Burden Reduction



Use Cases for Interoperable Assessment Content



Aligning with National Standards



Mapping to Relevant Vocabulary & Terminology Standards



Use of Interoperable Assessment Content by Implementers



Vision for Interoperable Assessment Content

- Strategy: Leverage standardized data that is collected on almost all PAC patients to advance interoperability, reduce burden, and improve patient care.
- Models:
 - Identify single code to represent the assessment question and response and re-use data in relevant exchange documents (current focus)
 - Identify a value set of codes that could be used to support completion of an assessment item (future)



Opportunities for Burden Reduction and Improved Communication

- Real-time data availability improves patient care
- Machine processable data reduces provider burden:
 - Eliminates duplicative data entry
 - Minimizes searching medical record for relevant content
- Experiences of Early Adopters - Faster Data Entry
 - Valuable to have common data standards across provider types
 - Data from exchange documents (e.g. CCD) populates the patient record



Use Cases for Interoperable Assessment Content

- **Care coordination between multiple providers / proxy / family members**

- Appointments, readmissions, sharing care plan, chart sharing, transportation

- **Transitions of care referrals**

- Intake, info queries, transition out, follow-up activity coordination
- Medication reconciliation
- Clinical decision support

- **Admission / Discharge information notifications**

- Helps all parties to track patient status

- **Population Health Management Administration**

- Quality management, at risk dollars, who is high risk and why

- **Changing relationship between patient and caregivers**

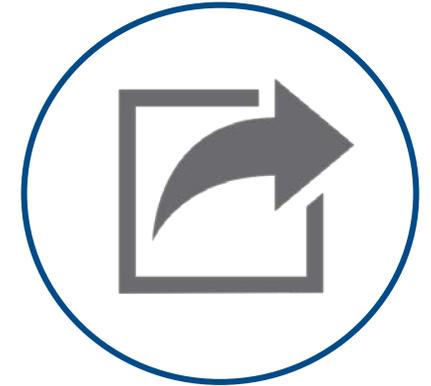
- Connective devices, patient engagement, monitoring, telehealth

- **Getting providers engaged**

- Quality compared to peers, financial metrics, cost of care

- **Advanced directives**

- Sharing and notifications



Aligning With National Standards

- ONC Interoperability Standards Advisory
 - DEL Health IT standards align with national policy
 - LOINC and SNOMED-CT for assessment content
- Analyzed Common Clinical Data Set/U.S. Core Data for Interoperability (USCDI)
 - Identified opportunities for alignment of assessment content to USCDI
 - Provided comments on future candidate data types important to support PAC for USCDI expansion



- [2019 ONC Interoperability Standards Advisory: https://www.healthit.gov/isa/sites/isa/files/inline-files/2019ISARefrenceEdition.pdf](https://www.healthit.gov/isa/sites/isa/files/inline-files/2019ISARefrenceEdition.pdf)
- [ONC Common Clinical Data Set: https://www.healthit.gov/public-course/interoperability-basics-training/Isn1069/010110---a.htm](https://www.healthit.gov/public-course/interoperability-basics-training/Isn1069/010110---a.htm)
- [Draft USCDI: https://www.healthit.gov/sites/default/files/draft-uscdi.pdf](https://www.healthit.gov/sites/default/files/draft-uscdi.pdf)



Mapping to Relevant Vocabulary & Terminology Standards

- Selected codes aligned with national policy and utilized in exchange standards (e.g. C-CDA templates)
- Mapped assessment content to LOINC and SNOMED
 - LOINC codes represent the question and answer
 - SNOMED codes represent the answer meaning
- LOINC codes are available for PAC assessments on the DEL



