UnifiMD® 2.0 Patient Data API

This manual will assist software developers and other 3rd parties connect and extract patient data as well as walk you through the required setup to create a public and secure web server connected to your UnifiMD® Database. We do recommend consulting with an experience Information Technology provider.

The following manual is applicable to UnifiMD End Users utilizing using UnifiMD 2.0 or later releases. Please contact Complete HealthCare Solutions, Inc. or visit https://www.unifimdalerts.com/unifimd.html for assistance with verifying or upgrading your version of UnifiMD.

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Terms of Service

If you have any questions, please contact us at support@mailchs.com

The following terms of service agreement is applicable to UnifiMD End Users utilizing using UnifiMD 2.0 or later releases.

Thank you for selecting Complete Healthcare Solutions, Inc. By using our software, demonstrations, data, subscription service and/or our website, you agree to comply with our Terms of Service, as stated herein. The software we license to you and the users in your business or organization is referred to as the "Service".

Your use of this Service is an unconditional acceptance of our Terms of Service; provided you have the legal capacity to enter into contracts for yourself or for your organization. You are required to provide current and accurate information as part of our account registration process. We reserve the right to change or modify our Terms of Service at any time without prior notice; however, we will post any new Terms of Service on our website.

I. ACCOUNT USE

All users must be 13 years or older to use this Service. Accounts and user logins may not be registered via automated methods. You may create separate logins for as many users as you need but sharing of user logins is not permitted. You must maintain the security of your account and all user passwords. You may not use this Service for any illegal or unauthorized purposes, such as violating third party copyrights. You are responsible for your account, user activities, and posted content. This service is for use only within the United States of America and the US Territories and thus not subject to the European Union General Data Protection Rule (GDPR).

III. MODIFICATIONS TO THE SERVICE

We reserve the right to modify or discontinue the Service (or any part thereof) with or without notice to you. We are not liable to you or any third party for any modification, price change, suspension or discontinuance of the Service.

IV. OWNERSHIP RIGHTS

Your profile and the content you provide to the Service remain yours. However, by sending your content to other users (via any of the available methods), you agree to allow others to view and share your content. You may not duplicate, copy, modify, or reuse any portion of the HTML/CSS or visual design elements without our prior, express written permission.

V. OTHER CONDITIONS

Your use of this Service is at your sole risk. The Service is provided on an "as is" basis. Technical support is only provided to paying support customers. You agree not to violate our copyright and not to reproduce, duplicate, copy, sell, resell, modify or exploit any portion of the Service or access to this Service without our prior, express written permission. You must not store or post pornographic, obscene, defamatory, threatening or otherwise objectionable content, or content that violates any person's intellectual property or links to such content, through the Service. You must not transmit any

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malicious programs such as viruses, worms and other code or programs intended to inflict harm.

VI. DISCLAIMER OF WARRANTIES

THE SERVICE IS PROVIDED ON AN "AS IS" AND "AS AVAILABLE" BASIS. WE EXPRESSLY DISCLAIM ALL WARRANTIES AND CONDITIONS OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. NO INFORMATION OR ASSISTANCE, WHETHER WRITTEN OR ORAL, PROVIDED BY US OR ANY THIRD PARTY TO YOU SHALL CREATE OR EXTEND ANY WARRANTY.

WE DO NOT WARRANT THAT OUR SERVICE WILL BE UNINTERRUPTED OR FREE OF ERRORS OR OMISSIONS AND WE DO NOT GUARANTEE THE PRIVACY, SECURITY, AUTHENTICITY AND NON-CORRUPTION OF ANY INFORMATION TRANSMITTED THROUGH THIS SERVICE OR THE INTERNET. WE SHALL NOT BE RESPONSIBLE FOR ANY DELAYS, ERRORS, FAILURE TO PERFORM, INTERRUPTIONS OR DISRUPTIONS IN THE SOFTWARE OR SERVICES CAUSED BY OR RESULTING FROM FORCE MAJEURE EVENTS, ACTS OF THIRD PARTIES, OMISSIONS OR CONDITIONS BEYOND OUR REASONABLE AND FORSEEABLE CONTROL.

VII. LIMITATIONS OF LIABILITY

We shall have no liability, whether under any legal theory of warranty, contract, tort (including our negligence or the negligence of any third party), strict liability, or otherwise, regarding the Service or other actions performed by us and relating in any way to this Terms of Service, except as specified in the HIPAA Business Associate Agreement. In no event shall we or any third parties be liable for any special, indirect, incidental, or consequential damage or loss of any nature (such as damages for delay, damage to property, lost profits, death or injury to person, or any claims of those not a party to this Agreement) which may arise in connection with the Service or other acts performed under or relating to this Terms of Service.

X. ENTIRE AGREEMENT

The Business Associate Agreement, our current Terms of Service, and our current End User License Agreement represent our entire agreement with you and supersede any prior agreements or prior terms of service or policies.

XI. APPLICABLE LAW & JURISDICTION

Our Terms of Service are subject to the governing laws of the State of Massachusetts. Only courts of competent jurisdiction in Palmer, Massachusetts shall have original jurisdiction over any disputes arising hereunder or relating to the Software or Services.

XII. Assignment

We may assign these Terms of Service to the surviving entity in a sale, merger or reorganization, or to any purchaser of all or substantially all of the assets of the business to which these Terms of Service relates, or to any affiliate of such

entity. Subject to the foregoing, these Terms of Service shall be binding upon and inure to the benefits of the parties to these Terms of Service and their respective heirs, legal representatives, successors and permitted assigns.

