EHRez Patient API

Technical Specification Document

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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 EHRez 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]`

Login

Authenticate the user with the system and obtain the auth_token

1. Request

Method	URL
POST	api/authenticate/

**Represents Mandatory*

Type	Params	Data Type
POST POST	username* password*	string string

2. Response

Status	Response
200	A unique token will be returned for every valid login. Token will be in the header of all response header message. Check Appendix B for JSON response. Type: String "Token":"<Token will be placed here>"
400	{"string":"Please provide username."}
400	{"string":"Please provide password."}
403	{"string":"Incorrect username or password."}
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	fhir/patient

Type	Params	Data Type
HEAD	Token*	String
GET	Identifier*	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	-[-{ "Patientfirstname": "Alice", "Patientlastname": "Newman", "Patientmiddlename": "Jones", "Patientpreviousname": "Alicia", "Patientprefix": "Mrs.", "Patientdateofbirth": "5/1/1970 8:00:00 PM", "Patientgender": "F", "Patientgenderdescription": "Female", "Patientbirthsex": "F", "Patientbirthsexdescription": "Female", "Addressline1": "1357, Amber Dr", "Addressline2": "Beaverton", "City": "Aloha", "Statecode": "OR", "Zipcode": "97006", "Country": "US",

```
        "Patientcontacthome": "(555) 723-1544",
        "Patientcontactmobile": "(555) 777-1234",
        "PatientPreferredlangcode": "en",
        "PatientPreferredlang": "English",
        "OMBRaceCode": "2106-3",
        "OMBRaceDescription": "White",
        "CDCRaceCode": "2108-9",
        "CDCRaceDescription": "European",
        "CDCEthnicityCode": "2186-5",
        "CDCEthnicityDescription": "Not Hispanic or Latino",
        "Patient": -{
            "Identifier": -[
               -{
                    "ValueElement": -{
                        "Value": "5622b639-b387-4227-a11c-7e74db5ea624"
                    }
                }
            ],
            "BirthDateElement": -{
                "Value": "5/1/1970 8:00:00 PM"
            },
            "MaritalStatus": -{
                "TextElement": -{
                    "Value": "S"
                }
            }
        }
    }
]
```


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

Allergy Intolerance

Method	URL
GET	fhir/patient/{patientid}/AllergyIntolerance?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	Token*	String
GET	Patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String (yyyy-mm-dd)

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

PatientID
The patientid for which patient have allergy in between start date and end date

Date (StartDate)
The start date from which date for Allergy Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for Allergy Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"AssertedDate": "11/28/2017 6:51:25 AM",
	"Code": -{
	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "RXNorm"

```
                },
                "VersionElement": -{
                    "Value": "2.16.840.1.113883.6.88"
                },
                "CodeElement": -{
                    "Value": "7980"
                },
                "DisplayElement": -{
                    "Value": "penicillin G benzathine"
                }
            }
        ]
    },
    "Reaction": -[
       -{
            "Substance": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "SNOMED CT"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.96"
                        },
                        "CodeElement": -{
                            "Value": "247472004"
                        },
                        "DisplayElement": -{
                            "Value": "Hives"
                        }
                    }
                ]
            }
        }
    ],
    "AllergyIntolerance": -{
        "Identifier": -[
           -{
                "ValueElement": -{
                    "Value": "402d507e-f8bd-4466-9fc6-3be33095124e"
                }
            }
        ],
        "Recorder": -{
            "ReferenceElement": -{
                "Value": "97f64b95-b7d2-40d5-8f35-d884cbde8656"
            }
        }
    },
```

```
        "OnSetDateTime": "5/10/1980 6:44:51 AM",
        "strClinicalStatus": "Active",
        "strVerificationStatus": "Confirmed",
        "Category": "Medication",
        "Type": "Allergy",
        "severity": "Moderate"
    },
    -{
        "AssertedDate": "11/28/2017 6:53:21 AM",
        "Code": -{
            "Coding": -[
                -{
                    "SystemElement": -{
                        "Value": "RXNorm"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.88"
                    },
                    "CodeElement": -{
                        "Value": "733"
                    },
                    "DisplayElement": -{
                        "Value": "ampicillin trihydrate"
                    }
                }
            ]
        },
        "Reaction": -[
            -{
                "Substance": -{
                    "Coding": -[
                        -{
                            "SystemElement": -{
                                "Value": "SNOMED CT"
                            },
                            "VersionElement": -{
                                "Value": "2.16.840.1.113883.6.96"
                            },
                            "CodeElement": -{
                                "Value": "247472004"
                            },
                            "DisplayElement": -{
                                "Value": "Hives"
                            }
                        }
                    ]
                }
            }
        ],
```

	"AllergyIntolerance": -{
	"Identifier": -[
	-{
	"ValueElement": -{
	"Value": "b3143557-90e0-42d9-a979-b720b538f9d0"
	}
	}
	],
	"Recorder": -{
	"ReferenceElement": -{
	"Value": "97f64b95-b7d2-40d5-8f35-d884cbde8656"
	}
	}
	},
	"OnSetDateTime": "5/10/1980 6:44:51 AM",
	"strClinicalStatus": "Active",
	"strVerificationStatus": "Confirmed",
	"Category": "Medication",
	"Type": "Allergy",
	"severity": "Moderate"
	}
	]

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

Medication

Method	URL
GET	fhir/patient/{patientid}/Medication?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type

HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have medication in between start date and end date

Date (StartDate)

The start date from which date for Medication Encounter for a patient has to be searched.

Date1 (EndDate)

The end date till which date for Medication Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"Status": "1",
	"Form": -{
	"TextElement": -{
	"Value": "powder for injection"
	}
	},
	"Medication": -{
	"Code": -{
	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "RXNorm"
	},
	"VersionElement": -{
	"Value": "2.16.840.1.113883.6.88"
	},
	"CodeElement": -{
	"Value": "309090"
	},
	"DisplayElement": -{

```
                        "Value": "CefTRIAXone Sodium"
                    }
                }
            ],
            "TextElement": -{
                "Value": "fed20a12-803a-4559-886d-1d1fe7ad3aba"
            }
        }
    },
    "Direction": "Two times daily",
    "Quantity": "1",
    "DateTimeStart": "6/22/2015 6:44:51 AM",
    "DateTimeEnd": "6/30/2015 12:00:00 AM",
    "Substitutions": "0",
    "Dosequantityunit": "Box",
    "DoseRoute": "injectable"
 },
-{
    "Status": "1",
    "Form": -{
        "TextElement": -{
            "Value": "solution"
        }
    },
    "Medication": -{
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "RXNorm"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.88"
                    },
                    "CodeElement": -{
                        "Value": "731241"
                    },
                    "DisplayElement": -{
                        "Value": "Aranesp"
                    }
                }
            ],
            "TextElement": -{
                "Value": "dde56405-ef4f-4b44-bcd1-48bf07216232"
            }
        }
    },
    "Direction": "Once a week",
    "Quantity": "30",
```

```
        "DateTimeStart": "6/22/2015 6:44:51 AM",
        "Substitutions": "0",
        "Dosequantityunit": "Box",
        "DoseRoute": "injectable"
    },
   -{
        "Status": "1",
        "Form": -{
            "TextElement": -{
                "Value": "tablet"
            }
        },
        "Medication": -{
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "RXNorm"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.88"
                        },
                        "CodeElement": -{
                            "Value": "209459"
                        },
                        "DisplayElement": -{
                            "Value": "Tylenol Extra Strength"
                        }
                    }
                ],
                "TextElement": -{
                    "Value": "4cac24d1-b426-4253-b8a8-79db0fd0e3e0"
                }
            }
        },
        "Direction": "As needed",
        "Quantity": "30",
        "DateTimeStart": "6/22/2015 6:44:51 AM",
        "DateTimeEnd": "7/2/2015 12:00:00 AM",
        "Substitutions": "0",
        "Dosequantityunit": "Tablet",
        "DoseRoute": "oral"
    }
]
```


204	{"string":"No Content."}
401	{"string":"Invalid Token."}

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

Condition

Method	URL
GET	fhir/patient/{patientid}/Condition?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String
GET	date1*	String

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

PatientID
The patientid from which patient have condition in between start date and end date

Date (StartDate)
The start date from which date for condition Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for condition Encounter for a patient has to be searched.

