

**API**

**November - 2021**

## Table of Contents

|                                                                |    |
|----------------------------------------------------------------|----|
| <b>Introduction</b> .....                                      | 2  |
| <b>Requirements</b> .....                                      | 2  |
| <b>How to use the API</b> .....                                | 2  |
| <b>API URL</b> .....                                           | 2  |
| <b>Software Components &amp; Configuration</b> .....           | 3  |
| <b>Authenticate User</b> .....                                 | 3  |
| <b>Search for Patients</b> .....                               | 4  |
| <b>Get Patient CCDA</b> .....                                  | 9  |
| <b>Get patient CCDA for a limited time range</b> .....         | 14 |
| <b>Get Clinical Sections</b> .....                             | 15 |
| <b>Get Clinical sections for a specific time period.</b> ..... | 17 |
| <b>Error Codes</b> .....                                       | 18 |
| <b>Terms of Use</b> .....                                      | 19 |

## Introduction

This document describes QSmartCare EHR API for patient data access. Its purpose is to serve as an interface to obtain demographic and clinical information for patients registered under the QSmartCare EHR domain. The API returns a JSON object with status and embedded CCDA XML. API examples below show how to access the API

## Requirements

- 1) Registered users can use this API to query the EHR for patient data.
- 2) User must be an authorized user of the QSmartCarre

## How to use the API

The API is hosted at <https://www.qsmartcare.com/patient-api/controller/patient-service.php> and is publicly accessible. Obtain demographic/clinical information from patients registered under the QSMARTCARE EMR domain, third parties should first authenticate using a set of credentials (practiced / username / password) obtained from one of the practices currently using QSMARTCARE EHR.

## API URL

URL for accessing the API is

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=authenticateuser>

## Software Components & Configuration

Software – Postman

Configuration

- a) AccessKeyID
- b) SecretAccessKey

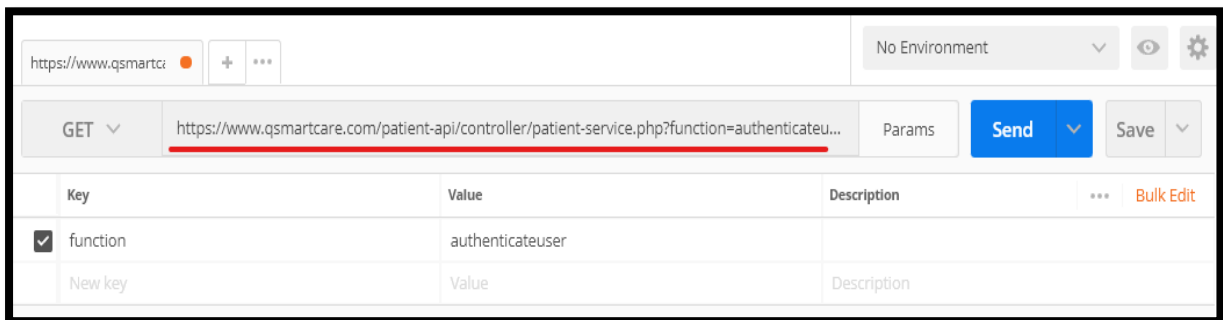
### Authenticate User

Use your credentials to QSmartCare EHR or QSmartCare Portal to authenticate with the API. API returns a token that will be used for all other API calls.