Developer Terms of Use

UnifiMD® FHIR API App registration is available to you to submit FHIR API-based patient-facing Apps for use at healthcare organizations using UnifiMD End Users. UnifiMD End Users are third-party beneficiaries under these Terms and Conditions. Apps submitted to UnifiMD FHIR API will be able to connect to U.S.-based UnifiMD End Users that are using UnifiMD 2.0 or later release and have chosen to enable APIs for this purpose. Apps that use any other APIs, have other users such as providers, or are developed for a specific UnifiMD End User will follow a different process and different terms may apply. You may use UnifiMD FHIR API documentation from Complete Healthcare Solutions, Inc found at UnifiMD.com to develop Apps and submit them to UnifiMD FHIR API if you follow these rules

1. You agree to indemnify, hold harmless and defend Complete HealthCare Solutions, Inc. , its subsidiaries, and UnifiMD End Users and their affiliates, and all of the employees, officers, directors, contractors and other personnel of any of them from and against any claim arising out of or relating to, directly or indirectly, you, any of your Apps, or any use of any of your Apps.
2. UnifiMD will issue a unique client identifier for each App you submit to keep track of which Apps use UnifiMD FHIR APIs. Complete HealthCare Solutions, Inc or a UnifiMD End User might need to suspend or revoke an App's client identifier if there are issues, concerns, or things are otherwise not going well with one of your Apps. If this happens, your App will not be able to communicate with the UnifiMD End User systems until the concern is resolved and the suspended client identifier is restored. Contact Complete HealthCare Solutions, Inc. or the UnifiMD End User or VAR in question to work on resolving the problem that led to the App's client identifier being suspended. Because it is possible that your app will be suspended, you will clearly inform users of your app that it might not always be available to them and that they should not rely on it in an emergency.
3. Direct access to Complete HealthCare Solutions, Inc's software is not required to develop or test your products. Testing can be done via the UnifiMD FHIR API sandbox via the documentation at UnifiMD.com, or by working with a UnifiMD End User to test against a system. Your receipt of the Materials does not give you permission to access Complete HealthCare Solutions, Inc. software, and does not give you permission to access a UnifiMD End Users system. Your access to Complete HealthCare Solutions, Inc. software can only be granted by Complete HealthCare Solutions, Inc.

Developer Guidelines

As an App developer, you are obligated to be familiar with principles for responsible healthcare App development and usage. As part of those responsibilities, you and Apps you submit to UnifiMD® FHIR API must follow all the below guidelines. If you or your Apps fail to follow these guidelines or misbehave in any other way, Complete HealthCare Solutions, Inc. or UnifiMD End Users may act on your App, including notifying users of your App's non-compliance, or suspending your App until the issue can be resolved. If you have reason to suspect your App is not following the guidelines or is misbehaving and would like Complete HealthCare Solutions, Inc. to suspend use of your App until the issue is resolved, you can contact Complete HealthCare Solutions Inc. by visiting UnifiMD.com

1. **Transparency.** Your pricing and marketing materials must be clear and consistent. You and your App must provide to users and UnifiMD End Users understandable financial and licensing terms that will apply to the use of your Apps. All information you provide about yourself and your products must be accurate and truthful.
2. **Safety.** Your App must be designed and implemented to not put patients or your users at risk of harm. You may not use the Materials for any activities that could lead to death, personal injury, or damage to property. Your application must adhere to usability standards, specifically safety-enhanced design and accessibility-centered design
3. **Security.** Your App must not pose a direct risk or otherwise increase the risk of a security breach in any system it connects to. Data exchange between your App and Complete HealthCare Solutions, Inc.'s APIs and between your App and any other third-party system must be secured with industry standard encryption while in transit and use authentication and authorization protocols. Your App must secure all data on an end-user's device and enforce inactivity time-outs. You and your App must not introduce any code of a destructive nature into any system you or your App connect to. Your App's client identifier is given to you for your use only for a single App. You agree to keep your App's client identifier confidential, and will not disclose it to any third party, or use it for any other purpose. Complete HealthCare Solutions, Inc. will provide a log of the activity of your App at connected UnifiMD End User locations for their review.
4. **Privacy.** Your App must provide clear and understandable consent for use and give users the ability to decline consent. Complete HealthCare Solutions, Inc. exclusively supports OAuth 2.0 as the mechanism for authenticating access to patient data, and your App must not circumvent the display of any authentication or consent mechanisms from Complete HealthCare Solutions, Inc. or UnifiMD End Users. You will provide and follow a privacy policy for your App that clearly, accurately, and truthfully describes to your users what data your App collects, and how you use and share this data. Your App must not access, use, or disclose protected health information (PHI) or other confidential information in violation of any law or in any manner other than that which the owner of the information has given its informed consent.
5. **Sharing.** You may not share the data collected by your App with any third party without the explicit consent of the user of the App and the patient whose data is being shared, and without notifying the UnifiMD End User where the data originated. When sharing data, document what was shared, when, with whom, and for what purpose, and provide your users access to that documentation upon request Your App must provide the means for a user to export, transfer, or remove his or her data from application(.

