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# HIV CASE-BASED SURVEILLANCE

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Screenshots from openMRS case reporting module

NOVEMBER 8, 2016  
CENTERS FOR DISEASE CONTROL AND PREVENTION

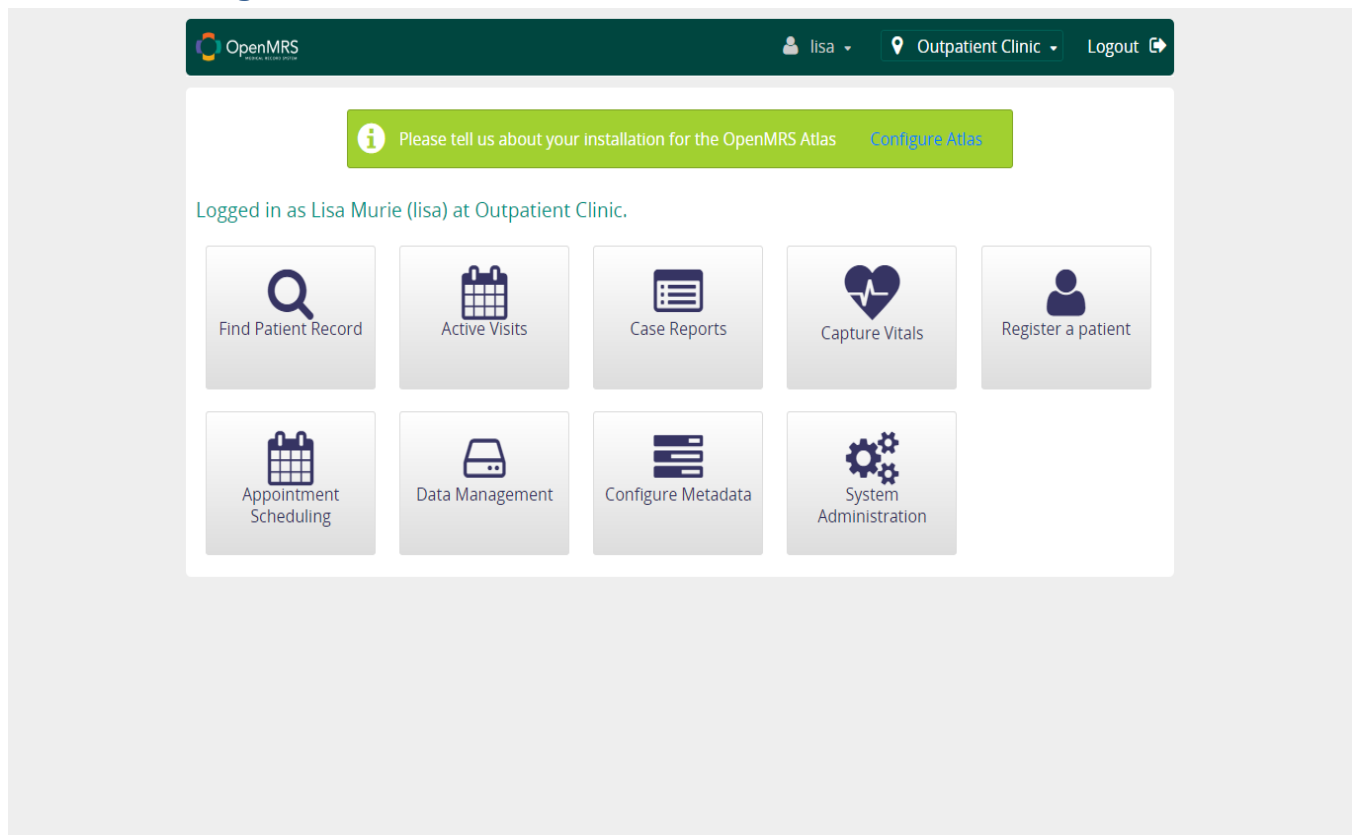
## Use case: Test patient John M Doe

Below is a list of all triggers defined for HIV case based surveillance along the care cascade; in the case reporting module in openMRS.

