

Resource Bundle (API Specification)

Patient

Patient APIs enable user to fetch basic demographics and other administrative information about an individual patient.

Patient.read

Http Method:	GET
Url Template:	[baseUrl]/Patients/{ID}

Patient.search

Http Method:	GET
Url Template:	[baseUrl]/Patient?_id={id}&identifier={identifier}&name={name}&birthdate={birthdate}&family={family}&gender={gender}

Conformance	Parameter (Combination)	Type	URL
SHALL	_id	token	[baseUrl]/Patient?_id={id}
SHALL	identifier	token	[baseUrl]/Patient?identifier={identifier}
SHALL	name	string	[baseUrl]/Patient?name={name}
SHALL	birthdate+name	date+string	[baseUrl]/Patient?name={name}&birthdate={birthdate}
SHALL	gender+name	token+string	[baseUrl]/Patient?name={name}&gender={gender}
SHOULD	family+gender	string+token	[baseUrl]/Patient?family={family}&gender={gender}
SHOULD	birthdate+family	date+string	[baseUrl]/Patient?family={family}&birthdate={birthdate}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Patient?_id=160595



Response

```
{
  "resourceType": "Bundle",
  "id": "35fc2d45-7fcb-4e1b-b7ec-88f3d43d3777",
  "meta": {
    "lastUpdated": "2022-09-17T08:59:12.482+00:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//Patient?_id=160595"
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//Patient/160595",
      "resource": {
        "resourceType": "Patient",
        "id": "160595",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:56:26+00:00",
          "source": "#iLFSV7OLv0KF8dmQ",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
patient"
          ]
        },
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Generated
by <a
href=\"https://github.com/synthetichealth/synthea\">Synthea</a>.Version
identifier: v2.6.1-3-g50f4f58f\n .   Person seed: 4286870567281389426
Population seed: 3</div>"
        },
        "extension": [
          {
            "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-race",
            "extension": [
              {
                "url": "ombCategory",
                "valueCoding": {
                  "system": "urn:oid:2.16.840.1.113883.6.238",
                  "code": "2028-9",
                  "display": "Asian"
                }
              }
            ],
            {
              "url": "text",
              "valueString": "Asian"
            }
          ]
        }
      }
    }
  ]
}
```



```
    }
  ]
},
{
  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-ethnicity",
  "extension": [
    {
      "url": "ombCategory",
      "valueCoding": {
        "system": "urn:oid:2.16.840.1.113883.6.238",
        "code": "2135-2",
        "display": "Hispanic Or Latino"
      }
    },
    {
      "url": "text",
      "valueString": "Hispanic Or Latino"
    }
  ]
},
{
  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-birthsex",
  "valueCode": "M"
},
{
  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-sex",
  "valueCode": "248153007"
},
{
  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-tribal-affiliation",
  "extension": [
    {
      "url": "tribalAffiliation",
      "valueCodeableConcept": {
        "coding": [
          {
            "system":
"http://terminology.hl7.org/CodeSystem/v3-TribalEntityUS",
            "code": "338",
            "display": "Native Village of Afognak"
          }
        ]
      }
    }
  ]
},
{
  "url": "http://hl7.org/fhir/StructureDefinition/patient-
mothersMaidenName",
  "valueString": "Test"
},
{
```



```

    "url": "http://hl7.org/fhir/StructureDefinition/patient-
    birthPlace",
    "valueAddress": {
      "city": "Springfield",
      "state": "Massachusetts",
      "country": "US"
    }
  ],
  "identifier": [
    {
      "system": "https://github.com/synthetichealth/synthea",
      "value": "e91975f5-9445-c11f-cabf-c3c6dae161f2"
    },
    {
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/v2-
0203",
            "code": "MR",
            "display": "Medical Record Number"
          }
        ],
        "text": "Medical Record Number"
      },
      "system": "http://hospital.smarthealthit.org",
      "value": "e91975f5-9445-c11f-cabf-c3c6dae161f2"
    },
    {
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/v2-
0203",
            "code": "SS",
            "display": "Social Security Number"
          }
        ],
        "text": "Social Security Number"
      },
      "system": "http://hl7.org/fhir/sid/us-ssn",
      "value": "434-35-5446"
    },
    {
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/v2-
0203",
            "code": "DL",
            "display": "Driver's License"
          }
        ],
        "text": "Driver's License"
      },
      "system": "urn:oid:2.16.840.1.113883.4.3.25",

```



```
        "value": "S99940283"
      }
    ],
    "name": [
      {
        "use": "official",
        "family": "Tesla",
        "given": [
          "Barry"
        ],
        "suffix": [
          "Jr"
        ],
        "period": {
          "start": "2022-01-02"
        }
      },
      {
        "use": "old",
        "family": "Tesla",
        "given": [
          "Jake"
        ],
        "period": {
          "start": "1998-10-10",
          "end": "2022-01-02"
        }
      }
    ],
    "telecom": [
      {
        "system": "phone",
        "value": "555-770-2787",
        "use": "home"
      }
    ],
    "gender": "male",
    "birthDate": "1998-10-10",
    "deceasedDateTime": "2022-10-04",
    "address": [
      {
        "extension": [
          {
            "url":
"http://hl7.org/fhir/StructureDefinition/geolocation",
            "extension": [
              {
                "url": "latitude",
                "valueDecimal": 42.1343534042923
              },
              {
                "url": "longitude",
                "valueDecimal": -72.67217549422628
              }
            ]
          }
        ]
      }
    ],
  ],
```



```

        "line": [
            "599 Schowalter Promenade"
        ],
        "city": "West Springfield",
        "state": "MA",
        "postalCode": "01089",
        "country": "US",
        "period": {
            "start": "1998-10-10",
            "end": "2024-08-28"
        }
    },
    ],
    "maritalStatus": {
        "coding": [
            {
                "system": "http://terminology.hl7.org/CodeSystem/v3-
MaritalStatus",
                "code": "Married",
                "display": "Married"
            }
        ],
        "text": "Married"
    },
    "multipleBirthBoolean": false,
    "communication": [
        {
            "language": {
                "coding": [
                    {
                        "system": "urn:ietf:bcp:47",
                        "code": "en-US",
                        "display": "English"
                    }
                ],
                "text": "English"
            }
        }
    ]
    ],
    "search": {
        "mode": "match"
    }
}
    ]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
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400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

AllergyIntolerance

AllergyIntolerance APIs enable users to search and fetch allergies/adverse reactions associated with a patient.

AllergyIntolerance.read



Http Method:	GET
Url Template:	[baseUrl]/AllergyIntolerance/{ID}

AllergyIntolerance.search

Http Method:	GET
Url Template:	[baseUrl]/AllergyIntolerance?patient={patient}&clinical-status={clinical-status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/AllergyIntolerance?patient={patient}
SHALL	patient+clinical-status	reference+token	[baseUrl]/AllergyIntolerance?patient={patient}&clinical-status={clinical-status}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/AllergyIntolerance?patient=160595

Response

```
{
  "resourceType": "Bundle",
  "id": "a6ed06d9-ec7d-45fa-86ae-2dddb3b755fe",
  "meta": {
    "lastUpdated": "2026-01-27T08:56:32+00:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//AllergyIntolerance?patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/AllergyIntolerance/577187",
```



```
"resource": {
  "resourceType": "AllergyIntolerance",
  "id": "577187",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2026-01-27T08:56:32+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-allergyintolerance"
    ]
  },
  "clinicalStatus": {
    "coding": [
      {
        "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical",
        "code": "active"
      }
    ]
  },
  "verificationStatus": {
    "coding": [
      {
        "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",
        "code": "confirmed"
      }
    ]
  },
  "type": "allergy",
  "category": [
    "food"
  ],
  "criticality": "low",
  "code": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "412338005",
        "display": "Yellow Jacket Venom Protein"
      }
    ]
  },
  "text": "Yellow Jacket Venom Protein"
},
"patient": {
  "reference": "Patient/160595"
},
"recordedDate": "2022-10-04T10:23:16+00:00",
"reaction": [
  {
    "manifestation": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
```



```

        "code": "156592007",
        "display": "Arthralgia"
      }
    ],
    "text": "Arthralgia"
  }
]
},
"search": {
  "mode": "match"
}
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
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408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

CarePlan

CarePlan APIs enable users to search, and fetch assessment and plan of treatment data associated with a patient.

CarePlan.read

Http Method:	GET
Url Template:	[baseUrl]/CarePlan/{ID}

CarePlan.search

Http Method:	GET
Url Template:	[baseUrl]/CarePlan?patient={patient}&category={category}&status={status}&date={date}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient+category	reference +token	[baseUrl]/CarePlan?patient={patient}&category={category}
SHALL	patient+category +status+date	reference +token+token+date	[baseUrl]/CarePlan?patient={patient}&category={category}&status={status}&date={date}
SHOULD	patient+category +status	reference +token+token	[baseUrl]/CarePlan?patient={patient}&category={category}&status={status}
SHOULD	patient+category +date	reference +token+date	[baseUrl]/CarePlan?patient={patient}&category={category}&date={date}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/CarePlan?category=assess-plan&patient=160595

Response

```
{
  "resourceType": "Bundle",
  "id": "589e9683-fba8-4e7b-b421-8e103f2ecbc0",
}
```

```

"meta": {
  "lastUpdated": "2026-01-27T08:56:38+00:00"
},
"type": "searchset",
"total": 1,
"link": [
  {
    "relation": "self",
    "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//CarePlan?category=assess-
plan&patient=160595"
  }
],
"entry": [
  {
    "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/CarePlan/1836",
    "resource": {
      "resourceType": "CarePlan",
      "id": "1836",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2026-01-27T08:56:38+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-
core-careplan"
        ]
      },
      "text": {
        "status": "generated",
        "div": "\u003Cdiv
xmlns=\\"http://www.w3.org/1999/xhtml\\" \u003ECare Plan for Abdominal testis,
unilateral.\u003Cbr/\u003EActivities: \u003Cul\u003E\u003Cli\u003EEExercise
therapy\u003C/li\u003E\u003Cul\u003E\u003Cdiv\u003E"
      },
      "status": "unknown",
      "intent": "proposal",
      "category": [
        {
          "coding": [
            {
              "system":
"http://hl7.org/fhir/us/core/CodeSystem/careplan-category",
              "code": "assess-plan"
            }
          ]
        }
      ],
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "3481003",
            "display": "Abdominal testis, unilateral"
          }
        ]
      },
    ]
  }
]

```

```

        "text": "Abdominal testis, unilateral"
      },
      ],
      "subject": {
        "reference": "Patient/160595"
      },
      "encounter": {
        "reference": "Encounter/145"
      },
      "period": {
        "start": "2022-10-09T00:00:00+00:00"
      },
      "addresses": [
        {
          "reference": "Condition/146"
        }
      ],
      "activity": [
        {
          "detail": {
            "code": {
              "coding": [
                {
                  "system": "http://snomed.info/sct",
                  "code": "229065009",
                  "display": "Exercise therapy"
                }
              ],
              "text": "Exercise therapy"
            },
            "status": "unknown",
            "location": {
              "reference": "Location/2506",
              "display": "Facility Test"
            }
          }
        }
      ],
      "careTeam": [
        {
          "reference": "CareTeam/1"
        }
      ]
    }
  ]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -



Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

CareTeam

CareTeam APIs enable users to search for identifying the Care Team members associated with a patient.

CareTeam.read

Http Method:	GET
Url Template:	[baseUrl]/CareTeam/{ID}



CareTeam.search

Http Method:	GET
Url Template:	[baseUrl]/CareTeam?patient={patient}&status={status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient+status	reference +token	[baseUrl]/CareTeam?patient={patient}&status={status}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/CareTeam?patient=160595&status=proposed

Response

```
{
  "resourceType": "Bundle",
  "id": "93659148-aa65-4616-8b6e-87acfa913da2",
  "meta": {
    "lastUpdated": "2026-01-27T08:56:43+00:00"
  },
  "type": "searchset",
  "total": 0,
  "link": [
    {
      "relation": "self",
      "url":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir/CareTeam?patient=160595&status=proposed"
    }
  ]
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token



403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Condition

Condition APIs enable users to search and fetch a list of conditions associated with a patient.

