PACIO-eLTSS Post-Acute Care Transition Summary Track

Report Out
May 15, 2020
Agenda

1. Background
2. Purpose of this track
3. Use case description and diagram
4. System diagram
5. Scene-by-scene screen captures
6. What went well
7. Challenges
Background: CMS Assessments

Post-acute care (PAC) providers are required to complete and submit assessments at specified intervals. The assessment instruments that collect this data are:

- Long-Term Care Hospital CARE Data Set (LCDS) for LTCHs
- Minimum Data Set (MDS) for SNFs
- Outcome and Assessment Information Set (OASIS) for HHAs
- Inpatient Rehabilitation Facility Patient Assessment Instrument (IRF PAI) for IRFs
- Functional Assessment Standardized Items (FASI) for HCBS

In support of the 2014 Improving Medicare Post-Acute Care Transformation Act (IMPACT Act), CMS created the Data Element Library (DEL) to support standardization and interoperability of patient assessment data elements. The DEL is the centralized resource for CMS assessment instrument data elements (e.g. questions and responses) and their associated health information technology (IT) standards.

CMS prioritized cognitive and functional status as an area of clinical importance in need of standardization.


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Purpose of This Track

1. Test integration of CMS assessment data elements from the Data Element Library (DEL) into health IT systems using FHIR APIs.
2. Exchange patient level cognitive and functional status data between two disparate health IT (HIT) systems, incorporated with electronic Long-Term Services and Support (eLTSS) care plan and patient goals data, in a consumable format for clinicians, patients, and family members.
Participants

Organizations
• Altarum
• MITRE
• Patient Centric Solutions

Track Leads
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Use Case Diagram

**PACIO-eLTSS Use Case**

Transitions of Care Data Hub PHR API

- eLTSS data pushed
- Functional & cognitive assessment data pushed
- Pseudo DEL
- HHA EHR
- SNF EHR
- Pull eLTSS, functional & cognitive assessment data
- Pull MDS Admission & Discharge Assessment Form
- Pull OASIS Admission & Discharge Assessment Form

**Use Cases**

**Scene 1: HOME**
- Patient receives HCBS services at home
- SW assesses and documents eLTSS data in the care management system
- eLTSS data is pushed to the Data Hub

**Scene 2: HOSPITAL**
- Patient experiences a fall at home and is admitted to the hospital for surgery
- After the surgical intervention, patient is assessed by the nurse, PT/OT/SLP and recommended to continue PT/OT/SLP therapy in a SNF
- Cognitive and functional assessments completed and documented in the hospital EHR, are pushed to the Data Hub

**Scene 3: SNF**
- Patient is admitted to the SNF to continue PT/OT/SLP rehabilitation after surgery, for 14 days
- SNF retrieves and reviews the PACIO-eLTSS data and assessment data from the Data Hub to inform the care plan
- Functional and cognitive status is assessed on admission and discharge and pushed to the Data Hub

**Scene 4: PSEUDO DEL**
- Assessment application pulls the standardized assessment data from the CMS DEL to present forms to the clinician performing the assessments
- Assessment application stores the functional and cognitive assessment answers into the Data Hub

**Scene 5: HOME**
- Patient is discharged home to continue receiving HCBS and Home Health services (PT/OT/SN)
- HHA agency coordinator reviews the patient’s PACIO-eLTSS data as part of the image process: Data is pulled from the Data Hub
- Functional and cognitive status are assessed on admission and discharge and pushed to the Data Hub

**Scene 6: PATIENT/FAMILY ACCESS**
- Patient shares her medical record with her adult son and daughter
- Patient refers to her care plan to inform her daily activities

**ACRONYMS**

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<thead>
<tr>
<th>HCBS</th>
<th>Home and Community Based Services</th>
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<tr>
<td>SNF</td>
<td>Skilled Nursing Facility</td>
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<td>SW</td>
<td>Social Worker</td>
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<td>HHA</td>
<td>Home Health Agency</td>
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<td>PT/OT/SLP</td>
<td>Physical Therapy/Occupational Therapy/Speech Language Pathology</td>
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<tr>
<td>CMS DEL</td>
<td>Centers for Medicare and Medicaid Services Data Element Library</td>
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Last Updated 4/24/2020
Ms. Betsy Smith Johnson receives home community-based services (HCBS) services at home. A social worker documents eLTSS data including care plan and goals. eLTSS data is pushed to the Data Hub.
Betsy experiences a fall at home and is admitted to the hospital for surgery. After the surgical intervention, Betsy is assessed by physical, occupational & speech language pathology therapists (PT/OT/SLP) and is recommended to continue her therapy in a skilled nursing facility (SNF). Cognitive and functional assessments completed and documented in the hospital EHR are pushed to the Data Hub.

1. Select EHR Patient

2. Select PAC Assessment

3. Complete and review PAC Assessment

4. Submit to EHR
Betsy is admitted to the SNF for PT/OT/SLP services for 14 days. The SNF retrieves the eLTSS data and assessment data from the Data Manager to inform her care. Functional and cognitive status is assessed on admission and discharge and pushed to the Data Hub.
The assessment application pulls the standardized assessment data from the CMS DEL and presents forms to the clinician performing the assessments.
After 14 days, Betsy is ready for discharge back home. The HHA agency coordinator reviews the patient's data from the Data Manager as part of the triage process.
While at home, Betsy and her authorized family caregiver access the eLTSS data and assessment data through a patient mobile/web application.
What Went Well

• Patient Centric Solutions’ and MITRE’s client was able to get PACIO and eLTSS data from the Altarum server first time with no prior integration work
  • That is a testament to the interoperability of the eLTSS and PACIO IGs
Challenges

• Assessment data coming from Pseudo-DEL sometimes does not contain LOINC codes for answers
  • Requires an additional mapping step to work with PACIO resources, which require LOINC codes
The PACIO Project is a collaborative effort to advance interoperable health data exchange between post-acute care (PAC) and other providers, patients, and key stakeholders across health care and to promote health data exchange in collaboration with policy makers, standards organizations, and industry through a consensus-based approach.

Learn and share more about the PACIO Project at www.PACIOproject.org