1. New HIV Case
2. New HIV Disease
3. New HIV Treatment
4. ART Therapy changed to second line
5. HIV Treatment stopped
6. HIV treatment failure
7. Patient died
8. HIV not virally suppressed
9. HIV patient not tested
10. HIV patient lost to follow up

NOTE: For the last three triggers screenshots have not been included. I wasn't able to replicate the scenarios that would fire the **HIV patient not tested** trigger (viral load) and **HIV patient lost to follow up** based on how the queries were defined in the case reporting module. For the **HIV not virally suppressed** trigger. There wasn't any queries included in the module.

### 1. Home Page



## 2. Registering the test patient

OpenMRS admin Outpatient Clinic Logout

> Register a patient

### Register a patient

<b>Demographics</b>	<b>Name:</b> John , M, Doe
<input checked="" type="checkbox"/> Name	<b>Gender:</b> Male
<input checked="" type="checkbox"/> Gender	<b>Birthdate:</b> 23, February, 1991
<input checked="" type="checkbox"/> Birthdate	<b>Address:</b> 1234 Moringa Drive
<b>Contact Info</b>	<b>Phone Number:</b> --
<input checked="" type="checkbox"/> Address	
Phone Number	
<b>Confirm</b>	Confirm submission? <input type="button" value="Cancel"/> <input type="button" value="Confirm"/>

## 3. New HIV Case

Enter the observation for a reportable sentinel event. In this case, patient HIV test results are positive.

OpenMRS admin Outpatient Clinic Logout

> John M. Doe > Edit: HIV Sentinel events

John M Doe Male 25 year(s) (23.Feb.1991) Edit Show Contact Info Patient ID 10001V

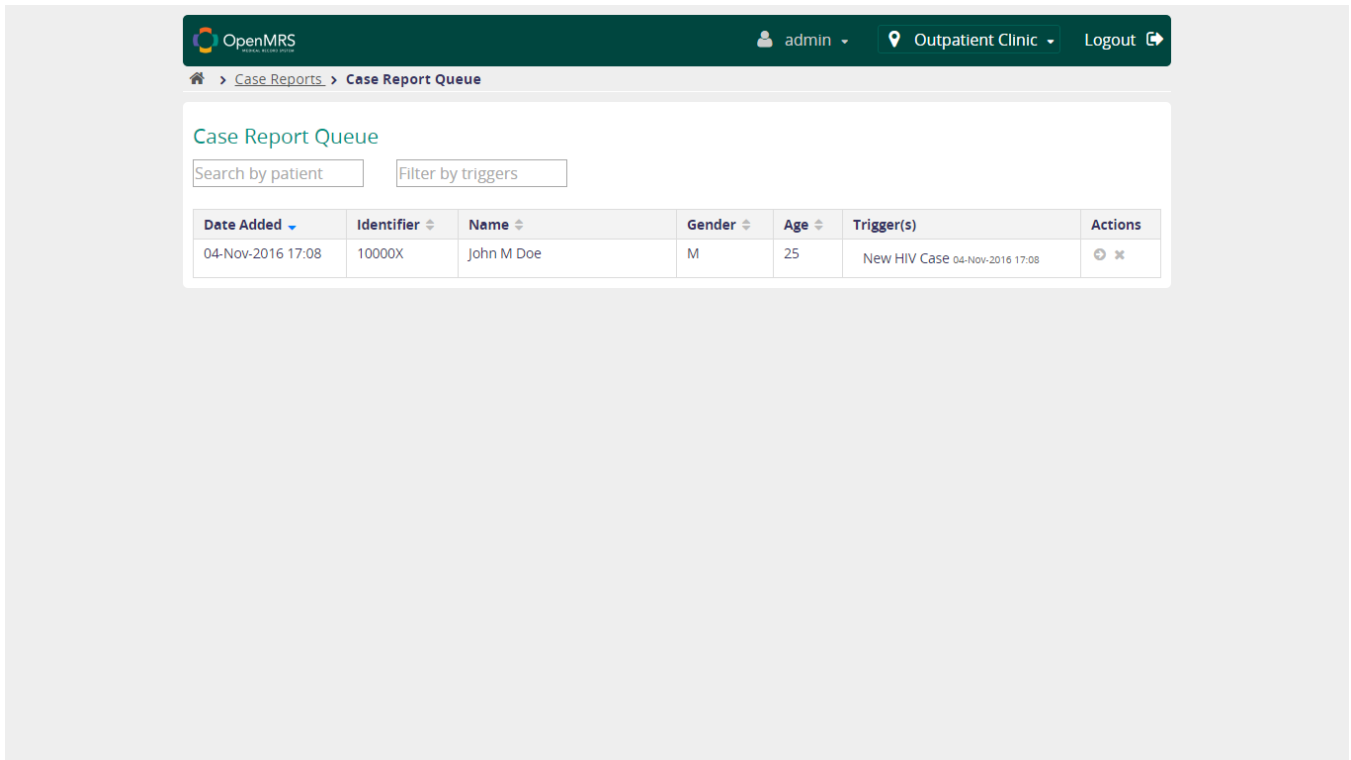
Active Visit - 03.Nov.2016, 15:35:11 Outpatient

Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

<b>1. Encounter Details</b>	
Date:	11/03/2016 (mm/dd/yyyy)
Location:	Outpatient Clinic
Provider:	Lisa Murie
<b>2. HIV Rapid Test</b>	
HIV Test Result	POSITIVE

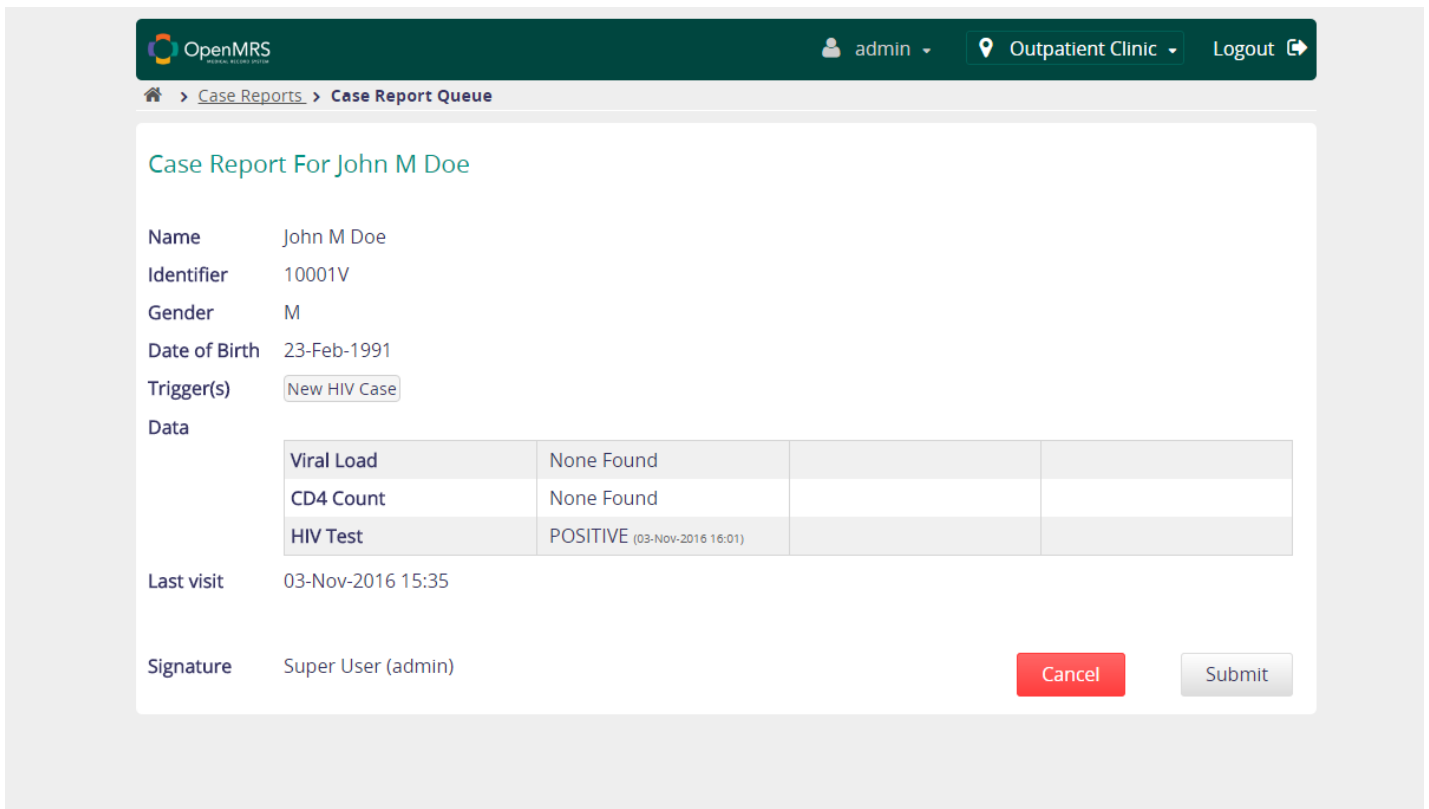
New HIV Case trigger is fired by the observation and entered in the case report queue