Condition.read

Http Method:	GET
---------------------	-----



Url Template:	[baseUrl]/Condition/{ID}
----------------------	--------------------------

Condition.search

Http Method:	GET
Url Template:	[baseUrl]/Condition?patient={patient}&code={code}&onset-date={onset-date}&clinical-status={clinical-status}&category={category}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/Condition?patient={patient}
SHOULD	patient+code	reference +token	[baseUrl]/Condition?patient={patient}&code={code}
SHOULD	patient+onset-date	reference +date	[baseUrl]/Condition?patient={patient}&onset-date={onset-date}
SHOULD	patient+clinical-status	reference +token	[baseUrl]/Condition?patient={patient}&clinical-status={clinical-status}
SHOULD	patient+category	reference +token	[baseUrl]/Condition?patient={patient}&category={category}

Supported API: QSmartCare APIs are supporting following categories for Condition

Category	Description
problem-list-item	An item on a problem list that can be managed over time and can be expressed by a practitioner (e.g. physician, nurse), patient, or related person.
health-concern	Additional health concerns from other stakeholders which are outside the provider's problem list.
encounter-diagnosis	A point in time diagnosis (e.g. from a physician or nurse) in context of an encounter.

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Condition?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "6fff803b-0aae-4235-8b9c-930f6f7509b0",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:01+00:00"
  },
  "type": "searchset",
  "total": "6",
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition?category=encounter-
diagnosis&patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/18025",
      "resource": {
        "resourceType": "Condition",
        "id": "18025",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:01+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
          ]
        },
        "clinicalStatus": {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
              "code": "resolved",
              "display": "Resolved"
            }
          ]
        },
        "verificationStatus": {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
              "code": "confirmed",
              "display": "Confirmed"
            }
          ]
        },
        "text": "Confirmed"
      },
      "category": [
        {
          "coding": [
            {

```

```

        "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
        "code": "encounter-diagnosis",
        "display": "Encounter Diagnosis"
    }
  ],
  "text": "Encounter Diagnosis"
}
],
"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "00489",
      "display": "(Induced) termination of pregnancy with other
complications"
    }
  ],
  "text": "(Induced) termination of pregnancy with other complications"
},
"subject": {
  "reference": "Patient/160595"
},
"encounter": {
  "reference": "Encounter/1359898"
},
"onsetDateTime": "2025-12-24T06:21:29+00:00",
"recordedDate": "2025-12-24T06:21:29+00:00",
"recorder": {
  "reference": "Patient/160595"
},
"abatementDateTime": "2025-12-24T06:21:29+00:00"
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/29519",
  "resource": {
    "resourceType": "Condition",
    "id": "29519",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:01+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
      ]
    },
    "clinicalStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
          "code": "resolved",

```

```

        "display": "Resolved"
    }
]
},
"verificationStatus": {
    "coding": [
        {
            "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
            "code": "confirmed",
            "display": "Confirmed"
        }
    ],
    "text": "Confirmed"
},
"category": [
    {
        "coding": [
            {
                "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
                "code": "encounter-diagnosis",
                "display": "Encounter Diagnosis"
            }
        ],
        "text": "Encounter Diagnosis"
    }
],
"code": {
    "coding": [
        {
            "system": "http://snomed.info/sct",
            "code": "S42222A",
            "display": "2-part displaced fracture of surgical neck of left
humerus, initial encounter for closed fracture"
        }
    ],
    "text": "2-part displaced fracture of surgical neck of left humerus,
initial encounter for closed fracture"
},
"subject": {
    "reference": "Patient/160595"
},
"encounter": {
    "reference": "Encounter/1359898"
},
"onsetDateTime": "2025-12-24T06:21:33+00:00",
"recordedDate": "2025-12-24T06:21:33+00:00",
"recorder": {
    "reference": "Patient/160595"
},
"abatementDateTime": "2025-12-24T06:21:33+00:00"
},
"search": {
    "mode": "match"
}

```



```
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/29520",
  "resource": {
    "resourceType": "Condition",
    "id": "29520",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:01+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
      ]
    },
    "clinicalStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
          "code": "resolved",
          "display": "Resolved"
        }
      ]
    },
    "verificationStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
          "code": "confirmed",
          "display": "Confirmed"
        }
      ],
      "text": "Confirmed"
    },
    "category": [
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
            "code": "encounter-diagnosis",
            "display": "Encounter Diagnosis"
          }
        ],
        "text": "Encounter Diagnosis"
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "S42222B",
          "display": "2-part displaced fracture of surgical neck of left
humerus, initial encounter for open fracture"
        }
      ]
    }
  }
}
```



```
    },
    ],
    "text": "2-part displaced fracture of surgical neck of left humerus,
initial encounter for open fracture"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "encounter": {
    "reference": "Encounter/1359898"
  },
  "onsetDateTime": "2025-12-24T06:21:36+00:00",
  "recordedDate": "2025-12-24T06:21:36+00:00",
  "recorder": {
    "reference": "Patient/160595"
  },
  "abatementDateTime": "2025-12-24T06:21:36+00:00"
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/29525",
  "resource": {
    "resourceType": "Condition",
    "id": "29525",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:01+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
      ]
    },
    "clinicalStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
          "code": "resolved",
          "display": "Resolved"
        }
      ]
    },
    "verificationStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
          "code": "confirmed",
          "display": "Confirmed"
        }
      ]
    },
    "text": "Confirmed"
  },
}
```



```
"category": [
  {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
        "code": "encounter-diagnosis",
        "display": "Encounter Diagnosis"
      }
    ],
    "text": "Encounter Diagnosis"
  }
],
"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "S42222S",
      "display": "2-part displaced fracture of surgical neck of left
humerus, sequela"
    }
  ],
  "text": "2-part displaced fracture of surgical neck of left humerus,
sequela"
},
"subject": {
  "reference": "Patient/160595"
},
"encounter": {
  "reference": "Encounter/1359898"
},
"onsetDateTime": "2025-12-24T06:21:39+00:00",
"recordedDate": "2025-12-24T06:21:39+00:00",
"recorder": {
  "reference": "Patient/160595"
},
"abatementDateTime": "2025-12-24T06:21:39+00:00"
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/8209",
  "resource": {
    "resourceType": "Condition",
    "id": "8209",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:01+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
      ]
    },
    "clinicalStatus": {
```



```
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
        "code": "resolved",
        "display": "Resolved"
      }
    ],
    "verificationStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
          "code": "confirmed",
          "display": "Confirmed"
        }
      ],
      "text": "Confirmed"
    },
    "category": [
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
            "code": "encounter-diagnosis",
            "display": "Encounter Diagnosis"
          }
        ],
        "text": "Encounter Diagnosis"
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "I4901",
          "display": "Ventricular fibrillation"
        }
      ],
      "text": "Ventricular fibrillation"
    },
    "subject": {
      "reference": "Patient/160595"
    },
    "encounter": {
      "reference": "Encounter/1359898"
    },
    "onsetDateTime": "2025-12-31T13:30:52+00:00",
    "recordedDate": "2025-12-31T13:30:52+00:00",
    "recorder": {
      "reference": "Patient/160595"
    },
    "abatementDateTime": "2025-12-31T13:30:52+00:00"
```

```
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Condition/21335",
    "resource": {
      "resourceType": "Condition",
      "id": "21335",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2026-01-27T08:57:01+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition"
        ]
      },
      "clinicalStatus": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/condition-
clinical",
            "code": "resolved",
            "display": "Resolved"
          }
        ]
      },
      "verificationStatus": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/condition-ver-
status",
            "code": "confirmed",
            "display": "Confirmed"
          }
        ],
        "text": "Confirmed"
      },
      "category": [
        {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/condition-
category",
              "code": "encounter-diagnosis",
              "display": "Encounter Diagnosis"
            }
          ],
          "text": "Encounter Diagnosis"
        }
      ],
      "code": {
        "coding": [
          {
            "system": "http://snomed.info/sct",
```



```

        "code": "R001",
        "display": "Bradycardia, unspecified"
      },
    ],
    "text": "Bradycardia, unspecified"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "encounter": {
    "reference": "Encounter/1359898"
  },
  "onsetDateTime": "2025-12-31T13:31:17+00:00",
  "recordedDate": "2025-12-31T13:31:17+00:00",
  "recorder": {
    "reference": "Patient/160595"
  },
  "abatementDateTime": "2025-12-31T13:31:17+00:00"
},
"search": {
  "mode": "match"
}
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



Implantable Device

Device APIs enable users to search and fetch UDI information associated with a patient's implantable device(s).

Device.read

Http Method:	GET
Url Template:	[baseUrl]/Device/{ID}

Device.search

Http Method:	GET
Url Template:	[baseUrl]/Device?patient={patient}&type={type}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/Device?patient={patient}
SHOULD	patient+type	reference +token	[baseUrl]/Device?patient={patient} &type={type}



Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Device?patient=160595

Response

```
{
  "resourceType": "Bundle",
  "id": "370b3b9f-a400-423f-bbb3-027392617181",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:18+00:00"
  },
  "type": "searchset",
  "total": "2",
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/Device?patient=Patient/160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Device/18",
      "resource": {
        "resourceType": "Device",
        "id": "18",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:18+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-implantable-device"
          ]
        },
        "udiCarrier": [
          {
            "deviceIdentifier": "2566100400",
            "carrierHRF": "00842566100400"
          }
        ],
        "status": "active",
        "distinctIdentifier": "2566100400",
        "manufactureDate": "2022-10-10T00:00:00+00:00",
        "expirationDate": "2023-01-01T00:00:00+00:00",
        "lotNumber": "23423423",
        "serialNumber": "23423423",
        "deviceName": [
          {
            "name": "Intervertebral Fusion Device With Integrated Fixation, Cervical, Intervertebral Fusion Device With Bone Graft, Cervical",
            "type": "user-friendly-name"
          }
        ]
      }
    }
  ],
}
```



```
"type": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "72506001",
      "display": "Intervertebral Fusion Device With Integrated Fixation,
Cervical, Intervertebral Fusion Device With Bone Graft, Cervical"
    }
  ],
  "text": "Intervertebral Fusion Device With Integrated Fixation,
Cervical, Intervertebral Fusion Device With Bone Graft, Cervical"
},
"patient": {
  "reference": "Patient/160595"
}
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Device/19",
  "resource": {
    "resourceType": "Device",
    "id": "19",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:18+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
implantable-device"
      ]
    },
    "udiCarrier": [
      {
        "deviceIdentifier": "00643169007222",
        "carrierHRF": "(01)00643169007222(17)160128(21)BLC200461H"
      }
    ],
    "status": "active",
    "distinctIdentifier": "00643169007222",
    "manufactureDate": "2015-12-01T00:00:00+00:00",
    "expirationDate": "2016-01-28T00:00:00+00:00",
    "lotNumber": "98798797",
    "serialNumber": "98798797",
    "deviceName": [
      {
        "name": "Defibrillator, automatic implantable cardioverter, with
cardiac resynchronization (CRT-D), Programmer, pacemaker",
        "type": "user-friendly-name"
      }
    ],
    "type": {
      "coding": [
        {
```



```
        "system": "http://snomed.info/sct",
        "code": "72506001",
        "display": "Defibrillator, automatic implantable cardioverter,
with cardiac resynchronization (CRT-D), Programmer, pacemaker"
    },
    ],
    "text": "Defibrillator, automatic implantable cardioverter, with
cardiac resynchronization (CRT-D), Programmer, pacemaker"
  },
  "patient": {
    "reference": "Patient/160595"
  }
},
"search": {
  "mode": "match"
}
}
]
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



DiagnosticReport

DiagnosticReport APIs enable users to search and fetch laboratory results and notes associated with a patient.

DiagnosticReport.read

Http Method:	GET
Url Template:	[baseUrl]/DiagnosticReport/{ID}

DiagnosticReport.search

Http Method:	GET
Url Template:	[baseUrl]/DiagnosticReport?patient={patient}&category={category}&date={date}&code={code}&status={status}



Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/DiagnosticReport?patient={patient}
SHALL	patient+category	reference+token	[baseUrl]/DiagnosticReport?patient={patient}&category={category}
SHALL	patient+category+date	reference+token+date	[baseUrl]/DiagnosticReport?patient={patient}&category={category}&date={date}
SHALL	patient+code	reference+token	[baseUrl]/DiagnosticReport?patient={patient}&code={code}
SHOULD	patient+category+date	reference+token+date	[baseUrl]/DiagnosticReport?patient={patient}&code={code}&date={date}
SHOULD	patient+status	reference+token	[baseUrl]/DiagnosticReport?patient={patient}&status={status}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrIjoimSIsImoiOilxliwiYiI6IjE2MDU5NSJ9/fhir/DiagnosticReport?category=LP29684-5&patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "6fff803b-0aae-4235-8b9c-930f6f7509b0",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:20+00:00"
  },
  "type": "searchset",
  "total": "1",
  "link": [
    {
      "relation": "self",
      "url":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir/DiagnosticReport?category=LP29684-5&patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir/DiagnosticReport/1359898",
      "resource": {
        "resourceType": "DiagnosticReport",
```



```
"id": "1359898",
"meta": {
  "versionId": "1",
  "lastUpdated": "2026-01-27T08:57:20+00:00",
  "profile": [
    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-diagnosticreport-note"
  ]
},
"status": "final",
"category": [
  {
    "coding": [
      {
        "system": "http://loinc.org",
        "code": "LP29684-5",
        "display": "Radiology"
      }
    ],
    "text": "Radiology"
  }
],
"code": {
  "coding": [
    {
      "system": "http://loinc.org",
      "code": "28570-0",
      "display": "Procedure note"
    }
  ],
  "text": "Procedure note"
},
"subject": {
  "reference": "Patient/160595"
},
"encounter": {
  "reference": "Encounter/1359898"
},
"effectiveDateTime": "2022-11-01T12:15:54+00:00",
"issued": "2022-10-07T11:33:40+00:00",
"performer": [
  {
    "reference": "Practitioner/290",
    "display": "Poovarasan D111"
  }
],
"result": [
  {
    "reference": "Observation/160595"
  }
],
"presentedForm": [
  {
    "contentType": "text/plain",
    "data": "VGZzdCA="
  }
]
```



```
    }  
  ],  
  "search": {  
    "mode": "match"  
  }  
}  
]  
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



DocumentReference

DocumentReference APIs enable users for searching and fetching patient documents including Clinical Notes.

DocumentReference.read

Http Method:	GET
Url Template:	[baseUrl]/DocumentReference/{ID}

DocumentReference.search

Http Method:	GET
Url Template:	[baseUrl]/DocumentReference?_id={id} &patient={patient}&status={status}&category={category}&date={date}&type={type}&period={date}

Conformance	Parameter (Combination)	Type	URL
SHALL	_id	token	[baseUrl]/DocumentReference?_id={id}
SHALL	patient	reference	[baseUrl]/DocumentReference?patient={patient}
SHALL	patient+category	reference+token	[baseUrl]/DocumentReference?patient={patient}&category={category}
SHALL	patient+category+date	reference+token+date	[baseUrl]/DocumentReference?patient={patient}&category={category}&date={date}
SHALL	patient+type	reference+token	[baseUrl]/DocumentReference?patient={patient}&type={type}
SHOULD	patient+type+period	reference+token+date	[baseUrl]/DocumentReference?patient={patient}&type={type}&period={period}
SHOULD	patient+status	reference+token	[baseUrl]/DocumentReference?patient={patient}&status={status}



Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/
DocumentReference?patient=160595

Response