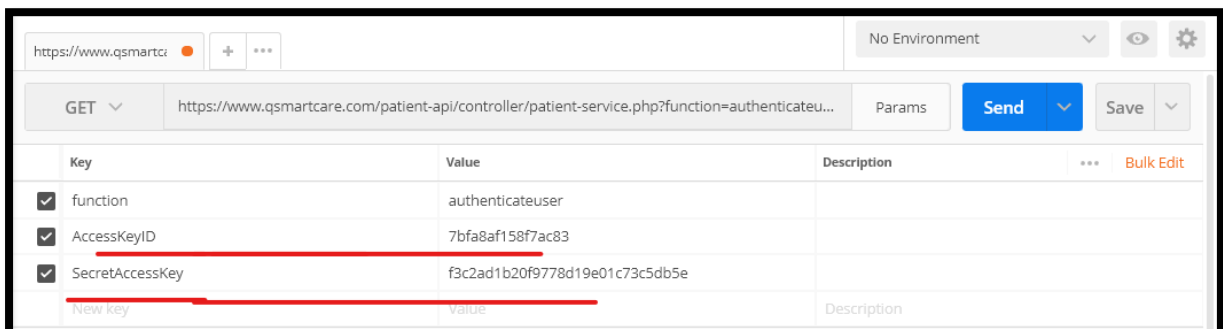
Example

Enter the below URL

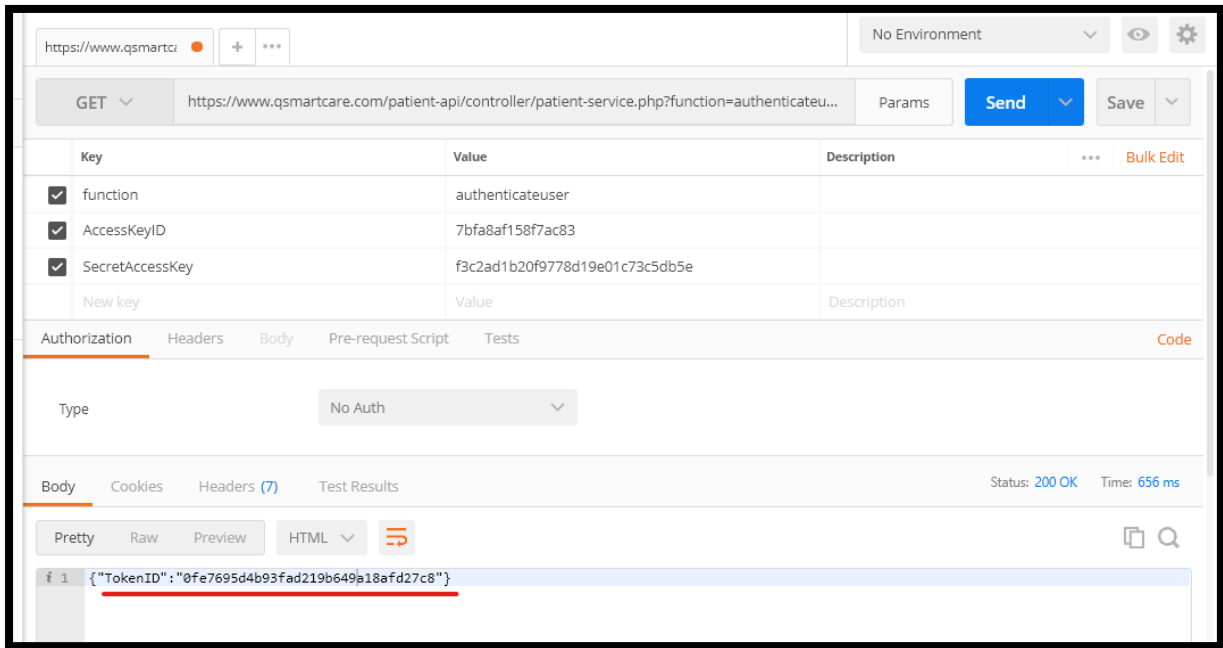
<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=authenticateuser>



- Enter the AccessKeyID and SecretAccessKey and click ‘Send’



- On clicking the Send button Token ID will be generated as displayed in the below screenshot



