

Health Financing Workflows

- Beneficiary Enrollment
 - Query Beneficiary
 - Check enrollment status
 - Enrol beneficiary
- Claim Submission
 - Check beneficiary validity
 - Check beneficiary balance/treatment options
 - Preauthorization of claim
 - Track status of claim
 - Submit claim
- Indicator Reporting
 - openMIS Indicator Reporting
 - openMIS Patient Level Indicator Reporting
- Other HF Workflows
- Other HIE Workflows



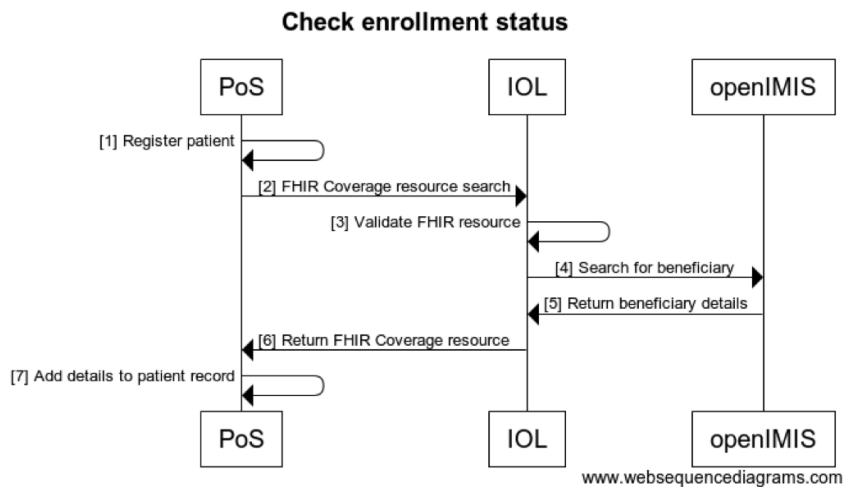
The initial set of draft workflows are FHIR-based workflows leveraging [Health Financing and FHIR](#) workflows and ongoing work on [Integrating health financing into the OpenHIE Landscape](#). The workflows are being documented by the OpenHIE community and will be included in the OpenHIE Specification.

Beneficiary Enrollment

Query Beneficiary

//query for beneficiary - should come close to mirror CR workflow.

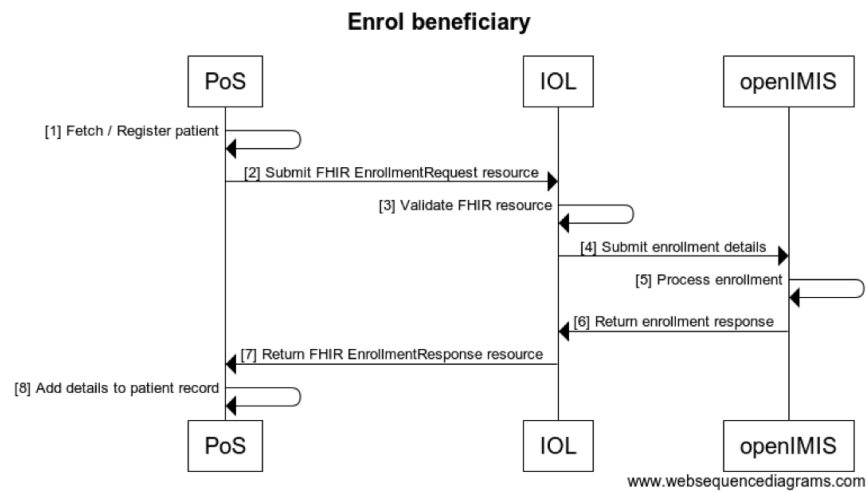
Check enrollment status



title Check enrollment status

```
PoS->>PoS: [1] Register patient
PoS->>IOL: [2] FHIR Coverage resource search
IOL->>IOL: [3] Validate FHIR resource
IOL->>openMIS: [4] Search for beneficiary
openMIS->>IOL: [5] Return beneficiary details
IOL->>PoS: [6] Return FHIR Coverage resource
PoS->>PoS: [7] Add details to patient record
```