```
{
  "resourceType": "Bundle",
  "id": "6fff803b-0aae-4235-8b9c-930f6f7509b0",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:39+00:00"
  },
  "type": "searchset",
  "total": "8",
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference?patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
      "resource": {
        "resourceType": "DocumentReference",
        "id": "1359898",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:39+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
          ]
        },
        "identifier": [
          {
            "system": "urn:ietf:rhc:3986",
            "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
          }
        ],
        "status": "superseded",
        "type": {
          "coding": [
            {
              "system": "http://loinc.org",
              "code": "28570-0",
              "display": "Procedure note"
            }
          ]
        },
        "text": "Procedure note"
      }
    }
  ]
}
```

```

    },
    "category": [
      {
        "coding": [
          {
            "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
            "code": "clinical-note",
            "display": "Clinical Note"
          }
        ]
      }
    ],
    "subject": {
      "reference": "Patient/160595"
    },
    "date": "2022-10-07T00:00:00+00:00",
    "author": [
      {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    ],
    "custodian": {
      "reference": "Organization/2506",
      "display": "Facility Test"
    },
    "content": [
      {
        "attachment": {
          "contentType": "text/plain",
          "data":
"MTk0MC0wOS0wNQoKIyBDaGllZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29
uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG0tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbcBEaXNjaGFyZ2U
KLSBDb3VnaAoKIyBiaXN0b3J5IG9mIFByZXN1bnQgSWxsbnVzcwpedXN0aW4zM5BpcyBhIG5ld2Jvc4
gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbG1jLgoKUGF0awVudCBjb211cyBmcm9tIGEGbWlkZGx1IHN
vY2lvZWVnbm9taWMgYmFja2dyb3VuZC4gUGF0awVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGx
lcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRpY2F0aw9ucwpoByBBY3RpdUgTWVkaW50bG1
vbnMuCGojIEFzc2Vzc211bnQgYW5kIFB5YW4KCgojIyBQbGFuCGo="
        },
        "format": {
          "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
          "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
          "display": "mimeType Sufficient"
        }
      }
    ],
    "context": {
      "encounter": [
        {
          "reference": "Encounter/1359898"
        }
      ]
    }
  ],

```

```
        "period": {
          "start": "2022-10-07T00:00:00+00:00",
          "end": "2022-10-07T00:00:00+00:00"
        }
      },
      "search": {
        "mode": "match"
      }
    },
    {
      "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
      "resource": {
        "resourceType": "DocumentReference",
        "id": "1359898",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:39+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
          ]
        },
        "identifier": [
          {
            "system": "urn:ietf:rhc:3986",
            "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
          }
        ],
        "status": "superseded",
        "type": {
          "coding": [
            {
              "system": "http://loinc.org",
              "code": "11488-4",
              "display": "Consultation note"
            }
          ],
          "text": "Consultation note"
        },
        "category": [
          {
            "coding": [
              {
                "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                "code": "clinical-note",
                "display": "Clinical Note"
              }
            ]
          }
        ],
        "subject": {
          "reference": "Patient/160595"
```

```

    },
    "date": "2022-10-07T00:00:00+00:00",
    "author": [
      {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    ],
    "custodian": {
      "reference": "Organization/2506",
      "display": "Facility Test"
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        "display": "Clinical Note"
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  "text": "History and physical note"
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        "display": "Clinical Note"
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},
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    "reference": "Practitioner/290",
    "display": "Poovarasan D111"
  }
],
"custodian": {
  "reference": "Organization/2506",
  "display": "Facility Test"
},
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        "text": "Progress note"
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        "reference": "Patient/160595"
      },
      "date": "2022-10-07T00:00:00+00:00",
      "author": [
        {
          "reference": "Practitioner/290",
```

```

        "display": "Poovarasan D111"
    },
    ],
    "custodian": {
        "reference": "Organization/2506",
        "display": "Facility Test"
    },
    "content": [
        {
            "attachment": {
                "contentType": "text/plain",
                "data":
"MTk0MC0wOS0wNQoKIyBDaGllZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG9tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbCBEaXNjaGFyZ2UKLSBDb3VnaAoKIyBiaXN0b3J5IG9mIFByZXN1bnQgSWxsbnVzcwpcEdXN0aW4zMSPcyBhIG5ld2JvcM4gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmVYIHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbG1jLgoKUGF0aWVudCBjb211cyBmcm9tIGEgbWlkZGx1IHNVY2lvZWVnbm9taWMgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGxlcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRY2F0aw9ucwpObyBBY3RpdUgTWVkaWNoG1vbnMuCGojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuCGo="
            },
            "format": {
                "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
                "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
                "display": "mimeType Sufficient"
            }
        }
    ],
    "context": {
        "encounter": [
            {
                "reference": "Encounter/1359898"
            }
        ],
        "period": {
            "start": "2022-10-07T00:00:00+00:00",
            "end": "2022-10-07T00:00:00+00:00"
        }
    },
    "search": {
        "mode": "match"
    }
},
{
    "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
    "resource": {
        "resourceType": "DocumentReference",
        "id": "1359898",
        "meta": {
            "versionId": "1",
            "lastUpdated": "2026-01-27T08:57:39+00:00",
            "profile": [

```

```

        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
    ],
    "identifier": [
        {
            "system": "urn:ietf:rfc:3986",
            "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
        }
    ],
    "status": "superseded",
    "type": {
        "coding": [
            {
                "system": "http://loinc.org",
                "code": "11502-2",
                "display": "Laboratory report"
            }
        ],
        "text": "Laboratory report"
    },
    "category": [
        {
            "coding": [
                {
                    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                    "code": "clinical-note",
                    "display": "Clinical Note"
                }
            ]
        }
    ],
    "subject": {
        "reference": "Patient/160595"
    },
    "date": "2022-10-07T00:00:00+00:00",
    "author": [
        {
            "reference": "Practitioner/290",
            "display": "Poovarasan D111"
        }
    ],
    "custodian": {
        "reference": "Organization/2506",
        "display": "Facility Test"
    },
    "content": [
        {
            "attachment": {
                "contentType": "text/plain",
                "data":
"MTk0MC0wOS0wNQoKIyBDaGllZiBDb21wbGFpbmQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29
uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvgotIFNuZWV6aw5nIEZpdHMKLSBOYXNhbcBEaXNjaGFyZ2U
KLSBDb3VnaAoKIyBIaXN0b3J5IG9mIFByZXNlbnQgSWxsbmVzcwpeEdXN0aw4zM5BpcyBhIG5ld2Jvc4

```



```
gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCgojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb211cyBmcm9tIGEGbWlkZGx1IHN
vY2lvZWVbm9taWMgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGx
lcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRpY2F0aW9ucwp0byBBY3RpdmUgTWVkaWNhdG1
vbnMuCgojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuCgo="
    },
    "format": {
      "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
      "display": "mimeType Sufficient"
    }
  ],
  "context": {
    "encounter": [
      {
        "reference": "Encounter/1359898"
      }
    ],
    "period": {
      "start": "2022-10-07T00:00:00+00:00",
      "end": "2022-10-07T00:00:00+00:00"
    }
  }
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
  "resource": {
    "resourceType": "DocumentReference",
    "id": "1359898",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:39+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
      ]
    },
    "identifier": [
      {
        "system": "urn:ietf:rfc:3986",
        "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
      }
    ],
    "status": "superseded",
    "type": {
      "coding": [
        {
          "system": "http://loinc.org",
```



```

        "code": "11526-1",
        "display": "Pathology report"
    },
    ],
    "text": "Pathology report"
},
"category": [
    {
        "coding": [
            {
                "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                "code": "clinical-note",
                "display": "Clinical Note"
            }
        ]
    }
],
"subject": {
    "reference": "Patient/160595"
},
"date": "2022-10-07T00:00:00+00:00",
"author": [
    {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
    }
],
"custodian": {
    "reference": "Organization/2506",
    "display": "Facility Test"
},
"content": [
    {
        "attachment": {
            "contentType": "text/plain",
            "data":
"MTk0MC0wOS0wNQoKIyBDaGllZiBDb21wbGFpbmQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29
uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG0tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbmCBEaXNjaGFyZ2U
KLSBDb3VnaAoKIyBiaXN0b3J5IG9mIFByZXNlbnQgSWxsbmVzcwpcEdXN0aw4zMSPcyBhIG5ld2JvcM4
gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5ClBhdGllbnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb211cyBmcm9tIGEGbWlkZGx1IH
vY2lvZWVvbm9taWMyMgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGx
lcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRRPy2F0aW9ucwpcObyBBY3RpdmUgTWVkaWNoZGl
vbnMuCGojIEFzc2Vzc211bnQgYW5kIFB5YW4KCgojIyBQbGFuCGo="
        },
        "format": {
            "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
            "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
            "display": "mimeType Sufficient"
        }
    }
],
"context": {

```



```

    "encounter": [
      {
        "reference": "Encounter/1359898"
      }
    ],
    "period": {
      "start": "2022-10-07T00:00:00+00:00",
      "end": "2022-10-07T00:00:00+00:00"
    }
  },
  "search": {
    "mode": "match"
  }
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



Goal

Goal APIs enable users to search and fetch Goal information associated with a patient.

