

GOHEALTH OPEN SOURCE API

Technical Specification Document

NALASHAA SOLUTIONS

Index

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About this document

This document describes in detail the Request call to be made by a 3rd party client in order to fetch clinical information of a particular patient. This technical document comprises of API syntax, function names, required/optional parameters and their data types, return variables and types/structures, exceptions and exception handling methods and their return types.

In this document, all possible responses are listed under 'Responses' for each method. Only one of them is issued per request, by the server. All responses are in JSON format. Data presented in all responses is sample data. All request parameters are mandatory unless explicitly marked as [optional]

The document also contains description of JSON elements that are received in response for each resource.

Intended Audience

This document is intended for developers, technical architects, systems analysts, and/or any other entity who intends to develop a client that can fetch information for a particular patient using PatientAPI.

Conventions

- **Client** - Client application.
- **Status** - HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All responses are in JSON format. Data presented in all responses is sample data.
- All request parameters are mandatory unless explicitly marked as [optional]

About FHIR

FHIR is the latest standard to be developed under the HL7 organization. Pronounced as 'Fire'. **FHIR** stands for [Fast Healthcare Interoperability Resources](#).

Healthcare records are increasingly becoming digitized. As patients move around the healthcare ecosystem, their electronic health records must be available, discoverable, and understandable. Further, to support automated clinical decision support and other machine-based processing, the data must also be structured and standardized.

COMMUNICATION PROBLEMS IMPACT COST & QUALITY

- Healthcare providers waste 91 minutes per day with inefficient communication and workflows, costing hospitals \$1,750,000 annually.
- 49% of discharged patients experienced a medical error from a breakdown in communications and were 6.2 times more likely to be rehospitalized
- Only 5% of charts with calls had telephone notes, which leads to medical errors
- The primary root cause of over 70% of treatment delays and sentinel events was a breakdown in communications

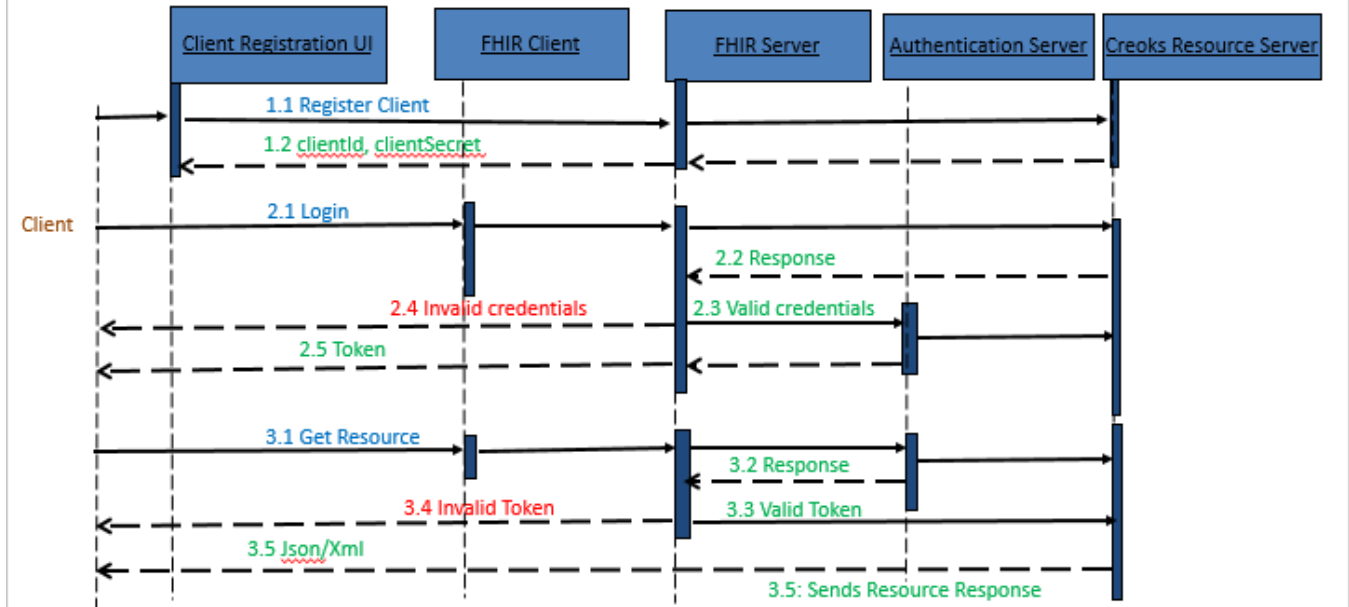
The solution to this problem is HIPAA-compliant communication platform which breaks down communication barriers, leading to improved care and lower cost

[HL7](#) has been addressing these challenges by producing healthcare data exchange and information modeling standards for over 20 years. FHIR is a new specification based on emerging industry approaches, but informed by years of lessons around requirements, successes and challenges gained through defining and implementing [HL7 v2](#), [HL7 v3](#) and the RIM, and [CDA](#). FHIR can be used as a stand-alone data exchange standard, but can and will also be used in partnership with existing widely used standards.

The current official release version of FHIR is Release 3 (STU) .

Creoks FHIR server is congruent RESTful web service developed on HL7 FHIR STU Release 3 standards. This document will give clear picture of the service communication and the FHIR resources

FHIR Sequence Diagram



Authorization

The below lines walk through OAuth2 authentication used by Creoks FHIR implementation.

Why OAuth 2.0?

OAuth 2.0 enables you to develop your application without having to build a credential management system. Instead of exposing a patient's login credentials to your application, your application and an EHR's authorization server exchange a series of authorization codes and access tokens. Your application can access protected patient data stored in an EHR's database only after it obtains authorization from the EHR's authorization server.

Using OAuth 2.0 to Access to Patient Data

Patient-facing applications must secure and protect the privacy of patients and their data. Currently, creoks supports using the OAuth 2.0 framework to authenticate and authorize public applications, which requires your application to ask for and receive the patient's permission from the creoks -using organization before accessing patient data

Register

Assumption is made that the client will be pre-registered and client details will be maintained in the database.

Creoks uses OAuth 2 for authentication and authorization. More about OAuth 2 is explained in the link <https://en.wikipedia.org/wiki/OAuth>.

FHIR Server Base URL – [http:// 61.12.69.243:9113 /fhir_server/](http://61.12.69.243:9113/fhir_server/)

Patient authentication

Patient has to authorize the third party application, to fetch his/her data from Creoks. Each patient (user) has a username and password in Creoks.

Creoks has exposed a public URL for the third party application to integrate to their systems for patient authentication.

URL to integrate with the third party application for patient authentication.

[http:// 61.12.69.243:9113 /fhir_client/ index.php/](http://61.12.69.243:9113/fhir_client/index.php/)

Patient has to give Authrep username and password here. After patient authenticates, patient will be redirected back to client application .The third party application has to include both these identifies in all the calls to get the patient data from Creoks , along with access token (oAuth token) and the client Id.

Login

Authenticate the user with the system and obtain the auth_token

1. Request

Method	URL
POST	api/api.php?method=clientLoginCheck

**Represents Mandatory*

Type	Params	Data Type
POST	client_id*	string
POST	client_secret*	string
POST	fhir_url	string
POST	login	string

2. Response

Status	Response
200	Control will be redirected to fhir server login page where the user will be authenticated
400	{"string": "Please provide client Id."}
400	{"string": "Please provide Client Secrete."}
403	{"string": "Incorrect client Id or Client Secrete."}
500	{"string": "Something went wrong. Please try again later."}

Resource Detail

This section provides the details for different resource level data which includes the URL, response in JSON format.

Patient

Method	URL
GET	api.php?method=getPatientDetail&identifier=1&loggedinId=1

Type	Params	Data Type
HEAD	Token*	String
GET	Identifier*	String
GET	loggedinId*	String

token

The `token` that was generated in response to `/api/login`

identifier

The patient id which needs to be passed as a parameter to get the patient details.

Response

Status	Response
200	<pre>[{ "resourceType": "Patient", "extension": [{ "valueString": "Declined To Specify", "url": "http://hl7.org/fhir/StructureDefinition/us-core-ra ce" }, { "valueString": "Alice" }, {</pre>

```
    "valueString": "European",
    "url": "http://hl7.org/fhir/StructureDefinition/us-core-race"
  },
  {
    "valueString": "Not Hispanic or Latino",
    "url": "http://hl7.org/fhir/StructureDefinition/us-core-ethnicity"
  },
  {
    "url": "http://hl7.org/fhir/StructureDefinition/us-core-ethnicity"
  }
],
"identifier": [
  {
    "use": "use",
    "value": "MHS300563"
  }
],
"name": [
  {
    "text": "Alice Jones Newman",
    "family": "Newman"
  }
],
"telecom": [
  {
    "system": "555.777.1234",
    "value": "555.723.1534"
  }
],
"gender": "Female",
"birthDate": "1970-05-01",
"address": [
  {
```

	<pre> "text": "1357,Amber Dr", "city": "Beaverton", "state": "OR", "postalCode": "97006", "country": "US" }], "communication": [{ "language": { "text": "English" }, "preferred": "1" }], "generalPractitioner": [{ "reference": "5JAW79", "display": "Clinical X Director" }] }] </pre>
204	{"string":"No Content."}
401	{"string":"Invalid Token."}
500	{"string":"Something went wrong. Please try again later."}

Below table shows details which are required for respective patients.

**Represents Mandatory*

Type	Params	Data Type
HEAD	Token*	String
GET	Identifier *	String
GET	Start Date	String(yyyy-mm-dd)
GET	End Date	String (yyyy-mm-dd)

token

The `token` that was generated in response to `/api/login`

Identifier

The id of the fhir user you want to search the data for.

Start Date

The date from which an Encounter of a patient has to be searched.

End Date

The date till which an Encounter of a patient has to be searched.

Allergy Intolerance

Method	URL
GET	api.php?method=allergyIntolerance&identifier=
Example	api.php?method=allergyIntolerance&identifier=1&sdate=&edate=&loggedinI=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "AllergyIntolerance", "identifier": [{ "value": "2375104094", "period": { "start": "2018-11-19", "end": "2018-11-19" } }], "clinicalStatus": "Active", "code": { "coding": [{ "system": "RXNorm", "display": "penicillin G" }] } }]</pre>

```
    }
  ]
},
"patient": {
  "identifier": {
    "value": "MHS300563"
  }
},
"onsetDateTime": "05/08/1980 00:00:00 EDT",
"onsetPeriod": {
  "start": "2018-11-19",
  "end": "2018-11-19"
},
"reaction": [
  {
    "manifestation": [
      {
        "coding": [
          {
            "version": "2.16.840.1.113883.6.96",
            "code": "247472004",
            "display": "Hives"
          }
        ]
      }
    ],
    "severity": "Moderate"
  }
],
"resourceType": "AllergyIntolerance",
"identifier": [
  {
    "value": "2375104096",
```

```
    "period": {
      "start": "2018-10-19",
      "end": "2018-10-19"
    }
  ],
  "clinicalStatus": "Active",
  "code": {
    "coding": [
      {
        "system": "RXNorm",
        "display": "ampicillin"
      }
    ]
  },
  "patient": {
    "identifier": {
      "value": "MHS300563"
    }
  },
  "onsetDateTime": "05/10/1980 00:00:00 EDT",
  "onsetPeriod": {
    "start": "2018-10-19",
    "end": "2018-10-19"
  },
  "reaction": [
    {
      "manifestation": [
        {
          "coding": [
            {
              "version": "2.16.840.1.113883.6.96",
              "code": "247472004",
              "display": "Hives"
            }
          ]
        }
      ]
    }
  ]
}
```

	<pre>] }], "severity": "Moderate" }] }] </pre>
204	<code>{"string": "No Content."}</code>
401	<code>{"string": "Invalid Token."}</code>
500	<code>{"string": "Something went wrong. Please try again later."}</code>

Medication

Method	URL
GET	fhir/api.php?method=medication&identifier=
Example	api.php?method=medication&identifier=1&sdate=&edate=&loggedinId=1&usrType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "MedicationAdministration", "identifier": [{ "value": "602830" }], "status": "In-Progress", "medicationCodeableConcept": { "coding": [{ "system": "RxnormID", "version": "2.16.840.1.113883.6.1", "code": "731241", "display": "darbepoetin alfa in polysorbat" }] }, "medicationReference": { "identifier": {</pre>

```
    "period": {
      "start": "2015-06-22",
      "end": "0000-00-00"
    }
  },
  "effectiveDateTime": "06/22/2015 14:30:00 EDT",
  "effectivePeriod": {
    "start": "2015-06-22",
    "end": "0000-00-00"
  },
  "dosage": {
    "route": {
      "text": "intramuscularly"
    },
    "method": {
      "text": "Inject"
    },
    "dose": {
      "value": "1",
      "unit": "ml"
    }
  },
  {
    "resourceType": "MedicationAdministration",
    "identifier": [
      {
```

```
        "value": "602831"
      }
    ],
    "status": "In-Progress",
    "medicationCodeableConcept": {
      "coding": [
        {
          "system": "RxnormID",
          "version": "2.16.840.1.113883.6.1",
          "code": "209459",
          "display": "acetaminophen"
        }
      ]
    },
    "medicationReference": {
      "identifier": {
        "period": {
          "start": "2015-06-21",
          "end": "2015-07-01"
        }
      }
    },
    "effectiveDateTime": "06/21/2015 14:30:00 EDT",
    "effectivePeriod": {
      "start": "2015-06-21",
      "end": "2015-07-01"
    },
    "dosage": {
```

```
"route": {
  "text": "by mouth"
},
"dose": {
  "value": "1",
  "unit": "mg"
}
},
{
  "resourceType": "MedicationAdministration",
  "identifier": [
    {
      "value": "602832"
    }
  ],
  "status": "Stopped",
  "medicationCodeableConcept": {
    "coding": [
      {
        "system": "RxnormID",
        "version": "2.16.840.1.113883.6.1",
        "code": "309090",
        "display": "ceftriaxone"
      }
    ]
  },
  "medicationReference": {
```

```
"identifier": {
  "period": {
    "start": "2015-06-21",
    "end": "2018-10-19"
  }
},
"effectiveDateTime": "06/21/2015 14:30:00 EDT",
"effectivePeriod": {
  "start": "2015-06-21",
  "end": "2018-10-19"
},
"dosage": {
  "route": {
    "text": "intramuscularly"
  },
  "dose": {
    "value": "1",
    "unit": "unit"
  }
},
{
  "resourceType": "MedicationAdministration",
  "identifier": [
    {
      "value": "602840"
    }
  ]
}
```

```
],
"status": "In-Progress",
"medicationCodeableConcept": {
  "coding": [
    {
      "system": "RxnormID",
      "version": "2.16.840.1.113883.6.1",
      "code": "284215",
      "display": "clindamycin hcl"
    }
  ]
},
"medicationReference": {
  "identifier": {
    "period": {
      "start": "2015-06-23",
      "end": "2015-06-30"
    }
  }
},
"effectiveDateTime": "06/23/2015 14:30:00 EDT",
"effectivePeriod": {
  "start": "2015-06-23",
  "end": "2015-06-30"
},
"dosage": {
  "route": {
    "text": "by mouth"
```

```
    },
    "method": {
      "text": "Take"
    },
    "dose": {
      "value": "1",
      "unit": "mg"
    }
  }
},
{
  "resourceType": "MedicationAdministration",
  "identifier": [
    {
      "value": "602865"
    }
  ],
  "status": "In-Progress",
  "medicationCodeableConcept": {
    "coding": [
      {
        "system": "RxnormID",
        "version": "2.16.840.1.113883.6.1",
        "code": "309090",
        "display": "ceftriaxone"
      }
    ]
  },
}
```