6. **Reliability.** Your App must be properly tested and must be stable, predictable, and not negatively impact clinical operations or patient safety for users or UnifiMD End Users. Development of your App must be documented and managed in a Quality Management System (QMS) and complaints and defects reported about your App must be managed in a complaint tracking system[(n)]. If you identify a patient-safety, security, data breach, or privacy issue with one of your Apps, you must follow your documented complaint process to notify all users, and proactively contact Complete HealthCare Solutions, Inc. to disable your App's usage at UnifiMD End User sites until you resolve the issue.
7. **Efficiency.** Your App is not permitted to generate excessive load on a user's systems or a UnifiMD End Users system, or to cause other systems to behave inaccurately or unexpectedly.
8. **Data Integrity.** You and Your Apps must not corrupt or otherwise cause material inconsistencies in any data used by your Apps.
9. **Verifiability.** Complete HealthCare Solutions, Inc. or UnifiMD End Users may inspect or test your App to verify your compliance with these guidelines and the FHIR API Terms of Use.
10. **Reciprocity.** You will provide FHIR API-based Access to any data you and your App collect or derive to your users on the same terms as provided in these Development Guidelines.

Required ONC Certification Criteria

To ensure minimum standards for safe and effective healthcare software, you and your Apps must meet the below list of ONC certification criteria.

For each App you submit, you must provide one of the following for Complete HealthCare Solutions, Inc., UnifiMD End Users, and users to review:

- Public documentation that your App has been certified to the below specified ONC criteria.
- Public documentation of equivalent functionality in lieu of formal certification.
- Public documentation describing why specific criteria aren't applicable for your App.

Complete HealthCare Solutions, Inc. or UnifiMD® End Users may review documentation supplied by you at any time to ensure you meet these criteria. If documentation you supply is missing or inaccurate, Complete HealthCare Solutions, Inc. or UnifiMD End Users may act on your App, including notifying users of your App's non-compliance, or suspending your App until the issue can be resolved.

45 CFR 170.315 (b)(6) (Data Export): "A user can configure the technology to create export summaries using the Continuity of Care Document template."

45 CFR 170.315 (d)(1) (Authentication, Access Control, Authorization): "Verify against a unique identifier(s) (e.g., username or number) that a user seeking access to electronic health information is the one claimed; and [...] establish the type of access to electronic health information a user is permitted based on the unique identifier(s) provided"

45 CFR 170.315 (d)(2) (Auditable Events and Tamper-resistance): "The health IT records actions pertaining to electronic health information [...] when health IT is in use; changes to user privileges when health IT is in use; and records the date and time [each action occurs]. [...] The health IT records the audit log status [...] when the audit log status is changed and records the date and time each action occurs. [...] The health IT records the information [...] when the encryption status of locally stored electronic health information on end-user devices is changed and records the date and time each action occurs.

45 CFR 170.315 (d)(3) (Audit Report(s)): "Enable a user to create an audit report for a specific time period and to sort entries in the audit log according to each of the data."

45 CFR 170.315 (d)(5) (Automatic Access Time-out): "Automatically stop user access to health information after a predetermined period of inactivity. [...] Require user authentication to resume or regain the access that was stopped."

45 CFR 170.315 (d)(7) (End-user Device Encryption): "Technology that is designed to locally store electronic health information on end-user devices must encrypt the electronic health information stored on such devices after use of the technology on those devices stops [or] technology is designed to prevent electronic health information from being locally stored on end-user devices after use of the technology on those devices stops."

45 CFR 170.315 (d)(8) (Integrity): "Verify [...] upon receipt of electronically exchanged health information that such information has not been altered."

45 CFR 170.315 (d)(9) (Trusted Connection): "Health IT needs to provide a level of trusted connection using either 1) encrypted and integrity message protection or 2) a trusted connection for transport."

45 CFR 170.315 (d)(11) (Accounting of Disclosures): "Record disclosures made for treatment, payment, and health care operations."

45 CFR 170.315 (g)(3) (Safety-enhanced Design): "User-centered design processes must be applied to each capability technology."

45 CFR 170.315 (g)(4) (Quality Management System): "For each capability that a technology includes and for which that capability's certification is sought, the use of a Quality Management System (QMS) in the development, testing, implementation, and maintenance of that capability must be identified."

45 CFR 170.315 (g)(5) (Accessibility-centered Design): "The use of a health IT accessibility-centered design standard or law in the development, testing, implementation and maintenance of that capability must be identified."

45 CFR 170.315 (g)(7) (Application Access - Patient Selection): " The technology must be able to receive a request with sufficient information to uniquely identify a patient and return an ID or other token that can be used by an application to subsequently execute requests for that patient's data."

45 CFR 170.315 (g)(8) (Application Access - Data Category Request): "Respond to requests for patient data (based on an ID or other token) for each of the individual data categories specified in the Common Clinical Data Set and return the full set of data for that data category (according to the specified standards, where applicable) in a computable format."

45 CFR 170.315 (g)(9) (Application Access - All Data Request): "Respond to requests for patient data (based on an ID or other token) for all of the data categories specified in the Common Clinical Data Set at one time and return such data (according to the specified standards, where applicable) in a summary record formatted [...] following the CCD document template."

45 CFR 170.523 (k)(1) (Pricing Transparency): "Any additional types of costs that an EP, EH, or CAH would pay to implement the Complete EHR's or EHR Module's capabilities in order to attempt to meet meaningful use objectives and measures."