Response

Status	Response
200	-[

```
-{
    "OnSetDateTime": "12/31/2011 8:00:00 PM",
    "Condition": -{
        "Identifier": -[
           -{
                "Type": -{
                    "Coding": -[
                       -{
                            "CodeElement": -{
                                "Value": "64eea996-2ed9-4546-b3b5-251a163dcd61"
                            },
                            "DisplayElement": -{
                                "Value": "64eea996-2ed9-4546-b3b5-251a163dcd61"
                            }
                        }
                    ]
                },
                "ValueElement": -{
                    "Value": "64eea996-2ed9-4546-b3b5-251a163dcd61"
                }
            }
        ],
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "SNOMED CT"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.96"
                    },
                    "CodeElement": -{
                        "Value": "236578006"
                    },
                    "DisplayElement": -{
                        "Value": "Chronic rejection of renal transplant (disorder)"
                    }
                }
            ]
        },
        "ClinicalStatusElement": -{
            "Value": "Active"
        }
    },
    "Category": -[
       -{
            "Coding": -[
               -{
                    "CodeElement": -{
```

```
                        "Value": "Problem-List_Item"
                    },
                    "DisplayElement": -{
                        "Value": "Problem-List_Item"
                    }
                }
            ]
        }
    ]
},
-{
    "OnSetDateTime": "10/5/2011 7:00:00 PM",
    "Condition": -{
        "Identifier": -[
            -{
                "Type": -{
                    "Coding": -[
                        -{
                            "CodeElement": -{
                                "Value": "15608585-e02d-420a-afae-4682612e3871"
                            },
                            "DisplayElement": -{
                                "Value": "15608585-e02d-420a-afae-4682612e3871"
                            }
                        }
                    ]
                },
                "ValueElement": -{
                    "Value": "15608585-e02d-420a-afae-4682612e3871"
                }
            }
        ],
        "Code": -{
            "Coding": -[
                -{
                    "SystemElement": -{
                        "Value": "SNOMED CT"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.96"
                    },
                    "CodeElement": -{
                        "Value": "59621000"
                    },
                    "DisplayElement": -{
                        "Value": "Essential hypertension (disorder)"
                    }
                }
            ]
```

```
            },
            "ClinicalStatusElement": -{
                "Value": "Active"
            }
        },
        "Category": -[
           -{
                "Coding": -[
                   -{
                        "CodeElement": -{
                            "Value": "Problem-List_Item"
                        },
                        "DisplayElement": -{
                            "Value": "Problem-List_Item"
                        }
                    }
                ]
            }
        ]
    },
   -{
        "OnSetDateTime": "12/31/2006 8:00:00 PM",
        "Condition": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "CodeElement": -{
                                    "Value": "c7df6a7b-a800-4c45-b8d5-cdf23a325276"
                                },
                                "DisplayElement": -{
                                    "Value": "c7df6a7b-a800-4c45-b8d5-cdf23a325276"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "c7df6a7b-a800-4c45-b8d5-cdf23a325276"
                    }
                }
            ],
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "SNOMED CT"
                        },
                        "VersionElement": -{
```

```
                        "Value": "2.16.840.1.113883.6.96"
                    },
                    "CodeElement": -{
                        "Value": "83986005"
                    },
                    "DisplayElement": -{
                        "Value": "Severe hypothyroidism (disorder)"
                    }
                }
            ]
        },
        "ClinicalStatusElement": -{
            "Value": "Active"
        }
    },
    "Category": -[
       -{
            "Coding": -[
               -{
                    "CodeElement": -{
                        "Value": "Problem-List_Item"
                    },
                    "DisplayElement": -{
                        "Value": "Problem-List_Item"
                    }
                }
            ]
        }
    ]
 },
-{
    "OnSetDateTime": "6/22/2015 6:59:44 AM",
    "Condition": -{
        "Identifier": -[
           -{
                "Type": -{
                    "Coding": -[
                       -{
                            "CodeElement": -{
                                "Value": "6ca27d3d-cf0c-480d-8834-de5d69a3bb82"
                            },
                            "DisplayElement": -{
                                "Value": "6ca27d3d-cf0c-480d-8834-de5d69a3bb82"
                            }
                        }
                    ]
                },
                "ValueElement": -{
                    "Value": "6ca27d3d-cf0c-480d-8834-de5d69a3bb82"
```

```
                }
            }
        ],
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "SNOMED CT"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.96"
                    },
                    "CodeElement": -{
                        "Value": "386661006"
                    },
                    "DisplayElement": -{
                        "Value": "Fever (finding)"
                    }
                }
            ]
        },
        "ClinicalStatusElement": -{
            "Value": "Active"
        }
    },
    "Category": -[
       -{
            "Coding": -[
               -{
                    "CodeElement": -{
                        "Value": "Problem-List_Item"
                    },
                    "DisplayElement": -{
                        "Value": "Problem-List_Item"
                    }
                }
            ]
        }
    ]
 },
-{
    "OnSetDateTime": "12/31/2006 8:00:00 PM",
    "AbatementDateTime": "6/1/2007 9:00:00 PM",
    "Condition": -{
        "Identifier": -[
           -{
                "Type": -{
                    "Coding": -[
                       -{
```

```
                            "CodeElement": -{
                                "Value": "a0cb5dd7-99e1-4540-85cd-fec139e00800"
                            },
                            "DisplayElement": -{
                                "Value": "a0cb5dd7-99e1-4540-85cd-fec139e00800"
                            }
                        }
                    ]
                },
                "ValueElement": -{
                    "Value": "a0cb5dd7-99e1-4540-85cd-fec139e00800"
                }
            }
        ],
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "SNOMED CT"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.96"
                    },
                    "CodeElement": -{
                        "Value": "238131007"
                    },
                    "DisplayElement": -{
                        "Value": "Overweight (finding)"
                    }
                }
            ]
        },
        "ClinicalStatusElement": -{
            "Value": "Resolved"
        }
    },
    "Category": -[
       -{
            "Coding": -[
               -{
                    "CodeElement": -{
                        "Value": "Problem-List_Item"
                    },
                    "DisplayElement": -{
                        "Value": "Problem-List_Item"
                    }
                }
            ]
        }
```

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

Device

Method	URL
GET	fhir/patient/{patientid}/Device?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String (yyyy-mm-dd)

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

PatientID
The patientid from which patient have implanted date in between start date and end date

Date (StartDate)
The start date from which date for implanted date for a patient has to be searched.

Date1 (EndDate)
The end date till which date for implanted date for a patient has to be searched.

Response

Status	Response

200	[
	{
	"Name": "Cardiac resynchronization therapy implantable defibrillator",
	"Udi": "(01)00643169007222(17)160128(21)BLC200461H",
	"Issuer": "GS1",
	"DeviceIdentifier": "00643169007222",
	"AssigningAuthority": "FDA",
	"Device": {
	"Identifier": [
	{
	"ValueElement": {
	"Value": "3bf8d855-dde5-4855-a7dc-0b4a7d2b5046"
	},
	"Period": {
	"StartElement": {
	"Value": "6/22/2015 12:00:00 AM"
	},
	"EndElement": {
	"Value": "6/22/2015 12:00:00 AM"
	}
	}
	}
	],
	"ManufacturerElement": {
	"Value": "MEDTRONIC, INC."
	},
	"VersionElement": {
	"Value": "DTBA1QQ"
	},
	"ExpiryElement": {
	"Value": "1/28/2016 12:00:00 AM"
	},
	"Patient": {
	"ReferenceElement": {
	"Value": "5622b639-b387-4227-a11c-7e74db5ea624"
	}
	}
	},
	"Status": "Available"
	}
	]

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

Goal

Method	URL
GET	fhir/patient/{patientid}/Goal?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have goal in between start date and end date

Date (StartDate)
The start date from which date for goal Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for goal Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"StartDate": "11/28/2017 7:01:42 AM",
	"Goal": -{
	"Identifier": -[
	-{
	"Type": -{
	"Coding": -[
	-{

```
                                "CodeElement": -{
                                    "Value": "0a8da6aa-c054-4646-af4d-b3ccac809237"
                                },
                                "DisplayElement": -{
                                    "Value": "0a8da6aa-c054-4646-af4d-b3ccac809237"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "0a8da6aa-c054-4646-af4d-b3ccac809237"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 6:59:44 AM"
                        },
                        "EndElement": -{
                            "Value": "6/22/2015 6:59:44 AM"
                        }
                    }
                }
            ],
            "DescriptionElement": -{
                "Value": "Get rid of intermittent fever that is occurring every few weeks."
            }
        },
        "Status": "Planned"
    },
    -{
        "StartDate": "11/28/2017 7:01:42 AM",
        "Goal": -{
            "Identifier": -[
                -{
                    "Type": -{
                        "Coding": -[
                            -{
                                "CodeElement": -{
                                    "Value": "3f050587-e5bf-4783-a89e-fc0efba1374d"
                                },
                                "DisplayElement": -{
                                    "Value": "3f050587-e5bf-4783-a89e-fc0efba1374d"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "3f050587-e5bf-4783-a89e-fc0efba1374d"
                    },
                    "Period": -{
```

	"StartElement": -{
	"Value": "6/22/2015 6:59:44 AM"
	},
	"EndElement": -{
	"Value": "6/22/2015 6:59:44 AM"
	}
	}
	}
	},
	"DescriptionElement": -{
	"Value": "Need to gain more energy to do regular activities"
	}
	},
	"Status": "Planned"
	}
	]

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

Procedure

Method	URL
GET	fhir/patient/{patientid}/Procedure?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

`PatientID`
The patientid from which patient have procedure in between start date and end date

`Date (StartDate)`
The start date from which date for Procedure Encounter for a patient has to be searched.

`Date1 (EndDate)`
The end date till which date for Procedure Encounter for a patient has to be searched.

`Response`

Status	Response

200	-[
	-{
	"PerformedPeriod": -{
	"StartElement": -{
	"Value": "10/5/2011 12:00:00 AM"
	},
	"EndElement": -{
	"Value": "10/5/2011 12:00:00 AM"
	}
	},
	"Procedure": -{
	"Identifier": -[
	-{
	"Type": -{
	"Coding": -[
	-{
	"CodeElement": -{
	"Value": "b6778579-856d-40e2-9aa7-84fdbc71a689"
	}
	}
	]
	},
	"ValueElement": -{
	"Value": "b6778579-856d-40e2-9aa7-84fdbc71a689"
	}
	}
	],
	"Code": -{
	"Coding": -[
	-{

```
                    "SystemElement": -{
                        "Value": "CPT"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.12"
                    },
                    "CodeElement": -{
                        "Value": "33206"
                    },
                    "DisplayElement": -{
                        "Value": "INS NEW/RPLCMT PRM PACEMAKR W/TRANS ELTRD ATRIAL"
                    }
                }
            ]
        }
    },
    "Status": "Completed",
    "ServiceDeliveryLocation": "Ehrez  Clinic",
    "ServiceDeliveryLocationAddress": "San Juan,Puerto Rico",
    "ServiceDeliveryLocationTelPrimary": "(787) 625-0440 ",
    "ServiceDeliveryLocationTelSecondary": " "
},
-{
    "PerformedPeriod": -{
        "StartElement": -{
            "Value": "6/22/2015 6:59:44 AM"
        },
        "EndElement": -{
            "Value": "6/22/2015 6:59:44 AM"
        }
    },
    "Procedure": -{
        "Identifier": -[
            -{
                "Type": -{
                    "Coding": -[
                        -{
                            "CodeElement": -{
                                "Value": "198e32c5-a1be-4549-a439-e6bf53b393b1"
                            }
                        }
                    ]
                },
                "ValueElement": -{
                    "Value": "198e32c5-a1be-4549-a439-e6bf53b393b1"
                }
            }
        ],
        "Code": -{
```

	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "CPT"
	},
	"VersionElement": -{
	"Value": "2.16.840.1.113883.6.12"
	},
	"CodeElement": -{
	"Value": "94640"
	},
	"DisplayElement": -{
	"Value": "PRESSURIZED/NONPRESSURIZED INHALATION TREATMENT"
	}
	}
	]
	}
	},
	"Status": "Completed",
	"ServiceDeliveryLocation": "E Health Partners Clinic ",
	"ServiceDeliveryLocationAddress": "Calle Alda 25,Guaynabo,Puerto Rico,00969",
	"ServiceDeliveryLocationTelPrimary": "(787) 625-0440 ",
	"ServiceDeliveryLocationTelSecondary": " "
	}
	]

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

Immunization

Method	URL
GET	fhir/patient/{patientid}/Immunization?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type

HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have immunization in between start date and end date

Date (StartDate)

The start date from which date for Immunization Encounter for a patient has to be searched.