	<pre>"medicationReference": { "identifier": { "period": { "start": "2015-06-21", "end": "2015-06-29" } } }, "effectiveDateTime": "06/21/2015 14:30:00 EDT", "effectivePeriod": { "start": "2015-06-21", "end": "2015-06-29" }, "dosage": { "route": { "text": "intramuscularly" }, "dose": { "value": "1", "unit": "ml" } }]</pre>
204	{"string": "No Content."}

401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Condition

Method	URL
GET	api.php?method=condition&identifier=
Example	api.php?method=condition&identifier=1&sdate=&edate=&loggedinId=1&useType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Condition", "identifier": [[{ "value": "729" }]], "clinicalStatus": "Active", "category": [{ "coding": [</pre>

```
        {
          "display": "Problem-List_Item"
        }
      ]
    },
    "code": {
      "coding": [
        {
          "version": "2.16.840.1.113883.6.96",
          "code": "59621000",
          "display": "Essential hypertension"
        }
      ]
    },
    "onsetDateTime": "2011-10-05"
  },
  {
    "resourceType": "Condition",
    "identifier": [
      [
        {
          "value": "730"
        }
      ]
    ],
    "clinicalStatus": "Active",
    "category": [
      {
        "coding": [
          {
            "display": "Problem-List_Item"
          }
        ]
      }
    ]
  }
}
```

```
],
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
      "code": "83986005",
      "display": "Severe hypothyroidism (disorder)"
    }
  ]
},
"onsetDateTime": "2006-12-31"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "731"
      }
    ]
  ],
  "clinicalStatus": "Active",
  "category": [
    {
      "coding": [
        {
          "display": "Problem-List_Item"
        }
      ]
    }
  ]
},
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
```

```
        "code": "236578006",
        "display": "Chronic rejection of renal transplant
"
    }
]
},
"onsetDateTime": "2011-12-31"
},
{
"resourceType": "Condition",
"identifier": [
    [
        {
            "value": "732"
        }
    ]
],
"clinicalStatus": "Active",
"category": [
    {
        "coding": [
            {
                "display": "Problem-List_Item"
            }
        ]
    }
],
"code": {
    "coding": [
        {
            "version": "2.16.840.1.113883.6.96",
            "code": "386661006",
            "display": "Fever (finding)"
        }
    ]
}
```

```
    },
    "onsetDateTime": "2015-06-22"
  },
  {
    "resourceType": "Condition",
    "identifier": [
      [
        {
          "value": "733"
        }
      ]
    ],
    "clinicalStatus": "Resolved",
    "category": [
      {
        "coding": [
          {
            "display": "Problem-List_Item"
          }
        ]
      }
    ],
    "code": {
      "coding": [
        {
          "version": "2.16.840.1.113883.6.96",
          "code": "238131007",
          "display": "Overweight"
        }
      ]
    }
  },
  "onsetDateTime": "2006-12-31",
  "abatementDateTime": "2007-06-01"
},
{
```

	<pre> "resourceType": "Condition", "identifier": [[{ "value": "486" }]], "category": [{ "coding": [{ "display": "Encounter-Diagnosis" }] }], "code": { "coding": [{ "version": "2.16.840.1.113883.6.96", "code": "386661006", "display": "Fever (finding)" }] }] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Device

Method	URL
GET	api.php?method=device&identifier=
Example	http://localhost/fhir_server/api.php?method=implantableDevice&identifier=1&sdate=&edate=&loggedinId=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Device", "identifier": [{ "identifier": { "value": "43" } }], "udi": { "name": "Cardiac resynchronization therapy implantable defibrillator", "carrierHRF": "(01)00643169007222(17)160128(21)BLC200461H", "issuer": "GS1", "entryType": "manual" } }]</pre>

	<pre> }, "lotNumber": "NA", "manufacturer": "MEDTRONIC, INC.", "expirationDate": "2016-01-28", "patient": { "reference": "MHS300563", "identifier": { "period": { "start": "2018-10-19", "end": "2018-10-19" } } } }] </pre>
401	{"string":"Invalid Token."}
500	{"string":"Something went wrong. Please try again later."}

Goal

Method	URL
GET	api.php?method=goal&identifier=

Example	api.php?method=goal&identifier=1&sdate=&edate=&loggedinId=1&userType=patient
----------------	--

Response

Status	Response
200	<pre>[{ "resourceType": "Goal", "identifier": [{ "value": "85" }], "status": "In-Progress", "description": { "text": "a. Get rid of intermittent fever that is occurring every few weeks. \nb. Need to gain more energy to do regular activities" }, "subject": { "identifier": { "value": "MHS300563" }, "display": "Alice Newman" }, "startDate": "2018-10-19 11:50:33" }]</pre>

	<pre> }, { "resourceType": "Goal", "identifier": [{ "value": "93" }], "status": "In-Progress", "subject": { "identifier": { "value": "MHS300563" }, "display": "Alice Newman" }, "startDate": "2018-10-19 18:30:16" }] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Procedure

Method	URL
--------	-----

GET	api.php?method=procedure&identifier=
Example	http://localhost/fhir_server/api.php?method=procedure&identifier=1&state=&edate=&loggedinId=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Procedure", "status": "Completed", "code": { "coding": [{ "system": "CPT", "version": "2.16.840.1.113883.6.12", "code": "56251003", "display": "Nebulizer therapy" }] }, "performedDateTime": "2015-06-22", "bodySite": [{ "coding": [{</pre>

```
        "version": "82094008",
        "display": "Lower respiratory tract structure (
body structure)"
    }
]
}
],
},
{
    "resourceType": "Procedure",
    "status": "Completed",
    "code": {
        "coding": [
            {
                "system": "CPT",
                "version": "2.16.840.1.113883.6.12",
                "code": "175135009",
                "display": "Introduction of cardiac pacemaker sys
tem via vein"
            }
        ]
    },
    "performedDateTime": "2011-10-05",
    "bodySite": [
        {
            "coding": [
                {
                    "version": "9454009",
```

	<pre> "display": "Subclavian vein" }] }] }]</pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Immunization

Method	URL
GET	api/api.php?method=immunization&identifier=
Example	api.php?method=immunization&identifier=1&sdate=&edate=&loggedinId=1&serType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Immunization", "identifier": [{ "value": "258" }], "status": "Active", "vaccineCode": { "coding": [{ "system": "CVX", "version": "2.16.840.1.113883.12.292", "code": "106", "display": "DTaP, 5 pertussis antigens" }] }, "patient": { "identifier": { "value": "MHS300563" }, "display": "Alice Newman" } }]</pre>

```
    },
    "date": "2015-06-22",
    "manufacturer": {
      "reference": "OTH",
      "display": "Other manufacturer"
    },
    "lotNumber": "2",
    "expirationDate": "2019-02-28",
    "site": {
      "coding": [
        {
          "display": "Left Deltoid"
        }
      ]
    },
    "route": {
      "coding": [
        {
          "display": "BUCCAL"
        }
      ]
    },
    "doseQuantity": {
      "value": "1",
      "unit": "mL"
    }
  },
  {
```

```
"resourceType": "Immunization",
"identifier": [
  {
    "value": "259"
  }
],
"status": "Active",
"vaccineCode": {
  "coding": [
    {
      "system": "CVX",
      "version": "2.16.840.1.113883.12.292",
      "code": "166",
      "display": "influenza, intradermal, quadrivalent,
preservative free"
    }
  ]
},
"patient": {
  "identifier": {
    "value": "MHS300563"
  },
  "display": "Alice Newman"
},
"date": "2015-06-22",
"manufacturer": {
  "reference": "OTH",
  "display": "Other manufacturer"
```


	<pre> }, "doseQuantity": { "value": "1", "unit": "mL" } }] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

CareTeam

Method	URL
GET	api.php?method=carePlanCareTeam&identifier=
Example	api.php?method=careTeam&identifier=1&sdate=&edate=&loggedinId=1&user type=patient

Response

Status	Response
200	<pre>[{ "resourceType": "CareTeam", "status": "Active", "participant": [{ "role": { "text": "Medical Practitioner" }, "member": { "display": "Albert Davis" } }, { "role": { "text": "Medical Practitioner" }, "member": { "display": "Tracy Davis" } }], "managingOrganization": [{</pre>

	<pre> "display": "Neighborhood Physicians Practice" }] }] </pre>
204	<code>{"string": "No Content."}</code>
401	<code>{"string": "Invalid Token."}</code>
500	<code>{"string": "Something went wrong. Please try again later."}</code>

LabOrders

Method	URL
GET	<code>api.php?method=labResult&identifier=</code>
Example	<code>api.php?method=labResult&identifier=1&sdate=&edate=&loggedinId=1&useType=patient</code>

Response

Status	Response
200	<pre>[{ "resourceType": "Observation", "identifier": [{ "value": "105" }], "status": "FINAL", "category": [{ "coding": [{ "system": "Observation Category Codes", "version": "2.16.840.1.113883.4.642.3.392", "code": "LABORATORY", "display": "LABORATORY" }] }], "code": { "coding": [{</pre>

```
    "system": "LOINC",
    "version": "2.16.840.1.113883.6.1",
    "code": "24357-6",
    "display": "Urinalysis macro (dipstick) panel - U
rine"
  }
]
},
"effectiveDateTime": "2015-06-22",
"valueQuantity": {
  "value": "YELLOW"
},
"interpretation": {
  "coding": [
    {
      "code": "Normal "
    }
  ]
},
"referenceRange": [
  {
    "text": "YELLOW"
  }
]
},
{
  "resourceType": "Observation",
  "identifier": [
```

```
{
  "value": "106"
},
"status": "FINAL",
"category": [
  {
    "coding": [
      {
        "system": "Observation Category Codes",
        "version": "2.16.840.1.113883.4.642.3.392",
        "code": "LABORATORY",
        "display": "LABORATORY"
      }
    ]
  }
],
"code": {
  "coding": [
    {
      "system": "LOINC",
      "version": "2.16.840.1.113883.6.1",
      "code": "24357-6",
      "display": "Urinalysis macro (dipstick) panel - U
rine"
    }
  ]
},
```

```
"effectiveDateTime": "2015-06-22",
"valueQuantity": {
  "value": "CLEAR"
},
"interpretation": {
  "coding": [
    {
      "code": "Normal"
    }
  ]
},
"referenceRange": [
  {
    "text": "CLEAR"
  }
],
{
  "resourceType": "Observation",
  "identifier": [
    {
      "value": "107"
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
```

```
    {
      "system": "Observation Category Codes",
      "version": "2.16.840.1.113883.4.642.3.392",
      "code": "LABORATORY",
      "display": "LABORATORY"
    }
  ]
}
],
"code": {
  "coding": [
    {
      "system": "LOINC",
      "version": "2.16.840.1.113883.6.1",
      "code": "24357-6",
      "display": "Urinalysis macro (dipstick) panel - U
rine"
    }
  ]
},
"effectiveDateTime": "2015-06-22",
"valueQuantity": {
  "value": "1.015",
  "unit": "ml"
},
"interpretation": {
  "coding": [
    {
```



```
        "code": "Normal"
      }
    ]
  },
  "referenceRange": [
    {
      "low": {
        "value": "1.005",
        "unit": "ml"
      },
      "high": {
        "value": "1.030",
        "unit": "ml"
      }
    }
  ]
},
{
  "resourceType": "Observation",
  "identifier": [
    {
      "value": "108"
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
```

```
    {
      "system": "Observation Category Codes",
      "version": "2.16.840.1.113883.4.642.3.392",
      "code": "LABORATORY",
      "display": "LABORATORY"
    }
  ]
},
"code": {
  "coding": [
    {
      "system": "LOINC",
      "version": "2.16.840.1.113883.6.1",
      "code": "24357-6",
      "display": "Urinalysis macro (dipstick) panel - U
rine"
    }
  ]
},
"effectiveDateTime": "2015-06-22",
"valueQuantity": {
  "value": "5.0",
  "unit": "[pH]"
},
"interpretation": {
  "coding": [
    {
```

```
        "code": "Normal"
      }
    ]
  },
  "referenceRange": [
    {
      "low": {
        "value": "5.0",
        "unit": "[pH]"
      },
      "high": {
        "value": "8.0",
        "unit": "[pH]"
      }
    }
  ]
},
{
  "resourceType": "Observation",
  "identifier": [
    {
      "value": "109"
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
```

```
    {
      "system": "Observation Category Codes",
      "version": "2.16.840.1.113883.4.642.3.392",
      "code": "LABORATORY",
      "display": "LABORATORY"
    }
  ]
}
],
"code": {
  "coding": [
    {
      "system": "LOINC",
      "version": "2.16.840.1.113883.6.1",
      "code": "24357-6",
      "display": "Urinalysis macro (dipstick) panel - U
rine"
    }
  ]
},
"effectiveDateTime": "2015-06-22",
"valueQuantity": {
  "value": "50",
  "unit": "mg/dL"
},
"interpretation": {
  "coding": [
    {
```

```
        "code": "Neg"
      }
    ]
  },
  "referenceRange": [
    {
      "text": "Neg"
    }
  ]
},
{
  "resourceType": "Observation",
  "identifier": [
    {
      "value": "110"
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
        {
          "system": "Observation Category Codes",
          "version": "2.16.840.1.113883.4.642.3.392",
          "code": "LABORATORY",
          "display": "LABORATORY"
        }
      ]
    }
  ]
}
```

```
    }
  ],
  "code": {
    "coding": [
      {
        "system": "LOINC",
        "version": "2.16.840.1.113883.6.1",
        "code": "24357-6",
        "display": "Urinalysis macro (dipstick) panel - U
rine"
      }
    ]
  },
  "effectiveDateTime": "2015-06-22",
  "valueQuantity": {
    "value": "Negative"
  },
  "interpretation": {
    "coding": [
      {
        "code": "Normal"
      }
    ]
  },
  "referenceRange": [
    {
      "text": "Negative"
    }
  ]
}
```

```
]
},
{
  "resourceType": "Observation",
  "identifier": [
    {
      "value": "111"
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
        {
          "system": "Observation Category Codes",
          "version": "2.16.840.1.113883.4.642.3.392",
          "code": "LABORATORY",
          "display": "LABORATORY"
        }
      ]
    }
  ],
  "code": {
    "coding": [
      {
        "system": "LOINC",
        "version": "2.16.840.1.113883.6.1",
        "code": "24357-6",
```

```
        "display": "Urinalysis macro (dipstick) panel - U  
rine"  
    }  
]  
},  
"effectiveDateTime": "2015-06-22",  
"valueQuantity": {  
    "value": "100",  
    "unit": "mg/dL"  
},  
"interpretation": {  
    "coding": [  
        {  
            "code": "Normal "  
        }  
    ]  
},  
"referenceRange": [  
    {  
        "text": "Negative"  
    }  
]  
},  
{  
    "resourceType": "Observation",  
    "identifier": [  
        {  
            "value": "113"        }  
    ]  
}
```



```
    }
  ],
  "status": "FINAL",
  "category": [
    {
      "coding": [
        {
          "system": "Observation Category Codes",
          "version": "2.16.840.1.113883.4.642.3.392",
          "code": "RADIOLOGY",
          "display": "RADIOLOGY"
        }
      ]
    }
  ],
  "code": {
    "coding": [
      {
        "system": "LOINC",
        "version": "2.16.840.1.113883.6.1",
        "code": "36643-5",
        "display": "XR Chest 2 views"
      }
    ]
  },
  "effectiveDateTime": "2015-06-22",
  "interpretation": {
    "coding": [
```