**Note:** Store the value TokenID. That TokenID will be used for all further calls to API

### Search for Patients

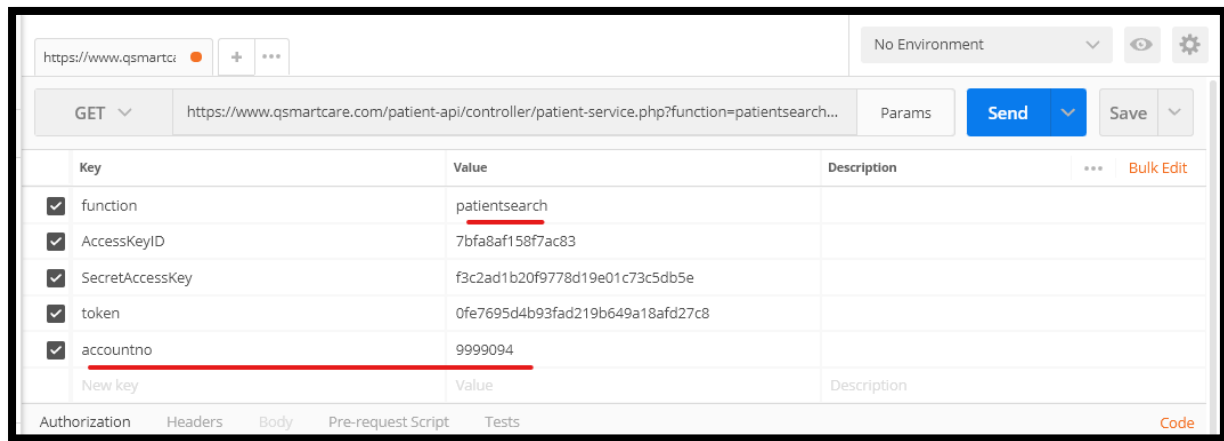
Search for a patient from QSMARTCARE using one or more parameters list below

- Account No
- Date of birth
- First name
- Last name

Examples listed below

#### Search Using Account No

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientsearch&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&accountno=9999094>



## Response

```
{
  "PatientList": [
    {
      "AccountNo": "9999094",
      "FirstName": "Rebecca",
      "MiddleName": "Jones",
      "LastName": "Larson",
      "Gender": "F",
      "Dob": "05/01/1970",
      "Email": "Rebecca@gmail.com",
      "Mobile": "(555) 777-1234",
      "Address": "1357, Amber Dr, Beaverton, OR-97006",
      "City": "Beaverton",
      "State": "Oregon",
      "Zipcode": "98746-5655"
    }
  ],
  "Result": "Success: Found 1 patients"
}
```

## Search Using Date of birth

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientsearch&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&dob=1988-05-22>

| Key                                                 | Value                            | Description | ... | Bulk Edit |
|-----------------------------------------------------|----------------------------------|-------------|-----|-----------|
| <input checked="" type="checkbox"/> function        | patientsearch                    |             |     |           |
| <input checked="" type="checkbox"/> AccessKeyID     | 7bfa8af158f7ac83                 |             |     |           |
| <input checked="" type="checkbox"/> SecretAccessKey | f3c2ad1b20f9778d19e01c73c5db5e   |             |     |           |
| <input checked="" type="checkbox"/> token           | 0fe7695d4b93fad219b649a18afd27c8 |             |     |           |
| <input checked="" type="checkbox"/> dob             | 1988-05-22                       |             |     |           |
| New key                                             | Value                            | Description |     |           |

### Response for DOB

```
{
  "PatientList": [
    {
      "AccountNo": "908105",
      "FirstName": "Kay",
      "MiddleName": "",
      "LastName": "Easley",
      "Gender": "M",
      "Dob": "05/22/1988",
      "Email": "test@gmail.com",
      "Mobile": "",
      "Address": "",
      "City": "",
      "State": "",
      "Zipcode": ""
    }
  ],
  "Result": "Success: Found 1 patients"
}
```

### Search Using firstname

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientsearch&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&firstname=Doris>

| Key                                                  | Value                            | Description |
|------------------------------------------------------|----------------------------------|-------------|
| <input checked="" type="checkbox"/> function         | patientsearch                    |             |
| <input checked="" type="checkbox"/> AccessKeyID      | 7bfa8af158f7ac83                 |             |
| <input checked="" type="checkbox"/> SecretAccessKey  | f3c2ad1b20f9778d19e01c73c5db5e   |             |
| <input checked="" type="checkbox"/> token            | 0fe7695d4b93fad219b649a18afd27c8 |             |
| <input checked="" type="checkbox"/> <u>firstname</u> | <u>Doris</u>                     |             |
| New key                                              | Value                            | Description |