Date1 (EndDate)

The end date till which date for Immunization Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"Immunization": -{
	"Identifier": -[
	-{
	"ValueElement": -{
	"Value": "c0f2d37c-051d-456b-8319-7b2323d00035"
	}
	}
	],
	"DateElement": -{
	"Value": "6/22/2015 4:59:44 PM"
	},
	"VaccineCode": -{
	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "CVX"
	},
	"VersionElement": -{
	"Value": "2.16.840.1.113883.12.292"
	},

```
                        "CodeElement": -{
                            "Value": "166"
                        },
                        "DisplayElement": -{
                            "Value": "Influenza virus vaccine, quadrivalent (IIV4), split virus,
preservative free, for intradermal use"
                        }
                    }
                ],
                "TextElement": -{
                    "Value": "Immunization was not given - Patient rejected immunization"
                }
            },
            "Manufacturer": -{
                "ReferenceElement": -{
                    "Value": "be5d3852-cfad-e211-93f4-b499ba5c20a4"
                },
                "DisplayElement": -{
                    "Value": "Immuno-U.S., Inc."
                }
            },
            "ExpirationDateElement": -{
                "Value": "10/18/2049 6:30:00 PM"
            },
            "Site": -{
                "Coding": -[
                   -{
                        "DisplayElement": -{
                            "Value": "Bilateral Nares"
                        }
                    }
                ]
            },
            "Route": -{
                "Coding": -[
                   -{
                        "DisplayElement": -{
                            "Value": "BUCCAL"
                        }
                    }
                ]
            }
        },
        "Status": "Cancelled"
    },
   -{
        "Immunization": -{
            "Identifier": -[
               -{
                    "ValueElement": -{
```

```
                        "Value": "dcb2d6a9-d515-4139-a1ee-f00d9fae3a40"
                    }
                }
            ],
            "DateElement": -{
                "Value": "1/4/2012 7:00:00 PM"
            },
            "VaccineCode": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "CVX"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.12.292"
                        },
                        "CodeElement": -{
                            "Value": "106"
                        },
                        "DisplayElement": -{
                            "Value": "Diphtheria, tetanus toxoids, and acellular pertussis vaccine
(DTaP), for use in individuals younger than seven years, for intramuscular use"
                        }
                    }
                ]
            },
            "Manufacturer": -{
                "ReferenceElement": -{
                    "Value": "be5d3852-cfad-e211-93f4-b499ba5c20a4"
                },
                "DisplayElement": -{
                    "Value": "Immuno-U.S., Inc."
                }
            },
            "LotNumberElement": -{
                "Value": "2"
            },
            "Site": -{
                "Coding": -[
                   -{
                        "DisplayElement": -{
                            "Value": "Bilateral Nares"
                        }
                    }
                ]
            },
            "Route": -{
                "Coding": -[
                   -{
                        "DisplayElement": -{
```

	"Value": "APPLY EXTERNALLY" } }] } }, "Status": "Completed" }]
204	{"string":"No Content."}
401	{"string":"Invalid Token."}
500	{"string":"Something went wrong. Please try again later."}

CarePlan CareTeam

Method	URL
GET	fhir/patient/{patientid}/CarePlanCareTeam?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have CareTeam in between start date and end date

Date (StartDate)
The start date from which date for CareTeam Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for CareTeam Encounter for a patient has to be searched.

Response

Status	Response

200	[
	{
	"Intent": "PLAN",
	"Title": "CAREPLAN",
	"Status": "Active",
	"Teammember": "Albert Davis",
	"Address": "Office Address,2472, Rocky place,Beaverton,97006",
	"PrimaryPhone": "(555) 555-1002 ",
	"SecondaryPhone": " ",
	"CarePlan": {
	"Identifier": [
	{
	"ValueElement": {
	"Value": "d9493213-ce5e-47b0-bc55-437e1d059f81"
	}
	}
	],
	"DescriptionElement": {
	"Value": "CAREPLAN"
	}
	}
	},
	{
	"Intent": "PLAN",
	"Title": "CAREPLAN",
	"Status": "Active",
	"Teammember": "Tracy Davis",
	"Address": "2472, Rocky place,Beaverton,97006",
	"PrimaryPhone": "555-555-1002 ",
	"SecondaryPhone": " ",
	"CarePlan": {
	"Identifier": [
	{
	"ValueElement": {
	"Value": "17606d62-50f7-4919-9e5d-b5493247210f"
	}
	}
	],
	"DescriptionElement": {

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

CarePlan Immunization

Method	URL
GET	fhir/patient/{patientid}/CarePlanCareTeam?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have CarePlanImmunization in between start date and end date

Date (StartDate)
The start date from which date for CarePlanImmunization Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for CarePlanImmunization Encounter for a patient has to be

searched.

Response

Status	Response
200	
401	{"string":"Invalid Token."}
500	{"string":"Something went wrong. Please try again later."}

CarePlan LabOrders

Method	URL
GET	fhir/patient/{patientid}/CarePlanLabOrders?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have CarePlanLabOrders in between start date and end date

Date (StartDate)

The start date from which date for CarePlanLabOrders Encounter for a patient has to be searched.

Date1 (EndDate)

The end date till which date for CarePlanLabOrders Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"Intent": "PLAN",
	"Title": "CAREPLAN",
	"Status": "Active",
	"Detailcodecodingsystem": "LOINC",
	"Detailcodecodingcode": "36643-5",
	"Detailcodecodingversion": "2.16.840.1.113883.6.1",
	"Detailcodecodingdisplay": "Radiologic examination, chest, complete, minimum of 4 views;",
	"DetailCodeText": "Radiologic examination, chest, complete, minimum of 4 views;",
	"DetailScheduledperiodstart": "6/22/2018 6:59:44 AM",
	"Detailquantityvalue": "0",
	"CarePlan": -{
	"Identifier": -[
	-{
	"ValueElement": -{
	"Value": "912dd29a-4e86-47c7-8b0f-130552b41678"
	}
	}
	],
	"DescriptionElement": -{
	"Value": "CAREPLAN"
	}
	}
	},
	-{
	"Intent": "PLAN",
	"Title": "CAREPLAN",
	"Status": "Active",
	"Detailcodecodingsystem": "LOINC",
	"Detailcodecodingcode": "11524-6",
	"Detailcodecodingversion": "2.16.840.1.113883.6.1",
	"Detailcodecodingdisplay": "Electrocardiogram, routine ECG with at least 12 leads; with interpretation and report",
	"DetailCodeText": "Electrocardiogram, routine ECG with at least 12 leads; with interpretation and report",
	"DetailScheduledperiodstart": "6/23/2015 6:59:44 AM",
	"Detailquantityvalue": "0",
	"CarePlan": -{
	"Identifier": -[
	-{
	"ValueElement": -{
	"Value": "2e7bfa64-e611-437b-9ab8-234d8a4a8160"
	}
	}

```
            ],
            "DescriptionElement": -{
                "Value": "CAREPLAN"
            }
        }
    },
   -{
        "Intent": "PLAN",
        "Title": "CAREPLAN",
        "Status": "Active",
        "Detailcodecodingsystem": "LOINC",
        "Detailcodecodingcode": "24357-6",
        "Detailcodecodingversion": "2.16.840.1.113883.6.1",
        "Detailcodecodingdisplay": "Urinalysis; bacteriuria screen, except by culture or dipstick",
        "DetailCodeText": "Urinalysis; bacteriuria screen, except by culture or dipstick",
        "DetailScheduledperiodstart": "6/29/2015 6:59:44 AM",
        "Detailquantityvalue": "0",
        "CarePlan": -{
            "Identifier": -[
               -{
                    "ValueElement": -{
                        "Value": "701734f8-8824-410e-b9fb-4155d59d3539"
                    }
                }
            ],
            "DescriptionElement": -{
                "Value": "CAREPLAN"
            }
        }
    }
]
```


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

CarePlan Medications

Method	URL

GET	fhir/patient/{patientid}/CarePlanMedication?date=gt{fdate1}&lt{tdate

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have CarePlanMedication in between start date and end date

Date (StartDate)

The start date from which date for CarePlanMedication Encounter for a patient has to be searched.

Date1 (EndDate)

The end date till which date for CarePlanMedication Encounter for a patient has to be searched.

Response

Status	Response
200	-[-{ "Intent": "PLAN", "Title": "CAREPLAN", "Status": "Active", "Detailcodecodingsystem": "RxNorm", "Detailcodecodingcode": "284215", "Detailcodecodingversion": "2.16.840.1.113883.6.96", "Detailcodecodingdisplay": "Clindamycin Hydrochloride", "DetailCodeText": "Clindamycin Hydrochloride", "DetailCategoryCodeText": "Drug", "DetailScheduledperiodstart": "6/23/2015 6:59:44 AM", "DetailScheduledperiodend": "6/24/2018 12:00:00 AM",

	"Sig": "three times a day if pain does not subside",
	"CarePlan": -{
	"Identifier": -[
	-{
	"ValueElement": -{
	"Value": "9c734a3c-cb84-4c8d-8b0b-d82a641f1b53"
	}
	}
	],
	"DescriptionElement": -{
	"Value": "CAREPLAN"
	}
	}
	}
	]

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

CarePlan Procedures

Method	URL
GET	fhir/patient/{patientid}/CarePlanProcedure?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have CarePlanProcedures in between start date and end date

Date (StartDate)
The start date from which date for CarePlanProcedures Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for CarePlanProcedures Encounter for a patient has to be searched.

Response

Status	Response

200	[
	{
	"Intent": "PLAN",
	"Title": "CAREPLAN",
	"Status": "Active",
	"Detailcodecodingsystem": "CPT-4",
	"Detailcodecodingcode": "99204",
	"Detailcodecodingversion": "2.16.840.1.113883.6.12",
	"Detailcodecodingdisplay": "OFFICE OUTPATIENT NEW 30 MINUTES",
	"DetailCodeText": "OFFICE OUTPATIENT NEW 30 MINUTES",
	"DetailScheduledperiodstart": "7/1/2015 6:59:44 AM",
	"DetailScheduledperiodend": "6/30/2015 6:30:00 PM",
	"Detailquantityvalue": "0.0",
	"CarePlan": {
	"Identifier": [
	{
	"ValueElement": {
	"Value": "413bb29a-d2ed-418f-8c6c-d1e2187a5193"
	}
	}
	],
	"DescriptionElement": {
	"Value": "CAREPLAN"
	}
	}
	}
	]

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

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

CarePlan Assesment

Method	URL
GET	fhir/patient/{patientid}/CarePlanAssesment?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

token

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

PatientID

The patientid from which patient have CarePlanAssesment in between start date and end date

Date (StartDate)

The start date from which date for CarePlanAssesment Encounter for a patient has to be searched.