	<pre> { "code": "Lungs are not clear, cannot rule out Anemia. Other tests are required to determine the presence or absence of Anemia" }] } }] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

CarePlan Assessment

Method	URL
GET	api.php?method=carePlanAssesment&identifier=
Example	api.php?method=carePlanAssesment&identifier=1&sdate=&edate=&loggedind=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "CarePlan", "identifier": [{ "value": "74" }], "title": "ASSESSMENT", "description": "ASSESSMENT", "period": { "start": "2018-10-19 11:50:33", "end": "2018-10-19 11:50:33" }, "activity": [{ "detail": { "code": { "text": "The patient was found to have fever and Dr Davis is suspecting Anemia based on the patient history. So Dr Davis asked the patient to closely monitor the temperature and blood pressure and get admitted to Community Health Hospitals if the fever does not subside within a day." } } }], },],</pre>

	<pre> {}] }] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

HealthConcern

Method	URL
GET	api.php?method=healthConcerns&identifier=
Example	api.php?method=healthConcerns&identifier=1&sdate=&edate=&loggedinId=&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Condition", "identifier": [[{ "value": "35" }]], "category": [{ "coding": [{ "display": "Problem-List_Item" }] }], "code": { "coding": [{ "version": "2.16.840.1.113883.6.96", "code": "59621000", "display": "Essential hypertension" }] } }]</pre>

```
    ]
  },
  "onsetDateTime": "2015-06-22",
  "abatementDateTime": "2015-06-22"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "36"
      }
    ]
  ],
  "category": [
    {
      "coding": [
        {
          "display": "Problem-List_Item"
        }
      ]
    }
  ],
  "code": {
    "coding": [
      {
        "version": "2.16.840.1.113883.6.96",
        "code": "83986005",
```

```
        "display": "Severe hypothyroidism (disorder)"
      }
    ]
  },
  "onsetDateTime": "2016-06-22",
  "abatementDateTime": "2016-06-22"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "39"
      }
    ]
  ],
  "category": [
    {
      "coding": [
        {
          "display": "Problem-List_Item"
        }
      ]
    }
  ],
  "code": {
    "coding": [
      {
```

```
        "version": "2.16.840.1.113883.6.96",
        "code": "59621000",
        "display": "Essential hypertension"
    }
]
},
"onsetDateTime": "2018-10-04",
"abatementDateTime": "2018-10-04"
},
{
    "resourceType": "Condition",
    "identifier": [
        [
            {
                "value": "40"
            }
        ]
    ],
    "category": [
        {
            "coding": [
                {
                    "display": "Problem-List_Item"
                }
            ]
        }
    ],
    "code": {
```



```
"coding": [
  {
    "version": "2.16.840.1.113883.6.96",
    "code": "236578006",
    "display": "Chronic rejection of renal transplant
"
  }
],
"onsetDateTime": "2018-10-04",
"abatementDateTime": "2018-10-04"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "41"
      }
    ]
  ],
  "category": [
    {
      "coding": [
        {
          "display": "Problem-List_Item"
        }
      ]
    }
  ]
}
```

```
    }
  ],
  "code": {
    "coding": [
      {
        "version": "2.16.840.1.113883.6.96",
        "code": "238131007",
        "display": "Overweight"
      }
    ]
  },
  "onsetDateTime": "2018-10-05",
  "abatementDateTime": "2018-10-05"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "42"
      }
    ]
  ],
  "category": [
    {
      "coding": [
        {
          "display": "Problem-List_Item"
        }
      ]
    }
  ]
}
```

```
    }
  ]
}
],
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
      "code": "386661006",
      "display": "Fever (finding)"
    }
  ]
},
"onsetDateTime": "2018-10-19",
"abatementDateTime": "2018-10-19"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "61"
      }
    ]
  ],
  "category": [
    {
      "coding": [
```

```
    {
      "display": "Problem-List_Item"
    }
  ]
}
],
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
      "code": "0",
      "display": "Watch Weight of patient"
    }
  ]
},
"onsetDateTime": "2015-06-22",
"abatementDateTime": "2015-06-22"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "62"
      }
    ]
  ],
  "category": [
```

```
{
  "coding": [
    {
      "display": "Problem-List_Item"
    }
  ]
},
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
      "code": "0",
      "display": "Watch Weight of patient"
    }
  ]
},
"onsetDateTime": "2015-06-22",
"abatementDateTime": "2015-06-22"
},
{
  "resourceType": "Condition",
  "identifier": [
    [
      {
        "value": "64"
      }
    ]
  ]
}
```

```
],
"category": [
  {
    "coding": [
      {
        "display": "Problem-List_Item"
      }
    ]
  }
],
"code": {
  "coding": [
    {
      "version": "2.16.840.1.113883.6.96",
      "code": "0",
      "display": "dfsdf"
    }
  ]
},
"onsetDateTime": "2018-10-26",
"abatementDateTime": "2018-10-26"
}
]
```

204 {"string": "No Content."}

401 {"string": "Invalid Token."}

500	{"string": "Something went wrong. Please try again later."}
-----	---

CARE PLAN

Method	URL
GET	api.php?method=carePlanCareTeam&identifier=
Example	api.php?method=carePlanCareTeam&identifier=1&sdate=&edate=&loggedinI=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "CarePlan", "identifier": [{ "value": "138" }], "status": "Active", "intent": "PLAN", "subject": { "reference": "MHS300563", "display": "Alice Newman" }, "activity": [</pre>

```
{
  "detail": {
    "category": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/care-plan-activity-category",
          "code": "medication"
        }
      ]
    },
    "code": {
      "coding": [
        {
          "system": "http://loinc.org",
          "code": "284215",
          "display": "clindamycin hcl"
        }
      ]
    },
    "scheduledPeriod": {
      "start": "2018-10-23 00:00:00",
      "end": "06/30/2015 14:30:00 EDT"
    }
  }
},
{
  "detail": {
    "category": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/care-plan-activity-category",
          "code": "radiology"
        }
      ]
    }
  }
}
```



```
    ]
  },
  "code": {
    "coding": [
      {
        "system": "http://loinc.org",
        "code": "18844-1",
        "display": "EKG impression Narrative"
      }
    ]
  },
  "scheduledPeriod": {
    "start": "2015-06-23 00:00:00"
  }
},
{
  "detail": {
    "category": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/care-plan-activity-category",
          "code": "radiology"
        }
      ]
    },
    "code": {
      "coding": [
        {
          "system": "http://loinc.org",
          "code": "75194-1",
          "display": "Long bone x-rays were performed and consistent with congenital syphilis [CDC.CS]"
        }
      ]
    }
  }
}
```

```
    ]
  },
  "scheduledPeriod": {
    "start": "2015-06-23 00:00:00"
  }
},
{
  "detail": {
    "category": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/care-plan-activity-category",
          "code": "encounter"
        }
      ]
    },
    "code": {
      "coding": [
        {
          "system": "http://loinc.org",
          "code": "99215",
          "display": "Established Patient: Evaluation and Management"
        }
      ]
    }
  }
},
  "scheduledPeriod": {
    "start": "2015-07-01 00:00:00"
  }
},
{
  "detail": {
```

```

        "category": {
          "coding": [
            {
              "system": "http://hl7.org/fhir/care-plan-activity-category",
              "code": "laboratory"
            }
          ],
          "code": {
            "coding": [
              {
                "system": "http://loinc.org",
                "code": "24357-6",
                "display": "Urinalysis macro (dipstick) panel - Urine"
              }
            ]
          },
          "scheduledPeriod": {
            "start": "2015-06-29 00:00:00"
          }
        }
      ]
    }
  ]

```

204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Smokingstatus

Method	URL
GET	api.php?method=smokingStatus&identifier=
Example	api.php?method=smokingStatus&identifier=1&sdate=&edate=&loggedinId=1 userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Observation", "category": [{ "coding": [{ "system": "Observation Category Codes", "version": "2.16.840.1.113883.4.642.3.392", "code": "social-history", "display": "SOCIAL HISTORY" }] }], "code": {</pre>

```
"coding": [  
  {  
    "system": "LOINC",  
    "version": "2.16.840.1.113883.6.1",  
    "code": "72166-2",  
    "display": "Tobacco smoking status"  
  }  
]  
},  
"effectivePeriod": {  
  "start": "2017-12-13",  
  "end": "2017-12-13"  
},  
"valueCodeableConcept": {  
  "coding": [  
    {  
      "system": "SNOMED CT",  
      "version": "2.16.840.1.113883.6.96",  
      "code": "449868002",  
      "display": "Current every day smoker"  
    }  
  ]  
},  
"valuePeriod": {  
  "start": "2017-12-13",  
  "end": "2017-12-13"  
},  
},  
{
```

```
"resourceType": "Observation",
"category": [
  {
    "coding": [
      {
        "system": "Observation Category Codes",
        "version": "2.16.840.1.113883.4.642.3.392",
        "code": "social-history",
        "display": "SOCIAL HISTORY"
      }
    ]
  }
],
"code": {
  "coding": [
    {
      "system": "LOINC",
      "version": "2.16.840.1.113883.6.1",
      "code": "72166-2",
      "display": "Tobacco smoking status"
    }
  ]
},
"effectivePeriod": {
  "start": "2017-12-19",
  "end": "2017-12-19"
},
"valueCodeableConcept": {
  "coding": [
```

	<pre> { "system": "SNOMED CT", "version": "2.16.840.1.113883.6.96", "code": "449868002", "display": "Current every day smoker" }] }, "valuePeriod": { "start": "2017-12-19", "end": "2017-12-19" }, }, },] </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Observation Vitals

Method	URL
--------	-----

GET	api.php?method=observationVitals&identifier=
Example	api.php?method=observationVitals&identifier=1&sdate=&edate=&loggedind=1&userType=patient