GG0100 as Shown on IRF-PAI

SNOMED-CT:	Section GG	Functional Abilities and Goals	LOINC:
	GG0100.	Prior Functioning: Everyday Activities. Indicate the patient's usual ability with everyday activities prior to the current illness, exacerbation, or injury.	Panel Code*
Answer Codes		<div style="text-align: right; color: orange;">83239-4</div> <div style="text-align: center;">↓ Enter Codes in Boxes</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Coding:</p> <p>3. Independent - Patient completed the activities by him/herself, with or without an assistive device, with no assistance from a helper.</p> <p>2. Needed Some Help - Patient needed partial assistance from another person to complete activities.</p> <p>1. Dependent - A helper completed the activities for the patient.</p> <p>8. Unknown</p> <p>9. Not Applicable</p> </div> <div style="width: 60%;"> <p><input type="checkbox"/> A. Self-Care: Code the patient's need for assistance with bathing, dressing, using the toilet, or eating prior to the current illness, exacerbation, or injury. 85070-1</p> <p><input type="checkbox"/> B. Indoor Mobility (Ambulation): Code the patient's need for assistance with walking from room to room (with or without a device such as cane, crutch, or walker) prior to the current illness, exacerbation, or injury. 85071-9</p> <p><input type="checkbox"/> C. Stairs: Code the patient's need for assistance with internal or external stairs (with or without a device such as cane, crutch, or walker) prior to the current illness, exacerbation, or injury. 85072-7</p> <p><input type="checkbox"/> D. Functional Cognition: Code the patient's need for assistance with planning regular tasks, such as shopping or remembering to take medication prior to the current illness, exacerbation, or injury. 85073-5</p> </div> </div>	Question Codes
371153006	→	3. Independent	
371152001	→	2. Needed Some Help	
371154000	→	1. Dependent	
261665006	→	8. Unknown	
385432009	→	9. Not Applicable	

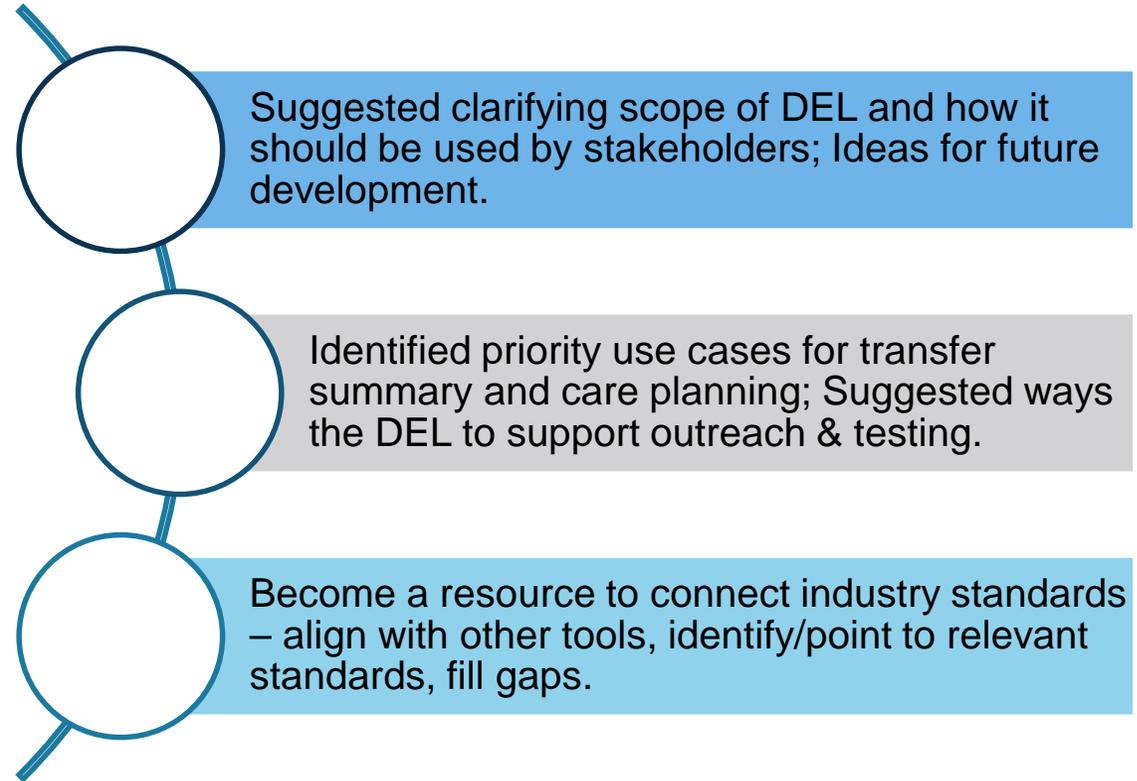
Use of Interoperable Assessment Content by Implementers

- Best practices for data element design to support interoperability
- Ensure health IT content vocabularies Use in HIE standards
- Leverage DEL's content with other industry tools such as:
 - Value Set Authority Center (VSAC)
 - Regenstrief LOINC Mapping Assistant (RELMA)
- Convene Advisory Group (industry and HHS)
 - Input on future direction for DEL and health IT priorities
 - Identify priority use cases that leverage existing standards and address gaps. Tailor implementation guides and coordinate testing.