Date1 (EndDate)

The end date till which date for CarePlanAssesment Encounter for a patient has to be searched.

Response

Status	Response
200	-[-{

```
        "Title": "ASSESMENT",
        "Status": "Active",
        "DetailCodeText": "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.",
        "CarePlan": -{
            "Identifier": -[
               -{
                    "ValueElement": -{
                        "Value": "d9493213-ce5e-47b0-bc55-437e1d059f81"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 6:59:44 AM"
                        },
                        "EndElement": -{
                            "Value": "6/22/2015 6:59:44 AM"
                        }
                    }
                }
            ],
            "DescriptionElement": -{
                "Value": "ASSESMENT"
            }
        }
    },
   -{
        "Title": "ASSESMENT",
        "Status": "Active",
        "CarePlan": -{
            "Identifier": -[
               -{
                    "ValueElement": -{
                        "Value": "17606d62-50f7-4919-9e5d-b5493247210f"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 6:44:51 AM"
                        },
                        "EndElement": -{
                            "Value": "6/22/2015 6:44:51 AM"
                        }
                    }
                }
            ],
            "DescriptionElement": -{
                "Value": "ASSESMENT"
            }
        }
    }
```

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

ConditionHealthConcern

Method	URL
GET	fhir/patient/{patientid}/ConditionHealthConcern?date=gt{fdate1}&lt{tate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have ConditionHealthConcerns in between start date and end date

Date (StartDate)
The start date from which date for ConditionHealthconcerns Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for ConditionHealthConcerns Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"OnSetDateTime": "6/22/2015 6:59:44 AM",
	"Condition": -{
	"Identifier": -[
	-{
	"Type": -{
	"Coding": -[
	-{
	"CodeElement": -{
	"Value": "896a1f64-dc38-4682-a909-019ea1baaa2b"
	},
	"DisplayElement": -{
	"Value": "896a1f64-dc38-4682-a909-019ea1baaa2b"
	}
	}
	]
	},
	"ValueElement": -{
	"Value": "896a1f64-dc38-4682-a909-019ea1baaa2b"
	}
	}
	],
	"Code": -{
	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "SNOMED CT"
	},
	"VersionElement": -{
	"Value": "2.16.840.1.113883.6.96"
	},
	"CodeElement": -{
	"Value": "190268003"
	},
	"DisplayElement": -{
	"Value": "Congenital hypothyroidism (disorder)"
	}
	}
	]
	},
	"ClinicalStatusElement": -{

```
                "Value": "Active"
            }
        },
        "Category": -[
           -{
                "Coding": -[
                   -{
                        "CodeElement": -{
                            "Value": "Problem-List_Item"
                        },
                        "DisplayElement": -{
                            "Value": "Problem-List_Item"
                        }
                    }
                ]
            }
        ]
    },
   -{
        "OnSetDateTime": "6/22/2015 6:59:44 AM",
        "Condition": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "CodeElement": -{
                                    "Value": "5068cb33-92b0-4984-aaa2-384200827051"
                                },
                                "DisplayElement": -{
                                    "Value": "5068cb33-92b0-4984-aaa2-384200827051"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "5068cb33-92b0-4984-aaa2-384200827051"
                    }
                }
            ],
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "SNOMED CT"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.96"
                        },
```

```
                        "CodeElement": -{
                            "Value": "276360005"
                        },
                        "DisplayElement": -{
                            "Value": "Preoccupation with body weight (finding)"
                        }
                    }
                ]
            },
            "ClinicalStatusElement": -{
                "Value": "Active"
            }
        },
        "Category": -[
           -{
                "Coding": -[
                   -{
                        "CodeElement": -{
                            "Value": "Problem-List_Item"
                        },
                        "DisplayElement": -{
                            "Value": "Problem-List_Item"
                        }
                    }
                ]
            }
        ]
    },
   -{
        "OnSetDateTime": "6/22/2015 6:59:44 PM",
        "Condition": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "CodeElement": -{
                                    "Value": "34aebacb-de45-4b97-950b-40fb2ff3f523"
                                },
                                "DisplayElement": -{
                                    "Value": "34aebacb-de45-4b97-950b-40fb2ff3f523"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "34aebacb-de45-4b97-950b-40fb2ff3f523"
                    }
                }
```

```
            ],
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "SNOMED CT"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.96"
                        },
                        "CodeElement": -{
                            "Value": "48146000"
                        },
                        "DisplayElement": -{
                            "Value": "Diastolic hypertension (disorder)"
                        }
                    }
                ]
            },
            "ClinicalStatusElement": -{
                "Value": "Active"
            }
        },
        "Category": -[
           -{
                "Coding": -[
                   -{
                        "CodeElement": -{
                            "Value": "Problem-List_Item"
                        },
                        "DisplayElement": -{
                            "Value": "Problem-List_Item"
                        }
                    }
                ]
            }
        ]
    },
   -{
        "OnSetDateTime": "6/22/2015 6:59:44 PM",
        "Condition": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "CodeElement": -{
                                    "Value": "223ad425-c62d-4ba1-be38-ac3b52c43fb1"
                                },
```

```
                                "DisplayElement": -{
                                    "Value": "223ad425-c62d-4ba1-be38-ac3b52c43fb1"
                                }
                            }
                        ]
                    },
                    "ValueElement": -{
                        "Value": "223ad425-c62d-4ba1-be38-ac3b52c43fb1"
                    }
                }
            ],
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "SNOMED CT"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.96"
                        },
                        "CodeElement": -{
                            "Value": "73462009"
                        },
                        "DisplayElement": -{
                            "Value": "Chronic vocal tic disorder (disorder)"
                        }
                    }
                ]
            },
            "ClinicalStatusElement": -{
                "Value": "Active"
            }
        },
        "Category": -[
           -{
                "Coding": -[
                   -{
                        "CodeElement": -{
                            "Value": "Problem-List_Item"
                        },
                        "DisplayElement": -{
                            "Value": "Problem-List_Item"
                        }
                    }
                ]
            }
        ]
    }
]
```

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

Observation Smokingstatus

Method	URL
GET	fhir/patient/{patientid}/ObservationSmokingStatus?date=gt{fdate1}&lt tdate}

Represents Mandatory

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have ObservationSmokingStatus in between start date and end date

Date (StartDate)
The start date from which date for ObservationSmokingStatus Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for ObservationSmokingStatus Encounter for a patient has to be searched.

Response

Status	Response

200	-[
	-{
	"EffectivePeriod": -{
	"StartElement": -{
	"Value": "6/22/2015 12:00:00 AM"
	}
	},
	"ValueCodeableConcept": -{
	"Coding": -[
	-{
	"SystemElement": -{
	"Value": "SNOMED CT"
	},
	"VersionElement": -{
	"Value": "2.16.840.1.113883.6.96"
	},
	"CodeElement": -{
	"Value": "449868002"
	},
	"DisplayElement": -{
	"Value": "Current every day smoker"
	}
	}
	]
	},
	"Observation": -{
	"Identifier": -[
	-{
	"Type": -{
	"Coding": -[
	-{
	"CodeElement": -{
	"Value": "7010a402-1e20-4473-bb9f-6c06e5440859"
	}
	}
	]
	},
	"ValueElement": -{
	"Value": "7010a402-1e20-4473-bb9f-6c06e5440859"
	},
	"Period": -{
	"StartElement": -{
	"Value": "11/28/2017 7:11:51 AM"
	}
	}
	}
	],

```
            "Category": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "Observation Category Codes"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.4.642.3.392"
                        },
                        "CodeElement": -{
                            "Value": "social-history"
                        },
                        "DisplayElement": -{
                            "Value": "SOCIAL HISTORY"
                        }
                    }
                ]
            },
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "LOINC"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.1"
                        },
                        "CodeElement": -{
                            "Value": "72166-2"
                        },
                        "DisplayElement": -{
                            "Value": "Current Smoking Status"
                        }
                    }
                ],
                "TextElement": -{
                    "Value": "Current Smoking Status"
                }
            },
            "IssuedElement": -{
                "Value": "2017-12-12T07:23:15+00:00"
            }
        },
        "Status": "Final"
    }
]
```


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

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

Observation LabResult

Method	URL
GET	fhir/patient/{patientid}/ObservationLabResult?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have ObservationLabResult in between start date and end date

Date (StartDate)
The start date from which date for ObservationLabResult Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for ObservationLabResult Encounter for a patient has to be searched.