Response

Status	Response
200	<pre>[{ "resourceType": "Observation", "extension": [{ "valueQuantity": { "value": "177", "unit": "cm", "code": "8302-2" }, "url": "http://hl7.org/fhir/StructureDefinition/bodyheight" }, { "valueQuantity": { "value": "88", "unit": "kg", "code": "29463-7" } }] }]</pre>


```
    },
    "url": "http://hl7.org/fhir/StructureDefinition/bodyweight",
  },
  {
    "valueQuantity": {
      "value": "18",
      "unit": "{beats}/min",
      "code": "9279-1"
    },
    "url": "http://hl7.org/fhir/StructureDefinition/resprate",
  },
  {
    "valueQuantity": {
      "value": "80",
      "unit": "{beats}/min",
      "code": "8867-4"
    },
    "url": "http://hl7.org/fhir/StructureDefinition/hearttrate",
  },
  {
    "valueQuantity": {
      "value": "38",
      "unit": "%",
      "code": "59408-5"
    },
  },
```

```
    "url": "http://hl7.org/fhir/StructureDefinition/oxygenat",
  },
  {
    "valueQuantity": {
      "value": "38",
      "unit": "C",
      "code": "8310-5"
    },
    "url": "http://hl7.org/fhir/StructureDefinition/bodytemp"
  },
  {
    "valueQuantity": {
      "value": "145",
      "unit": "mmHg",
      "code": "8480-6"
    },
    "url": "http://hl7.org/fhir/StructureDefinition/bp"
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  {
    "valueQuantity": {
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      "code": "8462-4"
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    ],
    "identifier": [
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        "value": "25455"
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    ],
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        {
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          "version": "2.16.840.1.113883.6.1"
        }
      ]
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    "effectiveDateTime": "1539930822",
    "effectivePeriod": {
      "start": "2015-06-22",
      "end": "2015-06-22"
    }
  }
]

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204

{"string": "No Content."}

401

{"string": "Invalid Token."}

500

{"string": "Something went wrong. Please try again later."}

CCDA

Method	URL
GET	api.php?method=ccda&identifier=1

Response

Status	Response
200	<pre><ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <realmCode code="US"/> <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/> <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01"/> <templateId root="2.16.840.1.113883.10.20.22.1.1"/> <templateId root="2.16.840.1.113883.10.20.22.1.2" extension="2015-08-01"/> <templateId root="2.16.840.1.113883.10.20.22.1.2"/> <id root="2.16.840.1.113883.19.5.99999.1" extension="TT106"/> <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Summarization of Episode Note"/> <title>Clinical Summary of ALICE NEWMAN</title> <effectiveTime value="20181120"/> <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="Confidentiality" displayName="Normal"/> <languageCode code="en-US"/> <setId root="2.16.840.1.113883.19.5.99999.19" extension="sTT106"/> <versionNumber value="2"/> <recordTarget></pre>

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    <city>Beaverton</city>
    <postalCode>97006</postalCode>
    <streetAddressLine>1357,Amber Dr</streetAddressLine>
  </addr>
  <telecom value="tel:+5557771234" use="HP"/>
  <telecom value="tel:+5557231534" use="MC"/>
  <patient>
    <name use="L">
      <given>ALICE</given>
      <given>JONES</given>
      <family>NEWMAN</family>
    </name>
    <name>
      <given qualifier="BR">ALICIA</given>
      <given>JONES</given>
      <family qualifier="BR">NEWMAN</family>
    </name>
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codeSystemName="AdministrativeGender" displayName="Female"/>
    <birthTime value="19700501"/>
    <raceCode code="2106-3" codeSystem="2.16.840.1.113883.6.238"
codeSystemName="Race & Ethnicity - CDC" displayName="White"/>
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codeSystemName="Race & Ethnicity - CDC" displayName="European"/>
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codeSystemName="Race & Ethnicity - CDC" displayName="Not Hispanic
or Latino"/>
    <languageCommunication>
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    <addr use="WP">
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      <state>OR</state>
      <city>Beaverton</city>
      <postalCode>97006</postalCode>
      <streetAddressLine>2472 Rocky Place</streetAddressLine>
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```

```
</patientRole>
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    <telecom value="tel:+555-555-1002" use="WP"/>
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      <family>Davis</family>
      <prefix>Dr</prefix>
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</author>
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      <family>Director</family>
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    <family>Davis</family>
    <prefix>Dr</prefix>
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        <family>Davis</family>
        <prefix>Dr</prefix>
      </name>
    </informationRecipient>
  </intendedRecipient>
  <receivedOrganization>
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</informationRecipient>
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      <family>Davis</family>
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      <state>OR</state>
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        <family>Davis</family>
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  </assignedEntity>
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  <serviceEvent classCode="PCPR">
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      <high value="20181120"/>
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    <performer typeCode="PPRF">
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      <family>Davis</family>
      <prefix>Dr</prefix>
    </name>
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    <telecom value="tel:555-555-1002" use="WP"/>
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      <state>OR</state>
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      <postalCode>97006</postalCode>
      <streetAddressLine>2472 Rocky Place</streetAddressLine>
    </addr>
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        <given>Tracy</given>
        <family>Davis</family>
      </name>
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      <telecom value="tel:555-555-1002" use="WP"/>
      <addr use="WP">
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        <state>OR</state>
        <city>Beaverton</city>
        <postalCode>97006</postalCode>
        <streetAddressLine>2472 Rocky Place</streetAddressLine>
      </addr>
    </representedOrganization>
  </assignedEntity>
</performer>
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</serviceEvent>
</documentationOf>
<componentOf>
  <encompassingEncounter>
    <id root="2.16.840.1.113883.19"/>
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codeSystemName="ActCode" displayName="Ambulatory"/>
    <effectiveTime>
      <low value="19700501"/>
      <high value="20181120"/>
    </effectiveTime>
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
displayName="testDisplayName"/>
    <location>
      <healthCareFacility>
        <code code="103T00000X" codeSystem="2.16.840.1.114222.4.11.1066"
displayName="Neighborhood Physicians Practice"/>
      </healthCareFacility>
    </location>
  </encompassingEncounter>
</componentOf>
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        <templateId root="2.16.840.1.113883.10.20.22.2.6.1"/>
        <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
        <title>ALLERGIES AND ADVERSE REACTIONS</title>
        <text mediaType="text/x-hl7-text+xml">
          <table width="100%" border="1">
            <thead>
              <tr>
                <th>Substance</th>
                <th>Reaction</th>
                <th>Severity</th>
                <th>Status</th>
                <th>RxNorm Id</th>
              </tr>
            </thead>
            <tbody>
              <tr>
                <td ID="product1">penicillin G</td>
                <td ID="reaction1">Hives</td>
                <td ID="severity1">Moderate</td>
              </tr>
            </tbody>
          </table>
        </text>
      </section>
    </component>
  </structuredBody>
</component>

```

```

        <td>active</td>
        <td> (RxNorm)</td>
    </tr>
    <tr>
        <td ID="product2">ampicillin</td>
        <td ID="reaction2">Hives</td>
        <td ID="severity2">Moderate</td>
        <td>active</td>
        <td> (RxNorm)</td>
    </tr>
</tbody>
</table>
</text>
<entry typeCode="DRIV">
    <act classCode="ACT" moodCode="EVN">
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01"/>
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        <id root="2add4723-4728-472a-472c-bf402add472e"/>
        <code code="CONC" codeSystem="2.16.840.1.113883.5.6"/>
        <statusCode code="active"/>
        <effectiveTime>
            <low value="19800805"/>
        </effectiveTime>
        <entryRelationship typeCode="SUBJ">
            <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-0
09"/>
                <templateId root="2.16.840.1.113883.10.20.22.4.7"/>
                <id root="2adf400f-4019-401c-401f-bf402adf4021"/>
                <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
                <statusCode code="completed"/>
                <effectiveTime>
                    <low value="19800805"/>
                </effectiveTime>
                <value code="419511003" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Propensity to adverse reaction to
drug" xsi:type="CD">
                    <originalText>
                        <reference value="#reaction1"/>
                    </originalText>
                </value>
                <participant typeCode="CSM">
                    <participantRole classCode="MANU">
                        <playingEntity classCode="MMAT">
                            <code codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" displayName="penicillin G">
                                <originalText>

```

```

        <reference value="#product1"/>
    </originalText>
</code>
</playingEntity>
</participantRole>
</participant>
<entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014
06-09"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.9"/>
        <id root="2ae25072-5076-5078-507a-bf402ae2507c"/>
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
        <statusCode code="completed"/>
        <effectiveTime>
            <low value="19800805"/>
        </effectiveTime>
        <value code="247472004" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Hives" xsi:type="CD">
            <originalText>
                <reference value="#reaction1"/>
            </originalText>
        </value>
    </observation>
</entryRelationship>
<entryRelationship typeCode="REFR" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.8"/>
        <code code="SEV" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="ActCode" displayName="Severity Observation" xsi:type="CE"/>
        <text>
            <reference value="#severity1"/>
        </text>
        <statusCode code="completed"/>
        <value code="6736007" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Moderate" xsi:type="CD"/>
    </observation>
</entryRelationship>
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</entryRelationship>
</act>
</entry>
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    <act classCode="ACT" moodCode="EVN">
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01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.30"/>
        <id root="2ae2cbd2-cbd6-cbd8-cbda-bf402ae2cbdb"/>

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```

<code code="CONC" codeSystem="2.16.840.1.113883.5.6"/>
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    <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-0
09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.7"/>
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    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
    <statusCode code="completed"/>
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    </effectiveTime>
    <value code="419511003" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Propensity to adverse reaction t
drug" xsi:type="CD">
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        <reference value="#reaction1"/>
      </originalText>
    </value>
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      <participantRole classCode="MANU">
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codeSystemName="RxNorm" displayName="ampicillin">
            <originalText>
              <reference value="#product2"/>
            </originalText>
          </code>
        </playingEntity>
      </participantRole>
    </participant>
    <entryRelationship typeCode="MFST" inversionInd="true">
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codeSystemName="SNOMED CT" displayName="Hives" xsi:type="CD">

```

```

        <originalText>
          <reference value="#reaction2"/>
        </originalText>
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codeSystemName="ActCode" displayName="Severity Observation" xsi:type="CE"/>
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        <reference value="#severity2"/>
      </text>
      <statusCode code="completed"/>
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codeSystemName="SNOMED CT" displayName="Moderate" xsi:type="CD"/>
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</observation>
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</entry>
</section>
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    <code code="10160-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="HISTORY OF MEDICATION USE"/>
    <title>MEDICATIONS</title>
    <text>
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>Medication</th>
            <th>Directions</th>
            <th>Start Date</th>
            <th>End Date</th>
            <th>RxNorm</th>
            <th>Route</th>
            <th>Dose</th>
          </tr>
        </thead>
        <tbody>
          <tr>

```

<td>Aranesp (in polysorbate)</td>
<td>once a week</td>
<td>20150622</td>
<td>NA</td>
<td>731241 (RxNorm)</td>
<td>intramuscularly</td>
<td>1 Unit</td>

</tr>

<tr>

<td>Tylenol Extra Strength</td>
<td>single dose</td>
<td>20150621</td>
<td>20150701</td>
<td>209459 (RxNorm)</td>
<td>by mouth</td>
<td>1 Unit</td>

</tr>

<tr>

<td>clindamycin HCl</td>
<td>three times a day</td>
<td>20150623</td>
<td>20150630</td>
<td>284215 (RxNorm)</td>
<td>by mouth</td>
<td>1 Unit</td>

</tr>

<tr>

<td>ceftriaxone</td>
<td>twice a day</td>
<td>20150621</td>
<td>20150629</td>
<td>309090 (RxNorm)</td>
<td>intramuscularly</td>
<td>1 Unit</td>

</tr>

</tbody>

</table>

</text>

<entry typeCode="DRIV">

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<statusCode code="active"/>

<effectiveTime xsi:type="IVL_TS">

<low value="20150622"/>

</effectiveTime>

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<routeCode code="C28161" codeSystem="2.16.840.1.113883.3.26.1.1"
codeSystemName="NCI Thesaurus" displayName="intramuscularly"/>
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<consumable>
  <manufacturedProduct classCode="MANU">
    <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-
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    <manufacturedMaterial>
      <code code="731241" codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" displayName="Aranesp (in polysorbate)">
        <originalText>Take 1 syringe once a week </originalText>
      </code>
    </manufacturedMaterial>
  </manufacturedProduct>
</consumable>
</substanceAdministration>
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    <effectiveTime xsi:type="IVL_TS">
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    </effectiveTime>
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codeSystemName="NCI Thesaurus" displayName="by mouth"/>
    <doseQuantity value="1"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
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06-09"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
        <id root="2ae8728e-7292-7295-7297-bf402ae87299"/>
        <manufacturedMaterial>
          <code code="209459" codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" displayName="Tylenol Extra Strength">
            <originalText>Take 1 tablet single dose </originalText>
          </code>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
  </substanceAdministration>

```



```

</entry>
<entry typeCode="DRIV">
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.16"/>
    <id root="2aab644c-6453-6459-645f-bf402aab6465"/>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20150623"/>
      <high value="20150630"/>
    </effectiveTime>
    <routeCode code="C38288" codeSystem="2.16.840.1.113883.3.26.1.1"
codeSystemName="NCI Thesaurus" displayName="by mouth"/>
    <doseQuantity value="1"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
        <id root="2ae87345-7348-734b-734c-bf402ae8734e"/>
        <manufacturedMaterial>
          <code code="284215" codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" displayName="clindamycin HCl">
            <originalText>Take 1 capsule three times a day </originalText>
          </code>
        </manufacturedMaterial>
        </manufacturedProduct>
      </consumable>
    </substanceAdministration>
  </entry>
<entry typeCode="DRIV">
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.16"/>
    <id root="2aab6495-649b-64a1-64a7-bf402aab64ad"/>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20150621"/>
      <high value="20150629"/>
    </effectiveTime>
    <routeCode code="C28161" codeSystem="2.16.840.1.113883.3.26.1.1"
codeSystemName="NCI Thesaurus" displayName="intramuscularly"/>
    <doseQuantity value="1"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-

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06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
    <id root="2ae873d5-73d8-73da-73dc-bf402ae873dd"/>
    <manufacturedMaterial>
      <code code="309090" codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" displayName="ceftriaxone">
        <originalText>Take 1 recon soln twice a day </originalText>
      </code>
    </manufacturedMaterial>
  </manufacturedProduct>
</consumable>
</substanceAdministration>
</entry>
</section>
</component>
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.5.1" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.2.5.1"/>
    <code code="11450-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="PROBLEM LIST"/>
    <title>PROBLEMS</title>
    <text>
      <paragraph>Active Concerns</paragraph>
      <list>
        <item>
          Problem #1
          <list><item>Essential hypertension - 59621000</item></list>
        </item>
        <item>
          Problem #2
          <list><item>Severe hypothyroidism (disorder) - 83986005</item></list>
        </item>
        <item>
          Problem #3
          <list><item>Chronic rejection of renal transplant -
236578006</item></list>
        </item>
        <item>
          Problem #4
          <list><item>Fever (finding) - 386661006</item></list>
        </item>
      </list>
      <paragraph>Resolved Concerns</paragraph>
      <list>
        <item>
          Problem #1

```

```

    <list><item>Overweight - 238131007</item></list>
  </item>
</list>
</text>
<entry typeCode="DRIV">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
    <id root="ec8a6ff8-ed4b-4f7e-84c3-e98e58b45de8"/>
    <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
displayName="Concern"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <entryRelationship typeCode="SUBJ">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
        <id root="2ae909e4-09e9-09ec-09ee-bf402ae909f1"/>
        <code code="64572001" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Condition">
          <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Condition"/>
        </code>
        <statusCode code="completed"/>
        <effectiveTime>
          <low value="20111005"/>
        </effectiveTime>
        <value code="59621000" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Essential hypertension"
xsi:type="CD"/>
      </observation>
    </entryRelationship>
  </act>
</entry>
<entry typeCode="DRIV">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
    <id root="ec8a6ff8-ed4b-4f7e-84c3-e98e58b45de8"/>
    <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
displayName="Concern"/>
    <statusCode code="active"/>
    <effectiveTime>

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    <low value="20150622"/>
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-0
01"/>

      <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
      <id root="2ae97653-7657-7659-765b-bf402ae9765d"/>
      <code code="64572001" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Condition">
        <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Condition"/>
      </code>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="20061231"/>
      </effectiveTime>
      <value code="83986005" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Severe hypothyroidism
(disorder)" xsi:type="CD"/>
    </observation>
  </entryRelationship>
</act>
</entry>
<entry typeCode="DRIV">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-
01"/>

    <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
    <id root="ec8a6ff8-ed4b-4f7e-84c3-e98e58b45de8"/>
    <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
displayName="Concern"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <entryRelationship typeCode="SUBJ">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-0
01"/>

        <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
        <id root="2ae97773-7775-7777-7779-bf402ae9777a"/>
        <code code="64572001" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Condition">
          <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Condition"/>
        </code>
        <statusCode code="completed"/>