Enrol beneficiary

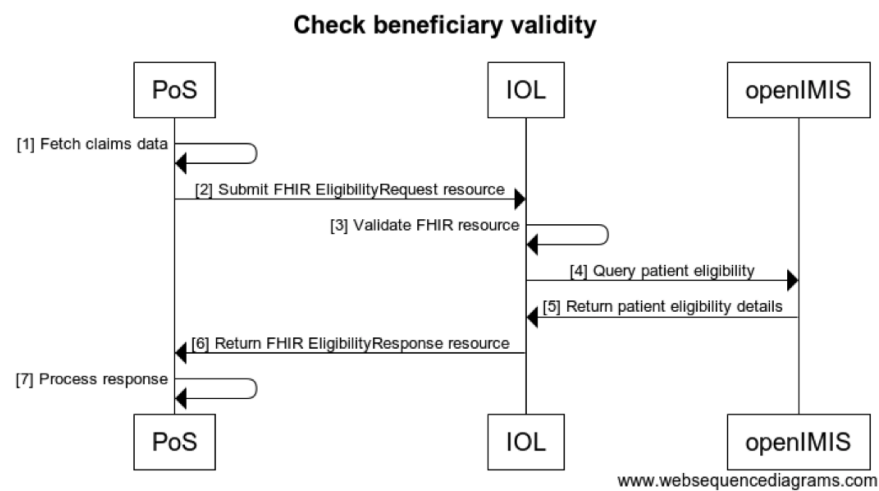


```
title Enrol beneficiary

PoS->>PoS: [1] Fetch / Register patient
PoS->>IOL: [2] Submit FHIR EnrollmentRequest resource
IOL->>IOL: [3] Validate FHIR resource
IOL->>openIMIS: [4] Submit enrollment details
openIMIS->>openIMIS: [5] Process enrollment
openIMIS->>IOL: [6] Return enrollment response
IOL->>PoS: [7] Return FHIR EnrollmentResponse resource
PoS->>PoS: [8] Add details to patient record
```

Claim Submission

Check beneficiary validity



```

title Check beneficiary validity

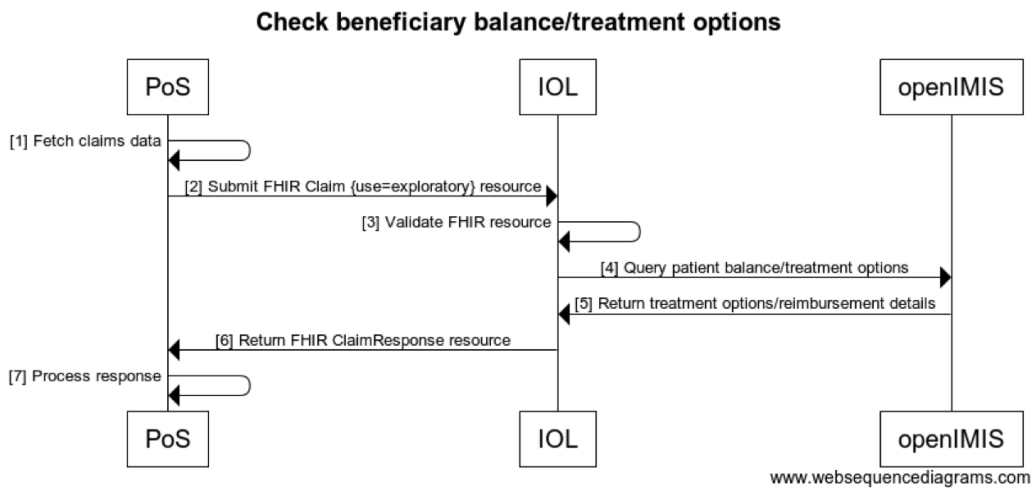
```

```

PoS->PoS: [1] Fetch claims data
PoS->IOL: [2] Submit FHIR EligibilityRequest resource
IOL->IOL: [3] Validate FHIR resource
IOL->openIMIS: [4] Query patient eligibility
openIMIS->IOL: [5] Return patient eligibility details
IOL->PoS: [6] Return FHIR EligibilityResponse resource
PoS->PoS: [7] Process response