Response

Status	Response
200	-[

```
  -{
      "EffectiveDateTime": "6/22/2015 12:00:00 AM",
      "Observation": -{
          "Identifier": -[
             -{
                  "Type": -{
                      "Coding": -[
                         -{
                              "SystemElement": -{
                                  "Value": "LOINC"
                              },
                              "VersionElement": -{
                                  "Value": "2.16.840.1.113883.6.1"
                              },
                              "CodeElement": -{
                                  "Value": "24357-6"
                              },
                              "DisplayElement": -{
                                  "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                              }
                          }
                      ],
                      "TextElement": -{
                          "Value": "8a5eb259-1072-49b9-b70a-22bd85fa27aa"
                      }
                  },
                  "ValueElement": -{
                      "Value": "8a5eb259-1072-49b9-b70a-22bd85fa27aa"
                  },
                  "Period": -{
                      "StartElement": -{
                          "Value": "6/22/2015 12:00:00 AM"
                      }
                  }
              }
          ],
          "Category": -{
              "Coding": -[
                 -{
                      "SystemElement": -{
                          "Value": "Observation Category Codes"
                      },
                      "VersionElement": -{
                          "Value": "2.16.840.1.113883.4.642.3.392"
                      },
                      "CodeElement": -{
                          "Value": "LABORATORY"
                      },
                      "DisplayElement": -{
```

```
                        "Value": "LABORATORY"
                    }
                }
            ]
        },
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "LOINC"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.1"
                    },
                    "CodeElement": -{
                        "Value": "5767-9"
                    },
                    "DisplayElement": -{
                        "Value": "Appearance of Urine"
                    }
                }
            ]
        },
        "IssuedElement": -{
            "Value": "2017-12-12T09:40:35+00:00"
        }
    },
    "LabResultValue": "CLEAR",
    "Status": "Registered"
  },
 -{
    "EffectiveDateTime": "6/22/2015 12:00:00 AM",
    "Observation": -{
        "Identifier": -[
           -{
                "Type": -{
                    "Coding": -[
                       -{
                            "SystemElement": -{
                                "Value": "LOINC"
                            },
                            "VersionElement": -{
                                "Value": "2.16.840.1.113883.6.1"
                            },
                            "CodeElement": -{
                                "Value": "24357-6"
                            },
                            "DisplayElement": -{
                                "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
```

```
                        }
                    }
                ],
                "TextElement": -{
                    "Value": "73513995-063e-4f1d-a47b-2ed2e0023ac0"
                }
            },
            "ValueElement": -{
                "Value": "73513995-063e-4f1d-a47b-2ed2e0023ac0"
            },
            "Period": -{
                "StartElement": -{
                    "Value": "6/22/2015 12:00:00 AM"
                }
            }
        }
    ],
    "Category": -{
        "Coding": -[
           -{
                "SystemElement": -{
                    "Value": "Observation Category Codes"
                },
                "VersionElement": -{
                    "Value": "2.16.840.1.113883.4.642.3.392"
                },
                "CodeElement": -{
                    "Value": "LABORATORY"
                },
                "DisplayElement": -{
                    "Value": "LABORATORY"
                }
            }
        ]
    },
    "Code": -{
        "Coding": -[
           -{
                "SystemElement": -{
                    "Value": "LOINC"
                },
                "VersionElement": -{
                    "Value": "2.16.840.1.113883.6.1"
                },
                "CodeElement": -{
                    "Value": "5804-0"
                },
                "DisplayElement": -{
                    "Value": "Protein[Mass/Volume] in urine by test strip"
```

```
                        }
                    }
                ]
            },
            "IssuedElement": -{
                "Value": "2017-12-12T09:40:35+00:00"
            }
        },
        "LabResultValue": "100",
        "LabResultUnit": "mg/dL",
        "Status": "Registered"
    },
   -{
        "EffectiveDateTime": "6/22/2015 12:00:00 AM",
        "Observation": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "SystemElement": -{
                                    "Value": "LOINC"
                                },
                                "VersionElement": -{
                                    "Value": "2.16.840.1.113883.6.1"
                                },
                                "CodeElement": -{
                                    "Value": "36643-5"
                                },
                                "DisplayElement": -{
                                    "Value": "Radiologic examination, chest, 2 views, frontal and
lateral;"
                                }
                            }
                        ],
                        "TextElement": -{
                            "Value": "07d5c171-daa7-45bd-99aa-818314e6224a"
                        }
                    },
                    "ValueElement": -{
                        "Value": "07d5c171-daa7-45bd-99aa-818314e6224a"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 12:00:00 AM"
                        }
                    }
                }
            ],
            "Category": -{
```

```
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "Observation Category Codes"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.4.642.3.392"
                        },
                        "CodeElement": -{
                            "Value": "LABORATORY"
                        },
                        "DisplayElement": -{
                            "Value": "LABORATORY"
                        }
                    }
                ]
            },
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "LOINC"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.1"
                        },
                        "CodeElement": -{
                            "Value": "36643-5"
                        },
                        "DisplayElement": -{
                            "Value": "Radiologic examination Chest  2 Views"
                        }
                    }
                ]
            },
            "IssuedElement": -{
                "Value": "2017-12-12T09:40:35+00:00"
            }
        },
        "LabResultValue": "Lungs are not clear, cannot rule out Anemia. Other tests are required to
determine the presence or absence of Anemia",
        "Status": "Registered"
    },
   -{
        "EffectiveDateTime": "6/22/2015 12:00:00 AM",
        "Observation": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
```

```
                        -{
                            "SystemElement": -{
                                "Value": "LOINC"
                            },
                            "VersionElement": -{
                                "Value": "2.16.840.1.113883.6.1"
                            },
                            "CodeElement": -{
                                "Value": "24357-6"
                            },
                            "DisplayElement": -{
                                "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                            }
                        }
                    ],
                    "TextElement": -{
                        "Value": "85580d2f-bada-4613-886a-af29c0756068"
                    }
                },
                "ValueElement": -{
                    "Value": "85580d2f-bada-4613-886a-af29c0756068"
                },
                "Period": -{
                    "StartElement": -{
                        "Value": "6/22/2015 12:00:00 AM"
                    }
                }
            }
        ],
        "Category": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "Observation Category Codes"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.4.642.3.392"
                    },
                    "CodeElement": -{
                        "Value": "LABORATORY"
                    },
                    "DisplayElement": -{
                        "Value": "LABORATORY"
                    }
                }
            ]
        },
        "Code": -{
            "Coding": -[
```

```
                    -{
                        "SystemElement": -{
                            "Value": "LOINC"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.1"
                        },
                        "CodeElement": -{
                            "Value": "5811-5"
                        },
                        "DisplayElement": -{
                            "Value": "Specific gravity of Urine by Test strip"
                        }
                    }
                ]
            },
            "IssuedElement": -{
                "Value": "2017-12-12T09:40:35+00:00"
            }
        },
        "LabResultValue": "1.015",
        "Status": "Registered"
    },
   -{
        "EffectiveDateTime": "6/22/2015 12:00:00 AM",
        "Observation": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "SystemElement": -{
                                    "Value": "LOINC"
                                },
                                "VersionElement": -{
                                    "Value": "2.16.840.1.113883.6.1"
                                },
                                "CodeElement": -{
                                    "Value": "24357-6"
                                },
                                "DisplayElement": -{
                                    "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                                }
                            }
                        ],
                        "TextElement": -{
                            "Value": "51df316d-b992-46ca-acf9-c53a1caea3f0"
                        }
                    },
```

```
                "ValueElement": -{
                    "Value": "51df316d-b992-46ca-acf9-c53a1caea3f0"
                },
                "Period": -{
                    "StartElement": -{
                        "Value": "6/22/2015 12:00:00 AM"
                    }
                }
            }
        ],
        "Category": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "Observation Category Codes"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.4.642.3.392"
                    },
                    "CodeElement": -{
                        "Value": "LABORATORY"
                    },
                    "DisplayElement": -{
                        "Value": "LABORATORY"
                    }
                }
            ]
        },
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "LOINC"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.1"
                    },
                    "CodeElement": -{
                        "Value": "5792-7"
                    },
                    "DisplayElement": -{
                        "Value": "Glucose [Mass/volume] in urine by test strip"
                    }
                }
            ]
        },
        "IssuedElement": -{
            "Value": "2017-12-12T09:40:36+00:00"
        }
```

```
        },
        "LabResultValue": "50",
        "LabResultUnit": "mg/dL",
        "Status": "Registered"
    },
   -{
        "EffectiveDateTime": "6/22/2015 12:00:00 AM",
        "Observation": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "SystemElement": -{
                                    "Value": "LOINC"
                                },
                                "VersionElement": -{
                                    "Value": "2.16.840.1.113883.6.1"
                                },
                                "CodeElement": -{
                                    "Value": "24357-6"
                                },
                                "DisplayElement": -{
                                    "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                                }
                            }
                        ],
                        "TextElement": -{
                            "Value": "ddfd0997-886f-4156-94a1-f488601c71ac"
                        }
                    },
                    "ValueElement": -{
                        "Value": "ddfd0997-886f-4156-94a1-f488601c71ac"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 12:00:00 AM"
                        }
                    }
                }
            ],
            "Category": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "Observation Category Codes"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.4.642.3.392"
```

```
                    },
                    "CodeElement": -{
                        "Value": "LABORATORY"
                    },
                    "DisplayElement": -{
                        "Value": "LABORATORY"
                    }
                }
            ]
        },
        "Code": -{
            "Coding": -[
               -{
                    "SystemElement": -{
                        "Value": "LOINC"
                    },
                    "VersionElement": -{
                        "Value": "2.16.840.1.113883.6.1"
                    },
                    "CodeElement": -{
                        "Value": "5778-6"
                    },
                    "DisplayElement": -{
                        "Value": "Color of Urine"
                    }
                }
            ]
        },
        "IssuedElement": -{
            "Value": "2017-12-12T09:40:36+00:00"
        }
    },
    "LabResultValue": "YELLOW",
    "Status": "Registered"
 },
-{
    "EffectiveDateTime": "6/22/2015 12:00:00 AM",
    "Observation": -{
        "Identifier": -[
           -{
                "Type": -{
                    "Coding": -[
                       -{
                            "SystemElement": -{
                                "Value": "LOINC"
                            },
                            "VersionElement": -{
                                "Value": "2.16.840.1.113883.6.1"
                            },
```

```
                                "CodeElement": -{
                                    "Value": "24357-6"
                                },
                                "DisplayElement": -{
                                    "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                                }
                            }
                        ],
                        "TextElement": -{
                            "Value": "d0ed0b06-91d9-46e8-8d5e-f57a07052f21"
                        }
                    },
                    "ValueElement": -{
                        "Value": "d0ed0b06-91d9-46e8-8d5e-f57a07052f21"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 12:00:00 AM"
                        }
                    }
                }
            ],
            "Category": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "Observation Category Codes"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.4.642.3.392"
                        },
                        "CodeElement": -{
                            "Value": "LABORATORY"
                        },
                        "DisplayElement": -{
                            "Value": "LABORATORY"
                        }
                    }
                ]
            },
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "LOINC"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.1"
                        },
```

```
                        "CodeElement": -{
                            "Value": "5803-2"
                        },
                        "DisplayElement": -{
                            "Value": "pH of Urine by Test strip"
                        }
                    }
                ]
            },
            "IssuedElement": -{
                "Value": "2017-12-12T09:40:36+00:00"
            }
        },
        "LabResultValue": "5.0",
        "LabResultUnit": "[ph]",
        "Status": "Registered"
    },
   -{
        "EffectiveDateTime": "6/22/2015 12:00:00 AM",
        "Observation": -{
            "Identifier": -[
               -{
                    "Type": -{
                        "Coding": -[
                           -{
                                "SystemElement": -{
                                    "Value": "LOINC"
                                },
                                "VersionElement": -{
                                    "Value": "2.16.840.1.113883.6.1"
                                },
                                "CodeElement": -{
                                    "Value": "24357-6"
                                },
                                "DisplayElement": -{
                                    "Value": "Urinalysis; bacteriuria screen, except by culture or
dipstick"
                                }
                            }
                        ],
                        "TextElement": -{
                            "Value": "256a8430-a8fe-453a-b754-fd7746e9e455"
                        }
                    },
                    "ValueElement": -{
                        "Value": "256a8430-a8fe-453a-b754-fd7746e9e455"
                    },
                    "Period": -{
                        "StartElement": -{
                            "Value": "6/22/2015 12:00:00 AM"
```

```
                        }
                    }
                }
            ],
            "Category": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "Observation Category Codes"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.4.642.3.392"
                        },
                        "CodeElement": -{
                            "Value": "LABORATORY"
                        },
                        "DisplayElement": -{
                            "Value": "LABORATORY"
                        }
                    }
                ]
            },
            "Code": -{
                "Coding": -[
                   -{
                        "SystemElement": -{
                            "Value": "LOINC"
                        },
                        "VersionElement": -{
                            "Value": "2.16.840.1.113883.6.1"
                        },
                        "CodeElement": -{
                            "Value": "5797-6"
                        },
                        "DisplayElement": -{
                            "Value": "Ketones [Mass/Volume] in urine by test strip"
                        }
                    }
                ]
            },
            "IssuedElement": -{
                "Value": "2017-12-12T09:40:36+00:00"
            }
        },
        "LabResultValue": "Negative",
        "Status": "Registered"
    }
]
```