```

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    <effectiveTime>
      <low value="20111231"/>
    </effectiveTime>
    <value code="236578006" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Chronic rejection of renal
transplant" xsi:type="CD"/>
    </observation>
  </entryRelationship>
</act>
</entry>
<entry typeCode="DRIV">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
    <id root="ec8a6ff8-ed4b-4f7e-84c3-e98e58b45de8"/>
    <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
displayName="Concern"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <entryRelationship typeCode="SUBJ">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-0
01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
        <id root="2ae9787c-787d-787f-7881-bf402ae97882"/>
        <code code="64572001" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Condition">
          <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Condition"/>
        </code>
        <statusCode code="completed"/>
        <effectiveTime>
          <low value="20150622"/>
        </effectiveTime>
        <value code="386661006" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Fever (finding)" xsi:type="CD"/>
        </observation>
      </entryRelationship>
    </act>
  </entry>
<entry typeCode="COMP">
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.3"/>

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<id root="ec8a6ff8-ed4b-4f7e-84c3-e98e58b45de8"/>
<code code="CONC" codeSystem="2.16.840.1.113883.5.6"
displayName="Concern"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20150622"/>
</effectiveTime>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-0
01"/>
<templateId root="2.16.840.1.113883.10.20.22.4.4"/>
<id root="2ae9797f-7980-7982-7984-bf402ae97987"/>
<code code="64572001" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Condition">
<translation code="75323-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Condition"/>
</code>
<statusCode code="completed"/>
<effectiveTime>
<low value="20061231"/>
<high value="20070601"/>
</effectiveTime>
<value code="238131007" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Overweight" xsi:type="CD"/>
</observation>
</entryRelationship>
</act>
</entry>
</section>
</component>
<component>
<section>
<templateId root="2.16.840.1.113883.10.20.22.2.4.1" extension="2015-08-
01"/>
<templateId root="2.16.840.1.113883.10.20.22.2.4.1"/>
<code code="8716-3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Vital Signs"/>
<title>VITAL SIGNS</title>
<text>
<table width="100%" border="1">
<thead>
<tr>
<th>Item</th>
<th>Measurement</th>
<th>Date</th>
<th>LOINC Code</th>
</tr>

```

```
</thead>
<tbody>
  <tr>
    <td>Height</td>
    <td>177 cm</td>
    <td>20150622</td>
    <td>8302-2</td>
  </tr>
  <tr>
    <td>Weight</td>
    <td>88 kg</td>
    <td>20150622</td>
    <td>29463-7</td>
  </tr>
  <tr>
    <td>Inhaled Oxygen Concentration</td>
    <td>36 %</td>
    <td>20150622</td>
    <td>3150-0</td>
  </tr>
  <tr>
    <td>Blood Pressure - Systolic</td>
    <td>145 mm[Hg]</td>
    <td>20150622</td>
    <td>8480-6</td>
  </tr>
  <tr>
    <td>Blood Pressure - Diastolic</td>
    <td>88 mm[Hg]</td>
    <td>20150622</td>
    <td>8462-4</td>
  </tr>
  <tr>
    <td>Body Temperature</td>
    <td>38 Cel</td>
    <td>20150622</td>
    <td>8310-5</td>
  </tr>
  <tr>
    <td>Heart Rate</td>
    <td>80 /min</td>
    <td>20150622</td>
    <td>8867-4</td>
  </tr>
  <tr>
    <td>Respiratory Rate</td>
    <td>18 /min</td>
    <td>20150622</td>
  </tr>
```

```

        <td>9279-1</td>
    </tr>
    <tr>
        <td>O2 Percentage Bldc Oximetry</td>
        <td>95 %</td>
        <td>20150622</td>
        <td>59408-5</td>
    </tr>
</tbody>
</table>
</text>
<entry typeCode="DRIV">
    <organizer classCode="CLUSTER" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.26" extension="2015-08-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.26"/>
        <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
        <code code="46680005" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Vital signs">
            <translation code="74728-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Vital signs"/>
        </code>
        <statusCode code="completed"/>
        <effectiveTime value="20150622"/>
        <component>
            <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-06-09"/>
                <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
                <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
                <code code="8302-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Body height"/>
                <statusCode code="completed"/>
                <effectiveTime value="20150622"/>
                <value xsi:type="PQ" value="177" unit="cm"/>
                <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
            </observation>
        </component>
        <component>
            <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-06-09"/>
                <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
                <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
                <code code="29463-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Patient Body weight"/>
                <statusCode code="completed"/>
                <effectiveTime value="20150622"/>

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    <value xsi:type="PQ" value="88" unit="kg"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  </observation>
</component>
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="8480-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="BP Systolic"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="145" unit="mm[Hg]"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  </observation>
</component>
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="8462-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Diastolic blood pressure"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="88" unit="mm[Hg]"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  </observation>
</component>
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="3150-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Inhaled Oxygen Concentration"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="36" unit="%"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  </observation>
</component>
<component>
  <observation classCode="OBS" moodCode="EVN">

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06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="8310-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Body temperature"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="38" unit="Cel"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
    </observation>
  </component>
</component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="8867-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Heart rate"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="80" unit="/min"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
    </observation>
  </component>
</component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="9279-1" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Respiratory Rate"/>
    <statusCode code="completed"/>
    <effectiveTime value="20150622"/>
    <value xsi:type="PQ" value="18" unit="/min"/>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
    </observation>
  </component>
</component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.27" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.27"/>
    <id root="2aaca2b9-a2c3-a2c8-a2cb-bf402aaca2cf"/>
    <code code="59408-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Oxygen saturation in Arterial blood by

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Pulse oximetry"/>
  <statusCode code="completed"/>
  <effectiveTime value="20150622"/>
  <value xsi:type="PQ" value="95" unit="%"/>
  <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
</observation>
</component>
</organizer>
</entry>
</section>
</component>
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.60"/>
    <code code="61146-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Goals"/>
    <title>GOALS</title>
    <text>
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>
              Goal
            </th>
            <th>
              Date
            </th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>
              a. Get rid of intermittent fever that is occurring every few weeks.
            </td>
            <td>
              20150622
            </td>
          </tr>
          <tr>
            <td>
              b. Need to gain more energy to do regular activities
            </td>
            <td>
              20150622
            </td>
          </tr>
        </tbody>
      </table>
    </text>
  </section>
</component>

```

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</table>
</text>
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="GOL">
    <templateId root="2.16.840.1.113883.10.20.22.4.121"/>
    <id root="2aaf3afa-3aff-3b01-3b03-bf402aaf3b05"/>
    <code code="58144-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Resident's overall goal established
during assessment process"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <value xsi:type="ST">a. Get rid of intermittent fever that is occurring every
few weeks.</value>
    <author typeCode="AUT">
      <templateId root="2.16.840.1.113883.10.20.22.4.119"/>
      <time value="20150622"/>
      <assignedAuthor>
        <id root="2aee2449-2450-2455-2458-bf402aee245a"
extension="172698789"/>
        <assignedPerson>
          <name>
            <given>Albert</given>
            <family>Davis</family>
            <prefix>Dr</prefix>
          </name>
        </assignedPerson>
      </assignedAuthor>
    </author>
  </observation>
</entry>
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="GOL">
    <templateId root="2.16.840.1.113883.10.20.22.4.121"/>
    <id root="2aaf3b12-3b13-3b15-3b16-bf402aaf3b18"/>
    <code code="58144-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Resident's overall goal established
during assessment process"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <value xsi:type="ST">
b. Need to gain more energy to do regular activities</value>
    <author typeCode="AUT">
      <templateId root="2.16.840.1.113883.10.20.22.4.119"/>
      <time value="20150622"/>

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```

    <assignedAuthor>
      <id root="2aee2608-260b-260c-260e-bf402aee260f"
extension="172698789"/>
      <assignedPerson>
        <name>
          <given>Albert</given>
          <family>Davis</family>
          <prefix>Dr</prefix>
        </name>
      </assignedPerson>
    </assignedAuthor>
  </author>
</observation>
</entry>
</section>
</component>
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  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.17" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.2.17"/>
    <code code="29762-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Social History"/>
    <title>SOCIAL HISTORY</title>
    <text>
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>
              Social History Observation
            </th>
            <th>
              Description
            </th>
            <th>
              Dates Observed
            </th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>
              Current Smoking Status
            </td>
            <td>
              Current every day smoker(449868002)
            </td>
            <td>

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```

                20150622
            </td>
        </tr>
    </tr>
    <tr>
        <td>
            Birth Sex
        </td>
        <td>
            Female
        </td>
        <td>
            19700501
        </td>
    </tr>
</tbody>
</table>
</text>
<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.78" extension="2014-06-09"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.78"/>
        <id root="2aad29a8-29af-29b2-29b5-bf402aad29b8"/>
        <code code="72166-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Tobacco smoking status NHIS"/>
        <statusCode code="completed"/>
        <effectiveTime value="20150622"/>
        <value code="449868002" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Current every day smoker"
xsi:type="CD"/>
    </observation>
</entry>
<entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.200" extension="2016-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.200"/>
        <id root="2aad29a8-29af-29b2-29b5-bf402aad29b8"/>
        <code code="76689-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Sex Assigned At Birth"/>
        <statusCode code="completed"/>
        <effectiveTime value="20150622"/>
        <value code="F" codeSystem="2.16.840.1.113883.5.1"
displayName="Female" xsi:type="CD"/>
    </observation>
</entry>
</section>
</component>

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```

<component>
  <section>
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    <templateId root="2.16.840.1.113883.10.20.22.2.22.1"/>
    <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="History of encounters"/>
    <title>ENCOUNTERS</title>
    <text>
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>
              Encounter
            </th>
            <th>
              Location
            </th>
            <th>
              Date
            </th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td ID="Encounter1">Fever (finding)(386661006)</td>
            <td>N/A</td>
            <td>20150622</td>
          </tr>
        </tbody>
      </table>
    </text>
    <entry typeCode="DRIV">
      <encounter classCode="ENC" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.49"/>
        <id root="2aae721f-7224-7226-7228-bf402aae722a"/>
        <code code="462" codeSystem="2.16.840.1.113883.6.12"
codeSystemName="CPT-4" displayName="EM NEW PATIENT">
          <originalText>
            <reference value="#Encounter1"/>
          </originalText>
          <translation code="AMB" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="HL7 ActEncounterCode" displayName="Health Concern"/>
        </code>
        <effectiveTime value="20150622"/>
        <performer>

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```

    <assignedEntity>
      <id nullFlavor="UNK" root="2.16.840.1.113883.4.6"/>
      <code code="208D00000X"
codeSystem="2.16.840.1.114222.4.11.1066" codeSystemName="Healthcare
Provider Taxonomy (HIPAA)" displayName="General Physician"/>
    </assignedEntity>
  </performer>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <templateId root="2.16.840.1.113883.10.20.22.4.32"/>
      <code code="1145-2" codeSystem="2.16.840.1.113883.6.259"
codeSystemName="HL7 HealthcareServiceLocation" displayName="Behavioral
Health Clinic"/>
      <addr use="WP">
        <country>US</country>
        <state>N/A</state>
        <city>N/A</city>
        <postalCode>N/A</postalCode>
        <streetAddressLine>N/A</streetAddressLine>
      </addr>
      <telecom value="tel: +1(555)555-1030" use="WP"/>
      <playingEntity classCode="PLC">
        <name/>
      </playingEntity>
    </participantRole>
  </participant>
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-
06-09"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.19"/>
      <id root="2aae721f-7224-7226-7228-bf402aae722a"/>
      <code code="404684003" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Finding"/>
      <text>Fever (finding)</text>
      <statusCode code="completed"/>
      <value code="386661006" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Fever (finding)" xsi:type="CE"/>
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="SUBJ">
    <act classCode="ACT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.80" extension="2015-
08-01"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.80"/>
      <id root="2aae721f-7224-7226-7228-bf402aae722a"/>
      <code code="29308-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="ENCOUNTER DIAGNOSIS"/>

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<statusCode code="completed"/>
<effectiveTime>
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</effectiveTime>
<entryRelationship typeCode="SUBJ" inversionInd="false">
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    <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <id root="2aae721f-7224-7226-7228-bf402aae722a"/>
    <code code="404684003" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Finding">
      <translation code="75321-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Clinical finding"/>
    </code>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <value code="386661006" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT" displayName="Fever (finding)" xsi:type="CD"/>
    </observation>
  </entryRelationship>
</act>
</entryRelationship>
</encounter>
</entry>
</section>
</component>
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  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.2.1" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.2.2.1"/>
    <code code="11369-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="History of immunizations"/>
    <title>IMMUNIZATIONS</title>
    <text mediaType="text/x-hl7-text+xml">
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>Vaccine</th>
            <th>Date</th>
            <th>Status</th>
            <th>Comment</th>
            <th>CVX Code</th>
          </tr>
        </thead>