```

Check beneficiary balance/treatment options



```

title Check beneficiary balance/treatment options

```

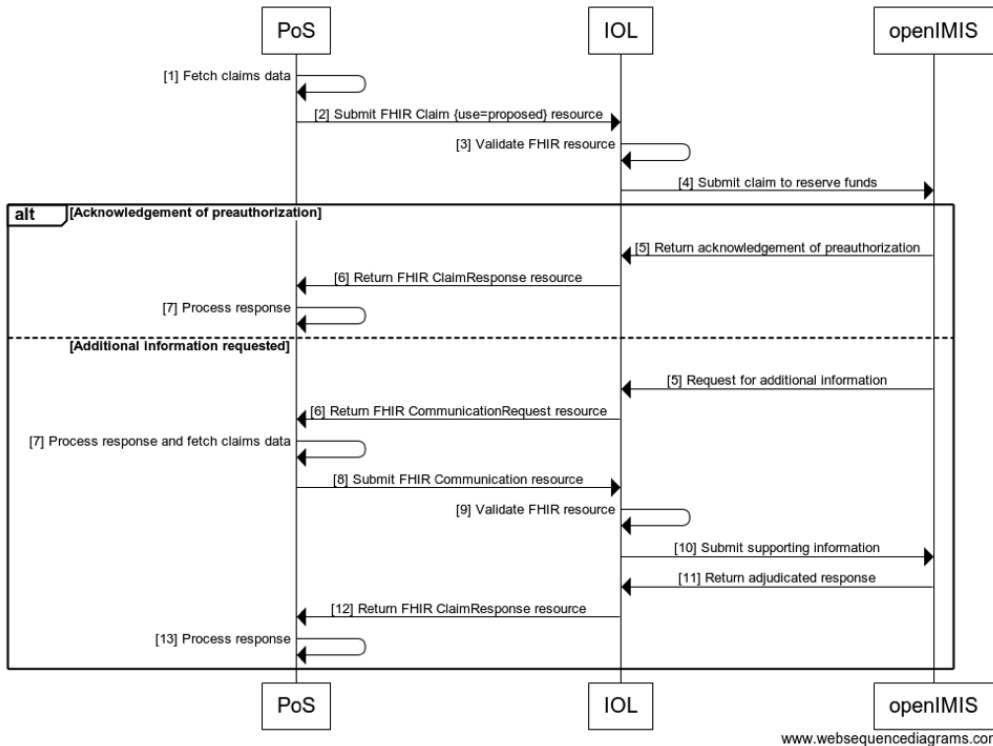
```

PoS->PoS: [1] Fetch claims data
PoS->IOL: [2] Submit FHIR Claim {use=exploratory} resource
IOL->IOL: [3] Validate FHIR resource
IOL->openIMIS: [4] Query patient balance/treatment options
openIMIS->IOL: [5] Return treatment options/reimbursement details
IOL->PoS: [6] Return FHIR ClaimResponse resource
PoS->PoS: [7] Process response