The screenshot shows the OpenMRS Case Report Queue interface. At the top, there is a navigation bar with the OpenMRS logo, user 'admin', location 'Outpatient Clinic', and a 'Logout' button. Below the navigation bar, the breadcrumb path is 'Home > Case Reports > Case Report Queue'. The main content area is titled 'Case Report Queue' and contains two search filters: 'Search by patient' and 'Filter by triggers'. Below the filters is a table with the following data:

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
04-Nov-2016 17:08	10000X	John M Doe	M	25	New HIV Case 04-Nov-2016 17:08	⌂ ✕

One can either submit or decline the queued case report



The screenshot shows the OpenMRS Case Report For John M Doe interface. At the top, there is a navigation bar with the OpenMRS logo, user 'admin', location 'Outpatient Clinic', and a 'Logout' button. Below the navigation bar, the breadcrumb path is 'Home > Case Reports > Case Report Queue'. The main content area is titled 'Case Report For John M Doe' and contains the following information:

Name: John M Doe  
Identifier: 10001V  
Gender: M  
Date of Birth: 23-Feb-1991  
Trigger(s): New HIV Case

Data


Viral Load	None Found		
CD4 Count	None Found		
HIV Test	POSITIVE (03-Nov-2016 16:01)		

Last visit: 03-Nov-2016 15:35

Signature: Super User (admin)

Buttons: Cancel (red), Submit (grey)