```

```

<tbody>
<tr>
<td ID="immun1">influenza, intradermal, quadrivalent, preservative
free</td>
<td>20150622</td>
<td>Refused</td>
<td>Immunization was not given - Patient rejected immunization</td>
<td>166</td>
</tr>
<tr>
<td ID="immun2">DTaP, 5 pertussis antigens</td>
<td>20120104</td>
<td>Completed</td>
<td/>
<td>106</td>
</tr>
</tbody>
</table>
</text>
<entry typeCode="DRIV">
<substanceAdministration classCode="SBADM" moodCode="EVN"
negationInd="false">
<templateId root="2.16.840.1.113883.10.20.22.4.52" extension="2015-08-
01"/>
<templateId root="2.16.840.1.113883.10.20.22.4.52"/>
<id root="2af1ddb0-ddb3-ddb5-ddb7-bf402af1ddb9"/>
<text>
<reference value="#immun1"/>
</text>
<statusCode code="completed"/>
<effectiveTime value="20150622"/>
<consumable>
<manufacturedProduct classCode="MANU">
<templateId root="2.16.840.1.113883.10.20.22.4.54" extension="2014-
06-09"/>
<templateId root="2.16.840.1.113883.10.20.22.4.54"/>
<id root="2af1ddda-dddc-ddde-dddf-bf402af1dde1"/>
<manufacturedMaterial>
<code code="166" codeSystem="2.16.840.1.113883.12.292"
codeSystemName="CVX" displayName="influenza, intradermal, quadrivalent,
preservative free"/>
<lotNumberText nullFlavor="NA"/>
</manufacturedMaterial>
<manufacturerOrganization>
<name>Immuno Inc</name>
</manufacturerOrganization>
</manufacturedProduct>
</consumable>

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<entryRelationship typeCode="RSON">
  <act classCode="ACT" moodCode="INT">
    <templateId root="2.16.840.1.113883.10.20.22.4.53" extension="2014-
06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.53"/>
    <code code="PATOBJ" codeSystem="2.16.840.1.113883.5.8"
codeSystemName="HL7 ActNoImmunizationReason" displayName="Patient
Objection"/>
    <statusCode code="completed"/>
  </act>
</entryRelationship>
</substanceAdministration>
</entry>
<entry typeCode="DRIV">
  <substanceAdministration classCode="SBADM" moodCode="EVN"
negationInd="false">
    <templateId root="2.16.840.1.113883.10.20.22.4.52" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.52"/>
    <id root="2af1de4c-de4e-de4f-de51-bf402af1de53"/>
    <text>
      <reference value="#immun2"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime value="20120104"/>
    <routeCode code="C38193" codeSystem="NCI Thesaurus"
codeSystemName="2.16.840.1.113883.3.26.1.1" displayName="BUCCAL"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.54" extension="2014-
06-09"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.54"/>
        <id root="2af1de77-de79-de7a-de7c-bf402af1de7d"/>
        <manufacturedMaterial>
          <code code="106" codeSystem="2.16.840.1.113883.12.292"
codeSystemName="CVX" displayName="DTaP, 5 pertussis antigens"/>
          <lotNumberText>2</lotNumberText>
        </manufacturedMaterial>
        <manufacturerOrganization>
          <name>Immuno inc</name>
        </manufacturerOrganization>
        </manufacturedProduct>
      </consumable>
    </substanceAdministration>
  </entry>
</section>
</component>
<component>

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```

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  <templateId root="2.16.840.1.113883.10.20.22.2.14" extension="2014-06-09"/>
  <templateId root="2.16.840.1.113883.10.20.22.2.14"/>
  <code code="47420-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Functional Status"/>
  <title>FUNCTIONAL STATUS</title>
  <text>
    <table width="100%" border="1">
      <thead>
        <tr>
          <th>Functional Category</th>
          <th>Effective Dates</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td ID="functionalstatus1">Dependance on cane</td>
          <td>20050501</td>
        </tr>
      </tbody>
    </table>
  </text>
  <entry typeCode="DRIV">
    <organizer classCode="CLUSTER" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.66" extension="2014-06-09"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.66"/>
      <id root="be01cf7e-cfbc-d01d-d059-bc98be01d093"/>
      <code code="d5" codeSystem="2.16.840.1.113883.6.254" codeSystemName="ICF" displayName="Self-Care"/>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="20050501"/>
      </effectiveTime>
      <component>
        <observation classCode="OBS" moodCode="EVN">
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          <templateId root="2.16.840.1.113883.10.20.22.4.67"/>
          <id root="2af1dfd2-dfd4-dfd6-dfd8-bf402af1dfd9"/>
          <code code="54522-8" codeSystem="2.16.840.1.113883.6.1" displayName="Functional status"/>
          <text>
            <reference value="#functionalstatus1"/>
          </text>
          <statusCode code="completed"/>
          <effectiveTime>

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        <low value="20050501"/>
        </effectiveTime>
        <value code="105504002" codeSystem="2.16.840.1.113883.6.96"
displayName="Dependance on cane" xsi:type="CD"/>
        </observation>
    </component>
    <component>
        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.128"/>
            <id root="2af1e00b-e00d-e00f-e010-bf402af1e012"/>
            <code>
                <originalText>
                    <reference value="NA"/>
                </originalText>
            </code>
            <statusCode code="completed"/>
            <effectiveTime value="20050501"/>
            <value code="371153006" codeSystem="2.16.840.1.113883.6.96"
displayName="Independent" xsi:type="CD"/>
        </observation>
    </component>
</organizer>
</entry>
</section>
</component>
<component>
    <section>
        <templateId root="2.16.840.1.113883.10.20.22.2.3.1" extension="2015-08-
01"/>
        <templateId root="2.16.840.1.113883.10.20.22.2.3.1"/>
        <code code="30954-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="RESULTS"/>
        <title>RESULTS</title>
        <text mediaType="text/x-hl7-text+xml">
            <table width="100%" border="1">
                <thead>
                    <tr>
                        <th>LOINC Code</th>
                        <th>Test</th>
                        <th>Test Date</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>24357-6</td>
                        <td>Urinalysis macro (dipstick) panel - Urine</td>
                        <td>20150622</td>
                    </tr>
                </tbody>
            </table>
        </text>
    </section>

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```

</tbody>
</table>
<table width="100%" border="1">
<thead>
<tr>
<th>Result Value</th>
<th>LOINC Code</th>
<th>Result Type</th>
<th>Relevant Reference Range</th>
<th>Interpretation</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color of Urine</td>
<td>5778-6</td>
<td>YELLOW </td>
<td>YELLOW</td>
<td>Normal </td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>Appearance of Urine</td>
<td>5767-9</td>
<td>CLEAR </td>
<td>CLEAR</td>
<td>Normal</td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>Specific gravity of Urine by Test strip</td>
<td>5811-5</td>
<td>1.015 </td>
<td>1.005-1.030</td>
<td>Normal</td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>pH of Urine by Test strip</td>
<td>5803-2</td>
<td>5.0 [pH]</td>
<td>5.0-8.0</td>
<td>Normal</td>

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<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>Glucose [Mass/volume] in Urine by Test strip</td>
<td>5792-7</td>
<td>50 mg/dL</td>
<td>Neg</td>
<td>Neg</td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>Ketones [Mass/volume] in Urine by Test strip</td>
<td>5797-6</td>
<td>Negative </td>
<td>Negative</td>
<td>Normal</td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
<tr>
<td>Protein [Mass/volume] in Urine by Test strip</td>
<td>5804-0</td>
<td>100 mg/dL</td>
<td>Negative</td>
<td>Normal </td>
<td>20150622</td>
<td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
</tr>
</tbody>
</table>
<table width="100%" border="1">
<thead>
<tr>
<th>LOINC Code</th>
<th>Test</th>
<th>Test Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>36643-5</td>
<td>XR Chest 2 views</td>
<td>20150622</td>
</tr>
</tbody>
</table>