45 CFR 170.523 (n) (Complaint Process): "Submit a list of complaints received to the National Coordinator on a quarterly basis each calendar year that includes the number of complaints received, the nature/substance of each complaint, and the type of complainant for each complaint."

Enabling Users inside of UnifiMD®.

1. Click on the Configuration Menu
2. Click FHIR Access Logins
3. Click New
4. Enter a username, password and description describing the purpose of this login.
    a. A new login should be created for each interface. Do not share logins, otherwise there will be no way to accurately audit
    b. Use a strong password consisting of at least 12 characters that are a combination of letters, numbers and symbols (@, #, $, %, etc). Use letters in both uppercase and lowercase.

Creating a SQL Server Read Only Login (You may require the assistance of your IT Admin or UnifiMD support team to complete this step)

1. Open SQL Server Management Studio. This should be installed on your server. If not installed, download instructions and links can be found here
    a. https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-2017
2. Open Object Explorer from the View Menu
3. Expand Security
4. Right Click Logins and click New Login
5. Enter the Login Name
6. Choose SQL Server Authentication
7. Enter a Secure Password
8. Click the User Mapping Page
9. Select Your UnifiMD Practice database(s)
10. Select the user role of db_datareader

Setting up A Web Server in IIS (This step will likely require assistance from your IT Admin)

The methods for enabling a web server will vary depending on your operating system.
The methods for requesting a certificate will also vary on your operating system as well as your hosting provider.

1. Enable IIS on your web server
    - *For your reference here is an article to help you enable IIS on Server 2012 https://www.atlantic.net/cloud-hosting/how-to-configure-iis-windows-server-2012/*
2. Download the UnifiMD FHIR API web service files to your webserver. unifimdfhirapiwebservices.zip can be downloaded by clicking here.
3. After downloading UnifiMD, extract the files from the archive and place the ReleaseFHIR folder in C:\inetpub\.
4. Open the file C:\inetpub\ReleaseFHIR\Web.config
5. Find the value "DefaultConnectionString"
    a. value="Data Source=**Enter your SQL server instance name here**;Initial
    b. Catalog=**Enter your Unifi Practice Database Name Here**;
    c. User ID=;Password= Enter the SQL Username and Password that you created earlier in this guide.
6. Order a new domain name or setup an existing one.
7. Create an SSL Certificate Request in IIS and order an SSL Certificate to secure your site
    - *Here is an article to setup an SSL Certificate with GoDaddy https://www.godaddy.com/help/iis-10windows-server-2016-generate-csrs-certificate-signing-requests-27348*

b. You can repeat these steps for each practice that you would like to enable API Access. Each database does require it's own unique site but they can be hosted on the same web server.

Recommendations:

Use a dedicated web server. Do not use a database server or workstation as your web server.
Place your webserver in a DMZ section of your network off of your domain
Disable SSL 2.0 and 3.0 on your web server
Disable TLS 1.0
Configure Secure Ciphers

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Test Environment

A client may setup their own test environment by creating a 2nd database, and website, however CHS hosts an Interactive site that can be used for testing.

Visit https://unifimdapi.com/unifimdapi/index
User: Demo
Password: Ch$1497

Patient Sample:
Unique ID: 415
Steve Lyashtuck
07/04/1943
Male

Test Application

A sample client application is available to download as well. Click Here to download.

Once downloaded and extracted, you can launch the sample application from CHSAPICalls\CHSAPICalls\bin\Debug\chsreference.exe.

You may test using the credentials in the CHS Sandbox above, or in production once the end user had completed the web server setup.

a. Enabling users inside of UnifiMD
b. Create a read only login to your SQL Server
c. Setting up a secure web server

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Patient Identification and Selection

- To test in the CHS Sandbox, you will need the URL, Credentials and Patient Sample located here.
- To test in production with an end user, the web server setup described earlier in this manual must be complete.
    d. Enabling users inside of UnifiMD
    e. Create a read only login to your SQL Server
    f. Setting up a secure web server

Functions

- Authentication
    - {"UserName":"demo","Password":"demo"}

The Get Patient ID's will return values based on the following demographics. The more data that is entered, the more specific your results will be.

- POST /Patient/GetPatientIds
    - {
    - "SNN": "",
    - "Birthdate": "1950-01-01",
    - "FirstName": "",
    - "LastName": "",
    - "Phone": "",
    - "Email": "someone@gmail.com",
    - "Sex": "M"
    - }

Once you have the Unique ID, all that is needed for the remaining calls is the ID Number in the API Call. In the example below "415" is the Unique ID representing a specific patient. That ID is all that is needed for any of the remaining API Category's.

```
415
```

Each of the following API call will return a full CCD file, however only the demographic data and the data specified in the API Category will return. The non specified API Categories will report as `<text>Data in this section may be excluded or not available.</text>`

The exception to this is POST /Patient/GetPatientAll. This API cal will return a full CCD with available data in all applicable categories.

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The following syntax can be used with all of the following API Calls. All calls require the following data to return results


```
{
  "EndDate": "2018-10-09",
  "PatientID": 415,
  "StartDate": "2018-10-09"
}
```


API Syntax Table of Contents. Click a link below to be brought to the corresponding sample data in the Sample Response Below.