## Submitted case reports

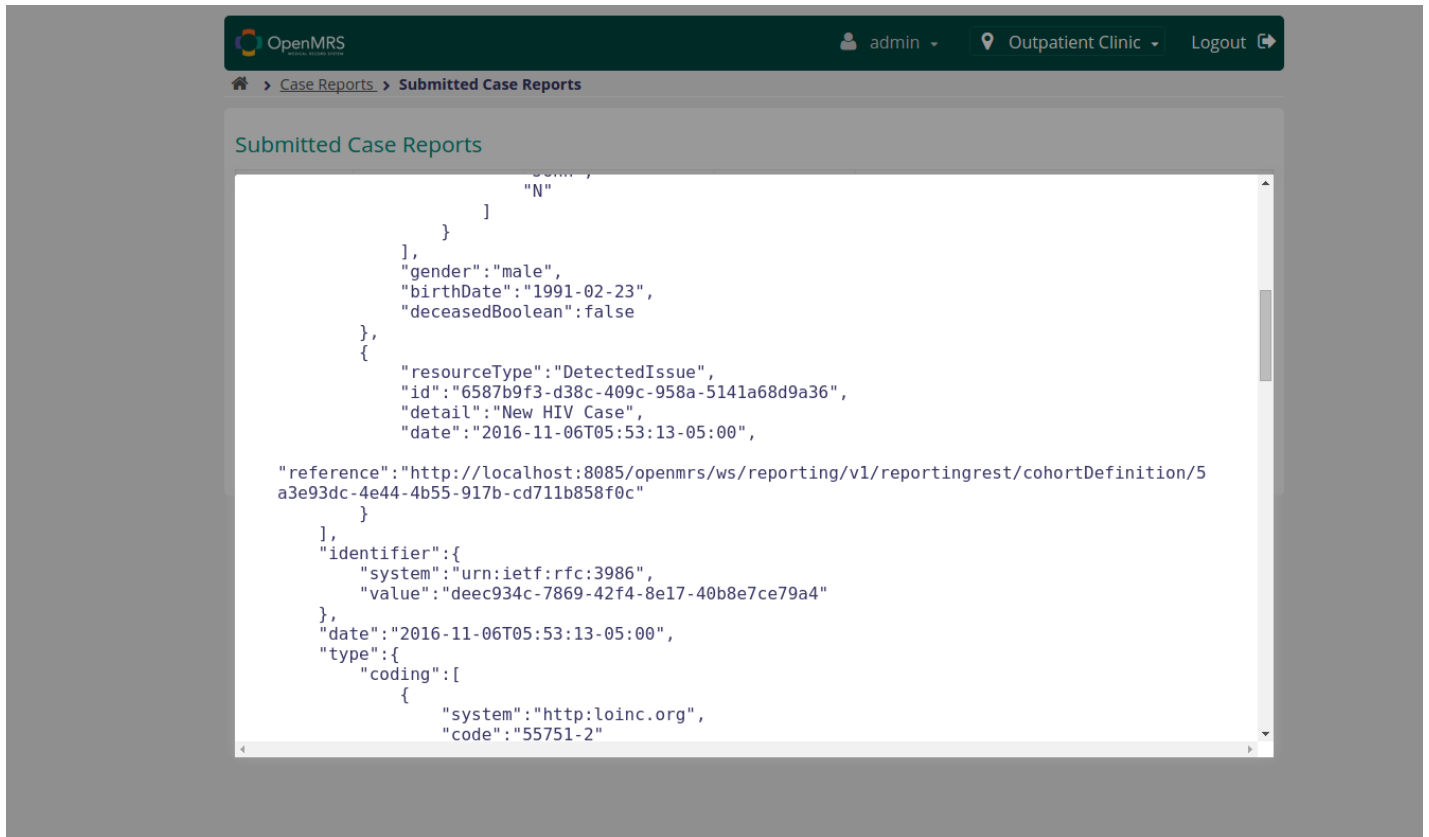
 admin ▼ 📍 Outpatient Clinic ▼ Logout 👉

[🏠](#) > [Case Reports](#) > **Submitted Case Reports**

### Submitted Case Reports

Date	Identifier	Name	Gender	Trigger(s)
Today	10001V	John N Doe	M	New HIV Case
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	HIV Patient Died
Today	10000X	John M Doe	M	HIV Treatment Stopped
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	HIV Switched To Second Line
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	New HIV Disease

## Case report as a FHIR Document



The screenshot displays the OpenMRS web interface. At the top, the header includes the OpenMRS logo, the user 'admin', the location 'Outpatient Clinic', and a 'Logout' button. Below the header, the breadcrumb navigation shows 'Home > Case Reports > Submitted Case Reports'. The main content area is titled 'Submitted Case Reports' and contains a text area with a FHIR JSON document. The document is a FHIR Case Report instance with the following details:

```
    "N"
  ]
}
},
"gender": "male",
"birthDate": "1991-02-23",
"deceasedBoolean": false
},
{
  "resourceType": "DetectedIssue",
  "id": "6587b9f3-d38c-409c-958a-5141a68d9a36",
  "detail": "New HIV Case",
  "date": "2016-11-06T05:53:13-05:00",
  "reference": "http://localhost:8085/openmrs/ws/reporting/v1/reportingrest/cohortDefinition/5a3e93dc-4e44-4b55-917b-cd711b858f0c"
}
],
"identifier": {
  "system": "urn:ietf:rfc:3986",
  "value": "deec934c-7869-42f4-8e17-40b8e7ce79a4"
},
"date": "2016-11-06T05:53:13-05:00",
"type": {
  "coding": [
    {
      "system": "http://loinc.org",
      "code": "55751-2"
    }
  ]
}
```

## 4. New HIV Disease

Enter details for WHO staging based on HIV disease diagnosed

The screenshot shows the 'Edit: HIV Sentinel events' form in OpenMRS. The patient is John M. Doe, Male, 25 years old (DOB: 23.Feb.1991). The active visit is from 05.Nov.2016 at 17:35:33, and the location is Outpatient. The form is divided into three sections: 1. Encounter Details, 2. HIV Rapid Test, and 3. WHO Staging. The WHO Staging is currently set to WHO STAGE 3 ADULT. A 'Save Changes' button is at the bottom.