Goal.read

Http Method:	GET
Url Template:	[baseUrl]/Goal/{ID}

Goal.search

Http Method:	GET
Url Template:	[baseUrl]/Goal?patient={patient}&target-date={date}&lifecycle-status={lifecycle-status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/Goal?patient={patient}
SHOULD	patient+target-date	reference +date	[baseUrl]/Goal?patient={patient}&target-date={target-date}
SHOULD	patient+lifecycle-status	reference +token	[baseUrl]/Goal?patient={patient}&status={lifecycle-status}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Goal?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "175ce71d-f366-4c7b-b509-62a17aa212bb",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:58+00:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Goal?patient=160595"
    }
  ],
}
```

```

"entry": [
  {
    "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Goal/1836",
    "resource": {
      "resourceType": "Goal",
      "id": "1836",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2026-01-27T08:57:58+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-goal"
        ]
      },
      "lifecycleStatus": "active",
      "description": {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "Q5311",
            "display": "Abdominal testis, unilateral"
          }
        ],
        "text": "Abdominal testis, unilateral"
      },
      "subject": {
        "reference": "Patient/160595"
      },
      "target": [
        {
          "dueDate": "2022-10-09"
        }
      ],
      "search": {
        "mode": "match"
      }
    }
  ]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token



403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Immunization

Immunization APIs enable users to search and fetch immunization history associated with a patient.

Immunization.read

Http Method:	GET
Url Template:	[baseUrl]/Immunization/{ID}

Immunization.search

Http Method:	GET
Url Template:	[baseUrl]/Immunization?patient={patient}&date={date}&status={status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/Immunization?patient={patient}
SHOULD	patient+status	reference +token	[baseUrl]/Immunization?patient={patient}&status={status}
SHOULD	patient+date	reference +date	[baseUrl]/Immunization?patient={patient}&date={date}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Immunization?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "a3302316-de76-42b5-9c27-82f10ca5269d",
  "meta": {
    "lastUpdated": "2026-01-27T08:58:00+00:00"
  },
  "type": "searchset",
  "total": "1",
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/Immunization?patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Immunization/748",
      "resource": {
        "resourceType": "Immunization",
        "id": "748",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2022-10-10T15:20:24+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
immunization"
          ]
        },
        "status": "completed",
        "statusReason": {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason",
              "code": "OSTOCK",
              "display": "product out of stock"
            }
          ],
          "text": "product out of stock"
        },
        "vaccineCode": {
          "coding": [
            {
              "system": "http://hl7.org/fhir/sid/cvx",
              "code": "24",
              "display": "Anthrax "
            }
          ],
          "text": "Anthrax "
        },
        "patient": {
          "reference": "Patient/160595"
        }
      }
    }
  ]
}
```



```

    },
    "encounter": {
      "reference": "Encounter/1359898"
    },
    "occurrenceDateTime": "2022-10-10",
    "primarySource": true,
    "location": {
      "reference": "Location/2506",
      "display": "Facility Test"
    }
  },
  "search": {
    "mode": "match"
  }
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

MedicalRequest

MedicationRequest APIs enable users to search and fetch patient's medication prescription or order.

MedicalRequest.read

Http Method:	GET
Url Template:	[baseUrl]/MedicationRequest/{ID}



MedicalRequest.search

Http Method:	GET
Url Template:	[baseUrl]/MedicationRequest?patient={patient}&intent={intent}&status={status}&encounter={encounter}&authoredon={authoredon}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient+intent	reference+token	[baseUrl]/MedicationRequest?patient={patient}&intent={intent}
SHALL	patient+intent+status	reference+token+token	[baseUrl]/MedicationRequest?patient={patient}&intent={intent}&status={status}
SHOULD	patient+intent+encounter	reference+token+reference	[baseUrl]/MedicationRequest?patient={patient}&intent={intent}&encounter={encounter}
SHOULD	patient+intent+authoredon	reference+token+reference	[baseUrl]/MedicationRequest?patient={patient}&intent={intent}&authoredon={authoredon}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/MedicationRequest?intent=proposal&patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "6fff803b-0aae-4235-8b9c-930f6f7509b0",
  "meta": {
    "lastUpdated": "2026-01-27T08:58:10+00:00"
  },
  "type": "searchset",
  "total": "4",
  "link": [
    {
      "relation": "self",
```



```
    "url":
    "https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationRequest?intent=proposal&patient=160595"
  },
  "entry": [
    {
      "fullUrl":
      "https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationRequest/737658",
      "resource": {
        "resourceType": "MedicationRequest",
        "id": "737658",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2022-11-10T09:59:02+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest"
          ]
        },
        "status": "active",
        "intent": "proposal",
        "subject": {
          "reference": "Patient/160595"
        },
        "encounter": {
          "reference": "Encounter/1359898"
        },
        "authoredOn": "2022-10-04",
        "requester": {
          "reference": "Practitioner/290",
          "display": "Poovarasan D111"
        },
        "reasonReference": [
          {
            "reference": "Condition/20881"
          }
        ],
        "category": [
          {
            "coding": [
              {
                "system":
                "http://terminology.hl7.org/CodeSystem/medicationrequest-category",
                "code": "community",
                "display": "Community"
              }
            ],
            "text": "Community"
          }
        ],
        "reportedBoolean": true,
        "medicationCodeableConcept": {
          "coding": [
            {
```



```
        "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
        "code": "197511",
        "display": "Ciprofloxacin - Cipro; Cipro XR"
      }
    ],
    "text": "Ciprofloxacin - Cipro; Cipro XR"
  },
  "dispenseRequest": {
    "numberOfRepeatsAllowed": 1,
    "quantity": {
      "value": 1
    }
  }
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationRequest/737659",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "737659",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2022-11-10T10:01:56+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationrequest"
      ]
    },
    "status": "active",
    "intent": "proposal",
    "subject": {
      "reference": "Patient/160595"
    },
    "encounter": {
      "reference": "Encounter/1359898"
    },
    "authoredOn": "2022-10-04",
    "requester": {
      "reference": "Practitioner/290",
      "display": "Poovarasan D111"
    },
    "reasonReference": [
      {
        "reference": "Condition/20881"
      }
    ],
    "category": [
      {
        "coding": [
          {
```



```

        "system":
"http://terminology.hl7.org/CodeSystem/medicationrequest-category",
        "code": "community",
        "display": "Community"
    }
    ],
    "text": "Community"
}
],
"reportedBoolean": true,
"medicationCodeableConcept": {
    "coding": [
        {
            "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
            "code": "1649560",
            "display": "200 ACTUAT Albuterol 0.09 MG/ACTUAT Dry Powder
Inhaler"
        }
    ],
    "text": "200 ACTUAT Albuterol 0.09 MG/ACTUAT Dry Powder Inhaler"
},
"dispenseRequest": {
    "numberOfRepeatsAllowed": 1,
    "quantity": {
        "value": 1
    }
},
"dosageInstruction": [
    {
        "sequence": 1,
        "text": "Take at regular intervals. Complete the prescribed course
unless otherwise directed.",
        "additionalInstruction": [
            {
                "coding": [
                    {
                        "system": "http://snomed.info/sct",
                        "code": "418577003",
                        "display": "Take at regular intervals. Complete the
prescribed course unless otherwise directed."
                    }
                ],
                "text": "Take at regular intervals. Complete the prescribed
course unless otherwise directed."
            }
        ],
        "timing": {
            "repeat": {
                "frequency": 4,
                "period": 1,
                "periodUnit": "d"
            }
        }
    },
    "asNeededBoolean": false,
    "doseAndRate": [

```

```

        {
          "type": {
            "coding": [
              {
                "system": "http://terminology.hl7.org/CodeSystem/dose-
rate-type",
                "code": "ordered",
                "display": "Ordered"
              }
            ]
          },
          "doseQuantity": {
            "value": 1
          }
        }
      ]
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationRequest/737660",
    "resource": {
      "resourceType": "MedicationRequest",
      "id": "737660",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2022-11-02T20:36:37+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationrequest"
        ]
      },
      "status": "active",
      "intent": "proposal",
      "subject": {
        "reference": "Patient/160595"
      },
      "encounter": {
        "reference": "Encounter/1359898"
      },
      "authoredOn": "2022-10-04",
      "requester": {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      },
      "reasonReference": [
        {
          "reference": "Condition/20881"
        }
      ]
    }
  ],

```



```
"category": [
  {
    "coding": [
      {
        "system":
"http://terminology.hl7.org/CodeSystem/medicationrequest-category",
        "code": "community",
        "display": "Community"
      }
    ],
    "text": "Community"
  }
],
"reportedBoolean": true,
"medicationCodeableConcept": {
  "coding": [
    {
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
      "code": "1100184",
      "display": "Dementia Medications"
    }
  ],
  "text": "Dementia Medications"
},
"dispenseRequest": {
  "numberOfRepeatsAllowed": 1,
  "quantity": {
    "value": 1
  }
},
"dosageInstruction": [
  {
    "sequence": 1,
    "text": "Take as needed.",
    "asNeededBoolean": true
  }
]
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
"http://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationRequest/737661",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "737661",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2022-11-10T07:40:08+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationrequest"
      ]
    }
  }
}
```

```

    },
    "status": "active",
    "intent": "proposal",
    "subject": {
      "reference": "Patient/160595"
    },
    "encounter": {
      "reference": "Encounter/1359898"
    },
    "authoredOn": "2022-10-04",
    "requester": {
      "reference": "Practitioner/290",
      "display": "Poovarasan D111"
    },
    "reasonReference": [
      {
        "reference": "Condition/20881"
      }
    ],
    "medicationReference": {
      "reference": "Medication/5"
    }
  },
  "search": {
    "mode": "match"
  }
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Observation

Observation APIs enable users to search for identifying the smokers associated with a patient.

Observation.read

Http Method:	GET
Url Template:	[baseUrl]/Observation/{ID}

Observation.search

Http Method:	GET
Url Template:	[baseUrl]/Observation?patient={patient}&status={status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient + code	reference +token	[baseUrl]/Observation?patient=Patient/[id]
SHALL	patient + category + date	reference +token+date	[baseUrl]/Observation?patient={patient}&category={category}&date={date}
SHALL	patient + category	reference +token	[baseUrl]/Observation?patient={patient}&category={category}
SHOULD	patient+code+date	reference +token+date	[baseUrl]/Observation?patient={patient}&code={code}&date={date}
SHOULD	patient+category+status	reference +token+token	[baseUrl]/Observation?patient={patient}&category={category}&status={status}

Supported API: QSmartCare APIs are supporting following categories for Observation

Category	Description
social-history	The status of a patient's tobacco use. This could be used to determine if the patient is a current or former tobacco user, what type of tobacco product is/was used, and the



	dates the patient started and, if a former user, stopped using tobacco.
vital-signs	This will retrieve vital sign data from a patient's chart. Clinical observations measure the body's basic functions such as blood pressure, heart rate, respiratory rate, height, weight, body mass index, head circumference, pulse oximetry, temperature, and body surface area.
Laboratory Result	The results of observations generated by laboratories. Laboratory results are typically generated by laboratories providing analytic services in areas such as chemistry, hematology, serology, histology, cytology, anatomic pathology (including digital pathology), microbiology, and/or virology. These observations are based on analysis of specimens obtained from the patient and submitted to the laboratory.

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrIjojMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Observation?code=72166-2&patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "ffa48d82-819d-4bf8-bff9-71c5db516c3d",
  "meta": {
    "lastUpdated": "2022-09-19T05:42:37.804+00:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir//Observation?code=72166-2&patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir//Observation/160595",
      "resource": {
        "resourceType": "Observation",
        "id": "160595",
        "meta": {
```



```
        "versionId": "1",
        "lastUpdated": "2021-03-23T19:36:29.300+00:00",
        "source": "#iLFSV70Lv0KF8dmQ",
        "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
smokingstatus"
        ]
    },
    "status": "final",
    "category": [
        {
            "coding": [
                {
                    "system": "http://terminology.hl7.org/CodeSystem/observation-
category",
                    "code": "survey",
                    "display": "survey"
                }
            ]
        }
    ],
    "code": {
        "coding": [
            {
                "system": "http://loinc.org",
                "code": "72166-2",
                "display": "Tobacco smoking status NHIS"
            }
        ],
        "text": "Tobacco smoking status NHIS"
    },
    "subject": {
        "reference": "Patient/160595"
    },
    "encounter": {
        "reference": "Encounter/712"
    },
    "effectiveDateTime": "2010-08-19T19:33:18-04:00",
    "issued": "2010-08-19T19:33:18.715-04:00",
    "valueCodeableConcept": {
        "coding": [
            {
                "system": "http://snomed.info/sct",
                "code": "266919005",
                "display": "Never Smoked"
            }
        ],
        "text": "Never Smoked"
    },
    "search": {
        "mode": "match"
    }
}
```



```
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

ProcedureTest

Procedure APIs enable users to search and fetch procedures associated with a patient.