```

Preauthorization of claim

Preauthorization of claim



title Preauthorization of claim

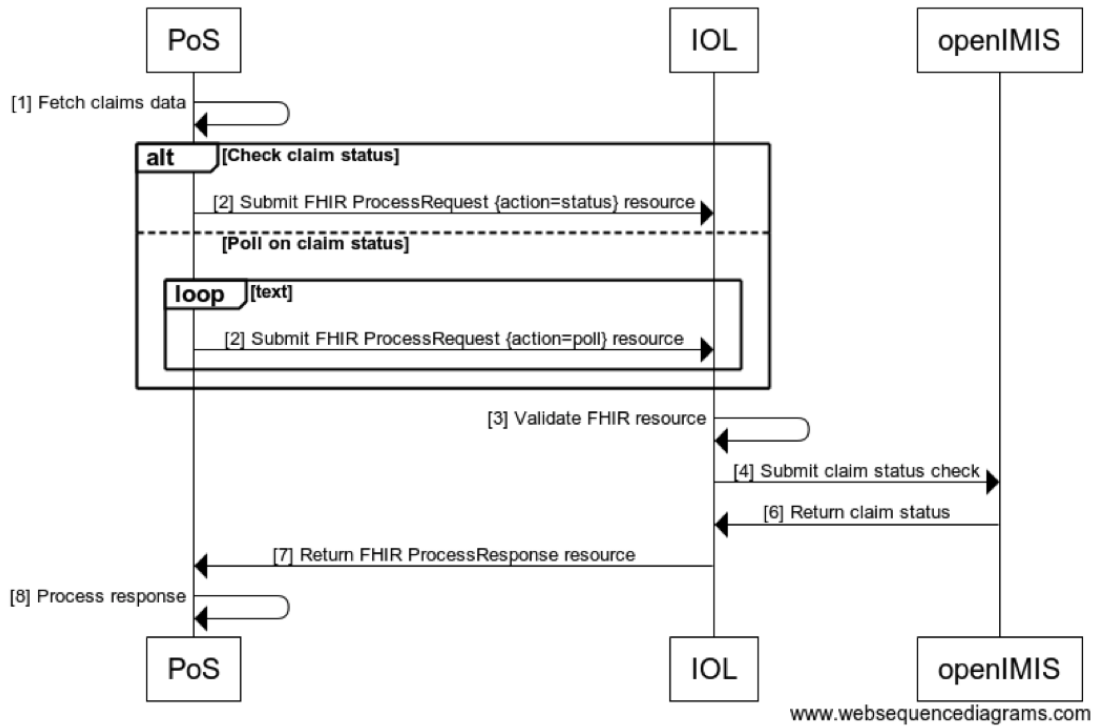
```

PoS->>PoS: [1] Fetch claims data
PoS->>IOL: [2] Submit FHIR Claim {use=proposed} resource
IOL->>IOL: [3] Validate FHIR resource
IOL->>openIMIS: [4] Submit claim to reserve funds
alt Acknowledgement of preauthorization
    openIMIS->>IOL: [5] Return acknowledgement of preauthorization
    IOL->>PoS: [6] Return FHIR ClaimResponse resource
    PoS->>PoS: [7] Process response
else Additional information requested
    openIMIS->>IOL: [5] Request for additional information
    IOL->>PoS: [6] Return FHIR CommunicationRequest resource
    PoS->>PoS: [7] Process response and fetch claims data
    PoS->>IOL: [8] Submit FHIR Communication resource
    IOL->>IOL: [9] Validate FHIR resource
    IOL->>openIMIS: [10] Submit supporting information
    openIMIS->>IOL: [11] Return adjudicated response
    IOL->>PoS: [12] Return FHIR ClaimResponse resource
    PoS->>PoS: [13] Process response
end
  