- **POST /Patient/GetSocialHistory**
  - Demographics
    - Marital Status
    - Employment Status
  - Social History
    - Diet
    - Drug Use
    - Alcohol Use
    - Tobacco Use
    - Exercise
- **POST /Patient/GetMedications**
  - Medications
- **POST /Patient/GetImplantDevices**
  - UDI
- **POST /Patient/GetImmunization**
  - Immunizations
- **POST /Patient/GetReferrals**
  - Referrals
- **POST /Patient/GetAllergies**
  - Allergies
  - Reactions
- **POST /Patient/GetMedicationAdministrered**
  - Injectables

Response Codes & Exceptions

200 – OK
401 – Failed Authentication
500 – Improperly Formatted Parameters
200 `{  "resourceType": "Bundle" } = Incorrect Patient Identifier`

Sample API Call and Response

- Using JSON to enter the parameters for Date Range and Patient ID.
- Requesting the response in CCD XML

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/xml'
--header 'Authorization: Bearer
Ul0uIeM4DTA6TG6Y65C48I6ks7UheNNKCqKya8a_DaU05bJKnrNnFizRAeXwU5ul5iUwxKPD-
g_uwXqFW5rlAdc18lvC5uOa39N4RWvu-vHyGd8HrTZjHxEEOKNYUva58hqUmY_Hw93E-
rzMmnNHdfFi9FwistVYQSKPN1xvWk7F4EhGOp6vvrw7XQ4ulTFNiZ1J3V_eF4VRF_sYXXT2jg' -d '{ \
   "EndDate": "2019-02-14", \
   "PatientID": 417, \
   "StartDate": "2018-02-14" \
 }' 'https://chsisrds/Patient/GetPatientAll'
```

Sample Response

Responses will be delivered in accordance with the format of Consolidated-Clinical Document Architecture (C-CDA) for Meaningful Use Stage 2 / XML text.

Following is a sample result with relevant section headers highlighted. This was taken

<?xml version="1.0" encoding="utf-8"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:sdtc="urn:hl7-org:sdtc"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gsd="http://aurora.regenstrief.org/GenericXMLSchema" xmlns:sch="http://www.ascc.net/xml/schematron"
xmlns:xlink="http://www.w3.org/TR/WD-xlink" xmlns:mif="urn:hl7-org:v3/mif">
  <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="35631a54-83a9-4526-b9fb-0261892d464b" extension="this is documentid"
assigningAuthorityName="UnifiMD EHR" />
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="34133-9"
displayName="Summarization of episode note" />
  <title>Summarization of episode note</title>
  <effectiveTime value="20190220134453" />

```
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
  <languageCode code="en-US" />
  <recordTarget>
    <patientRole>
      <id root="35631a54-83a9-4526-b9fb-0261892d464b" extension="mrn416" assigningAuthorityName="UnifiMD
EHR" />
      <addr use="HP">
        <streetAddressLine>1357 Amber Dr</streetAddressLine>
        <city>Beaverton</city>
        <state>Oregon</state>
        <postalCode>97006</postalCode>
        <country>US</country>
      </addr>
      <telecom use="HP" value="555-723-1544" />
      <telecom use="MC" value="555-777-1234" />
      <patient>
        <name>
          <given>Alice</given>
          <given>Jones</given>
          <family>Newman</family>
        </name>
        <name>
          <given qualifier="BR">Alicia</given>
          <family>Newman</family>
        </name>
        <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="F" displayName="Female" />
        <birthTime value="19700501" />
        <raceCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDC - Race and Ethnicity" code="2106-
3" displayName="White" />
        <sdtc:raceCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDC - Race and Ethnicity"
code="2108-9" displayName="White European" />
        <ethnicGroupCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDC - Race and Ethnicity"
code="2186-5" displayName="Not Hispanic or Latino" />
        <languageCommunication>
          <languageCode code="en" />
        </languageCommunication>
      </patient>
      <providerOrganization>
        <id root="1.1.1.1.1.1.1.1.4" />
        <name>Neighborhood Physicians Practice EMR</name>
        <telecom use="WP" value="5555551002" />
        <addr use="WP">
```


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```
            <streetAddressLine>2472, Rocky place, Beaverton, OR-97</streetAddressLine>
            <city>Beaverton</city>
            <state>Oregon</state>
            <postalCode>97006-3000</postalCode>
            <country>USA</country>
          </addr>
        </providerOrganization>
      </patientRole>
    </recordTarget>
    <author>
      <time value="20190220134453" />
      <assignedAuthor>
        <id root="2.16.840.1.113883.4.6" />
        <code code="208D00000X " codeSystem="2.16.840.1.113883.6.101" codeSystemName="NUCC"
displayName="Neighborhood Physicians Practice EMR" />
        <addr use="WP">
          <streetAddressLine>2472, Rocky place, Beaverton, OR-97</streetAddressLine>
          <city>Beaverton</city>
          <state>Oregon</state>
          <postalCode>97006-3000</postalCode>
          <country>USA</country>
        </addr>
        <telecom use="WP" value="5555551002" />
        <assignedPerson>
          <name>
            <given>admin</given>
            <family>admin</family>
          </name>
        </assignedPerson>
        <representedOrganization>
          <id root="2.16.840.1.113883.3.441.1.50" extension="300011" />
          <name>Neighborhood Physicians Practice EMR</name>
          <telecom use="WP" value="5555551002" />
          <addr use="WP">
            <streetAddressLine>2472, Rocky place, Beaverton, OR-97</streetAddressLine>
            <city>Beaverton</city>
            <state>Oregon</state>
            <postalCode>97006-3000</postalCode>
            <country>USA</country>
          </addr>
        </representedOrganization>
      </assignedAuthor>
```