Procedure.read

Http Method:	GET
Url Template:	[baseUrl]/Procedure/{ID}

Procedure.search

Http Method:	GET
Url Template:	[baseUrl]/Procedure?patient={patient}&date={date}&code={code}&status={status}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/Procedure?patient={patient}

SHALL	patient+date	reference +date	[baseUrl]/Procedure?patient={patient}&date={date}
SHOULD	patient+code+date	reference +token+date	[baseUrl]/Procedure?patient={patient}&code={code}&date={date}
SHOULD	patient+status	reference +token	[baseUrl]/Procedure?patient={patient}&status={status}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrIjojMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Procedure?patient=160595

Response

```
{
  "resourceType": "Bundle",
  "id": "d2722660-97bd-40ae-b581-662dc7bb6b34",
  "meta": {
    "lastUpdated": "2022-09-19T05:42:39.232+00:00"
  },
  "type": "searchset",
  "total": 20,
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/?patient=160595"
    },
    {
      "relation": "next",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/?_revinclude=Provenance:target&patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/160595",
      "resource": {
        "resourceType": "Procedure",
        "id": "274",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2021-03-23T19:36:17.299+00:00",
          "source": "#E1VolYkq84D3M96u",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"
          ]
        }
      }
    }
  ]
}
```



```
"status": "completed",
"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "15831",
      "display": "Abdominal lipectomy"
    }
  ],
  "text": "Abdominal lipectomy"
},
"subject": {
  "reference": "Patient/160595"
},
"encounter": {
  "reference": "Encounter/273"
},
"performedPeriod": {
  "start": "1975-04-07T02:42:45-04:00",
  "end": "1975-04-07T03:12:45-04:00"
},
"location": {
  "reference": "Location/2506",
  "display": "Facility Test"
}
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/160595",
  "resource": {
    "resourceType": "Procedure",
    "id": "274",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2021-03-23T19:36:17.299+00:00",
      "source": "#E1VolYkq84D3M96u",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"
      ]
    },
    "status": "completed",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "49080",
          "display": "Abdominal paracentesis/peritoneal lavage"
        }
      ],
      "text": "Abdominal paracentesis/peritoneal lavage"
    },
    "subject": {
```



```
    "reference": "Patient/160595"
  },
  "encounter": {
    "reference": "Encounter/273"
  },
  "performedPeriod": {
    "start": "1975-04-07T02:42:45-04:00",
    "end": "1975-04-07T03:12:45-04:00"
  },
  "location": {
    "reference": "Location/2506",
    "display": "Facility Test"
  }
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/160595",
  "resource": {
    "resourceType": "Procedure",
    "id": "274",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2021-03-23T19:36:17.299+00:00",
      "source": "#E1VolYkq84D3M96u",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"
      ]
    },
    "status": "completed",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "416118004",
          "display": "Administration (procedure)"
        }
      ]
    },
    "text": "Administration (procedure)"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "encounter": {
    "reference": "Encounter/273"
  },
  "performedPeriod": {
    "start": "1975-04-07T02:42:45-04:00",
    "end": "1975-04-07T03:12:45-04:00"
  },
  "location": {
    "reference": "Location/2506",
    "display": "Facility Test"
  }
}
```



```
    }
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir//Procedure/160595",
  "resource": {
    "resourceType": "Procedure",
    "id": "274",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2021-03-23T19:36:17.299+00:00",
      "source": "#E1VolYkq84D3M96u",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"
      ]
    },
    "status": "completed",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "26672100",
          "display": "Absent response to treatment situation"
        }
      ],
      "text": "Absent response to treatment situation"
    },
    "subject": {
      "reference": "Patient/160595"
    },
    "encounter": {
      "reference": "Encounter/273"
    },
    "performedPeriod": {
      "start": "1975-04-07T02:42:45-04:00",
      "end": "1975-04-07T03:12:45-04:00"
    },
    "location": {
      "reference": "Location/2506",
      "display": "Facility Test"
    }
  },
  "search": {
    "mode": "match"
  }
}
]
```



Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Encounter

Encounter APIs enable users to search and fetch basic encounter information for an individual patient.

Encounter.read

Http Method:	GET
Url Template:	[baseUrl]/Encounter/{ID}

Encounter.search

Http Method:	GET
Url Template:	[baseUrl]/Encounter?&_id={id}&patient={patient}&status={status}&category={category}&date={date}&type={type}&period={date}

Conformance	Parameter (Combination)	Type	URL
SHALL	_id	token	[baseUrl]/Encounter?_id={id}
SHALL	patient	reference	[baseUrl]/Encounter?patient={patient}

SHALL	patient+date	reference +date	[baseUrl]/Encounter?patient={patient}&category={category}
SHOULD	identifier	token	[baseUrl]/Encounter?id={identifier}
SHOULD	patient+status	reference +token	[baseUrl]/Encounter?patient={patient}&status={status}
SHOULD	patient+class	reference +token	[baseUrl]/Encounter?patient={patient}&class={class}
SHOULD	patient+status	reference +token	[baseUrl]/Encounter?patient={patient}&type={type}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Encounter/1359898>

Response

```
{
  "resourceType": "Encounter",
  "id": "1359898",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2026-01-27T08:57:54+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-encounter"
    ]
  },
  "identifier": [
    {
      "use": "official",
      "system": "https://github.com/synthetichealth/synthea",
      "value": "65abf8dc-d463-e590-71e7-dea000842f94"
    }
  ],
  "status": "finished",
  "class": {
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
    "code": "AMB"
  },
  "type": [
    {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "410620009",
          "display": "Well child visit (procedure)"
        }
      ]
    }
  ],
  "text": "Well child visit (procedure)"
}
```



```
    },
    ],
    "subject": {
      "reference": "Patient/160595",
      "display": "Barry Tesla"
    },
    "participant": [
      {
        "type": [
          {
            "coding": [
              {
                "system": "http://terminology.hl7.org/CodeSystem/v3-
ParticipationType",
                "code": "PPRF",
                "display": "primary performer"
              }
            ],
            "text": "primary performer"
          }
        ],
        "period": {
          "start": "2022-10-07T11:33:40+00:00",
          "end": "2025-12-31T13:29:14+00:00"
        },
        "individual": {
          "reference": "Practitioner/290",
          "display": "Poovarasan D111"
        }
      }
    ],
    "period": {
      "start": "2022-10-07T11:33:40+00:00",
      "end": "2025-12-31T13:29:14+00:00"
    },
    "location": [
      {
        "location": {
          "reference": "Location/160595",
          "display": "PCP170967"
        }
      }
    ],
    "serviceProvider": {
      "reference": "Organization/160595",
      "display": "PCP170967"
    },
    "reasonCode": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "439401001",
            "display": "Encounter for assessment"
          }
        ]
      }
    ]
  }
}
```

```

    ]
  }
],
"reasonReference": [
  {
    "reference": "Condition/20881"
  }
],
"hospitalization": {
  "dischargeDisposition": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/discharge-
disposition",
        "code": "home",
        "display": "Discharged to home"
      }
    ]
  }
}
}
}
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Organization

Organization APIs enable users for searching and fetching Organization associated with a patient or provider.

Organization.read

Http Method:	GET
---------------------	-----



Url Template:	[baseUrl]/Organization/{ID}
----------------------	-----------------------------

Organization.search

Http Method:	GET
Url Template:	[baseUrl]/Organization?name={name}&address={address}

Conformance	Parameter (Combination)	Type	URL
SHALL	name	string	[baseUrl]/Organization?name={name}
SHALL	address	string	[baseUrl]/Organization?address={address}

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Organization/357

Response

```
{
  "resourceType": "Organization",
  "id": "357",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2026-01-27T09:00:55+00:00",
    "source": "#iLFSV70Lv0KF8dmQ",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization"
    ]
  },
  "identifier": [
    {
      "system": "https://github.com/synthetichealth/synthea",
      "value": "56090ab7-1f97-37ff-a434-194f9c6e5510"
    },
    {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1144221847"
    },
    {
      "system": "urn:oid:2.16.840.1.113883.4.7",
      "value": "12D4567890"
    }
  ]
}
```

```

    }
  ],
  "active": true,
  "type": [
    {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/organization-type",
          "code": "prov",
          "display": "Healthcare Provider"
        }
      ],
      "text": "Healthcare Provider"
    }
  ],
  "name": "PCP170967",
  "telecom": [
    {
      "system": "phone",
      "value": "(123) 456-7898"
    }
  ],
  "address": [
    {
      "line": [
        "105 NE 11th Avenue"
      ],
      "city": "Aurora",
      "state": "Colorado",
      "postalCode": "334-35",
      "country": "United States of America"
    }
  ]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



Practitioner

Practitioner APIs enable users to search and fetch basic demographics and other administrative information about an individual practitioner.

Practitioner.read

Http Method:	GET
Url Template:	[baseUrl]/Practitioner/{ID}

Practitioner.search

Http Method:	GET
Url Template:	[baseUrl]/Practitioner?name={name}&identifier={identifier}

Conformance	Parameter (Combination)	Type	URL
SHALL	name	string	[baseUrl]/Practitioner?name={name}
SHALL	identifier	token	[baseUrl]/Practitioner?identifier={identifier}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Practitioner/358>

Response

```
{
  "resourceType": "Practitioner",
  "id": "358",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2026-01-27T09:00:57+00:00",
    "source": "#iLFSV7OLv0KF8dmQ",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner"
    ]
  },
}
```



```

"identifier": [
  {
    "system": "http://hl7.org/fhir/sid/us-npi",
    "value": "9999944819"
  }
],
"active": true,
"name": [
  {
    "family": "Poovarasan D111",
    "given": [
      "Poovarasan D111"
    ],
    "prefix": [
      "Dr."
    ]
  }
],
"telecom": [
  {
    "extension": [
      {
        "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-direct",
        "valueBoolean": true
      }
    ],
    "system": "email",
    "value": "QSCsupport@managedoutsources.com",
    "use": "work"
  }
],
"address": [
  {
    "line": [
      "test1234 htp"
    ],
    "city": "Alessandraside",
    "state": "Arkansas",
    "postalCode": "111-11",
    "country": "Austria"
  }
],
"gender": "male"
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
-----------	----------	-------------	---------



400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Provenance

Provenance APIs enable users to search and fetch Provenance information associated with a record.

Provenance.read

Http Method:	GET
Url Template:	[baseUrl]/Provenance/{ID}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient+_revinclud de	reference	[baseUrl]/[Resource]?patient=[pati ent]&_revinclud=Provenance:targe t
SHALL	_id+_revinclud		[baseUrl]/[Resource]?_id=[id]&_re vinclud=Provenance:target

Request:

https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYiI6IjE2MDU5NSJ9/fhir/
Provenance/792

Response

```
{
  "resourceType": "Provenance",
  "id": "792",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2021-03-23T19:36:17.299+00:00",
    "source": "#E1Vo1Ykq84D3M96u",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-provenance"
    ]
  }
}
```

```
},
"target": [
  {
    "reference": "Patient/85"
  },
  {
    "reference": "Location/86"
  },
  {
    "reference": "Organization/87"
  },
  {
    "reference": "Practitioner/88"
  },
  {
    "reference": "PractitionerRole/89"
  },
  {
    "reference": "Encounter/90"
  },
  {
    "reference": "Observation/91"
  },
  {
    "reference": "Encounter/92"
  },
  {
    "reference": "Observation/93"
  },
  {
    "reference": "Encounter/94"
  },
  {
    "reference": "Observation/95"
  },
  {
    "reference": "Encounter/96"
  },
  {
    "reference": "Observation/97"
  },
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  {
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  },
  {
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  },
  {
    "reference": "Observation/102"
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    {  
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    {  
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    {  
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}
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{
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    {
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}
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  "reference": "MedicationRequest/310"
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{
  "reference": "Immunization/311"
},
{
  "reference": "Observation/315"
}
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"recorded": "1977-07-15T01:11:45.131-04:00",
"agent": [
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    "type": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/provenance-
participant-type",
          "code": "author",
          "display": "Author"
        }
      ]
    },
    "text": "Author"
  },
  {
    "who": {
      "reference": "Practitioner/88",
      "display": "Poovarasan D111"
    },
    "onBehalfOf": {
      "reference": "Organization/87",
      "display": "PCP87052"
    }
  }
],
{
  "type": {
    "coding": [
      {
```



```

        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
provenance-participant-type",
        "code": "transmitter",
        "display": "Transmitter"
    }
  ],
  "text": "Transmitter"
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"onBehalfOf": {
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  "display": "PCP87052"
}
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue



ClinicalNote

Clinical Notes APIs enable users to search for DocumentReference types and DiagnosticReport categories associated with a patient.