### Response for firstname

4 patients are found that match the first name

```
{
  "PatientList": [
    {
      "AccountNo": "9704105",
      "FirstName": "Doris",
      "MiddleName": "",
      "LastName": "Alvarez",
      "Gender": "F",
      "Dob": "02/08/1944",
      "Email": "",
      "Mobile": "",
      "Address": "2849 Lesch Glen Ways",
      "City": "Terrenceburgh",
      "State": "Indiana",
      "Zipcode": "46362"
    },
    {
      "AccountNo": "203",
      "FirstName": "Doris",
      "MiddleName": "",
      "LastName": "Little",
      "Gender": "F",
      "Dob": "02/27/2002",
      "Email": "",
      "Mobile": "",
      "Address": "1683 Reichert Club Cove",
      "City": "South Newton",
      "State": "Washington",
      "Zipcode": "99076"
    },
    {
      "AccountNo": "9704608",
```

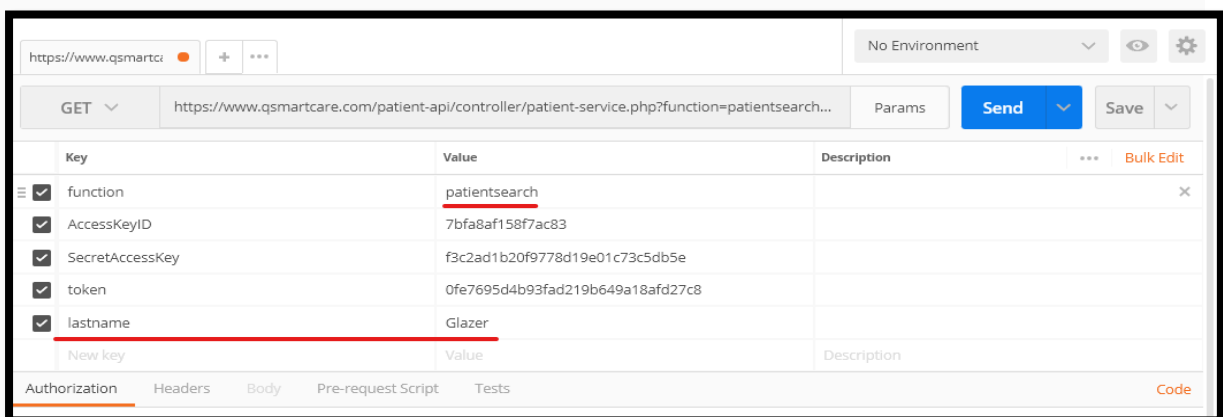
```

"FirstName": "Doris",
"MiddleName": "",
"LastName": "Wright",
"Gender": "F",
"Dob": "03/19/1976",
"Email": "",
"Mobile": "",
"Address": "3922 Lakin Well Mission",
"City": "Boyerborough",
"State": "Minnesota",
"Zipcode": "55529"
},
{
"AccountNo": "9772002",
"FirstName": "Doris",
"MiddleName": "",
"LastName": "Williams",
"Gender": "M",
"Dob": "05/25/1956",
"Email": "na@na.com",
"Mobile": "",
"Address": "",
"City": "",
"State": "",
"Zipcode": ""
}
],
"Result": "Success: Found 4 patients"

```

### Search Using lastname

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientsearch&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&lastname=Glazer>





**Response for lastname**

1 patient are found that match the first name

```
{
  "PatientList": [
    {
      "AccountNo": "9704002",
      "FirstName": "Sandra",
      "MiddleName": "Jones",
      "LastName": "Glazer",
      "Gender": "F",
      "Dob": "05/01/1970",
      "Email": "sandratest@mail.com",
      "Mobile": "(555) 777-1234",
      "Address": "",
      "City": "Beaverton",
      "State": "Oregon",
      "Zipcode": "97006-"
    }
  ],
  "Result": "Success: Found 1 patients"
}
```

**Note:** To find the correct patient. Use that patient's account no returned from these calls for remaining API.

**Get Patient CCDA**

Request the entire CCDA for a patient, using the following command.