Industry Expert Roundtable on CMS Data Element Library

- Provided feedback on the CMS Data Element Library:
 - Inform healthcare policies Advance interoperability
 - Support transfer of care, coordination of care, quality measurement, and research



Health Data Exchange Through FHIR

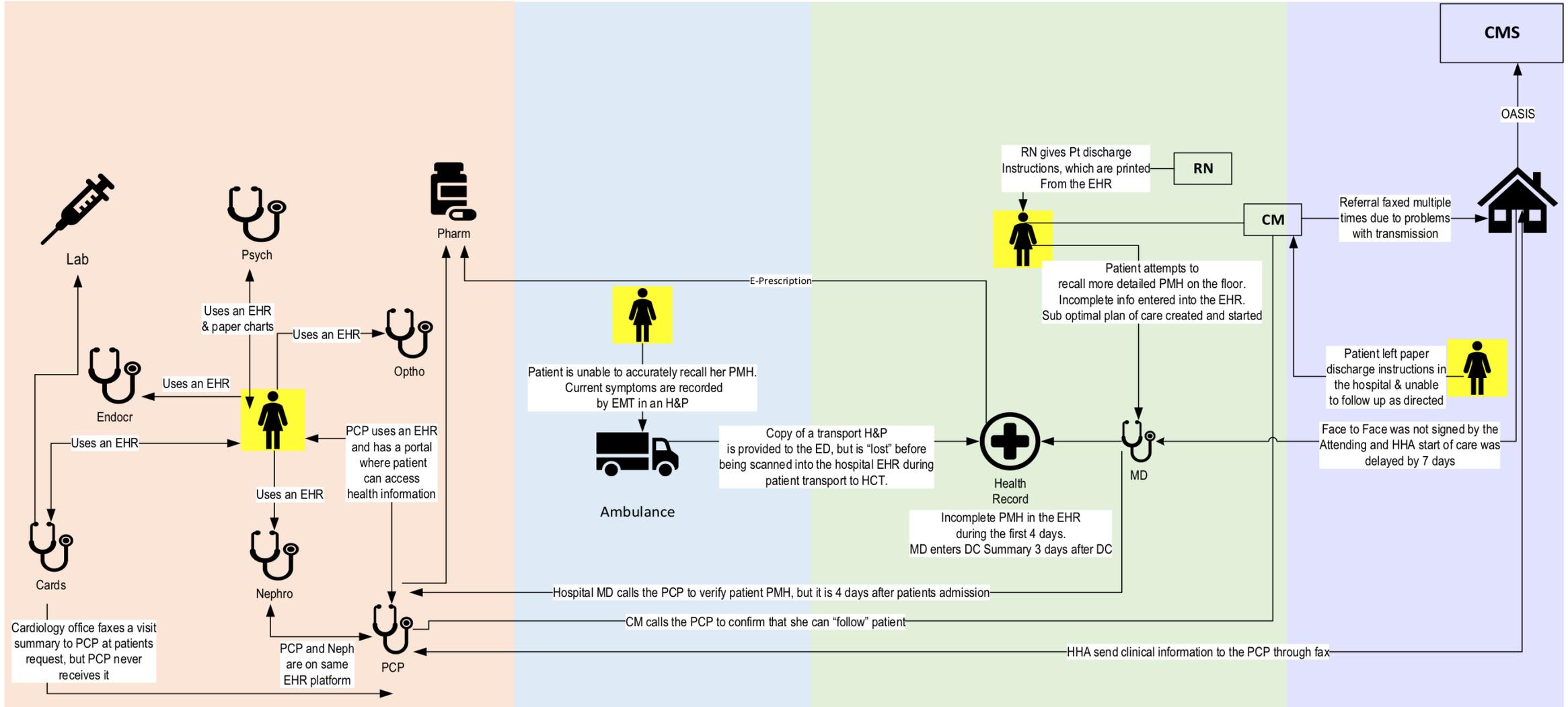


We're Building the Future with FHIR

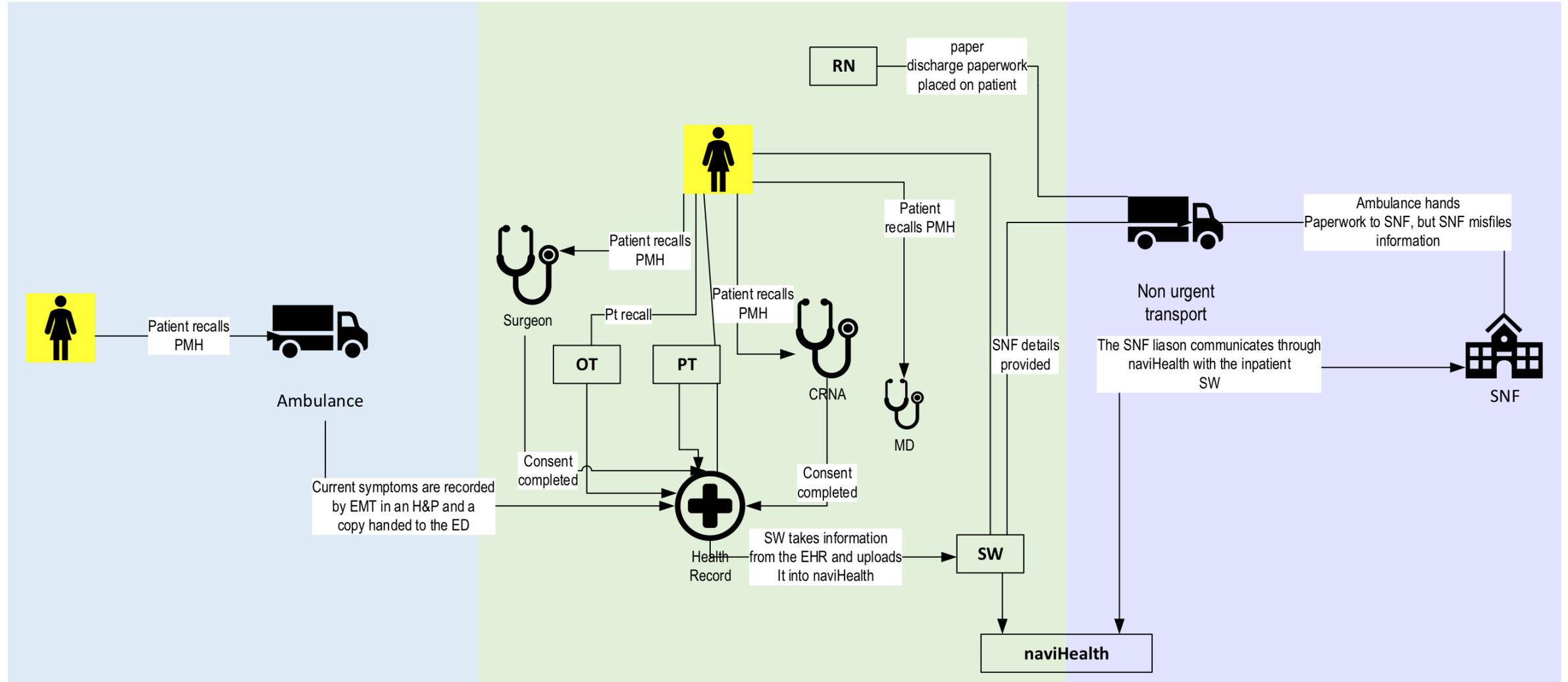
- 1) Participate in HL7 Working Groups
- 2) Create sustainable PAC Interoperability Working Group
- 3) Identify tightly-scoped use case to implement for a connect-a-thon
- 4) Develop FHIR Implementation Guides for use case data models
- 5) Review and harmonize FHIR Implementation Guides with key stakeholders
- 6) Host connect-a-thon to test FHIR Implementation Guides
- 7) Build industry consensus around FHIR Implementation Guides
- 8) Identify next agile part of use case to implement, and repeat steps 4 through 8.