```

end

Track status of claim

Track status of claim



title Track status of claim

PoS->PoS: [1] Fetch claims data

alt Check claim status

PoS->IOL: [2] Submit FHIR ProcessRequest {action=status} resource

else Poll on claim status

loop text

PoS->IOL: [2] Submit FHIR ProcessRequest {action=poll} resource

end

end

IOL->IOL: [3] Validate FHIR resource

IOL->openIMIS: [4] Submit claim status check

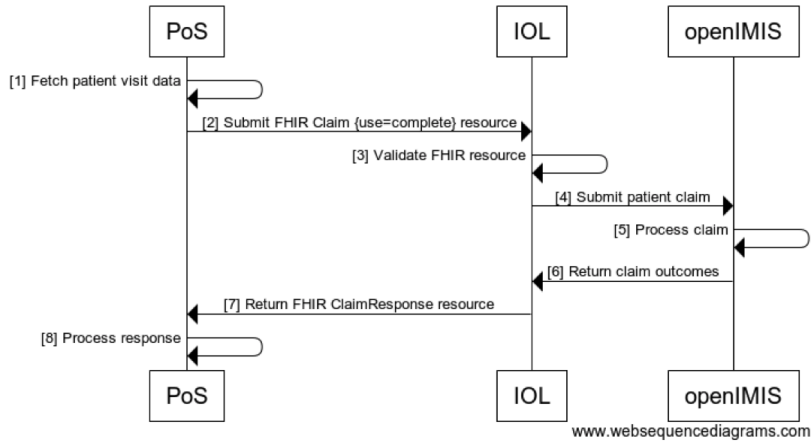
openIMIS->IOL: [6] Return claim status

IOL->PoS: [7] Return FHIR ProcessResponse resource

PoS->PoS: [8] Process response

Submit claim

Submit claim



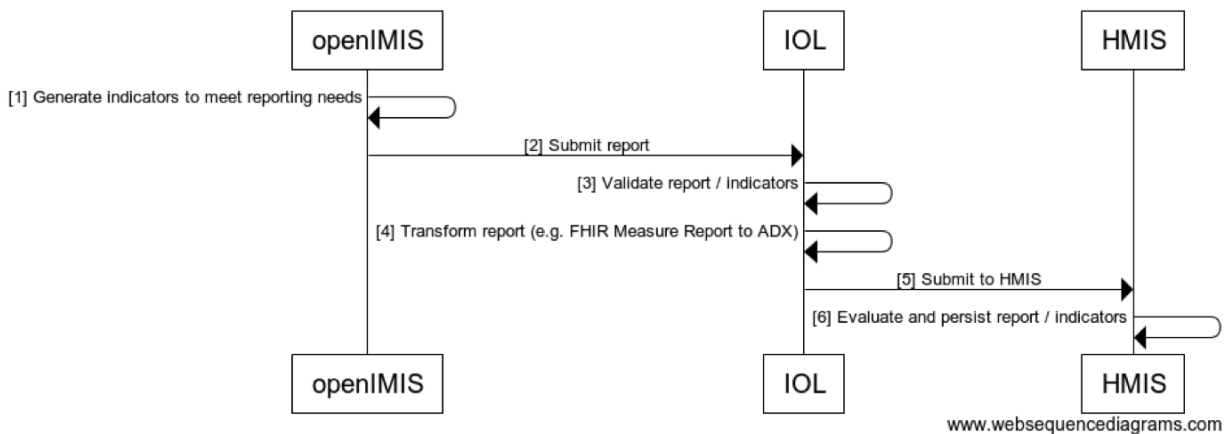
title Submit claim

PoS->PoS: [1] Fetch patient visit data
 PoS->IOL: [2] Submit FHIR Claim {use=complete} resource
 IOL->IOL: [3] Validate FHIR resource
 IOL->openIMIS: [4] Submit patient claim
 openIMIS->openIMIS: [5] Process claim
 openIMIS->IOL: [6] Return claim outcomes
 IOL->PoS: [7] Return FHIR ClaimResponse resource
 PoS->PoS: [8] Process response