```

```

<table width="100%" border="1">
  <thead>
    <tr>
      <th>Result Value</th>
      <th>LOINC Code</th>
      <th>Result Type</th>
      <th>Relevant Reference Range</th>
      <th>Interpretation</th>
      <th>Date</th>
      <th>Location</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>XR Chest 2 views</td>
      <td>36643-5</td>
      <td>NA</td>
      <td>NA</td>
      <td>Lungs are not clear, cannot rule out Anemia. Other tests are
required to determine the presence or absence of Anemia</td>
      <td>20150622</td>
      <td>Value Labs,2474, Rocky Place,Beaverton,OR,97003</td>
    </tr>
  </tbody>
</table>
</text>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.1" extension="2015-08-
01"/>
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    <code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
      <high value="20150622"/>
    </effectiveTime>
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-0
01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
        <id root="2af1e22b-e22d-e22f-e230-bf402af1e232"/>
        <code code="5778-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Color of Urine">

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    <translation nullFlavor="NA"/>
  </code>
  <text>
    <reference value="#result1"/>
  </text>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="20150622"/>
  </effectiveTime>
  <value xsi:type="ST">YELLOW</value>
  <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
  <performer typeCode="PRF">
    <assignedEntity classCode="ASSIGNED">
      <id root="2.16.840.1.113883.19.5"/>
      <representedOrganization classCode="ORG"
determinerCode="INSTANCE">
        <name>Value Labs</name>
        <telecom value="tel:555-666-1002" use="WP"/>
        <addr use="WP">
          <state>97003</state>
          <city>OR</city>
          <postalCode>US</postalCode>
          <streetAddressLine>2474, Rocky Place</streetAddressLine>
        </addr>
      </representedOrganization>
    </assignedEntity>
  </performer>
  <referenceRange>
    <observationRange>
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    </observationRange>
  </referenceRange>
</observation>
</component>
</organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.1" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
    <id root="2af31acd-1ad1-1ad4-1ad5-bf402af31ad7"/>
    <code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>

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    <high value="20150622"/>
  </effectiveTime>
  <component>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-0
01"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
      <id root="2af31c53-1c55-1c57-1c58-bf402af31c5a"/>
      <code code="5767-9" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Appearance of Urine">
        <translation nullFlavor="NA"/>
      </code>
      <text>
        <reference value="#result1"/>
      </text>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="20150622"/>
      </effectiveTime>
      <value xsi:type="ST">CLEAR</value>
      <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
      <performer typeCode="PRF">
        <assignedEntity classCode="ASSIGNED">
          <id root="2.16.840.1.113883.19.5"/>
          <representedOrganization classCode="ORG"
determinerCode="INSTANCE">
            <name>Value Labs</name>
            <telecom value="tel:555-666-1002" use="WP"/>
            <addr use="WP">
              <state>97003</state>
              <city>OR</city>
              <postalCode>US</postalCode>
              <streetAddressLine>2474, Rocky Place</streetAddressLine>
            </addr>
          </representedOrganization>
        </assignedEntity>
      </performer>
      <referenceRange>
        <observationRange>
          <value xsi:type="ST">CLEAR</value>
        </observationRange>
      </referenceRange>
    </observation>
  </component>
</organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">

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<code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
<statusCode code="completed"/>
<effectiveTime>
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</effectiveTime>
<component>
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<templateId root="2.16.840.1.113883.10.20.22.4.2"/>
<id root="2af31e41-1e43-1e44-1e46-bf402af31e47"/>
<code code="5811-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Specific gravity of Urine by Test strip">
<translation nullFlavor="NA"/>
</code>
<text>
<reference value="#result1"/>
</text>
<statusCode code="completed"/>
<effectiveTime>
<low value="20150622"/>
</effectiveTime>
<value value="1.015" unit="ml" xsi:type="PQ"/>
<interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
<performer typeCode="PRF">
<assignedEntity classCode="ASSIGNED">
<id root="2.16.840.1.113883.19.5"/>
<representedOrganization classCode="ORG"
determinerCode="INSTANCE">
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<telecom value="tel:555-666-1002" use="WP"/>
<addr use="WP">
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<city>OR</city>
<postalCode>US</postalCode>
<streetAddressLine>2474, Rocky Place</streetAddressLine>
</addr>
</representedOrganization>
</assignedEntity>
</performer>
<referenceRange>

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    <observationRange>
      <value xsi:type="IVL_PQ">
        <low value="1.005"/>
        <high value="1.030"/>
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  </referenceRange>
</observation>
</component>
</organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.1" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
    <id root="2af366fc-6700-6702-6704-bf402af36705"/>
    <code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
      <high value="20150622"/>
    </effectiveTime>
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
        <id root="2af3688f-6891-6893-6895-bf402af36896"/>
        <code code="5803-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="pH of Urine by Test strip">
          <translation nullFlavor="NA"/>
        </code>
        <text>
          <reference value="#result1"/>
        </text>
        <statusCode code="completed"/>
        <effectiveTime>
          <low value="20150622"/>
        </effectiveTime>
        <value value="5.0" unit="[pH]" xsi:type="PQ"/>
        <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
        <performer typeCode="PRF">
          <assignedEntity classCode="ASSIGNED">
            <id root="2.16.840.1.113883.19.5"/>
            <representedOrganization classCode="ORG"

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determinerCode="INSTANCE">
  <name>Value Labs</name>
  <telecom value="tel:555-666-1002" use="WP"/>
  <addr use="WP">
    <state>97003</state>
    <city>OR</city>
    <postalCode>US</postalCode>
    <streetAddressLine>2474, Rocky Place</streetAddressLine>
  </addr>
  </representedOrganization>
</assignedEntity>
</performer>
<referenceRange>
  <observationRange>
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      <low value="5.0"/>
      <high value="8.0"/>
    </value>
  </observationRange>
</referenceRange>
</observation>
</component>
</organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.1" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
    <id root="2af3692b-692e-692f-6931-bf402af36932"/>
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Urine"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
      <high value="20150622"/>
    </effectiveTime>
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-01"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
        <id root="2af36a8c-6a8e-6a90-6a92-bf402af36a93"/>
        <code code="5792-7" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Glucose [Mass/volume] in Urine by Te
strip">
          <translation nullFlavor="NA"/>

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</code>
<text>
  <reference value="#result1"/>
</text>
<statusCode code="completed"/>
<effectiveTime>
  <low value="20150622"/>
</effectiveTime>
<value xsi:type="ST">50</value>
<interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
<performer typeCode="PRF">
  <assignedEntity classCode="ASSIGNED">
    <id root="2.16.840.1.113883.19.5"/>
    <representedOrganization classCode="ORG"
determinerCode="INSTANCE">
      <name>Value Labs</name>
      <telecom value="tel:555-666-1002" use="WP"/>
      <addr use="WP">
        <state>97003</state>
        <city>OR</city>
        <postalCode>US</postalCode>
        <streetAddressLine>2474, Rocky Place</streetAddressLine>
      </addr>
    </representedOrganization>
  </assignedEntity>
</performer>
<referenceRange>
  <observationRange>
    <value xsi:type="ST">Neg</value>
  </observationRange>
</referenceRange>
</observation>
</component>
</organizer>
</entry>
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  <organizer classCode="BATTERY" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.1" extension="2015-08-
01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
    <id root="2af36b12-6b14-6b16-6b17-bf402af36b19"/>
    <code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
      <high value="20150622"/>

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</effectiveTime>
<component>
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01"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
    <id root="2af36c64-6c65-6c67-6c69-bf402af36c6a"/>
    <code code="5797-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Ketones [Mass/volume] in Urine by Te
strip">
      <translation nullFlavor="NA"/>
    </code>
    <text>
      <reference value="#result1"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <value xsi:type="ST">Negative</value>
    <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
    <performer typeCode="PRF">
      <assignedEntity classCode="ASSIGNED">
        <id root="2.16.840.1.113883.19.5"/>
        <representedOrganization classCode="ORG"
determinerCode="INSTANCE">
          <name>Value Labs</name>
          <telecom value="tel:555-666-1002" use="WP"/>
          <addr use="WP">
            <state>97003</state>
            <city>OR</city>
            <postalCode>US</postalCode>
            <streetAddressLine>2474, Rocky Place</streetAddressLine>
          </addr>
        </representedOrganization>
      </assignedEntity>
    </performer>
    <referenceRange>
      <observationRange>
        <value xsi:type="ST">Negative</value>
      </observationRange>
    </referenceRange>
  </observation>
</component>
</organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">

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<code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Urinalysis macro (dipstick) panel -
Urine"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20150622"/>
<high value="20150622"/>
</effectiveTime>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-0-
01"/>
<templateId root="2.16.840.1.113883.10.20.22.4.2"/>
<id root="2af36f0c-6f11-6f14-6f16-bf402af36f19"/>
<code code="5804-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Protein [Mass/volume] in Urine by Tes
strip">
<translation nullFlavor="NA"/>
</code>
<text>
<reference value="#result1"/>
</text>
<statusCode code="completed"/>
<effectiveTime>
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</effectiveTime>
<value xsi:type="ST">100</value>
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<performer typeCode="PRF">
<assignedEntity classCode="ASSIGNED">
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<representedOrganization classCode="ORG"
determinerCode="INSTANCE">
<name>Value Labs</name>
<telecom value="tel:555-666-1002" use="WP"/>
<addr use="WP">
<state>97003</state>
<city>OR</city>
<postalCode>US</postalCode>
<streetAddressLine>2474, Rocky Place</streetAddressLine>
</addr>
</representedOrganization>
</assignedEntity>
</performer>

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        <referenceRange>
          <observationRange>
            <value xsi:type="ST">Negative</value>
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      </observation>
    </component>
  </organizer>
</entry>
<entry typeCode="DRIV">
  <organizer classCode="BATTERY" moodCode="EVN">
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    <templateId root="2.16.840.1.113883.10.20.22.4.1"/>
    <id root="2af37026-7029-702b-702d-bf402af3702e"/>
    <code code="36643-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="XR Chest 2 views"/>
    <statusCode code="completed"/>
    <effectiveTime>
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      <high value="20150622"/>
    </effectiveTime>
    <component>
      <observation classCode="OBS" moodCode="EVN">
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        <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
        <id root="2af371a2-71a4-71a6-71a8-bf402af371a9"/>
        <code code="36643-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="XR Chest 2 views">
          <translation nullFlavor="NA"/>
        </code>
        <text>
          <reference value="#result1"/>
        </text>
        <statusCode code="completed"/>
        <effectiveTime>
          <low value="20150622"/>
        </effectiveTime>
        <value nullFlavor="NA" xsi:type="PQ"/>
        <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"/>
        <performer typeCode="PRF">
          <assignedEntity classCode="ASSIGNED">
            <id root="2.16.840.1.113883.19.5"/>
            <representedOrganization classCode="ORG"
determinerCode="INSTANCE">
              <name>Value Labs</name>
              <telecom value="tel:555-666-1002" use="WP"/>
            </representedOrganization>
          </assignedEntity>
        </performer>
      </observation>
    </component>
  </organizer>
</entry>

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```

        <addr use="WP">
          <state>97003</state>
          <city>OR</city>
          <postalCode>US</postalCode>
          <streetAddressLine>2474, Rocky Place</streetAddressLine>
        </addr>
      </representedOrganization>
    </assignedEntity>
  </performer>
  <referenceRange>
    <observationRange>
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    </observationRange>
  </referenceRange>
</observation>
</component>
</organizer>
</entry>
</section>
</component>
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.7.1" extension="2014-06-09"/>
    <code code="47519-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="HISTORY OF PROCEDURES"/>
    <title>PROCEDURES</title>
    <text>
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>Procedure</th>
            <th>Date</th>
            <th>Status</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td ID="Proc1">Introduction of cardiac pacemaker system via vein</td>
            <td>20111005</td>
            <td>completed</td>
          </tr>
          <tr>
            <td ID="Proc2">Nebulizer therapy</td>
            <td>20150622</td>
            <td>completed</td>
          </tr>
        </tbody>
      </table>
    </text>
  </section>
</component>

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```

</table>
</text>
<entry typeCode="DRIV">
  <procedure classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
    <id root="2ab1892b-8941-8950-895e-bf402ab1896c"/>
    <code code="175135009" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Introduction of cardiac
pacemaker system via vein"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20111005"/>
    </effectiveTime>
    <performer>
      <assignedEntity>
        <id root="2.16.840.1.113883.4.6" extension="29083"/>
        <addr use="WP">
          <country>US</country>
          <state>NA</state>
          <city>NA</city>
          <postalCode>NA</postalCode>
          <streetAddressLine>NA</streetAddressLine>
        </addr>
        <telecom value="NA" use="WP"/>
        <representedOrganization classCode="ORG">
          <id root="2.16.840.1.113883.19.5.9999.1393"/>
          <name/>
          <telecom value="NA" use="WP"/>
          <addr use="WP">
            <country>US</country>
            <state>NA</state>
            <city>NA</city>
            <postalCode>NA</postalCode>
            <streetAddressLine>NA</streetAddressLine>
          </addr>
        </representedOrganization>
      </assignedEntity>
    </performer>
    <participant typeCode="DEV">
      <participantRole classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.37"/>
        <id root="2.16.840.1.113883.3.3719"
extension="(01)00643169007222(17)160128(21)BLC200461H"
assigningAuthorityName="FDA"/>
        <playingDevice/>
        <scopingEntity>

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    <id root="2.16.840.1.113883.3.3719"/>
    </scopingEntity>
  </participantRole>
</participant>
</procedure>
</entry>
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    <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-
09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
    <id root="2ab189bb-89c7-89d4-89e0-bf402ab189ed"/>
    <code code="56251003" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Nebulizer therapy"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20150622"/>
    </effectiveTime>
    <performer>
      <assignedEntity>
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          <state>NA</state>
          <city>NA</city>
          <postalCode>NA</postalCode>
          <streetAddressLine>NA</streetAddressLine>
        </addr>
        <telecom value="NA" use="WP"/>
        <representedOrganization classCode="ORG">
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          <name/>
          <telecom value="NA" use="WP"/>
          <addr use="WP">
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            <state>NA</state>
            <city>NA</city>
            <postalCode>NA</postalCode>
            <streetAddressLine>NA</streetAddressLine>
          </addr>
        </representedOrganization>
      </assignedEntity>
    </performer>
  </procedure>
</entry>
</section>
</component>
<component>

```

```

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  <templateId root="2.16.840.1.113883.10.20.22.2.23"/>
  <code code="46264-8" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="IMPLANTABLE DEVICES"/>
  <title>IMPLANTABLE DEVICES</title>
  <text>
    <table width="100%" border="1">
      <thead>
        <tr>
          <th>UDI</th>
          <th>Device name</th>
          <th>Assigning Authority</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td
ID="Implant1">(01)00643169007222(17)160128(21)BLC200461H</td>
          <td>Cardiac resynchronization therapy implantable defibrillator</td>
          <td>FDA</td>
        </tr>
      </tbody>
    </table>
  </text>
  <entry typeCode="DRIV">
    <procedure classCode="PROC" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-09"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
      <id root="2ab1a341-a348-a34c-a34f-bf402ab1a351"/>
      <code nullFlavor="NA"/>
      <statusCode code="completed"/>
      <effectiveTime>
        <low value="20111005"/>
      </effectiveTime>
      <participant typeCode="DEV">
        <participantRole classCode="MANU">
          <templateId root="2.16.840.1.113883.10.20.22.4.37"/>
          <id root="2.16.840.1.113883.3.3719"
extension="(01)00643169007222(17)160128(21)BLC200461H"
assigningAuthorityName="FDA"/>
          <playingDevice>
            <code code="NOCODE" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED">
              <originalText>
                <reference value="#product"/>
            </code>
          </playingDevice>
        </participantRole>
      </participant>
    </procedure>
  </entry>

```

```

        </originalText>
        </code>
        </playingDevice>
        <scopingEntity determinerCode="INSTANCE">
          <id root="2.16.840.1.113883.3.3719"/>
        </scopingEntity>
        </participantRole>
        </participant>
        </procedure>
        </entry>
        </section>
        </component>
        <component>
          <section>
            <templateId root="2.16.840.1.113883.10.20.22.2.8" extension="2014-06-09"/>
            <templateId root="2.16.840.1.113883.10.20.22.2.8"/>
            <code code="51848-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="ASSESSMENT AND PLAN"/>
            <title>ASSESSMENT AND PLAN</title>
            <text>
              The patient was found to have fever and Dr Davis is suspecting Anemia based on the patient history. So Dr Davis asked the patient to closely monitor the temperature and blood pressure and get admitted to Community Health Hospitals if the fever does not subside within a day.
            </text>
          </section>
        </component>
        <component>
          <section>
            <templateId root="2.16.840.1.113883.10.20.22.2.58" extension="2015-08-01"/>
            <templateId root="2.16.840.1.113883.10.20.22.2.58"/>
            <code code="75310-3" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Health Concerns Document"/>
            <title>HEALTH CONCERN SECTION</title>
            <text mediaType="text/x-hl7-text+xml">
              <table width="100%" border="1">
                <thead>
                  <tr>
                    <th>
                      Observation
                    </th>
                    <th>
                      Status
                    </th>
                    <th>
                      Date
                    </th>
                  </tr>
                </thead>
              </table>
            </text>
          </section>
        </component>
      </component>
    </section>
  </component>
</component>

```

```
</th>
</tr>
</thead>
<tbody>
<tr>
<td>
  Chronically ill
</td>
<td>
  Active
</td>
<td>
  20181020 15:33:58
</td>
</tr>
</tbody>
</table>
<table width="100%" border="1">
<thead>
<tr>
<th>
  Concern
</th>
<th>
  Status
</th>
<th>
  Date
</th>
</tr>
</thead>
<tbody>
<tr>
<td>
  Watch Weight of patient
</td>
<td>
  Active
</td>
<td>
  20150622
</td>
</tr>
<tr>
<td>
  Fever (finding)
</td>
<td>
</td>
<td>

```

	Active
	</td>
	<td>
	20181017
	</td>
	</tr>
	<tr>
	<td>
	Overweight
	</td>
	<td>
	Active
	</td>
	<td>
	20181017
	</td>
	</tr>
	<tr>
	<td>
	Chronic rejection of renal transplant
	</td>
	<td>
	Active
	</td>
	<td>
	20181017
	</td>
	</tr>
	<tr>
	<td>
	Essential hypertension
	</td>
	<td>
	Active
	</td>
	<td>
	20181017
	</td>
	</tr>
	<tr>
	<td>
	Severe hypothyroidism (disorder)
	</td>
	<td>
	Active
	</td>
	<td>
	20150622


```

</td>
</tr>
<tr>
<td>
    Essential hypertension
</td>
<td>
    Active
</td>
<td>
    20150622
</td>
</tr>
</tbody>
</table>
</text>
<entry>
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codeSystemVersion="LOINC" displayName="Health Status"/>
<statusCode code="completed"/>
<value code="161901003" codeSystem="2.16.840.1.113883.6.96"
codeSystemVersion="SNOMED CT" displayName="Chronically ill" xsi:type="CD"/>
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<entry>
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codeSystemVersion="LOINC" displayName="Health Concern"/>
<statusCode code="completed"/>
<entryRelationship typeCode="REFR" inversionInd="false">
<act classCode="ACT" moodCode="EVN">
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<act classCode="ACT" moodCode="EVN">

```

```
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</act>
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</act>
</entry>
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    <code code="18776-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Treatment plan"/>
    <title>TREATMENT PLAN</title>
    <text mediaType="text/x-hl7-text+xml">
      <table width="100%" border="1">
        <thead>
          <tr>
            <th>Planned Care</th>
            <th>Start Date</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>EKG impression Narrative</td>
            <td>20150623</td>
          </tr>
          <tr>
            <td>Long bone x-rays were performed and consistent with congenital
syphilis [CDC.CS]</td>
            <td>20150623</td>
          </tr>
          <tr>
            <td>Established Patient: Evaluation and Management</td>
            <td>20150701</td>
          </tr>
          <tr>
            <td>clindamycin hcl</td>
            <td>20181023</td>
          </tr>
          <tr>
            <td>Urinalysis macro (dipstick) panel - Urine</td>
            <td>20150629</td>
          </tr>
        </tbody>
      </table>
    </text>
  <entry>
    <observation classCode="OBS" moodCode="INT">
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```

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09"/>
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codeSystemName="LOINC" displayName="Long bone x-rays were performed and
consistent with congenital syphilis [CDC.CS]"/>
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</entry>
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<code code="99215" codeSystem="2.16.840.1.113883.6.12"
codeSystemName="CPT" displayName="Established Patient: Evaluation and
Management"/>
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<effectiveTime>
<low value="20150701"/>
</effectiveTime>
<performer>
<assignedEntity>
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<telecom value="tel:+1(555)-555-1002" use="WP"/>
<representedOrganization>
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</assignedEntity>
</performer>
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
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```

```

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<code code="282291009" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Diagnosis"/>
<text>Schedule follow on visit with Neighborhood Physicians Practice c
7/1/2015.</text>
<statusCode code="completed"/>
<effectiveTime value="20150701"/>
<value xsi:type="CD" code="386661006"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT"/>
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</entryRelationship>
</encounter>
</entry>
<entry>
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<text>clindamycin hcl</text>
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<effectiveTime value="20181023"/>
<consumable>
<manufacturedProduct classCode="MANU">
<templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-
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codeSystemName="RxNorm" displayName="clindamycin hcl"/>
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</manufacturedProduct>
</consumable>
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Urine"/>
<statusCode code="active"/>
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</observation>
</entry>

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	<pre> </section> </component> <component> <section> <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.1" extension="2014-06-09"/> <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.1"/> <code code="42349-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="REASON FOR REFERRAL"/> <title>REASON FOR REFERRAL</title> <text>Ms Alice Newman is being referred to Community Health Hospitals Inpatient facility because of the high fever noticed and suspected Anemia.</text> </section> </component> </structuredBody> </component> </ClinicalDocument> </pre>
204	{"string": "No Content."}
401	{"string": "Invalid Token."}
500	{"string": "Something went wrong. Please try again later."}

Appendices

Appendix A: URL Configuration

Type	URL	Description
FHIR API	http://192.168.7.219/fhir_server /api.php	It helps the client application to connect with FHIR API.