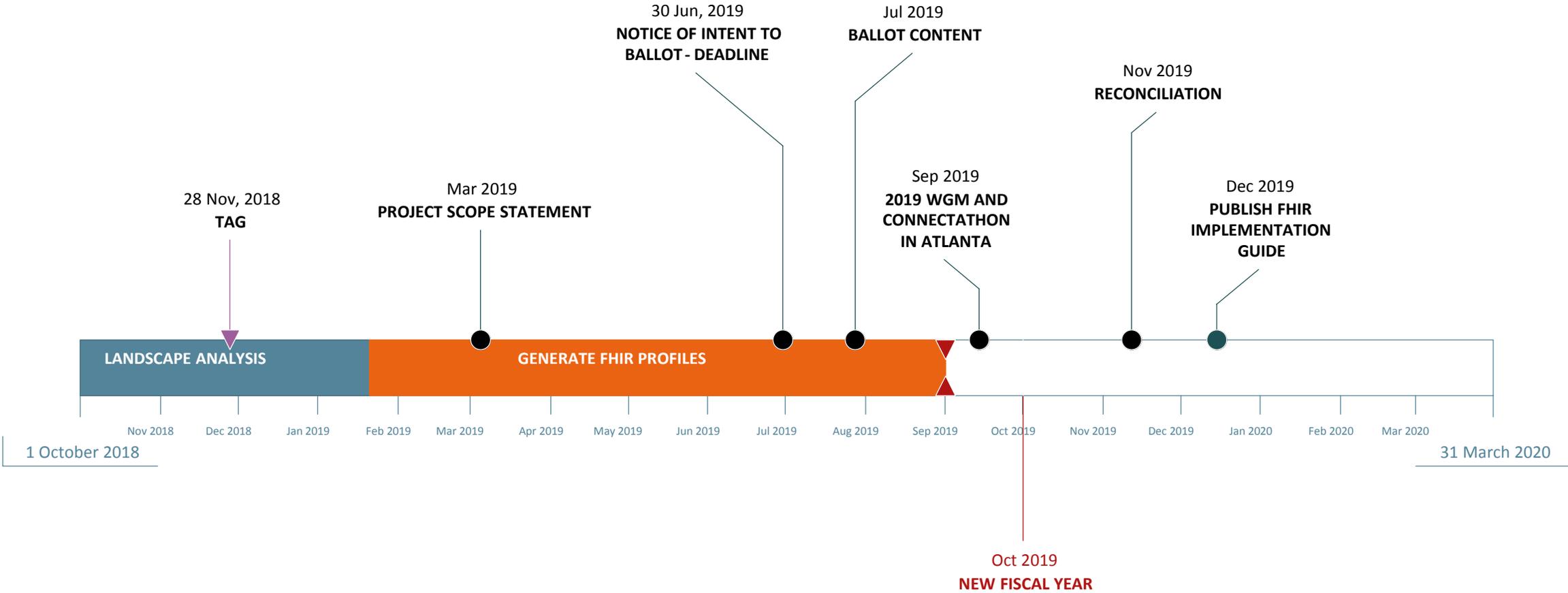
Outpatient → EMS → Inpatient → Home Health



EMS → Inpatient → SNF



Proposed Timeline for FHIR Work (Publish Dec 2019)



Call to Action: How to Participate

- **Health IT developers**

- Build on existing health IT systems
- Try out new projects/systems

- **PAC providers**

- Analyze how and where assessment data fits in clinical workflow
- Provide feedback on development priorities

- **Ways to contribute:**

- Subject matter expertise
- Scalability of implementing the eventual solution
- Assist in the delivery of key deliverables and project artifacts
- Development of testing tools, testing implementations, etc.

To participate in PAC Interoperability workgroup and FHIR connect-a-thon contact: Dave Hill, dwhill@mitre.org



Wrap Up and Question & Answer Session



Resources

- For more information on the IMPACT Act, visit the [IMPACT Act](#) webpage
- For more information on Post-Acute Care Quality Reporting Programs, visit:
 - [Home Health Agencies](#)
 - [Hospice Agencies](#)
 - [Inpatient Rehab Facilities](#)
 - [Long-term Care Hospitals](#)
 - [Skilled Nursing Facilities](#)
- For DEL updates, sign up for the listserv [here](#)
- For DEL feedback or questions, contact: DELHelp@cms.hhs.gov



Thank You

- Beth Connor, CMS
 - Beth.Connor@cms.hhs.gov
- Lorraine Wickiser
 - Lorraine.Wickiser@cms.hhs.gov
- Elizabeth Palena Hall, ONC
 - Elizabeth.PalenaHall@hhs.gov
- Michelle Dougherty, RTI International
 - MDougherty@rti.org
- Dave Hill, MITRE
 - Dwhill@mitre.org

CMS Contractors supporting the DEL:

NIC/Telligen
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