ClinicalNotes.read

Http Method:	GET
Url Template:	[baseUrl]/DocumentReference/{ID}

ClinicalNotes.search

Http Method:	GET
Url Template:	[baseUrl]/ DocumentReference?patient={patient}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/DocumentReference?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "6fff803b-0aae-4235-8b9c-930f6f7509b0",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:39+00:00"
  },
  "type": "searchset",
  "total": "8",
  "link": [
    {
      "relation": "self",
      "url":
        "https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference?patient=160595"
    }
  ]
}
```

```
    }
  ],
  "entry": [
    {
      "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
      "resource": {
        "resourceType": "DocumentReference",
        "id": "1359898",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:39+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
          ]
        },
        "identifier": [
          {
            "system": "urn:ietf:rfc:3986",
            "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
          }
        ],
        "status": "superseded",
        "type": {
          "coding": [
            {
              "system": "http://loinc.org",
              "code": "28570-0",
              "display": "Procedure note"
            }
          ],
          "text": "Procedure note"
        },
        "category": [
          {
            "coding": [
              {
                "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                "code": "clinical-note",
                "display": "Clinical Note"
              }
            ]
          }
        ],
        "subject": {
          "reference": "Patient/160595"
        },
        "date": "2022-10-07T00:00:00+00:00",
        "author": [
          {
            "reference": "Practitioner/290",
            "display": "Poovarasan D111"
          }
        ]
      }
    }
  ]
}
```

```
[{"custodian": {"reference": "Organization/2506", "display": "Facility Test"}}, {"content": [{"attachment": {"contentType": "text/plain", "data": "MTk0MCM0wOS0wNQM0KiyBDaGllZiBDb21wbGFpbmQKLSEBZWNYZWfzZWQgaw4gSnVkJ2VtZW50Ci0gQ29uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG9tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbcBEaXNjaGFyZTUuKLSBDb3VnaAoKIYBIaXN0b3J5IG9mIFByZXNlbnQgSWxsbmVzcwpEdXN0aw4zMsbpcyBhIG5ld2JvcM4gbm9uLWhpc3BhbmljIHdoaxRlIGI1hbGUUcGojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmVyIHNTb2t1ZCBhbmQgaXMgYW4gYWxjb2hvbgGljlLgoKUGF0aWVudCBjb21lcYBmc9tIGEgbWlkZGxlIHNVY2lvZWVnbm9taWMgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFlldG5hLgoKIYBBbGxlcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIYBNZWRPY2F0aW9ucwp0byBBY3RpdmUgTWVkaWNhdGlvbnMuCgojIEFzc2Vzc21lbmQgYW5kIFBsYW4KCgojIyBQbGFuCGo="}}, {"format": {"system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem", "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient", "display": "mimeType Sufficient"}}}], {"context": {"encounter": [{"reference": "Encounter/1359898"}]}, {"period": {"start": "2022-10-07T00:00:00+00:00", "end": "2022-10-07T00:00:00+00:00"}}}], {"search": {"mode": "match"}}, {"fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898", "resource": {"resourceType": "DocumentReference", "id": "1359898", "meta": {"versionId": "1", "lastUpdated": "2026-01-27T08:57:39+00:00", "profile": ["http://hl7.org/fhir/us/core/StructureDefinition/us-core-documentreference"]}}
```

```

},
"identifier": [
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    "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
  }
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"type": {
  "coding": [
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      "system": "http://loinc.org",
      "code": "11488-4",
      "display": "Consultation note"
    }
  ],
  "text": "Consultation note"
},
"category": [
  {
    "coding": [
      {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
        "code": "clinical-note",
        "display": "Clinical Note"
      }
    ]
  }
],
"subject": {
  "reference": "Patient/160595"
},
"date": "2022-10-07T00:00:00+00:00",
"author": [
  {
    "reference": "Practitioner/290",
    "display": "Poovarasan D111"
  }
],
"custodian": {
  "reference": "Organization/2506",
  "display": "Facility Test"
},
"content": [
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    "attachment": {
      "contentType": "text/plain",
      "data":
"MTk0MCM0wOS0wNQoKIyBDaGllZiBDb21wbGFpbmQKLSBEZWNyZWZzZWQgaw4gSnVkJ2Z2VtZW50Ci0gQ29uZnVzaw9uCi0gTmFzYWwgQ29uZ2VzdGlvbG0tIFNuZWV6aw5nIEZpdHMKLSBOYXNhbCBEaXNjaGFyZ2UuKLSBDb3VnaAoKIyBIaXN0b3J5IG9mIFByZXNlbnQgSWxsbnVzcwpEdXN0aW4zMSPcyBhIG5ld2Jvc4gZm9uLWVhpc3BhbmljIHdoaxRlIG1hbGUuCGojIFNvY2lhbCBIaXN0b3J5ClBhdGllbnQgaGFzIG5ldmV5IHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbGllLGoKUGF0awVudCBjb211cyBmcm9tIGEGbWlkZGx1IHhN"

```



```
vY2lvZWVbm9taWMgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGxlcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRpY2F0aw9ucwp0byBBY3RpdmUgTWVkaWNhdGlvbnMuCgojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuCGo="
```

```
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      "display": "mimeType Sufficient"
    }
  },
  ],
  "context": {
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      {
        "reference": "Encounter/1359898"
      }
    ],
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      "start": "2022-10-07T00:00:00+00:00",
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    }
  }
},
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}
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      "versionId": "1",
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      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
      ]
    },
    "identifier": [
      {
        "system": "urn:ietf:rfc:3986",
        "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
      }
    ],
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    "type": {
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          "system": "http://loinc.org",
          "code": "18842-5",
          "display": "Discharge summary"
        }
      ]
    }
  }
}
```



```

    },
    ],
    "text": "Discharge summary"
  },
  "category": [
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documentreference-category",
          "code": "clinical-note",
          "display": "Clinical Note"
        }
      ]
    }
  ],
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  },
  "date": "2022-10-07T00:00:00+00:00",
  "author": [
    {
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      "display": "Poovarasan D111"
    }
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    "display": "Facility Test"
  },
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        "data":
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uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvdG9mIFNuZWV6aw5nIEZpdHMKLSBOYXNhbcBEaXNjaGFyZ2U
KLSBD3VnaAoKIyBiaXN0b3J5IG9mIFByZXNlbnQgSWxsbnVzcwpcEdXN0aw4zMSBpcyBhIG5ld2Jvc4
gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmQgaXMgYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb21lcYBmcm9tIGEGbWlkZGx1IH
vY2lvZWVbm9taWNgYmFja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGx
lcmdpZXMKTm8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRpY2F0aw9ucwp0byBBY3RpdmgUgTWVkaWNhdG
lvdnMuCGojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuCGo="
      },
      "format": {
        "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
        "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
        "display": "mimeType Sufficient"
      }
    }
  ],
  "context": {
    "encounter": [
      {

```

```
        "reference": "Encounter/1359898"
      }
    ],
    "period": {
      "start": "2022-10-07T00:00:00+00:00",
      "end": "2022-10-07T00:00:00+00:00"
    }
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
  "resource": {
    "resourceType": "DocumentReference",
    "id": "1359898",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-01-27T08:57:39+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
      ]
    },
    "identifier": [
      {
        "system": "urn:ietf:rfc:3986",
        "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
      }
    ],
    "status": "superseded",
    "type": {
      "coding": [
        {
          "system": "http://loinc.org",
          "code": "34117-2",
          "display": "History and physical note"
        }
      ]
    },
    "text": "History and physical note"
  },
  "category": [
    {
      "coding": [
        {
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
          "code": "clinical-note",
          "display": "Clinical Note"
        }
      ]
    }
  ]
}
```



```

    ],
    "subject": {
      "reference": "Patient/160595"
    },
    "date": "2022-10-07T00:00:00+00:00",
    "author": [
      {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    ],
    "custodian": {
      "reference": "Organization/2506",
      "display": "Facility Test"
    },
    "content": [
      {
        "attachment": {
          "contentType": "text/plain",
          "data":
"MTk0MC0wOS0wN0oKIyBDaGllZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG9mIFB5ZXNlbnQgSWxsbnVzcwpcEdXN0aw4zMSPcyBhIG5ld2Jvc4gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5ClBhdGllbnQgaGFzIG5ldmVvY2l1vZWNvbm9taWMyMgYmFja2dyb3VuZC4gUGF0awVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGxlcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRRpY2F0aw9ucwpcObyBBY3RpdUgTWVkaWVhdGlvbnMuCGojIEFzc2Vzc21lbnQgYW5kIFBsYW4KCgojIyBQbGFuCGo="
        },
        "format": {
          "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
          "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
          "display": "mimeType Sufficient"
        }
      }
    ],
    "context": {
      "encounter": [
        {
          "reference": "Encounter/1359898"
        }
      ],
      "period": {
        "start": "2022-10-07T00:00:00+00:00",
        "end": "2022-10-07T00:00:00+00:00"
      }
    }
  },
  "search": {
    "mode": "match"
  }
}

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```
"fullUrl":  
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",  
"resource": {  
  "resourceType": "DocumentReference",  
  "id": "1359898",  
  "meta": {  
    "versionId": "1",  
    "lastUpdated": "2026-01-27T08:57:39+00:00",  
    "profile": [  
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-  
documentreference"  
    ]  
  },  
  "identifier": [  
    {  
      "system": "urn:ietf:rhc:3986",  
      "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"  
    }  
  ],  
  "status": "superseded",  
  "type": {  
    "coding": [  
      {  
        "system": "http://loinc.org",  
        "code": "11506-3",  
        "display": "Progress note"  
      }  
    ],  
    "text": "Progress note"  
  },  
  "category": [  
    {  
      "coding": [  
        {  
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-  
documentreference-category",  
          "code": "clinical-note",  
          "display": "Clinical Note"  
        }  
      ]  
    }  
  ],  
  "subject": {  
    "reference": "Patient/160595"  
  },  
  "date": "2022-10-07T00:00:00+00:00",  
  "author": [  
    {  
      "reference": "Practitioner/290",  
      "display": "Poovarasan D111"  
    }  
  ],  
  "custodian": {  
    "reference": "Organization/2506",  
    "display": "Facility Test"
```

```

    },
    "content": [
      {
        "attachment": {
          "contentType": "text/plain",
          "data":
"MTk0MC0wOS0wN0oKIyBDaG1lZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG9tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbCBEaXNjaGFyZ2UuKLSBDb3VnaAoKIyBIaXN0b3J5IG9mIFByZXNlbnQgSWxsbnVzcwEdXN0aw4zMSBpcyBhIG5ld2JvcM4gbm9uLWhpc3BhbmljIHdoaXRlIG1hbGUuGgojIFNvY2lhbCBiaXN0b3J5ClBhdG1lbnQgaGFzIG5ldmV5IHNTb2t1ZCBhbmQgaXMgYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb211cyBmcm9tIGEgbWlkZGx1IHNVY2l2ZWVubm9taWMyMjY2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEF1dG5hLgoKIyBBbGxlcmdpZXMKTM8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRRpY2F0aW9ucwObYBBY3RpdUgTWVkaW50bG1vbnMuGgojIEFzc2Vzc21lbnQgYW5kIFBsYW4KCgojIyBQbGFuGgo="
          },
          "format": {
            "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
            "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
            "display": "mimeType Sufficient"
          }
        }
      ],
      "context": {
        "encounter": [
          {
            "reference": "Encounter/1359898"
          }
        ],
        "period": {
          "start": "2022-10-07T00:00:00+00:00",
          "end": "2022-10-07T00:00:00+00:00"
        }
      }
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl":
"http://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
    "resource": {
      "resourceType": "DocumentReference",
      "id": "1359898",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2026-01-27T08:57:39+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-documentreference"
        ]
      },
      "identifier": [
        {

```



