Query patient demographic records by identifier workflow

Overview

Description: This transaction allows patient demographics to be fetched from the Client Registry using an identifier. The following sequence diagram shows the steps involved.

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Status: In Progress

Referenced Standards and APIs:

There are currently two protocols supported for this workflow:

- **Option 1**
  - QBP/Q22 - IHE ITI-21
  - RSP/K22 - IHE ITI-21

- **Option 2**
  - FHIR - Patient Demographics Query IHE ITI PDQm Transaction

Assumptions and prerequisites

- The PoS system is a trusted application known by the HIE and it is registered with the interoperability layer to be able to send and receive data securely (Common message security workflow).

Actors

- PoS - The point of service system that captures patient identifiers, is responsible for sending the identifiers to the HIE.
- IL - Mediates the transactions between the PoS system and the client registry.
- CR - Manages patient demographics and identifier details.

Query Patient Demographic Records by Identifier

![Sequence diagram of the workflow](www.websequencediagrams.com)
<table>
<thead>
<tr>
<th>Ref</th>
<th>Interaction</th>
<th>End point</th>
<th>Description</th>
<th>Transaction Options</th>
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</table>
| 1   | Get patient by identifier    | IL        | The message includes the query criteria, which may include one or more patient identifiers. | 1. PDQ ITI-21 transaction QBP-Q22  
2. Patient Demographics Query IHE ITI PDQm, Transaction |
| 2   | Get patient from CR by identifier | CR        | The message from the PoS is passed directly through to the CR by the IL.      | 1. PDQ ITI-21 transaction QBP-Q22  
2. Patient Demographics Query IHE ITI PDQm, Transaction |
| 3   | Return patient record        | IL        | The response returns the patient(s) that matched the query criteria. It may consist of zero or more patient demographic records. | 1. PDQ ITI-21 transaction RSP-K22  
2. Query Patient Resource Response (ITI TF-2c: 3.Y1.4.2): Bundle (Patient) |
| 4   | Return patient record        | PoS       | The message from the CR is passed directly through to the PoS by the IL.      | 1. PDQ ITI-21 transaction RSP-K22  
2. Query Patient Resource Response (ITI TF-2c: 3.Y1.4.2): Bundle (Patient) |