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```
</author>
<dataEnterer>
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      <state>Oregon</state>
      <postalCode>97006-3000</postalCode>
      <country>USA</country>
    </addr>
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        <family>admin</family>
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  </assignedEntity>
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        <postalCode>97006-3000</postalCode>
        <country>USA</country>
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displayName="CHIEF COMPLAINT AND REASON FOR VISIT" />
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          <text>
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                <tr>
                  <th>Substance</th>
                  <th>Reaction</th>
                  <th>Status</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>
          Amoxicillin, [Code: ]
                  </td>
```

```
                    <td>Rash</td>
                    <td>Active</td>
                  </tr>
                </tbody>
              </table>
            </text>
            <entry typeCode="DRIV">
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displayName="Allergies, adverse reactions, alerts" />
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codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" />
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displayName="History of immunizations" />
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                  <tr>
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                    <th>Date</th>
                    <th>Status</th>
```


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```
                <th>Lot number</th>
              </tr>
            </thead>
            <tbody>
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                <td>
          DTaP(CVX: 20)
                </td>
                <td>February 14, 2019 </td>
                <td></td>
                <td></td>
              </tr>
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displayName="DTaP" />
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displayName="Treatment plan" />
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<th>Name</th>
<th>Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>
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</td>
<td>Care Plan</td>
<td>June 22, 2015 </td>
</tr>
<tr>
<td>Urinalysis</td>
<td>Pending Order</td>
<td>February 20, 2019 </td>
</tr>
</tbody>
</table>
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<code xsi:type="CE" displayName="Goal" />
<text>
The patient was found to have fever and Dr Davis is suspecting Anemia based on the patient history. So Dr Davis asked the patient to closely monitor the temperature and blood pressure and get admitted to

```
Community Health Hospitals if the fever does not subside within a day</text>
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            <effectiveTime value="20190220" />
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    </component>
                    Care Provider</td>
                      <td>Referal to other provider</td>
                      <td>February 14, 2019 </td>
                    </tr>
                  </tbody>
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                <act classCode="ACT" moodCode="INT">
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                  <effectiveTime value="20190214" />
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```

```
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            </entry>
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        </component>
        <component>
          <section>
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displayName="ASSESSMENTS" />
            <title>ASSESSMENTS</title>
            <text>The patient was found to have fever and Dr Davis is suspecting Anemia
            based on the patient history. So Dr Davis asked the patient to closely
            monitor the temperature and blood pressure and get admitted to
           Community Health Hospitals if the fever does not subside within a day.</text>
          </section>
        </component>
        <component>
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codeSystemName="LOINC" />
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                    <th>Status</th>
                    <th>Date</th>
                  </tr>
                </thead>
                <tbody>
                  <tr>
                    <td></td>
                    <td>Active</td>
```

```
                    <td>February 14, 2019 </td>
                  </tr>
                </tbody>
              </table>
              <br />
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                  <tr>
                    <th>Concern</th>
                    <th>Status</th>
                    <th>Date</th>
                  </tr>
                </thead>
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                    <td>completed</td>
                    <td>February 14, 2019 </td>
                  </tr>
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              </table>
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                    </tr>
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                      <td>February 14, 2019 </td>
                    </tr>
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        Nebulizer therapy, [Code: 56251003]
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Smoking Status: Never smoker, [Code: 266919005]
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            <th>Date</th>
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<td>
 185
                ( cm )
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            <td>February 14, 2019 </td>
          </tr>
          <tr>
            <td>Patient Body Weight - Measured</td>
<td>
 90.72
                ( kg )
              </td>
            <td>February 14, 2019 </td>
          </tr>
          <tr>
            <td>BP Systolic</td>
<td>
 52
                ( mm[Hg] )
              </td>
            <td>February 14, 2019 </td>
          </tr>
          <tr>
            <td>BP Diastolic</td>
<td>
 85
                ( mm[Hg] )
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            <td>February 14, 2019 </td>
          </tr>
          <tr>
            <td>BMI (Body Mass Index)</td>
<td>
 26.4
```

```
                ( kg/m2 )
              </td>
              <td>February 14, 2019 </td>
            </tr>
            <tr>
              <td>Heart Rate</td>
<td>
 95
                ( /min )
              </td>
              <td>February 14, 2019 </td>
            </tr>
            <tr>
              <td>O2 % BldC Oximetry</td>
<td>
 100.00
                ( % )
              </td>
              <td>February 14, 2019 </td>
            </tr>
            <tr>
              <td>Body Temperature</td>
<td>
 37.0
                ( Cel )
              </td>
              <td>February 14, 2019 </td>
            </tr>
            <tr>
              <td>Respiratory Rate</td>
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 85
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              <td>February 14, 2019 </td>
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              <td>Inhaled Oxygen Concentration</td>
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 50.00
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```

