Query patient demographic records by demographics workflow

Notice
The official version of the OHIE workflows can be found in the OpenHIE Architecture Specification.

Overview
Description: This transaction allows Point-of-Service (PoS) systems to query for patients that match supplied demographics. The following sequence diagram show the steps involved.

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Status: In Progress

Referenced Standards and APIs:

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 care 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.
Technical details

<table>
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<tr>
<th>Ref</th>
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</table>
| 1   | Get patient by demographics     | IL        | The message includes the query criteria which may include one or more patient identifiers and/or one or more demographic attributes. | 1. PDQ ITI-21 transaction QBP-Q22  
2. Patient Demographics Query IHE ITI PDQm Transaction |
| 2   | Get patient from CR by demographics | 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) |