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientCCDA&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&account=9999094>

**Response for PatientCCDA**

```

<?xml version="1.0"?>
<?xml-stylesheet type='text/xsl' href='CDA.xsl'?>
<ClinicalDocument xmlns="urn:hl7-org:v3"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:voc="urn:hl7-org:v3/voc"
xmlns:sdtc="urn:hl7-org:sdtc">
  <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"
displayName="Summarization of Episode Note" codeSystemName="LOINC"/>
  <title>Patient Chart Summary</title>
  <effectiveTime value="20211020131511"/>
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"
displayName="normal" codeSystemName="Confidentiality"/>
  <languageCode code="en-US"/>
  <setId root="2.16.840.1.113883.19.5.99999.19" extension="sTT660"/>
  <versionNumber value="1"/>
  <recordTarget>
    <patientRole>
      <id extension="444222222" root="2.16.840.1.113883.4.1"/>
      <addr use="H">
        <streetAddressLine>1357, Amber Dr, Beaverton, OR-97006</streetAddressLine>
        <city>Beaverton</city>
        <state>OR</state>
        <postalCode>98746-5655</postalCode>
        <country>US</country>
      </addr>
      <telecom value="tel:+1(555)-777-1234" use="MC"/>
      <telecom value="tel:+1(555)-723-1544" use="HP"/>
      <patient>
        <name use="L">
          <given>Rebecca</given>
          <given>Jones</given>
          <family>Larson</family>
        </name>
        <name>
          <given>Rebecca</given>
          <given>Jones</given>
          <family>Larson</family>
          <given qualifier="BR">Robert</given>
        </name>
        <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"
displayName="Female" codeSystemName="AdministrativeGender"/>
        <birthTime value="19700501"/>

```

```

    <maritalStatusCode code="S" codeSystem="2.16.840.1.113883.5.2"
displayName="Never Married"/>
    <religiousAffiliationCode nullFlavor="NI"/>
    <raceCode code="2106-3" codeSystem="2.16.840.1.113883.6.238"
displayName="White"/>
    <sdct:raceCode code="2108-9" codeSystem="2.16.840.1.113883.6.238"
displayName="European"/>
    <ethnicGroupCode code="2186-5" codeSystem="2.16.840.1.113883.6.238"
displayName="Not Hispanic or Latino"/>
    <languageCommunication>
      <languageCode code="en"/>
      <modeCode code="ESP" codeSystem="2.16.840.1.113883.5.60"
displayName="Expressed spoken" codeSystemName="LanguageAbilityMode"/>
      <proficiencyLevelCode code="G" codeSystem="2.16.840.1.113883.5.61"
displayName="Good" codeSystemName="LanguageAbilityProficiency"/>
      <preferenceInd value="true"/>
    </languageCommunication>
  </patient>
  <providerOrganization>
    <id root="2.16.840.1.113883.4.6" extension="219BX"/>
    <name>Demo Facility</name>
    <telecom value="tel:(234) 234-2423" use="WP"/>
    <addr use="WP">
      <streetAddressLine>45 Oakland avenue</streetAddressLine>
      <city>Alberthashire</city>
      <state>AK</state>
      <postalCode>12121-2121</postalCode>
      <country>US</country>
    </addr>
  </providerOrganization>
</patientRole>
</recordTarget>
<author>
  <time value="202110201315-11"/>
  <assignedAuthor>
    <id root="2.16.840.1.113883.4.6" extension="5555555555"/>
    <code nullFlavor="NI" codeSystem="2.16.840.1.113883.6.101"
codeSystemName="Healthcare Provider Taxonomy (HIPAA)" displayName="Adult
Medicine"/>
    <addr use="HP">
      <streetAddressLine>Lake side buliding</streetAddressLine>
      <city>Florida City</city>
      <state>OR</state>
      <postalCode>980-99</postalCode>
      <country>US</country>
    </addr>
    <telecom value="nullFlavor" use="HP"/>
  </assignedPerson>