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

Observation Vitals

Method	URL
GET	fhir/patient/{patientid}/ObservationVitals?date=gt{fdate1}&lt{tdate}

**Represents Mandatory*

Type	Params	Data Type
HEAD	token*	String
GET	patientid*	String
GET	date*	String(yyyy-mm-dd)
GET	date1*	String(yyyy-mm-dd)

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

PatientID
The patientid from which patient have ObservationVitals in between start date and end date

Date (StartDate)
The start date from which date for Observationvitals Encounter for a patient has to be searched.

Date1 (EndDate)
The end date till which date for ObservationVitals Encounter for a patient has to be searched.

Response

Status	Response
200	-[-{

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            "EndElement": -{
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                                    "Value": "0e31da77-c8a1-4966-b67d-58ead5ffe5f2"
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                        ]
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                    "ValueElement": -{
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                            "Value": "11/28/2017 7:11:34 AM"
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                            "Value": "2.16.840.1.113883.4.642.3.392"
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                    "DisplayElement": -{
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                    }
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                        "Value": "LOINC"
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                    "VersionElement": -{
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                }
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        "IssuedElement": -{
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    "Weight": -{
        "WeightCode": "29463-7",
        "WeightUnit": "kg",
        "WeightValue": "88.00"
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        "HeightUnit": "cm",
        "HeightValue": "177.00"
    },
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        "RespiratoryRateUnit": "{beats}/min",
        "RespiratoryRateValue": "18.00"
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        "HearRateCode": "8867-4",
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	"BloodoximetryUnit": "%",
	"BloodoximetryValue": "95.00"
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	"InhaledOxygenConcentration": -{
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	"InhaledOxygenUnit": "%",
	"InhaledOxygenvalue": "36"
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	"BodyTemperature": -{
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	"TemperatureUnit": "Cel",
	"TemperatureValue": "38.0000000000"
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	"SystolicUnit": "mmHg",
	"SystolicValue": "145.00"
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	"DiastolicUnit": "mmHg",
	"DiastolicValue": "88.00"
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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	fhirClient/ClinicalSummary/GetCCDADetails?PatientId={patientid} &fromdate={fdate}&todate={tdate}&providerid={providerId}

Represents Mandatory

Type	Params	Data Type
GET	patientid*	Guid
GET	fromdate*	String(yyyy-mm-dd)
GET	todate1*	String(yyyy-mm-dd)
GET	ProviderId*	Guid

PatientID

The patientid from which patient have CCDA in between from date and to date

FromDate

The start date represents the Encounter start date for a patient has to be searched.

ToDate

The end date represents till end date of Encounter for a patient has to be searched.

ProviderId

The providerId represents the id of the provider who creates encounters for a patient.

Response

Status	Response

200	`<?xml version="1.0" encoding="utf-8"?>`
	`<?xml-stylesheet type="text/xsl" href="CDA.xsl"?>`
	`<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:voc="urn:hl7-org:v3/voc" xmlns="urn:hl7-org:v3">`
	`<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="TT660" />`
	`<code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Summarization of Episode Note" />`

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codeSystemName="Confidentiality" displayName="normal" />

  <languageCode code="en-US" />

  <recordTarget>

    <patientRole>

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        <city>Aloha</city>

        <state>Oregon</state>

        <postalCode>97006</postalCode>

        <country>US</country>

      </addr>

      <telecom value="tel:+1(555) 723-1544" use="HP" />

      <telecom value="tel:+1(555) 777-1234" use="MC" />

      <patient>

        <name use="L">

          <given>Alice</given>

          <given>Jones</given>

          <given qualifier="BR">Alicia</given>

          <family>Newman</family>

        </name>

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codeSystemName="AdministrativeGender" displayName="Female" />

        <birthTime value="19700501" />

        <maritalStatusCode code="S" codeSystem="2.16.840.1.113883.5.2"
codeSystemName="MaritalStatus" displayName="Never Married" />

        <religiousAffiliationCode nullFlavor="UNK" />

        <raceCode code="2106-3" codeSystem="2.16.840.1.113883.6.238"
codeSystemName="Race &amp;amp;amp; Ethnicity - CDC" codeSystemVersion="White"
displayName="White" />

        <sdtc:raceCode code="2108-9" codeSystem="2.16.840.1.113883.6.238"
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codeSystemName="Race &amp;amp;amp; Ethnicity - CDC" codeSystemVersion="Not Hispanic or
Latino" displayName="Not Hispanic or Latino" />

        <languageCommunication>

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codeSystemName="LanguageAbilityMode" displayName="Expressed spoken" />

        </languageCommunication>

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      <providerOrganization classCode="ORG" determinerCode="INSTANCE">

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      <telecom value="tel:+1(555) 723-1544" use="HP" />
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        <city>Beaverton</city>
        <state>OR</state>
        <postalCode>97006</postalCode>
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  </patientRole>
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    <telecom nullFlavor="UNK" />
    <assignedPerson classCode="PSN" determinerCode="INSTANCE">
      <name>
        <given>Albert</given>
        <family>Davis</family>
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    </assignedPerson>
  </assignedAuthor>
</author>
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  </assignedEntity>
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        <state>OR</state>
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</custodian>
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  <intendedRecipient>
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        <family>Davis</family>
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      <name>2472, Rocky place,</name>
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        <high value="20171214" />
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            <state>OR</state>
            <postalCode>97006</postalCode>
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  </documentationOf>
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codeSystemName="LOINC" />
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            <table width="100%" border="1">
              <thead>
                <tr>
                  <th>Substance</th>
                  <th>Reaction</th>
                  <th>Severity</th>
```

```
                <th>Status</th>
                <th>On Set Date</th>
              </tr>
            </thead>
            <tbody>
              <tr>
                <td ID="proc39">penicillin G benzathine</td>
                <td>Hives</td>
                <td>Moderate</td>
                <td>Active</td>
                <td>5/10/1980</td>
              </tr>
              <tr>
                <td ID="proc40">ampicillin trihydrate</td>
                <td>Hives</td>
                <td>Moderate</td>
                <td>Active</td>
                <td>5/10/1980</td>
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            </tbody>
          </table>
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/>
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            <statusCode code="active" />
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09" />
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Allergy to
substance" />

                  <participant typeCode="CSM">

                    <participantRole classCode="MANU">

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                    </participantRole>

                  </participant>

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                      <statusCode code="completed" />

                      <effectiveTime>

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                      </effectiveTime>

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codeSystem="2.16.840.1.113883.6.96" />

                    </observation>

                  </entryRelationship>

                  <entryRelationship typeCode="REFR">

                    <observation classCode="OBS" moodCode="EVN">

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codeSystemName="ActCode" displayName="Severity Observation" />

                      <text>

                        <reference value="#severity39" />

                      </text>

                      <statusCode code="completed" />

                      <value xsi:type="CD" code="6736007"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Moderate"
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                  </entryRelationship>

