The PACIO SPLASCH subgroup's goal is to profile existing FHIR resources to represent data regarding a patient’s communication, cognition, hearing, and swallowing function to improve transitions of care.
Track Summary

- **Orient** participants to the SPLASCH Implementation Guide (IG), references and profiles.

- **Exchange and query** spoken language comprehension, spoken language expression and swallowing deficit information between disparate health IT (HIT) systems, in a consumable format for clinicians, patients, and family members.

- **Test** the PACIO SPLASCH IG.

- **Identify** IG revisions or clarifications to improve use for implementers.
Participants

18 participants, including American Speech-Language-Hearing Association (ASHA), MaxMD, Interoperability Institute, and MITRE.
Use Case Overview
Data Flow Diagram

Systems - January Connectathon Focus (Scenes 2 and 3)

**Acronyms**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHR</td>
<td>Electronic Health Record</td>
</tr>
<tr>
<td>SNF</td>
<td>Skilled Nursing Facility</td>
</tr>
</tbody>
</table>

**KEY**

Data flow directions:

- Creator
- Retriever
- Receiver
- Custodian
## Systems

Test scripts and results located in ConMan / PACIO  

<table>
<thead>
<tr>
<th>System</th>
<th>Role</th>
<th>Successful Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Data Manager Repository</td>
<td>Receiver / Custodian</td>
<td>Yes</td>
</tr>
<tr>
<td>Hospital EHR Client</td>
<td>Creator / Retriever</td>
<td>Yes</td>
</tr>
<tr>
<td>Skilled Nursing Facility EHR Client</td>
<td>Creator / Retriever</td>
<td>Yes</td>
</tr>
<tr>
<td>Consumer Client</td>
<td>Retriever</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Screenshots

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Notable Achievements

• Exchanged data between 4 systems from 3 developers.

• Successfully demonstrated reading and writing capability to/from a FHIR server using the SPLASCH Implementation Guide

• Implementer demo:
  – MITRE Pseudo EHR created instances of SPLASCH Observation resources, pushed to the open FHIR server
  – MaxMD mobile app queried the open FHIR server, displayed SPLASCH Observation resources, filtered by date and observation type
Discovered Issues/Questions

• Future (after January 2022 Connectathon) IG improvements:
  – Constrain the cardinality of existing data elements:
    • SPLASCH Observation "Performer" should be required (waiver from U.S. Realm)
    • SPLASCH Observation "Method" should be required or must support
  – Define search parameters based on use case
  – Consider grouping multiple observations done in one setting
    • Can be grouped structurally or by the client app
Now What?

• Consider viewing SPLASCH as a healthcare domain that can be leveraged through a common IG structure with other post-acute care domains
  - Similar strategies are being considered for U.S. Core and Gravity projects

• Continue to improve the Inferno Test scripts.

• Continue ongoing conversation with clinicians and other domain experts to ensure all the necessary information is included

• Continue to define ways to exchange clinical information relevant to post-acute care across the continuum of care
Thank you

• We'd love to have you join the SPLASCH effort

• Track leads:
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  – Jamila Harley  jharley@asha.org

• Reach out to join our weekly SPLASCH subgroup meetings