```

```

    <name>
      <given>Sharon Justin</given>
    </name>
  </assignedPerson>
</assignedAuthor>
</author>
<dataEnterer>
  <assignedEntity>
    <id root="2.16.840.1.113883.4.6" extension="333777777"/>
    <addr use="WP">
      <streetAddressLine>Lake side buliding</streetAddressLine>
      <city>Florida City</city>
      <state>OR</state>
      <postalCode>980-99</postalCode>
      <country>US</country>
    </addr>
    <telecom value="nullFlavor" use="WP"/>
  </assignedPerson>
  <name>
    <given>Sharon Justin</given>
  </name>
</assignedPerson>
</assignedEntity>
</dataEnterer>
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id root="2.16.840.1.113883.4.6" extension="321CX"/>
      <name>Demo Facility</name>
      <telecom value="tel:(234) 234-2423" use="WP"/>
      <addr use="WP">
        <streetAddressLine>45 Oakland avenue</streetAddressLine>
        <city>Alberthashire</city>
        <state>AK</state>
        <postalCode>12121-2121</postalCode>
        <country>US</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<legalAuthenticator>
  <time value="1634735711"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id root="2.16.840.1.113883.4.6" extension="5555555555"/>
    <code nullFlavor="NI" codeSystem="2.16.840.1.113883.6.101"
codeSystemName="Healthcare Provider Taxonomy (HIPAA)" displayName="Adult
Medicine"/>

```

```

<addr use="WP">
  <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
  <city>Portland</city>
  <state>OR</state>
  <postalCode>99123</postalCode>
  <country>US</country>
</addr>
<telecom value="tel:+1(555)555-1004" use="WP"/>
<assignedPerson>
  <name>
    <given>Patricia</given>
    <family>Primary</family>
    <suffix qualifier="AC">M.D.</suffix>
  </name>
</assignedPerson>
</assignedEntity>
</legalAuthenticator>
<documentationOf>
  <serviceEvent classCode="PCPR">
    <effectiveTime>
      <low value="19880101000000"/>
      <high value="20211020131511"/>
    </effectiveTime>
    <performer typeCode="PRF">
      <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"
codeSystemName="ParticipationFunction" displayName="Primary Care Provider">
        <originalText>Primary Care Provider</originalText>
      </functionCode>
    </performer>
  </serviceEvent>
</documentationOf>
<assignedEntity>
  <id root="2.16.840.1.113883.4.6" extension="5555555555"/>
  <code nullFlavor="NI" codeSystem="2.16.840.1.113883.6.101"
codeSystemName="Healthcare Provider Taxonomy (HIPAA)" displayName="Adult
Medicine"/>
</assignedEntity>
<addr>
  <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
  <city>Portland</city>
  <state>OR</state>
  <postalCode>99123</postalCode>
  <country>US</country>
</addr>
<telecom value="tel:+1(555)555-1004" use="WP"/>
<assignedPerson>
  <name>
    <given>Patricia</given>
    <family>Primary</family>
    <suffix qualifier="AC">M.D.</suffix>
  </name>
</assignedPerson>

```

```
<representedOrganization>
  <id root="1.2.16.840.1.113883.4.6" extension="219BX"/>
  <name>The DoctorsTogether Physician Group</name>
  <telecom value="tel:+1(555)555-5000" use="WP"/>
  <addr>
    <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
    <city>Portland</city>
    <state>OR</state>
    <postalCode>99123</postalCode>
    <country>US</country>
  </addr>
</representedOrganization>
</assignedEntity>
</performer>
</serviceEvent>
</documentationOf>
<component>
  <structuredBody>

  <!-- Standard CCDA elements here -->

</ClinicalDocument>
```

## Get patient CCDA for a limited time range.

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientCCDA&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&accountno=9999094&StartDate=2015-06-22&EndDate=2015-06-24>

**Note:** Start and end date are formatted as YYYY-MM-DD.

Response will be the same CCDA as above, except the encounters will be restricted to date of service between 22 June 2015 to 24 June 2015.



### Get Clinical Sections

<https://mu.qsmartcare.com/patient-api/controller/patient-service.php?function=patientData&AccessKeyID=80b790b6ce24e591&SecretAccessKey=cdb461b1d9d78c3b3e62f6397c0704&token=88b63423152f144f7a71abe9eac1473d&accountno=9120001&sectionName=<sectionName for API>>

In the command above, “sectionName for API” can be one of the following.

| sectionName value provided to API | Clinical Section returned by API |
|-----------------------------------|----------------------------------|
| all                               | All                              |
| demographics                      | Patient Demographics             |
| careteam                          | Care Team                        |
| allergies                         | Allergies and Intolerances       |
| assessments                       | Assessment                       |
| goals                             | Goals                            |
| healthconcerns                    | Health Concerns                  |
| immunizations                     | Immunizations                    |
| labtest                           | Lab Test                         |
| medications                       | Medications                      |
| problem                           | Problem                          |
| procedures                        | Procedures                       |
| results                           | Results                          |
| socialhistory                     | Social History                   |
| vitalsigns                        | Vital Signs                      |
| implantabledevice                 | Implantable Device               |
| reasonforreferral                 | Reason for Referral              |
| encounters                        | Encounters                       |
| functionalstatus                  | Functional Status                |
| cognitivestatus                   | Cognitive Status                 |
| planoftreatment                   | Plan of treatment                |

Example: If sectionName=allergies, following CCDA will be returned.