```
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            [Code:]
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                      <value xsi:type="CD" code="195967001" codeSystem="2.16.840.1.113883.6.96"
nullFlavor="OTH">
                        <translation code="34436003" codeSystem="2.16.840.1.113883.6.96" />
                      </value>
```


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```
                    </observation>
                  </entryRelationship>
                </act>
              </entryRelationship>
            </encounter>
          </entry>
        </section>
      </component>
      <component>
        <section>
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          <code code="46240-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="History of Encounters" />
          <title>Encounter Diagnoses</title>
          <text>
            <table border="1" width="100%">
              <thead>
                <tr>
                  <th>Procedure Code</th>
                  <th>status</th>
                  <th>Date</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>
          [Code:34436003]
                    </td>
                  <td></td>
                  <td>February 14, 2019 </td>
                </tr>
              </tbody>
            </table>
          </text>
          <entry typeCode="DRIV">
            <act classCode="ACT" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.22.4.80" extension="2015-08-01" />
              <templateId root="2.16.840.1.113883.10.20.22.4.80" />
              <templateId root="2.16.840.1.113883.10.20.22.4.19" />
              <id root="2.16.840.1.113883.3.8.888.900" extension="1304" />
```


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```
            <code code="29308-4" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"
displayName="ENCOUNTER DIAGNOSIS" />
            <statusCode code="completed" />
            <effectiveTime>
              <low value="20190214" />
            </effectiveTime>
            <entryRelationship typeCode="SUBJ" inversionInd="false">
              <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
                <templateId root="2.16.840.1.113883.10.20.22.4.4" />
                <id root="2.16.840.1.113883.3.8.888.900" extension="1304" />
                <code code="409586006" codeSystem="2.16.840.1.113883.6.96" displayName="Complaint">
                  <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Condition" />
                </code>
                <statusCode code="completed" />
                <effectiveTime>
                  <low value="20190214" />
                </effectiveTime>
                <value xsi:type="CD" code="195967001" codeSystem="2.16.840.1.113883.6.96" nullFlavor="OTH">
                  <translation code="34436003" codeSystem="2.16.840.1.113883.6.96" />
                </value>
              </observation>
            </entryRelationship>
          </act>
        </entry>
      </section>
    </component>
    <component>
      <section>
        <templateId root="2.16.840.1.113883.10.20.22.2.3.1" extension="2015-08-01" />
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        <code code="30954-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="RESULTS" />
        <title>RESULTS</title>
<component>
      <section>
        <templateId root="2.16.840.1.113883.10.20.22.2.3.1" extension="2015-08-01" />
        <templateId root="2.16.840.1.113883.10.20.22.2.3.1" />
        <code code="30954-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="RESULTS" />
        <title>RESULTS</title>
```


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```
<text>
  <table border="1" width="100%">
    <thead>
      <tr>
        <th>Name</th>
        <th>Actual Result</th>
        <th>Date</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>
SPECIFIC GRAVITY, [LOINC: 5811-5]
         </td>
        <td>
1.015 () ,
            Status: completed</td>
        <td>June 22, 2015 </td>
      </tr>
      <tr>
        <td>
KETONES URINE, [LOINC: 5797-6]
         </td>
        <td>
Negative () ,
            Status: completed</td>
        <td>June 22, 2015 </td>
      </tr>
      <tr>
        <td>
PH URINE, [LOINC: 5803-2]
         </td>
        <td>
5.0 ([pH]) ,
            Status: completed</td>
        <td>June 22, 2015 </td>
      </tr>
      <tr>
        <td>
GLUCOSE UA, [LOINC: 5792-7]
         </td>
        <td>
```


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50 (mg/dL) ,
Status: completed</td>
<td>June 22, 2015 </td>
</tr>
<tr>
<td>
Color of Urine, [LOINC: 5778-6]
</td>
<td>
Yellow () ,
Status: completed</td>
<td>June 22, 2015 </td>
</tr>
<tr>
<td>
Appearance of Urine, [LOINC: 5767-9]
</td>
<td>
Clear () ,
Status: completed</td>
<td>June 22, 2015 </td>
</tr>
<tr>
<td>
Protein Mass/Volume in urine by test strip, [LOINC: 5804-0]
</td>
<td>
100 (mg/dL) ,
Status: completed</td>
<td>June 22, 2015 </td>
</tr>
</tbody>
</table>
</text>
<entry typeCode="DRIV">
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<id root="7d5a02b0-67a4-11db-bd13-0800200c9a66" />
*<code xsi:type="CE" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1" code=**"24357-6"***
*displayName="**Urinanalysis macro(dipstick) panel**" />*
*<statusCode code="**completed**" />*

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```
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
    <templateId root="2.16.840.1.113883.10.20.22.4.2" />
    <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
    <code codeSystem="2.16.840.1.113883.6.1" code="5811-5" displayName="SPECIFIC GRAVITY" />
    <statusCode code="completed" />
    <effectiveTime value="20150622" />
    <value xsi:type="ST">1.015</value>
    <referenceRange>
      <observationRange>
        <value xsi:type="IVL_PQ">
          <low value="1.00000" />
          <high value="1.04000" />
        </value>
      </observationRange>
    </referenceRange>
  </observation>
</component>
<component>
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    <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
    <templateId root="2.16.840.1.113883.10.20.22.4.2" />
    <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
    <code codeSystem="2.16.840.1.113883.6.1" code="5797-6" displayName="KETONES URINE" />
    <statusCode code="completed" />
    <effectiveTime value="20150622" />
    <value xsi:type="ST">Negative</value>
  </observation>
</component>
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
    <templateId root="2.16.840.1.113883.10.20.22.4.2" />
    <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
    <code codeSystem="2.16.840.1.113883.6.1" code="5803-2" displayName="PH URINE" />
    <statusCode code="completed" />
    <effectiveTime value="20150622" />
    <value xsi:type="PQ" value="5.0" unit="[pH]" />
  </observation>
</component>
<component>
```