OpenMRS admin Outpatient Clinic Logout

John M. Doe Male 25 year(s) (23.Feb.1991) Edit Show Contact Info Patient ID 10000X

Active Visit - 05.Nov.2016, 17:35:33 Outpatient

Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

#### 1. Encounter Details

Date:  (mm/dd/yyyy)

Location:

Provider:

#### 2. HIV Rapid Test

HIV Rapid Test

#### 3. WHO Staging

WHO Stage

## Case report queue

The screenshot shows the 'Case Report Queue' in OpenMRS. It includes search and filter fields and a table with columns: Date Added, Identifier, Name, Gender, Age, Trigger(s), and Actions. The table contains one entry for John M. Doe, Male, 25, with a trigger of 'New HIV Disease 06-Nov-2016 0:40'.

OpenMRS admin Outpatient Clinic Logout

Case Reports > Case Report Queue

### Case Report Queue

Search by patient  Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 0:40	10000X	John M Doe	M	25	New HIV Disease 06-Nov-2016 0:40	<input type="button" value="↺"/> <input type="button" value="✕"/>

## Review and submit the reports

OpenMRS admin Outpatient Clinic Logout

Case Reports > Case Report Queue

### Case Report For John M Doe

Name: John M Doe  
Identifier: 10000X  
Gender: M  
Date of Birth: 23-Feb-1991  
Trigger(s): New HIV Disease

Data

Viral Load	None Found		
CD4 Count	None Found		
HIV Test	POSITIVE (05-Nov-2016 17:36)		