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientData&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&accountno=9999094&sectionName=allergies>

| Key                                                 | Value                            | Description |
|-----------------------------------------------------|----------------------------------|-------------|
| <input checked="" type="checkbox"/> function        | patientData                      |             |
| <input checked="" type="checkbox"/> AccessKeyID     | 7bfa8af158f7ac83                 |             |
| <input checked="" type="checkbox"/> SecretAccessKey | f3c2ad1b20f9778d19e01c73c5db5e   |             |
| <input checked="" type="checkbox"/> token           | 0fe7695d4b93fad219b649a18afd27c8 |             |
| <input checked="" type="checkbox"/> accountno       | 9999094                          |             |
| <input checked="" type="checkbox"/> sectionName     | allergies                        |             |

**Response as follows**

`<!--CCDA Header -->`

`!-- ***** ALLERGIES ***** -->`

```

<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.22.2.6.1" extension="2015-08-01"/>
    <templateId root="2.16.840.1.113883.10.20.22.2.6.1"/>
    <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <title>ALLERGIES AND ADVERSE REACTIONS</title>
    <text>
      <table border="1" width="100%">
        <thead>
          <tr>
            <th>Substance</th>
            <th>Reaction</th>
            <th>Severity</th>
            <th>Start Date</th>
            <th>End Date</th>
            <th>Status</th>
          </tr>
        </thead>
        <tbody>
          <tr>

```



```

<td ID="substance1">Ampicillin</td>
<td ID="reaction1">Hives</td>
<td ID="severity1">Moderate</td>
<td>May 10, 1980</td>
<td>NA</td>
<td>active</td>
</tr>
<tr>
<td ID="substance2">Penicillin G</td>
<td ID="reaction2">Hives</td>
<td ID="severity2">Moderate</td>
<td>May 10, 1980</td>
<td>NA</td>
<td>active</td>
</tr>

```

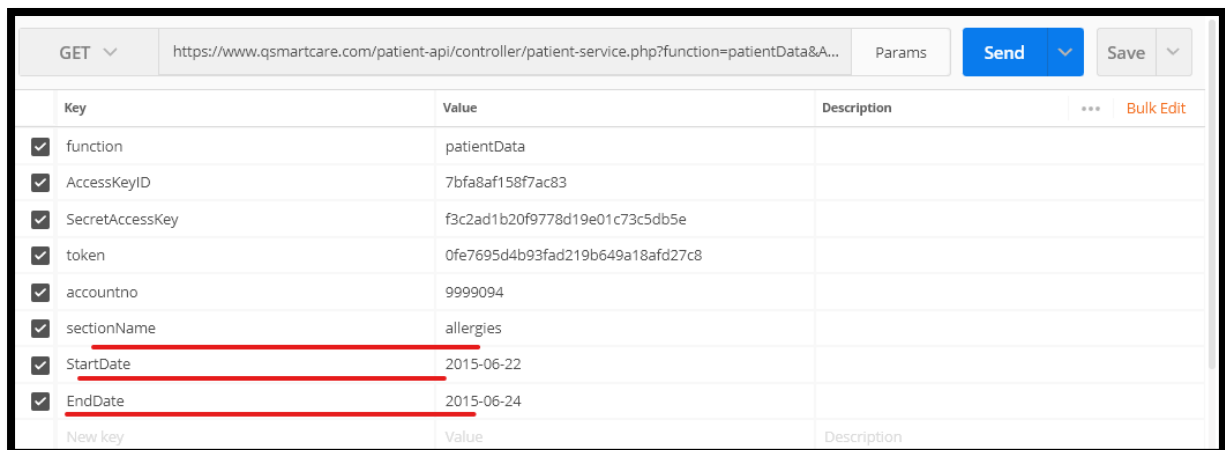
```
<!--CCDA footer -->
```

### Get Clinical sections for a specific time period.

In order to get records for a specific time period, enter the following parameters as shown in the below screenshot.