Indicator Reporting

openIMIS Indicator Reporting

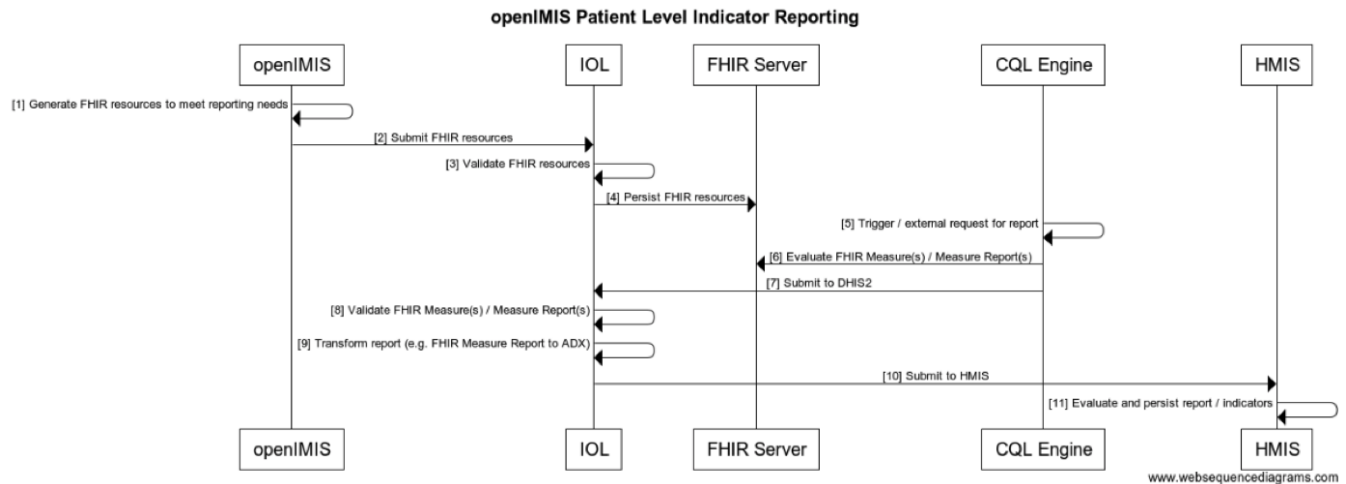
openIMIS Indicator Reporting



title openIMIS Indicator Reporting

openIMIS->openIMIS: [1] Generate indicators to meet reporting needs
 openIMIS->IOL: [2] Submit report
 IOL->IOL: [3] Validate report / indicators
 IOL->IOL: [4] Transform report (e.g. FHIR Measure Report to ADX)
 IOL->HMIS: [5] Submit to HMIS
 HMIS->HMIS: [6] Evaluate and persist report / indicators

openIMIS Patient Level Indicator Reporting



title openIMIS Patient Level Indicator Reporting

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openIMIS->>openIMIS: [1] Generate FHIR resources to meet reporting needs
openIMIS->>IOL: [2] Submit FHIR resources
IOL->>IOL: [3] Validate FHIR resources
IOL->>FHIR Server: [4] Persist FHIR resources
CQL Engine->>CQL Engine: [5] Trigger / external request for report
CQL Engine->>FHIR Server: [6] Evaluate FHIR Measure(s) / Measure Report(s)
CQL Engine->>IOL: [7] Submit to DHIS2
IOL->>IOL: [8] Validate FHIR Measure(s) / Measure Report(s)
IOL->>IOL: [9] Transform report (e.g. FHIR Measure Report to ADX)
IOL->>HMIS: [10] Submit to HMIS
HMIS->>HMIS: [11] Evaluate and persist report / indicators
    
```

Other HF Workflows

- Policy lookup and query – know who is associated to which policy | Stems from a use case in India where 1 family gets a single card / policy number and all members are associated to that policy.

Other HIE Workflows

- 'Patient leaves treatment setting' workflows
 - Explanation of benefit and payment reconciliation
- Client Registry (CR) interactions
 - Beneficiary enrolment
 - Beneficiary verification
- Terminology Services (TS) and Product Registry (PR)
 - Terminology and product code sync
- ...