```

        "system": "urn:ietf:rfc:3986",
        "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
    }
],
"status": "superseded",
"type": {
    "coding": [
        {
            "system": "http://loinc.org",
            "code": "18748-4",
            "display": "Operative note"
        }
    ],
    "text": "Operative note"
},
"category": [
    {
        "coding": [
            {
                "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                "code": "clinical-note",
                "display": "Clinical Note"
            }
        ]
    }
],
"subject": {
    "reference": "Patient/160595"
},
"date": "2022-10-07T00:00:00+00:00",
"author": [
    {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
    }
],
"custodian": {
    "reference": "Organization/2506",
    "display": "Facility Test"
},
"content": [
    {
        "attachment": {
            "contentType": "text/plain",
            "data":
"MTk0MC0wOS0wN0QoKiyBDaG11ZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29
uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG0tIFNuZWV6aW5nIEZpdHMKLSBOYXNhbCBEaXNjaGFyZ2U
KLSBDb3VnaAoKiyBiaXN0b3J5IG9mIFByZXNlbnQgSWxsbnVzcwpEdXN0aw4zMsbpcyBhIG5ld2Jvc4
gbm9uLWhpc3BhbmljIHdoaxRlIG1hbGUuGgojIFNvY2lhbCBiaXN0b3J5C1BhdG11bnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmljQgaXMGYw4gYXxjb2hvbG1jLgoKUGF0aWVudCBjb211cyBmcm9tIGegbWlkZGx1IH
vY21vZWVvbn9taWMyfjY2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKiyBBbGx
lcmdpZXMKTm8gS25vd24gQWxsZXJnaWVzLgoKiyBNZWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKiyBBbGx
vbnMuGgojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuGgo="
        }
    ]
},

```

```
        "format": {
          "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
          "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
          "display": "mimeType Sufficient"
        }
      ],
      "context": {
        "encounter": [
          {
            "reference": "Encounter/1359898"
          }
        ],
        "period": {
          "start": "2022-10-07T00:00:00+00:00",
          "end": "2022-10-07T00:00:00+00:00"
        }
      }
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
    "resource": {
      "resourceType": "DocumentReference",
      "id": "1359898",
      "meta": {
        "versionId": "1",
        "lastUpdated": "2026-01-27T08:57:39+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
        ]
      },
      "identifier": [
        {
          "system": "urn:ietf:rfc:3986",
          "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
        }
      ],
      "status": "superseded",
      "type": {
        "coding": [
          {
            "system": "http://loinc.org",
            "code": "11502-2",
            "display": "Laboratory report"
          }
        ],
        "text": "Laboratory report"
      },
    },
  },
}
```



```

"category": [
  {
    "coding": [
      {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
        "code": "clinical-note",
        "display": "Clinical Note"
      }
    ]
  }
],
"subject": {
  "reference": "Patient/160595"
},
"date": "2022-10-07T00:00:00+00:00",
"author": [
  {
    "reference": "Practitioner/290",
    "display": "Poovarasan D111"
  }
],
"custodian": {
  "reference": "Organization/2506",
  "display": "Facility Test"
},
"content": [
  {
    "attachment": {
      "contentType": "text/plain",
      "data":
"MTk0MC0wOS0wN0oKIyBDaGllZiBDb21wbGFpbnQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29
uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG9tIFNvZWV6aW5nIEZpdHMKLSBOYXNhbcBEaXNjaGFyZ2U
KLSBD3VnaAoKIyBiaXN0b3J5IG9mIFByZXN1bnQgSWxsbnVzcwpedXN0aw4zMSPcyBhIG5ld2Jvc4
gbm9uLWhpc3Bhbm1jIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5C1BhdG11bnQgaGFzIG5ldmV
yIHNTb2t1ZCBhbmQgaXMgYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb211cyBmcm9tIGEGbWlkZGx1IH
vY2lvZWVmbm9taWMyfja2dyb3VuZC4gUGF0aWVudCBjdXJyZW50bHkgaGFzIEFldG5hLgoKIyBBbGx
lcmdpZXMKTm8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRRPy2F0aw9ucwpObyBBY3RpdMUgTWVkaW50bG
vbnMuCGojIEFzc2Vzc211bnQgYW5kIFB5YW4KCgojIyBQbGFuCGo="
    },
    "format": {
      "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
      "display": "mimeType Sufficient"
    }
  }
],
"context": {
  "encounter": [
    {
      "reference": "Encounter/1359898"
    }
  ],
  "period": {

```



```
        "start": "2022-10-07T00:00:00+00:00",
        "end": "2022-10-07T00:00:00+00:00"
    }
}
},
"search": {
    "mode": "match"
}
},
{
    "fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/DocumentReference/1359898",
    "resource": {
        "resourceType": "DocumentReference",
        "id": "1359898",
        "meta": {
            "versionId": "1",
            "lastUpdated": "2026-01-27T08:57:39+00:00",
            "profile": [
                "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
documentreference"
            ]
        },
        "identifier": [
            {
                "system": "urn:ietf:rfc:3986",
                "value": "urn:uuid:39345668-54a0-e9fc-0462-2412a3a80e06"
            }
        ],
        "status": "superseded",
        "type": {
            "coding": [
                {
                    "system": "http://loinc.org",
                    "code": "11526-1",
                    "display": "Pathology report"
                }
            ],
            "text": "Pathology report"
        },
        "category": [
            {
                "coding": [
                    {
                        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-
documentreference-category",
                        "code": "clinical-note",
                        "display": "Clinical Note"
                    }
                ]
            }
        ],
        "subject": {
            "reference": "Patient/160595"
        },
    },
}
```



```

    "date": "2022-10-07T00:00:00+00:00",
    "author": [
      {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    ],
    "custodian": {
      "reference": "Organization/2506",
      "display": "Facility Test"
    },
    "content": [
      {
        "attachment": {
          "contentType": "text/plain",
          "data":
"MTk0MC0wOS0wNQoKIyBDaGllZiBDb21wbGFpbmQKLSBEZWNYZWZzZWQgaw4gSnVkZ2VtZW50Ci0gQ29uZnVzaW9uCi0gTmFzYWwgQ29uZ2VzdGlvbG90IFN0ZWV6aW5nIEZpdHMKLSBOYXNhbCBEaXNjaGFyZ2UKLSBDb3VnaAoKIyBiaXN0b3J5IG9mIFByZXNlbnQgSWxsbnVzcwEdXN0aw4zMSBpcyBhIG5ld2Jvc4gbm9uLWhpc3Bhbm1jIHdoaXRlIG1hbGUuCGojIFNvY2lhbCBiaXN0b3J5C1BhdGllbnQgaGFzIG5ldmVYIHNTb2t1ZCBhbmQgaXMGYW4gYWxjb2hvbGljLgoKUGF0aWVudCBjb211cyBmcm9tIGEGbWlkZGx1IHNVY2l1vZW50bHkgaGFzIEFldG5hLgoKIyBBbGxlcmdpZXMKTm8gS25vd24gQWxsZXJnaWVzLgoKIyBNZWRpY2F0aw9ucw0byBBY3RpdmUgTWVkaWNhdGlvbnMuCGojIEFzc2Vzc211bnQgYW5kIFBsYW4KCgojIyBQbGFuCGo="
          },
          "format": {
            "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
            "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
            "display": "mimeType Sufficient"
          }
        },
        "context": {
          "encounter": [
            {
              "reference": "Encounter/1359898"
            }
          ],
          "period": {
            "start": "2022-10-07T00:00:00+00:00",
            "end": "2022-10-07T00:00:00+00:00"
          }
        }
      },
      {
        "search": {
          "mode": "match"
        }
      }
    ]
  }

```



Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

ServiceRequest

ServiceRequest resource is used to capture orders and requests for healthcare services such as laboratory tests, imaging, procedures, referrals, or other clinical services. It includes details about what service is requested, who requested it, for which patient, the priority, status, and timing of the request.

ServiceRequest.read

Http Method:	GET
Url Template:	[baseUrl]/ServiceRequest/{ID}

ServiceRequest.search

Http Method:	GET
Url Template:	[baseUrl]/ServiceRequest?patient={patient}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/ServiceRequest?patient={patient}
SHALL	_id	token	[baseUrl]/ServiceRequest?_id={id }
SHALL	patient+category+authoredon	reference+token+date	[baseUrl]/ServiceRequest?patient={patient}&category={category}&authoredon={authoredon}



SHALL	patient+category	reference+token	[baseURL]/ServiceRequest?patient={patient}&category={category}
SHOULD	patient+code+authoredon	reference+token+date	[baseURL]/ServiceRequest?patient={patient}&code={code}&authoredon={authoredon}
SHALL	patient+code	reference+token	[baseURL]/ServiceRequest?patient={patient}&code={code}

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/ServiceRequest?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "216d0d12-898c-45ec-8852-12a68bb8605d",
  "meta": {
    "lastUpdated": "2025-09-13T04:49:17.446+00:00"
  },
  "type": "searchset",
  "total": 2,
  "link": [
    {
      "relation": "self",
      "url": "https://fhir.qsmartcare.com:2025/v/r4/fhir/ServiceRequest?patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/ServiceRequest/160595",
      "resource": {
        "resourceType": "ServiceRequest",
        "id": "160595",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2025-08-14T00:52:09.091+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-servicerequest"
          ]
        },
        "identifier": [
          {
            "system": "https://github.com/inferno-framework/us-core-test-kit",
            "value": "ba89c2af-ce2b-405d-8eff-793eabe1c38d"
          }
        ]
      }
    }
  ]
}
```



```
    ],
    "status": "completed",
    "intent": "order",
    "category": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "387713003",
            "display": "Surgical procedure"
          }
        ],
        "text": "Surgical procedure"
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "233169004",
          "display": "Automatic defibrillator procedure (procedure)"
        }
      ]
    },
    "subject": {
      "reference": "Patient/160595"
    },
    "encounter": {
      "reference": "Encounter/160595"
    },
    "authoredOn": "2015-03-30",
    "requester": {
      "reference": "Practitioner/358"
    },
    "reasonCode": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "71908006",
            "display": "Ventricular fibrillation (disorder)"
          }
        ],
        "text": "Bradycardia"
      }
    ]
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl":
    "https://fhir.qsmartcare.com:2025/v/r4/fhir/ServiceRequest/160595",
  "resource": {
```



```
"resourceType": "ServiceRequest",
"id": "160595",
"meta": {
  "versionId": "1",
  "lastUpdated": "2025-08-14T00:52:09.091+00:00",
  "profile": [
    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
servicerequest"
  ]
},
"identifier": [
  {
    "system": "https://github.com/inferno-framework/us-core-test-kit",
    "value": "706eb626-2e3a-4f23-bb58-dd11cde7da98"
  }
],
"status": "active",
"intent": "order",
"category": [
  {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "410606002",
        "display": "Social Service Procedure"
      }
    ],
    "text": "Social Determinants Of Health"
  }
],
"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "24165007",
      "display": "Alcoholism counseling"
    }
  ],
  "text": "Alcohol rehabilitation"
},
"subject": {
  "reference": "Patient/160595"
},
"occurrencePeriod": {
  "start": "2021-11-20",
  "end": "2021-12-04"
},
"authoredOn": "2021-11-12T10:59:38-08:00",
"requester": {
  "reference": "Practitioner/358"
}
},
"search": {
  "mode": "match"
}
}
```



```
}
  ]
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Coverage

Coverage resource provides information about a patient's insurance or financial coverage used to pay for healthcare services. It includes details about the payer, policy, beneficiary, coverage period, and coverage status, helping determine eligibility and billing responsibility.

Coverage.read

Http Method:	GET
Url Template:	[baseUrl]/Coverage/{ID}

Coverage.search

Http Method:	GET
Url Template:	[baseUrl]/Coverage?patient={patient}



Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Coverage?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "589e9683-fba8-4e7b-b421-8e103f2ecbc0",
  "meta": {
    "lastUpdated": "2026-01-27T08:57:13+00:00"
  },
  "type": "searchset",
  "total": 0,
  "link": [
    {
      "relation": "self",
      "url":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/Coverage?patient=160595"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://fhir.qsmartcare.com:2025/v/r4/fhir/Coverage/3433",
      "resource": {
        "resourceType": "Coverage",
        "id": "3433",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2026-01-27T08:57:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-coverage"
          ]
        },
        "identifier": [
          {
            "type": {
              "coding": [
                {
                  "system": "http://terminology.hl7.org/CodeSystem/v2-0203",
                  "code": "MB"
                }
              ]
            },
            "system": "https://github.com/inferno-framework/us-core-test-kit",
            "value": "f4a375d2-4e53-4f81-ba95-345e7573b550"
          }
        ],
        "status": "active",
        "type": {
          "coding": [
            {
              "system": "https://nahdo.org/sopt",
              "code": "3712",

```



```

        "display": "PPO"
      },
      {
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
        "code": "PPO",
        "display": "PPO"
      }
    ],
    "text": "PPO"
  },
  "subscriberId": "888009335",
  "beneficiary": {
    "reference": "Patient/160595"
  },
  "relationship": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/subscriber-
relationship",
        "code": "NAT"
      }
    ],
    "text": "Natural Child"
  },
  "period": {
    "start": "2020-01-01"
  },
  "payor": [
    {
      "reference": "Organization/13",
      "display": "Facility Test"
    }
  ],
  "class": [
    {
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/coverage-
class",
            "code": "group",
            "display": "Group"
          }
        ],
        "text": "An employee group"
      },
      "value": "Acme Brick",
      "name": "Acme Brick"
    },
    {
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/coverage-
class",

```

```

        "code": "plan",
        "display": "Plan"
      },
    ],
    "text": "A specific suite of benefits."
  },
  "value": "Acme Brick",
  "name": "Acme Brick"
}
]
},
"search": {
  "mode": "match"
}
}
]
}

```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

MedicationDispense

MedicationDispense resource records information about medications that have been prepared and supplied to a patient by a pharmacy or dispensing system. It represents the actual dispensing event, including what medication was dispensed, to whom, by whom, when, and in what quantity.