```
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          <templateId root="2.16.840.1.113883.10.20.22.4.2" />
          <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
          <code codeSystem="2.16.840.1.113883.6.1" code="5792-7" displayName="GLUCOSE UA" />
          <statusCode code="completed" />
          <effectiveTime value="20150622" />
          <value xsi:type="PQ" value="50" unit="mg/dL" />
        </observation>
      </component>
      <component>
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
          <templateId root="2.16.840.1.113883.10.20.22.4.2" />
          <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
          <code codeSystem="2.16.840.1.113883.6.1" code="5778-6" displayName="Color of Urine" />
          <statusCode code="completed" />
          <effectiveTime value="20150622" />
          <value xsi:type="ST">Yellow</value>
        </observation>
      </component>
      <component>
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
          <templateId root="2.16.840.1.113883.10.20.22.4.2" />
          <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
          <code codeSystem="2.16.840.1.113883.6.1" code="5767-9" displayName="Appearance of Urine" />
          <statusCode code="completed" />
          <effectiveTime value="20150622" />
          <value xsi:type="ST">Clear</value>
        </observation>
      </component>
      <component>
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2015-08-01" />
          <templateId root="2.16.840.1.113883.10.20.22.4.2" />
          <id root="107c2dc0-67a5-11db-bd13-0800200c9a66" />
          <code codeSystem="2.16.840.1.113883.6.1" code="5804-0" displayName="Protein Mass/Volume in
urine by test strip" />
          <statusCode code="completed" />
          <effectiveTime value="20150622" />
          <value xsi:type="PQ" value="100" unit="mg/dL" />
```


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```
                </observation>
              </component>
            </organizer>
          </entry>
        </section>
      </component>
      <component>
        <section>
          <templateId root="2.16.840.1.113883.10.20.22.2.5.1" extension="2015-08-01" />
          <templateId root="2.16.840.1.113883.10.20.22.2.5.1" />
          <code code="11450-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="PROBLEM LIST" />
          <title>PROBLEMS</title>
          <text>Data in this section may be excluded or not available.</text>
          <entry>
            <act classCode="ACT" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2015-08-01" />
              <templateId root="2.16.840.1.113883.10.20.22.4.3" />
              <id root="2.16.840.1.113883.3.441" extension="c5df6f29978b472f9fd6359c08a65c65" />
              <code code="CONC" codeSystem="2.16.840.1.113883.5.6" />
              <statusCode code="active" />
              <effectiveTime>
                <low nullFlavor="UNK" />
              </effectiveTime>
              <entryRelationship typeCode="SUBJ">
                <observation classCode="OBS" moodCode="EVN">
                  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
                  <templateId root="2.16.840.1.113883.10.20.22.4.4" />
                  <id root="2.16.840.1.113883.3.441" extension="c5df6f29978b472f9fd6359c08a65c65" />
                  <code code="55607006" displayName="Condition" codeSystemName="SNOMED-CT"
codeSystem="2.16.840.1.113883.6.96">
                    <translation code="75323-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Condition" />
                  </code>
                  <statusCode code="completed" />
                  <effectiveTime>
                    <low nullFlavor="UNK" />
                  </effectiveTime>
                  <value xsi:type="CD" code="55607006" displayName="Disease"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
                </observation>
              </entryRelationship>
```


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```
            </act>
          </entry>
        </section>
      </component>
      <component>
        <section>
          <templateId root="2.16.840.1.113883.10.20.22.2.14" />
          <code code="47420-5" codeSystem="2.16.840.1.113883.6.1" />
          <title>FUNCTIONAL STATUS</title>
          <text>
            <table border="1" width="100%">
              <thead>
                <tr>
                  <th>Functional Condition</th>
                  <th>Type</th>
                  <th>Date</th>
                  <th>Status</th>
                </tr>
              </thead>
              <tbody>
                <tr>
                  <td>Functional Status</td>
                  <td>Functional</td>
                  <td>February 14, 2019 </td>
                  <td>
                        Active
                    </td>
                </tr>
              </tbody>
            </table>
          </text>
          <entry>
            <observation classCode="OBS" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.22.4.68" />
              <id root="2.16.840.1.113883.3.441.1.50.300011.51.26604.68" extension="fnid1038" />
              <code codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" code="64572001"
displayName="Problem" />
              <text>Functional Status</text>
              <statusCode code="completed" />
              <effectiveTime>
                <low value="20190214" />
              </effectiveTime>
```

```
            <value xsi:type="CD" code="105504002" displayName="Functional Status" />
          </observation>
        </entry>
      </section>
    </component>
    <component>
      <section>
        <templateId root="1.3.6.1.4.1.19376.1.5.3.1.3.1" extension="2014-06-09" />
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        <code code="42349-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="REFERRALS" />
        <title>REFERRALS</title>
        <text>
          <paragraph>
       Referral 1<br />
            Details: Care Provider<br />
            Scheduled Appointment Date:   February 14, 2019 <br />
    </paragraph>
        </text>
      </section>
    </component>
  </structuredBody>
</component>
```