                </observation>

              </entryRelationship>

            </act>

          </entry>

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substance" />
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codeSystemName="ActCode" displayName="Severity Observation" />
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                      <statusCode code="completed" />
                      <value xsi:type="CD" code="6736007"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Moderate"
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          <code code="10160-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="HISTORY OF MEDICATION USE" />
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                  <th>Start Date</th>
                  <th>End Date</th>
                  <th>Dose</th>
                </tr>
              </thead>
              <tbody>
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                  <td>CefTRIAXone Sodium - injectable - Two times daily</td>
                  <td>6/22/2015</td>
                  <td>6/30/2015</td>
```

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                <td>1</td>
              </tr>
              <tr>
                <td>Aranesp - injectable - Once a week</td>
                <td>6/22/2015</td>
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                <td>1</td>
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              <tr>
                <td>Tylenol Extra Strength - oral - As needed</td>
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                <td>7/2/2015</td>
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codeSystemName="RxNorm" displayName="ceftriaxone sodium">
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            </consumable>
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codeSystemName="RxNorm" displayName="darbepoetin alfa">
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                    <name>darbepoetin alfa</name>
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codeSystemName="RxNorm" displayName="acetaminophen">
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codeSystemName="LOINC" displayName="PROBLEM LIST" />
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                  <th>Date</th>
                  <th>Status</th>
                </tr>
              </thead>
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                <tr>
                  <td>Chronic rejection of renal transplant (disorder)</td>
                  <td>12/31/2011</td>
                  <td>active</td>
                </tr>
                <tr>
                  <td>Essential hypertension (disorder)</td>
                  <td>10/5/2011</td>
                  <td>active</td>
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                </tr>
                <tr>
                  <td>Severe hypothyroidism (disorder)</td>
                  <td>12/31/2006</td>
                  <td>active</td>
                </tr>
                <tr>
                  <td>Fever (finding)</td>
                  <td>6/22/2015</td>
                  <td>active</td>
                </tr>
                <tr>
                  <td>Overweight (finding)</td>
                  <td>12/31/2006</td>
                  <td>completed</td>
                </tr>
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            </table>
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codeSystemName="SNOMED-CT" displayName="Condition">
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codeSystemName="LOINC" displayName="Condition" />
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rejection of renal transplant (disorder)" />

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              </entryRelationship>

            </act>

          </entry>

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codeSystemName="SNOMED-CT" displayName="Condition">

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codeSystemName="LOINC" displayName="Condition" />

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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Essential
hypertension (disorder)" />

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              </entryRelationship>

            </act>

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hypothyroidism (disorder)" />
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codeSystemName="LOINC" displayName="Condition" />
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(finding)" />
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(finding)" />
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                  <th>Performer</th>
                  <th>Location</th>
                  <th>Date</th>
                </tr>
              </thead>
              <tbody>
                <tr>
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                  <td> Albert Davis</td>
                  <td>Primary Office</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td ID="Encounter2">Congenital iodine-deficiency syndrome,
unspecified</td>
                  <td> Albert Davis</td>
                  <td>Primary Office</td>
                  <td>6/22/2015</td>
                </tr>
              </tbody>
            </table>
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codeSystemName="CPT-4" displayName="Fever (finding)">
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              <effectiveTime value="20150622" />
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                  <code nullFlavor="UNK" />
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                    <state>OR</state>
                    <postalCode>97006</postalCode>
                    <country>US</country>
                  </addr>
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codeSystemName="LOINC" displayName="Clinical finding" />
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codeSystem="2.16.840.1.113883.6.96" displayName="Fever (finding)" />
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                    <state>OR</state>
                    <postalCode>97006</postalCode>
                    <country>US</country>
                  </addr>
                  <telecom value="tel:+1(555) 555-1002" use="WP" />
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                    <name>Primary Office</name>
                  </playingEntity>
                </participantRole>
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codeSystem="2.16.840.1.113883.6.96" displayName="Congenital hypothyroidism (disorder)"
/>
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codeSystemName="LOINC" displayName="History of immunizations" />
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                  <th>Status</th>
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free</td>
                  <td>6/22/2015</td>
                  <td>cancelled</td>
                </tr>
                <tr>
                  <td ID="immun47">DTaP </td>
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                  <td>completed</td>
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codeSystemName="CVX" displayName="influenza, intradermal, quadrivalent, preservative
free" />
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codeSystemName="HL7 ActNoImmunizationReason" displayName="Patient Objection" />
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                    <name>Immuno-U.S., Inc.</name>
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codeSystemName="LOINC" displayName="Social History" />
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                <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</td>
                  <td>6/22/2015</td>
                </tr>
              </tbody>
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            </table>
            <table width="100%" border="1">
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                  <th>Birth Sex</th>
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                <tr>
                  <td>Female</td>
                </tr>
              </tbody>
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codeSystemName="LOINC" displayName="Sex Assigned At Birth" />
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displayName="Female" />
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codeSystemName="LOINC" displayName="Tobacco smoking status NHIS" />
              <statusCode code="completed" />
              <effectiveTime value="20150622" />
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                  <th>NAME</th>
                  <th>Result Value</th>
                  <th>Result Date</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td colspan="5">Location Detail: Value Labs,
2472 Rocky place ,
Aloha,
OR,
97006</td>
                </tr>
                <tr>
                  <td colspan="5">Order Detail: UA dipstick panel in Urine [24357-6] -
6/22/2015</td>
                </tr>
                <tr>
                  <td>5767-9</td>
                  <td>Appearance of Urine</td>
                  <td>CLEAR</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>5804-0</td>
                  <td>Protein [Mass/volume] in Urine by Test strip</td>
                  <td>100mg/dL   </td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>5811-5</td>
                  <td>Specific gravity of Urine by Test strip</td>
                  <td>1.015</td>
                  <td>6/22/2015</td>
```

```
                </tr>
                <tr>
                  <td>5792-7</td>
                  <td>Glucose [Mass/volume] in Urine by Test strip</td>
                  <td>50mg/dL    </td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>5778-6</td>
                  <td>Color of Urine</td>
                  <td>YELLOW</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>5803-2</td>
                  <td>pH of Urine by Test strip</td>
                  <td>5.0[ph]</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>5797-6</td>
                  <td>Ketones [Mass/volume] in Urine by Test strip</td>
                  <td>Negative</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td colspan="5">Order Detail: Chest XR 2V [36643-5] - 6/22/2015</td>
                </tr>
                <tr>
                  <td>36643-5</td>
                  <td>Chest XR 2V</td>
                  <td>Lungs are not clear, cannot rule out Anemia. Other tests are
required to determine the presence or absence of Anemia</td>
                  <td>6/22/2015</td>
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                    <state>OR</state>
                    <postalCode>97006</postalCode>
                    <country>US</country>
                  </addr>
                  <telecom value="tel:+1(555) 555-1002" use="WP" />
                  <representedOrganization>
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                  </representedOrganization>
                </assignedAuthor>
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                <assignedAuthor>
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                    <state>OR</state>
                    <postalCode>97006</postalCode>
                    <country>US</country>
                  </addr>
                  <telecom value="tel:+1(555) 555-1002" use="WP" />
                  <representedOrganization>
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Other tests are required to determine the presence or absence of Anemia</value>
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displayName="Vital Signs" />
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                  <th>Measurement</th>
                  <th>Date</th>
                </tr>
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                <tr>
                  <td>O2 Percentage BldC Oximetry</td>
                  <td>95.00 %</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Inhaled Oxygen Concentration</td>
                  <td>36 %</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Respiratory Rate</td>
                  <td>18 breaths/min</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Height</td>
                  <td>177 cm</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Weight</td>
```

```
                  <td>88.00 kg</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Blood Pressure - Systolic</td>
                  <td>145 mm[Hg]</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Blood Pressure - Diastolic</td>
                  <td>88 mm[Hg]</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Temperature</td>
                  <td>38.00 Cel</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Heart Rate</td>
                  <td>80 beats/min</td>
                  <td>6/22/2015</td>
                </tr>
              </tbody>
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oximetry" />
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                  <th>Date</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>Congenital hypothyroidism (disorder)</td>
                  <td>Active</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Preoccupation with body weight (finding)</td>
                  <td>Active</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Diastolic hypertension (disorder)</td>
                  <td>Active</td>
                  <td>6/22/2015</td>
                </tr>
                <tr>
                  <td>Chronic vocal tic disorder (disorder)</td>
                  <td>Active</td>
                  <td>6/22/2015</td>
                </tr>
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            </table>
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codeSystemName="SNOMED-CT" displayName="Condition">

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                  <th>Date</th>
                  <th>Status</th>
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transvenous electrode(s); atrial - [CPT4 ID:33206]</td>
                  <td>10/5/2011</td>
                  <td>Completed</td>
                </tr>
                <tr>
                  <td>Pressurized or nonpressurized inhalation treatment for acute
airway obstruction or for sputum induction for diagnostic purposes (eg, with an aerosol
generator, nebulizer, metered dose inhaler or intermittent positive pressure breathing
[IPPB] device) - [CPT4 ID:94640]</td>
                  <td>6/22/2015</td>
                  <td>Completed</td>
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pacemaker with transvenous electrode(s); atrial - [CPT4 ID:33206]" />
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                    <state>Oregon</state>
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                    <postalCode>97006</postalCode>
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an aerosol generator, nebulizer, metered dose inhaler or intermittent positive pressure
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                </tr>
              </thead>
              <tbody>
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                  <td>5/1/2005</td>
                </tr>
              </tbody>
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              </code>
              <statusCode code="completed" />
              <effectiveTime value="20050501" />
              <value xsi:type="CD" code="48167000" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Amnesia" />
            </observation>
          </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 SECTION</title>
          <text mediaType="text/x-hl7-text+xml">
            <table width="100%" border="1">
              <thead>
                <tr>
                  <th>Goal</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>Get rid of intermittent fever that is occurring every few
weeks.</td>
                </tr>
                <tr>
                  <td>Need to gain more energy to do regular activities</td>
                </tr>
              </tbody>
            </table>
          </text>
```

```
          <entry>
            <observation classCode="OBS" moodCode="GOL">
              <templateId root="2.16.840.1.113883.10.20.22.4.121" />
              <id root="0a8da6aa-c054-4646-af4d-b3ccac809237" />
              <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 value="20171128" />
              <value xsi:type="ST">Get rid of intermittent fever that is occurring
every few weeks.</value>
              <author>
                <templateId root="2.16.840.1.113883.10.20.22.4.119" />
                <time value="20171128" />
                <assignedAuthor>
                  <id root="2.16.840.1.113883.4.6" extension="1750491212" />
                  <code nullFlavor="UNK" />
                  <assignedPerson>
                    <name>
                      <given>Alice</given>
                      <family>Newman</family>
                      <suffix qualifier="AC">N/A</suffix>
                    </name>
                  </assignedPerson>
                </assignedAuthor>
              </author>
            </observation>
          </entry>
          <entry>
            <observation classCode="OBS" moodCode="GOL">
              <templateId root="2.16.840.1.113883.10.20.22.4.121" />
              <id root="3f050587-e5bf-4783-a89e-fc0efba1374d" />
              <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 value="20171128" />
              <value xsi:type="ST">Need to gain more energy to do regular
activities</value>
              <author>
                <templateId root="2.16.840.1.113883.10.20.22.4.119" />
                <time value="20171128" />
                <assignedAuthor>
                  <id root="2.16.840.1.113883.4.6" extension="1750491212" />
                  <code nullFlavor="UNK" />
                  <assignedPerson>
```

```
                    <name>
                      <given>Alice</given>
                      <family>Newman</family>
                      <suffix qualifier="AC">N/A</suffix>
                    </name>
                  </assignedPerson>
                </assignedAuthor>
              </author>
            </observation>
          </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="ASSESSMENTS" />
          <title>ASSESSMENTS</title>
          <text mediaType="text/x-hl7-text+xml">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="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 mediaType="text/x-hl7-text+xml">
            <table width="100%" border="1">
              <tbody>
                <tr ID="RefDiv">
                  <td ID="RefTd">Ms Alice Newman is being referred to Community Health
Hospitals Inpatient facility because of the high fever noticed and suspected
Anemia.</td>
                </tr>
              </tbody>
            </table>
          </text>
        </section>
      </component>
```

```
      <component>
        <section>
          <templateId root="2.16.840.1.113883.10.20.22.2.23" extension="2014-06-09" />
          <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="Medical Equipment" />
          <title>MEDICAL EQUIPMENT</title>
          <text mediaType="text/x-hl7-text+xml">
            <table width="100%" border="1">
              <thead>
                <tr>
                  <th>Implanted</th>
                  <th>UDI</th>
                  <th>Date Implanted</th>
                  <th>Issuing Agency</th>
                  <th>Assigning Authority</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>Cardiac resynchronization therapy implantable defibrillator</td>
                  <td>(01)00643169007222(17)160128(21)BLC200461H</td>
                  <td>6/22/2015</td>
                  <td>GS1</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="3bf8d855-dde5-4855-a7dc-0b4a7d2b5046" />
              <code nullFlavor="UNK" />
              <statusCode code="completed" />
              <effectiveTime>
                <low value="20150622" />
              </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 determinerCode="INSTANCE">
                    <code nullFlavor="UNK" />
                  </playingDevice>
                  <scopingEntity determinerCode="INSTANCE">
                    <id root="2.16.840.1.113883.3.3719" />
                  </scopingEntity>
                </participantRole>
              </participant>
            </procedure>
          </entry>
        </section>
      </component>
      <component>
        <section>
          <templateId root="2.16.840.1.113883.10.20.22.2.10" extension="2014-06-09" />
          <templateId root="2.16.840.1.113883.10.20.22.2.10" />
          <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>
                  <th>Category</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>Chest XR 2V</td>
                  <td>6/23/2015</td>
                  <td>Labs</td>
                </tr>
                <tr>
                  <td>EKG heart, study</td>
                  <td>6/23/2015</td>
                  <td>Labs</td>
                </tr>
                <tr>
                  <td>UA dipstick panel in Urine</td>
                  <td>6/29/2015</td>
                  <td>Labs</td>
```

```
                </tr>
                <tr>
                  <td>Office or other outpatient visit for the evaluation and
management of a new patient, which requires these 3 key components: A detailed history;
A detailed examination; Medical decision making of low complexity. Counseling and/or
coordination of care with other physicians, other qualified health care professionals,
or agencies are provided consistent with the nature of the problem(s) and the patient's
and/or family's needs. Usually, the presenting problem(s) are of moderate severity.
Typically, 30 minutes are spent face-to-face with the patient and/or family. - [CPT4
ID:99203]</td>
                  <td>7/1/2015</td>
                  <td>Procedure</td>
                </tr>
                <tr>
                  <td>Clindamycin Hydrochloride - oral - Three times a day as needed if
pain does not subside</td>
                  <td>6/23/2015</td>
                  <td>Medication</td>
                </tr>
              </tbody>
            </table>
          </text>
          <entry typeCode="DRIV">
            <observation classCode="OBS" moodCode="INT">
              <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09"
/>
              <templateId root="2.16.840.1.113883.10.20.22.4.44" />
              <id root="912dd29a-4e86-47c7-8b0f-130552b41678" />
              <code code="36643-5" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Chest XR 2V" />
              <statusCode code="active" />
              <effectiveTime value="20150623" />
            </observation>
          </entry>
          <entry typeCode="DRIV">
            <observation classCode="OBS" moodCode="INT">
              <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09"
/>
              <templateId root="2.16.840.1.113883.10.20.22.4.44" />
              <id root="2e7bfa64-e611-437b-9ab8-234d8a4a8160" />
              <code code="11524-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="EKG heart, study" />
              <statusCode code="active" />
              <effectiveTime value="20150623" />
            </observation>
          </entry>
          <entry typeCode="DRIV">
            <observation classCode="OBS" moodCode="INT">
```

```
              <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09"
/>

              <templateId root="2.16.840.1.113883.10.20.22.4.44" />

              <id root="701734f8-8824-410e-b9fb-4155d59d3539" />

              <code code="24357-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="UA dipstick panel in Urine" />

              <statusCode code="active" />

              <effectiveTime value="20150629" />

            </observation>

          </entry>

          <entry typeCode="DRIV">

            <procedure classCode="PROC" moodCode="INT">

              <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09"
/>

              <templateId root="2.16.840.1.113883.10.20.22.4.41" />

              <id root="413bb29a-d2ed-418f-8c6c-d1e2187a5193" />

              <code code="99203" codeSystem="2.16.840.1.113883.6.12"
codeSystemName="CPT-4" displayName="Office or other outpatient visit for the evaluation
and management of a new patient, which requires these 3 key components: A detailed
history; A detailed examination; Medical decision making of low complexity. Counseling
and/or coordination of care with other physicians, other qualified health care
professionals, or agencies are provided consistent with the nature of the problem(s)
and the patient's and/or family's needs. Usually, the presenting problem(s) are of
moderate severity. Typically, 30 minutes are spent face-to-face with the patient and/or
family. - [CPT4 ID:99203]" />

              <statusCode code="active" />

              <effectiveTime value="20150701" />

            </procedure>

          </entry>

          <entry typeCode="DRIV">

            <substanceAdministration classCode="SBADM" moodCode="INT">

              <templateId root="2.16.840.1.113883.10.20.22.4.42" extension="2014-06-09"
/>

              <templateId root="2.16.840.1.113883.10.20.22.4.42" />

              <id root="9c734a3c-cb84-4c8d-8b0b-d82a641f1b53" />

              <statusCode code="active" />

              <effectiveTime xsi:type="IVL_TS">

                <low value="20150623" />

                <high value="20180624" />

              </effectiveTime>

              <routeCode code="C38288" codeSystem="2.16.840.1.113883.3.26.1.1"
codeSystemName="SNOMED CT" displayName="ORAL" />

              <doseQuantity value="0.00" />

              <consumable typeCode="CSM">

                <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="2477eacf-4ef4-4f6d-a66c-3c83aeb569e7" />
```