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientData&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&accountno=9999094&sectionName=allergies&StartDate=2015-06-22&EndDate=2015-06-24>

**Note:** Start and end date are formatted as YYYY-MM-DD



Response will be the same section name, clinical data will be restricted to date of service between 22 June 2015 to 24 June 2015.

### Public Hyperlink

Copy the Url and paste in new browser and press Ctrl + U

<https://www.qsmartcare.com/patient-api/controller/patient-service.php?function=patientData&AccessKeyID=7bfa8af158f7ac83&SecretAccessKey=f3c2ad1b20f9778d19e01c73c5db5e&token=0fe7695d4b93fad219b649a18afd27c8&accountno=9999094&sectionName=allergies&StartDate=2015-06-22&EndDate=2015-06-24>

```

1 <?xml version="1.0"?>
2 <?xml-stylesheet type="text/xsl" href="CDA.xsl"?>
3 <ClinicalDocument xmlns="urn:h17-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:voc="urn:h17-org:v3/voc" xmlns:sdctc="urn:h17-org:sdctc">
4   <realIcode code="US"/>
5   <typeId root="2.16.840.1.113883.1.3" extension="POCD_H0000040"/>
6   <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01"/>
7   <templateId root="2.16.840.1.113883.10.20.22.1.1"/>
8   <templateId root="2.16.840.1.113883.10.20.22.1.2" extension="2015-08-01"/>
9   <templateId root="2.16.840.1.113883.10.20.22.1.2"/>
10  <id root="2.16.840.1.113883.19.5.99999.1" extension="TT660"/>
11  <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" displayName="Summarization of Episode Note" codeSystemName="LOINC"/>
12  <title>Patient Chart Summary</title>
13  <effectiveTime value="20211020134802"/>
14  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" displayName="normal" codeSystemName="Confidentiality"/>
15  <languageCode code="en-US"/>
16  <setId root="2.16.840.1.113883.19.5.99999.19" extension="s11660"/>
17  <versionNumber value="1"/>
18  <!-- ***** ALLERGIES ***** -->
19  <component>
20    <section>
21      <templateId root="2.16.840.1.113883.10.20.22.2.6.1" extension="2015-08-01"/>
22      <templateId root="2.16.840.1.113883.10.20.22.2.6.1"/>
23      <code code="48765-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
24      <title>ALLERGIES AND ADVERSE REACTIONS</title>
25      <text>
26        <table border="1" width="100%">
27          <thead>
28            <tr>
29              <th>Substance</th>
30              <th>Reaction</th>
31              <th>Severity</th>
32              <th>Start Date</th>
33              <th>End Date</th>
34              <th>Status</th>
35            </tr>
36          </thead>
37          <tbody>
38            <tr>
39              <td ID="substance1">Penicillin G</td>
40              <td ID="reaction1">Hives</td>
41              <td ID="severity1">Moderate</td>
42              <td ID="start date">1980</td>
43              <td NA</td>
44              <td active</td>
45            </tr>
46          </tbody>
47        </table>
48      </text>
49    </section>
50  </component>
51 </ClinicalDocument>

```

## Error Codes

### a) Unauthorized access:

When user is not authorized to view requested data, following error will be generated.  
{"Result": "Error: Not authorized"}

### b) Unauthenticated access:

If the user credentials are invalid or token has expired, following error will be generated.  
{"Result": "Error: User not authenticated"}

Example: Enter wrong SecretAccessKey

### c) Patient not found:

If the patient record does not exist for the patient being requested, following error will be generated.  
{"Result": "Error: Patient not found"}

### d) CCDA Section not found:

If the user calls service patientData with invalid section name, following error will be generated.

```
{"Result": "Error: CCDA section not found"}
```

e) **No Data Available:**

If the user calls service patientData with invalid StartDate and EndDate, following error will be generated.

```
{"Result": "Error: No data available"}
```

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