MedicationDispense.read

Http Method:	GET
Url Template:	[baseUrl]/MedicationDispense/{ID}

MedicationDispense.search

Http Method:	GET
Url Template:	[baseUrl]/MedicationDispense?patient={patient}

Conformance	Parameter (Combination)	Type	URL
SHALL	patient	reference	[baseUrl]/MedicationDispense?patient={patient}
SHOULD	patient+ status+ type	reference+ token+ token	[baseUrl]/MedicationDispense?patient={patient}&_include=MedicationDispense:medication

Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/MedicationDispense?patient=160595>

Response

```
{
  "resourceType": "Bundle",
  "id": "0911095b-21fd-4b4c-8ea4-8b64458bd9ae",
  "meta": {
    "lastUpdated": "2026-01-27T08:58:04+00:00"
  },
  "type": "searchset",
  "total": "4",
  "link": [
    {
      "relation": "self",
      "url": "https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationDispense?patient=160595"
    }
  ],
  "entry": [
    {
```



```
"fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationDispense/737658",
"resource": {
  "resourceType": "MedicationDispense",
  "id": "737658",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2022-11-10T09:59:02+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationdispense"
    ]
  },
  "identifier": [
    {
      "system": "https://github.com/inferno-framework/us-core-test-kit",
      "value": "1bc16d93-9ac8-4dc7-ad90-e649c01f8b19"
    }
  ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/275"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "context": {
    "reference": "Encounter/1359898"
  },
  "performer": [
    {
      "actor": {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    },
    {
      "actor": {
        "reference": "PractitionerRole/359"
      }
    },
    {
      "actor": {
        "reference": "Organization/2506",
        "display": "PCP87052"
      }
    }
  ],
  "authorizingPrescription": [
    {
      "reference": "MedicationRequest/737658",
      "display": "Furosemide 40 MG Oral Tablet"
    }
  ],
  "type": {
```



```
"coding": [
  {
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
    "code": "FFC",
    "display": "First Fill - Complete"
  }
],
"quantity": {
  "value": 480,
  "unit": "mL",
  "system": "http://unitsofmeasure.org",
  "code": "mL"
},
"whenHandedOver": "2016-12-08T06:38:52Z",
"dosageInstruction": [
  {
    "text": "10 mL bid",
    "timing": {
      "repeat": {
        "boundsPeriod": {
          "start": "2008-04-05"
        },
        "frequency": 2,
        "period": 1,
        "periodUnit": "d"
      }
    },
    "route": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "26643006",
          "display": "Oral route"
        }
      ]
    },
    "doseAndRate": [
      {
        "doseQuantity": {
          "value": 10,
          "unit": "ml",
          "system": "http://unitsofmeasure.org",
          "code": "mL"
        }
      }
    ]
  }
],
"search": {
  "mode": "match"
}
}
```



```
"fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationDispense/737659",
"resource": {
  "resourceType": "MedicationDispense",
  "id": "737659",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2022-11-10T10:01:56+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationdispense"
    ]
  },
  "identifier": [
    {
      "system": "https://github.com/inferno-framework/us-core-test-kit",
      "value": "1bc16d93-9ac8-4dc7-ad90-e649c01f8b19"
    }
  ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/136931"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "context": {
    "reference": "Encounter/1359898"
  },
  "performer": [
    {
      "actor": {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    },
    {
      "actor": {
        "reference": "PractitionerRole/359"
      }
    },
    {
      "actor": {
        "reference": "Organization/2506",
        "display": "PCP87052"
      }
    }
  ],
  "authorizingPrescription": [
    {
      "reference": "MedicationRequest/737659",
      "display": "Furosemide 40 MG Oral Tablet"
    }
  ],
  "type": {
```



```
"coding": [
  {
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
    "code": "FFC",
    "display": "First Fill - Complete"
  }
],
"quantity": {
  "value": 480,
  "unit": "mL",
  "system": "http://unitsofmeasure.org",
  "code": "mL"
},
"whenHandedOver": "2016-12-08T06:38:52Z",
"dosageInstruction": [
  {
    "text": "10 mL bid",
    "timing": {
      "repeat": {
        "boundsPeriod": {
          "start": "2008-04-05"
        },
        "frequency": 2,
        "period": 1,
        "periodUnit": "d"
      }
    },
    "route": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "26643006",
          "display": "Oral route"
        }
      ]
    },
    "doseAndRate": [
      {
        "doseQuantity": {
          "value": 10,
          "unit": "ml",
          "system": "http://unitsofmeasure.org",
          "code": "mL"
        }
      }
    ]
  }
],
"search": {
  "mode": "match"
}
}
```



```
"fullUrl":
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationDispense/737660",
"resource": {
  "resourceType": "MedicationDispense",
  "id": "737660",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2022-11-02T20:36:37+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-
medicationdispense"
    ]
  },
  "identifier": [
    {
      "system": "https://github.com/inferno-framework/us-core-test-kit",
      "value": "1bc16d93-9ac8-4dc7-ad90-e649c01f8b19"
    }
  ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/136972"
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "context": {
    "reference": "Encounter/1359898"
  },
  "performer": [
    {
      "actor": {
        "reference": "Practitioner/290",
        "display": "Poovarasan D111"
      }
    },
    {
      "actor": {
        "reference": "PractitionerRole/359"
      }
    },
    {
      "actor": {
        "reference": "Organization/2506",
        "display": "PCP87052"
      }
    }
  ],
  "authorizingPrescription": [
    {
      "reference": "MedicationRequest/737660",
      "display": "Furosemide 40 MG Oral Tablet"
    }
  ],
  "type": {
```



```
"coding": [
  {
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
    "code": "FFC",
    "display": "First Fill - Complete"
  }
],
"quantity": {
  "value": 480,
  "unit": "mL",
  "system": "http://unitsofmeasure.org",
  "code": "mL"
},
"whenHandedOver": "2016-12-08T06:38:52Z",
"dosageInstruction": [
  {
    "text": "10 mL bid",
    "timing": {
      "repeat": {
        "boundsPeriod": {
          "start": "2008-04-05"
        },
        "frequency": 2,
        "period": 1,
        "periodUnit": "d"
      }
    },
    "route": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "26643006",
          "display": "Oral route"
        }
      ]
    },
    "doseAndRate": [
      {
        "doseQuantity": {
          "value": 10,
          "unit": "ml",
          "system": "http://unitsofmeasure.org",
          "code": "mL"
        }
      }
    ]
  }
],
"search": {
  "mode": "match"
}
}
```



```
"fullUrl":  
"https://fhir.qsmartcare.com:2025/v/r4/fhir/MedicationDispense/737661",  
"resource": {  
  "resourceType": "MedicationDispense",  
  "id": "737661",  
  "meta": {  
    "versionId": "1",  
    "lastUpdated": "2022-11-10T07:40:08+00:00",  
    "profile": [  
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationdispense"  
    ]  
  },  
  "identifier": [  
    {  
      "system": "https://github.com/inferno-framework/us-core-test-kit",  
      "value": "1bc16d93-9ac8-4dc7-ad90-e649c01f8b19"  
    }  
  ],  
  "status": "completed",  
  "medicationReference": {  
    "reference": "Medication/5"  
  },  
  "subject": {  
    "reference": "Patient/160595"  
  },  
  "context": {  
    "reference": "Encounter/1359898"  
  },  
  "performer": [  
    {  
      "actor": {  
        "reference": "Practitioner/290",  
        "display": "Poovarasan D111"  
      }  
    },  
    {  
      "actor": {  
        "reference": "PractitionerRole/359"  
      }  
    },  
    {  
      "actor": {  
        "reference": "Organization/2506",  
        "display": "PCP87052"  
      }  
    }  
  ],  
  "authorizingPrescription": [  
    {  
      "reference": "MedicationRequest/737661",  
      "display": "Furosemide 40 MG Oral Tablet"  
    }  
  ],  
  "type": {
```



```
"coding": [
  {
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
    "code": "FFC",
    "display": "First Fill - Complete"
  }
],
"quantity": {
  "value": 480,
  "unit": "mL",
  "system": "http://unitsofmeasure.org",
  "code": "mL"
},
"whenHandedOver": "2016-12-08T06:38:52Z",
"dosageInstruction": [
  {
    "text": "10 mL bid",
    "timing": {
      "repeat": {
        "boundsPeriod": {
          "start": "2008-04-05"
        },
        "frequency": 2,
        "period": 1,
        "periodUnit": "d"
      }
    },
    "route": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "26643006",
          "display": "Oral route"
        }
      ]
    },
    "doseAndRate": [
      {
        "doseQuantity": {
          "value": 10,
          "unit": "ml",
          "system": "http://unitsofmeasure.org",
          "code": "mL"
        }
      }
    ]
  }
],
"search": {
  "mode": "match"
}
]
```



```
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue

Specimen

Specimen resource contains information about samples collected from a patient for laboratory or diagnostic testing. It tracks details about what was collected, from whom, how and when it was collected, and how it is stored or handled.

Specimen.read

Http Method:	GET
Url Template:	[baseUrl]/Specimen/{ID}

Specimen.search

Http Method:	GET
Url Template:	[baseUrl]/Specimen/{specimen_id}



Request:

<https://fhir.qsmartcare.com:2025/v/r4/sim/eyJrljoiMSIsImoiOilxliwiYil6ljE2MDU5NSJ9/fhir/Specimen/160595>

Response

```
{
  "resourceType": "Specimen",
  "id": "160595",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2026-01-27T09:01:06+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-specimen"
    ]
  },
  "identifier": [
    {
      "system": "https://github.com/inferno-framework/us-core-test-kit",
      "value": "82115a91-04c9-4654-acb5-72f2806e00fc"
    }
  ],
  "accessionIdentifier": {
    "system": "https://github.com/inferno-framework/us-core-test-kit",
    "value": "7446d969-3293-4f51-8d48-034121156b4e"
  },
  "type": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "122575003",
        "display": "Urine"
      }
    ]
  },
  "subject": {
    "reference": "Patient/160595"
  },
  "collection": {
    "collectedDateTime": "2021-10-19T00:00:00+00:00",
    "bodySite": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "106004",
          "display": "Posterior carpal region"
        }
      ]
    }
  },
  "container": [
    {
      "type": {
        "coding": [
```

```
{
  "system": "http://snomed.info/sct",
  "code": "702244006",
  "display": "Sterile urine specimen container"
},
"text": "Sterile urine specimen container"
},
],
"condition": [
  {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/v2-0493",
        "code": "AUT",
        "display": "Autolyzed"
      }
    ]
  }
]
}
```

Error Handling: In the event of an error, QSmartCare system will respond by supporting below error codes -

Supported HTTP codes:

HTTP Code	Severity	Description	Example
400	Error	Bad request	Invalid Parameters
401	Error	Unauthorized	Invalid Access Token
403	Error	Forbidden	Valid Access Token but not authorized for the requested scope
408	Error	Request time out	Service timed out
500	Error	Internal Server error	Server issue