	`<manufacturedMaterial classCode="MMAT">`
	`<code nullFlavor="UNK" />`
	`</manufacturedMaterial>`
	`</manufacturedProduct>`
	`</consumable>`
	`</substanceAdministration>`
	`</entry>`
	`</section>`
	`</component>`
	`</structuredBody>`
	`</component>`
	`</ClinicalDocument>`

400	`{"string":" Please provide all date parameters to proceed."}`

Glossary

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.
- All request parameters are mandatory unless explicitly marked as `[optional]`

Appendices

Appendix A: Methods in API

ID	Method	Return Type	Description
1	SearchResources	IHttpActionResult	For a single resource extraction this method is used.
2	SearchMultipleResources	IHttpActionResult	For a multiple resources extraction this method is used.

Appendix B: Successful Login Response

{
  "Type":0,
  "Success":true,
  "Message":null,
  "User":{
    "ID":"b4e02b78-8b64-4920-a73b-ca1ce36a33fa",
    "SessionID":225,
    "PatientId":"5622b639-b387-4227-a11c-7e74db5ea624",
    "PatientName":null,
    "Roles":[

    ],
    "Enabled":true,
    "Token":"eyJhbGciOiJBMjU2S1ciLCJlbmMiOiJBMjU2Q0JDLUhTNTEyIn0.DTnCd_Avmc7G
dR089q8e08H6rqgQFOoL9hmjKLWDeqnepAvxq2XWVaCI3jK-
8h5xNZQfoxaWVPK8oRNUJ8gG5ZmHwAlY8S9P.QPbt6XJlELrvo9MhxiiXbw.69m6yfV16G8s7eMQj
u9Ky_qJ1w2hF0g-7ZecblKbVJQ3VE8FXh1PrhQxTcPlbiiY_EB6WF-
N6cnTg3w7bsTlv2hKxRnoZXgK-
ABXrn3NFQJ1vsO31ae7laBWdnZxdx8uzyUxA7Ymv3HHn7lD5Q9Q2hF5hUK4Y2V2xFVJ9m7aMz36xu
No99ZKzDylqD88WvcxMSLeLk4ziTQ9h2pCJ2I0YgQH3K1UMpI0k-……",
    "ValidFrom":"2017-12-13T10:34:51.100103Z",
    "Expires":"2017-12-13T11:34:51.100103Z",
    "Email":"nalashaatest1@mail.com",
    "InsuranceID":null,
    "FirstName":"Alice",
    "LastName":"Newman",
    "IsAuthRep":null
  },
  "OtherSession":null,
  "MD5Hash":"7173b4b2556699f4c736b87d9b8c894b",
  "PatientId":"5622b639-b387-4227-a11c-7e74db5ea624",
  "AuthRepResponse":null
}

Appendix C: URL Configuration

Type	URL	Description
EHR	https://ehponcpatientselection.azurewebsites.net	It helps the client application to connect with EHR application.
FHIR API	https://ehponcpatientselection.azurewebsites.net	It helps the client application to connect with FHIR API.

Appendix D: Mappings

Allergy

JSON Path	Description
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 ot 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

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 >	Represents the EHR unique identifier of the vitals

Coding > CodeElement	
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 specfic 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,)

ObservationLabResults

JSON Path	Description
EffectiveDateTime	Date time when the lab result was received by the clinic
Observation > Identifier > Type > Coding > SystemElement > Value	Code system of the parent lab order
Observation > Identifier > Type > Coding > VersionElement > Value	Code system id of the parent lab order
Observation > Identifier > Type > Coding > CodeElement > Value	Code of the parent lab order
Observation > Identifier > Type > Coding > DisplayElement > Value	Description of the parent lab order
Observation > Identifier > Type > TextElement > Value	Unique identifier of the parent lab order
Observation > Identifier > ValueElement > Value	Unique identifier of the parent lab order
Observation > Identifier > Period > StartElement > Value	Date time when the paren lab order was ordered
Observation > Category > Coding > SystemElement > Value	Represents the type of resource
Observation > Category > Coding > VersionElement > Value	Codesystem ID
Observation > Category > Coding >	Codesystem type

CodeElement > Value	
Observation > Category > Coding > DisplayElement > Value	Codesystem type
Observation > Code > Coding > SystemElement > Value	Codesystem type of the lab result
Observation > Code > Coding > VersionElement > Value	Code system id of the lab result
Observation > Code > Coding > CodeElement > Value	Code of the lab result
Observation > Code > Coding > DisplayElement > Value	Description of the lab result
Observation > IssuedElement	Date time when the lab result was entered into the system
LabResultValue	Result value of the lab result
Status	Status of the lab result
LabResultUnit	Unit of the result value

ObservationSmokingStatus

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 >	Code system id of the smoking status type

VersionElement > Value	
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

ConditionHealthConcern

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 CareTeam

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

Careplan Laborders, Immunization, Procedures, Medications

JSON Path	Description
The response below is the same for PlannedLabOrder, PlannedImmunizations, PlannedMedications, PlannedProcedures	
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