AllergyIntolerance > Identifier > ValueElement > Value	Represents the unique identifier that represents the allergy
AssertedDate	Date Time when the data was inserted into the HER
Category	Represents the category of allergy.
code > coding > codeelement	Code of allergy
code > coding > displayelement	Description of allergy
code > coding > systemelement	Codesystem being used to represent the allergy
code > coding > versionelement	CodesystemID
code > textelement	Description of allergy
onsetdatetime	Onset Date time of allergy
reaction > substance > coding > codeelement	Code of the reaction to allergy
reaction > substance > coding > displayelement	Description of the reaction to allergy
reaction > substance > coding > systemelement	Code system being used to represent the reaction of allergy
reaction > substance > coding > versionelement	CodesystemID
reaction > substance > textelement	Description of the reaction to allergy
Recorder > ReferenceElement > Value	Represents the unique identifier of the recorder of allergy

severity	Represents the severity of allergy
strClinicalStatus	
strVerificationStatus	Verification status of allergy
Type	Represents the type of data being represented in this resource

Appendix B: Mappings

Allergy

JSON Path	Description
-----------	-------------

Medication

JSON Path	Description
Medication > Code > Coding > SystemElement	Codesystem in which the medication is represented
Medication > Code > Coding > VersionElement	Codesystem ID
Medication > Code > Coding > CodeElement	Code of the medication
Medication > Code > Coding > DisplayElement	Description (Name) of the medication
Medication > Code > TextElement	Represents the unique identifier for the medication
Status	Status of the medication. Where value as 1 = Active and 0 = Inactive
Medication > IsBrandElement	Representation if the medication is branded or not.
ISOVERTHECOUNTER	Representation if the medication is over the counter or not.
Form > TextElement > Value	Form of the medication
Direction	Directions for consuming the medication (SIG)
Quantity	Quantity prescribed
DateTimeSent	Date Time when the medication is supposed to start
DateTimeEnd	Date Time when the medication is supposed to end
Substitution	Indication whether the medication is supposed to be substituted
Dosequantityunit	Represents the unit for quantity
DoseRoute	Represents the rout of intake for the medication

Condition

JSON Path	Description
OnSetDateTime	Onset date and time of the problem
AbatementDateTime	Abatement (End) date time of the problem
Condition > Identifier > Type > Coding > CodeElement > Value	Represents the unique identifier of the problem.
Condition > Identifier > Type > Coding > DisplayElement > Value	Represents the unique identifier of the problem.
Condition > Identifier > ValueElement > Value	Represents the unique identifier of the problem.
Condition > Code > Coding > SystemElement	Codesystem in which the medication is represented
Condition > Code > Coding > VersionElement	Codesystem ID
Condition > Code > Coding > CodeElement	Code of the problem
Condition > Code > Coding > DisplayElement	Description (Name) of the problem
Condition > ClinicalStatusElement > Value	Represents the status of the problem
Category > Coding > CodeElement > Value	Represents the type of resource
Category > Coding > CodeElement > DisplayElement	Represents the type of resource

Immunization

JSON Path	Description
Immunization > Identifier > ValueElement > Value	Represents the unique EHR identifier of the Immunization
Immunization > DateElement > Value	Represents the date time given of the Immunization

Immunization > VaccineCode > Coding > SystemElement > Value	Represents the coding system.
Immunization > VaccineCode > Coding > VersionElement > Value	Codesystem ID
Immunization > VaccineCode > Coding > CodeElement > Value	Represents the code which represents the Immunization
Immunization > VaccineCode > Coding > DisplayElement > Value	Represents the description of Immunization
Immunization > Manufacturer > ReferenceElement > Value	Represents the unique EHR's unique identifier of the Manufacturer
Immunization > Manufacturer > DisplayElement > Value	Represents the Manufacturer name
Immunization > LotNumberElement > Value	Represents the Lot Number
Immunization > Status	Represents the status of the Immunization

Procedure

JSON Path	Description
PerformedPeriod > StartElement > Value	Represents the Start Date time of the procedure
PerformedPeriod > EndElement > Value	Represents the End Date time of the procedure
Procedure > Identifier > Type > Coding > CodeElement > Value	Represents the EHR unique identifier of the procedure
Procedure > Identifier > ValueElement > Value	Represents the EHR unique identifier of the procedure
Procedure > Code > Coding > SystemElement > Value	Represents the coding system.
Procedure > Code > Coding > VersionElement > Value	Codesystem ID
Procedure > Code > Coding > CodeElement > Value	Represents the code which represents the procedure
Procedure > Code > Coding > DisplayElement > Value	Represents the description of procedure
Status	Represents the status of procedure
ServiceDeliveryLocation	Represents the service delivery location name of procedure
ServiceDeliveryLocationAddress	Represents the service delivery location address of procedure
ServiceDeliveryLocationTelPrimary	Represents the service delivery location primary tel number of procedure
ServiceDeliveryLocationTelSecondary	Represents the service delivery location secondary tel number of procedure

Goal

JSON Path	Description
StartDate	Date when the goal was added to the EHR system
Goal > Identifier > Type > Coding > CodeElement > Value	Represents the EHR unique identifier of the goal
Goal > Identifier > Type > Coding > DisplayElement > Value	Represents the EHR unique identifier of the goal
Goal > Identifier > ValueElement > Value	Represents the EHR unique identifier of the goal
Goal > Identifier > Period > StartElement > Value	Represents the date and time of the encounter in which the goal was added
Goal > Identifier > Period > EndElement > Value	Represents the date and time of the encounter in which the goal was added
Goal > Identifier > DescriptionElement > Value	Represents the description of the goal
Goal > Status	Represents the status of the goal

ObservationVitals

JSON Path	Description
EffectiveDateTime	Date and time when the Vitals were added to the encounter
Observation > Identifier > Type > Coding > CodeElement	Represents the EHR unique identifier of the vitals
Observation > Identifier > Type > Coding > DisplayElement	Represents the EHR unique identifier of the vitals
Observation > Code > Coding > SystemElement	Represents the coding system used for vitals (LOINC)
Observation > Code > Coding > VersionElement	CodesystemID

Observation > Code > IssuedElement	Represents the date and time when the vitals records were created in the EHR
Observation > Status	Represents the current status of the Vitals
Observation > [Weights]* > [WeightCode]*	Represents the LOINC code associated with the specific vital. The same field is available for all other vitals (Height, BP Systolic, BP Diastolic, Respiratory Rate, Heart rate, BloodOximetry, InhaledOxygen, Temperature,)
Observation > [Weights]* > [WeightUnit]*	Represents the unit used for the specific vital. The same field is available for all other vitals (Height, BP Systolic, BP Diastolic, Respiratory Rate, Heart rate, BloodOximetry, InhaledOxygen, Temperature,)

Observation >
[Weights]* >
[WeightValue]*

Represents the value for specific vital. The same field is available for all other vitals (Height, BP Systolic, BP Diastolic, Respiratory Rate, Heart rate, BloodOximetry, InhaledOxygen, Temperature,)

SmokingStatus

JSON Path	Description
EffectivePeriod > StartElement > Value	Date when the status started
ValueCodeableConcept > Coding > SystemElement > Value	Coding system name
ValueCodeableConcept > Coding > VersionElement > Value	Coding system id
ValueCodeableConcept > Coding > CodeElement > Value	Smoking status code
ValueCodeableConcept > Coding > DisplayElement > Value	Smoking status description
Observation > Identifier > Type > Coding > CodeElement > Value	Unique EHR identifier of the smoking status entry
Observation > Identifier > ValueElement > Value	Unique EHR identifier of the smoking status entry
Observation > Identifier > Period > StartElement > Value	Date when the record was entered into the EHR
Observation > Category > Coding > SystemElement > Value	Codesystem type of the resource
Observation > Category > Coding > VersionElement > Value	Codesystem id of the resource
Observation > Category > Coding > CodeElement > Value	Code of the resource type
Observation > Category > Coding > DisplayElement > Value	Name of the resource type
Observation > Code > Coding > SystemElement > Value	Code system name of the smoking status type
Observation > Code > Coding > VersionElement > Value	Code system id of the smoking status type

Observation > Code > Coding > CodeElement > Value	Code of smoking status type
Observation > Code > Coding > DisplayElement > Value	Description of smoking status type
Observation > Code > IssuedElement	Date time when the smoking status was entered
Observation > Status	Status of the smoking status

HealthConcern

JSON Path	Description
OnSetDateTime	Onset date and time of the problem
AbatementDateTime	Abatement (End) date time of the problem

Condition > Identifier > Type > Coding > CodeElement > Value	Represents the unique identifier of the problem.
Condition > Identifier > Type > Coding > DisplayElement > Value	Represents the unique identifier of the problem.
Condition > Identifier > ValueElement > Value	Represents the unique identifier of the problem.
Condition > Code > Coding > SystemElement	Codesystem in which the medication is represented
Condition > Code > Coding > VersionElement	Codesystem ID
Condition > Code > Coding > CodeElement	Code of the problem
Condition > Code > Coding > DisplayElement	Description (Name) of the problem
Condition > ClinicalStatusElement > Value	Represents the status of the problem
Category > Coding > CodeElement > Value	Represents the type of resource
Category > Coding > CodeElement > DisplayElement	Represents the type of resource

Careplan

JSON Path	Description
Intent	Represents the intent of the resource
Title	Represents the title of the resource

Status	Represents the current status of the resource
Teammember	Represents the full name of the care team member
Address	Represents the address of the care team member
PrimaryPhone	Represents the primary phone of the care team member
SecondaryPhone	Represents the secondary phone of the care team member
CarePlan > Identifier > ValueElement > Value	Represents the unique identifier of the care team member
CarePlan > DescriptionElement > Value	Represents the title of the resource

CareplanAssessment

JSON Path	Description
Title	Represents the type of resource
Status	Represents the current status of the assessment
DetailCodeText	Represents the assessment text
CarePlan > Identifier > ValueElement > Value	Represents the unique identifier of the assessment
CarePlan > Identifier > Period > StartElement > Value	Represents the start date time of the assessment
CarePlan > Identifier > Period > EndElement > Value	Represents the end date time of the assessment
CarePlan > DescriptionElement > Value	Represents the type of resource

Laborders, Immunization, Procedures, Medications

JSON Path	Description
<p>The response below is the same for PlannedLabOrder, PlannedImmunizations, PlannedMedications, PlannedProcedures</p>	
Intent	Represents the intent of the resource
Title	Represents the type of the resource
Status	Represents the status of the item in the resource
Detailcodecodingsystem	Represents the coding system of the planned resource
Detailcodecodingcode	Represents the coding of the planned resource
Detailcodecodingversion	Represents the codingsystemid of the planned resource
Detailcodecodingdisplay	Represents the description of the planned resource
DetailCodeText	Represents the description of the planned resource
DetailScheduledperiodstart	Represents the start date of the planned resource
DetailScheduledperiodend	Represents the end date of the planned resource
Detailquantityvalue	Represents the quantity ordered
CarePlan > Identifier > ValueElement > Value	Represents the unique identifier of the resource ordered
CarePlan > DescriptionElement > Value	Represents the type of the resource
SIG	Represent the SIG - Description for a planned medication

Device

JSON Path	Description
Name	GMDN PT name of the device
Udi	UDI number of the device
Issuer	Issuing agency of the device
DeviceIdentifier	DI number of the device
AssigningAuthority	Assigning authority of the device
Device > Identifier > ValueElement > Value	
Device > Identifier > Period > StartElement > Value	Date when the device was implanted into the patient
Device > Identifier > Period > EndElement > Value	Date when the device was implanted into the patient
Device > ManufacturerElement > Value	Manufacturer of the device
Device > VersionElement > Value	Version number of the device
Device > ExpiryElement > Value	Expiry date of the device
Status	Current status of the device
Device > Patient > ReferenceElement > Value	Patient identifier for whom the device is added

Patient

JSON Path	Description
Patientfirstname	First name of the patient
Patientlastname	Last name of the patient
Patientmiddlename	Middle name of the patient
Patientpreviousname	Previous name of the patient
Patientdateofbirth	DOB of the patient (mm/dd/yyyy)
Patientgender	HL7 Gender code of the patient
Patientgenderdescription	Gender description of the patient
Patientbirthsex	HL7 Gender code of the patient
Patientbirthsexdescription	Gender description of the patient
Addressline1	Address line of the patient
Addressline2	Address line of the patient
City	City
Statecode	State
Zipcode	Zip Code
Country	Country
Patientcontacthome	Patient home tel number
Patientcontactmobile	Patient mobile tel number
PatientPreferredlangcode	Patient preferred language code
PatientPreferredlang	Patient preferred language description
OMBRaceCode	OMB Race code of the patient

OMBRaceDescription	OMB Race description of the patient
CDCRaceCode	CDC Race code of the patient
CDCRaceDescription	CDC Race description of the patient
OMBEthnicityCode	OMB Ethnicity code of the patient
OMBEthnicityDescription	OMB Ethnicity description of the patient
CDCEthnicityCode	CDC Ethnicity code of the patient

CDCEthnicityDescription	CDC Ethnicity description of the patient
Patient > Identifier > ValueElement > Value	Unique identifier in EHR, of the patient
Patient > BirthDateElement > Value	DOB of the patient (mm/dd/yyyy)
Patient > MaritalStatus > TextElement > Value	Marital Status code of the patient