Current WHO Classification: WHO STAGE 3 ADULT  
Last visit: 05-Nov-2016 17:35

Signature: Super User (admin) Cancel Submit

## Submitted case reports

OpenMRS admin Outpatient Clinic Logout

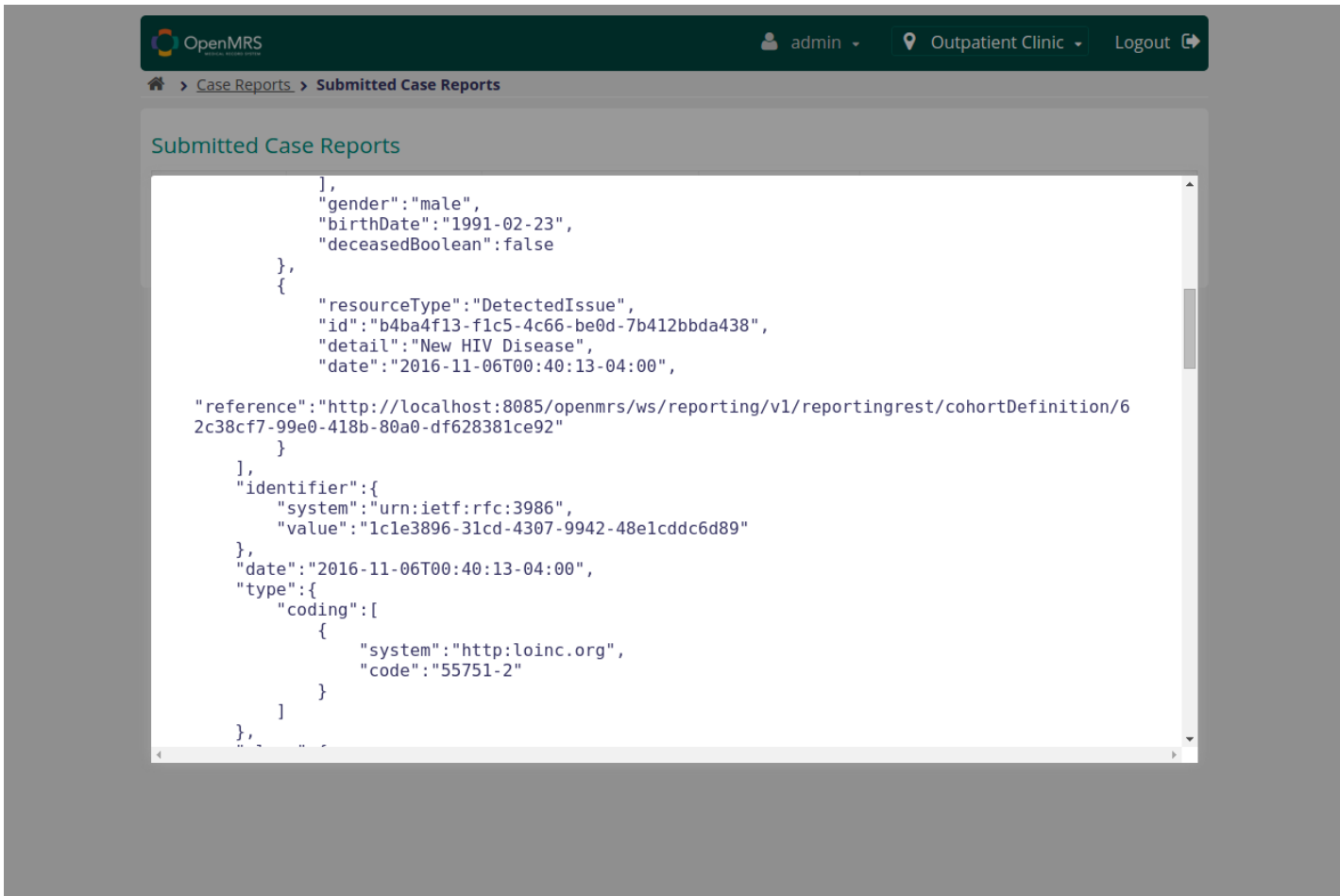
Case Reports > Submitted Case Reports

### Submitted Case Reports

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	New HIV Disease



## Case report as FHIR document



The screenshot shows the OpenMRS interface. The top navigation bar includes the OpenMRS logo, a user profile for 'admin', a location dropdown for 'Outpatient Clinic', and a 'Logout' button. The breadcrumb trail indicates the current page is 'Submitted Case Reports'. The main content area is titled 'Submitted Case Reports' and displays a JSON FHIR document for a detected issue.

```
    ],
    "gender": "male",
    "birthDate": "1991-02-23",
    "deceasedBoolean": false
  },
  {
    "resourceType": "DetectedIssue",
    "id": "b4ba4f13-f1c5-4c66-be0d-7b412bbda438",
    "detail": "New HIV Disease",
    "date": "2016-11-06T00:40:13-04:00",

    "reference": "http://localhost:8085/openmrs/ws/reporting/v1/reportingrest/cohortDefinition/62c38cf7-99e0-418b-80a0-df628381ce92"
  }
],
"identifier": {
  "system": "urn:ietf:rfc:3986",
  "value": "1c1e3896-31cd-4307-9942-48e1cddc6d89"
},
"date": "2016-11-06T00:40:13-04:00",
"type": {
  "coding": [
    {
      "system": "http://loinc.org",
      "code": "55751-2"
    }
  ]
}
},
...

```

## 5. New HIV Treatment

OpenMRS admin Outpatient Clinic Logout

John M Doe Edit: HIV Sentinel events Patient ID 10000X

John M Doe Male 25 year(s) (23.Feb.1991) Edit Show Contact Info

Active Visit - 05.Nov.2016, 17:35:33 Outpatient Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

1. Encounter Details	
Date:	11/05/2016 (mm/dd/yyyy)
Location:	Outpatient Clinic
Provider:	Super User

2. HIV Rapid Test	
HIV Rapid Test	POSITIVE

3. WHO Staging	
WHO Stage	WHO STAGE 3 ADULT

4. HIV Treatment Plan	
ART plan	START DRUGS
Reason ART started	TREATMENT

Save Changes

Case reporting queue

### Case Report Queue

Search by patient

Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 1:20	10000X	John M Doe	M	25	New HIV Treatment 06-Nov-2016 1:20	⌂ ✕

## Review and Submit report

### Case Report For John M Doe

[Show Previous Case Reports](#)

Name: John M Doe

Identifier: 10000X

Gender: M

Date of Birth: 23-Feb-1991

Trigger(s):

Data

Viral Load	None Found		
CD4 Count	None Found		
HIV Test	POSITIVE (05-Nov-2016 17:36)		

Current WHO Classification: WHO STAGE 3 ADULT

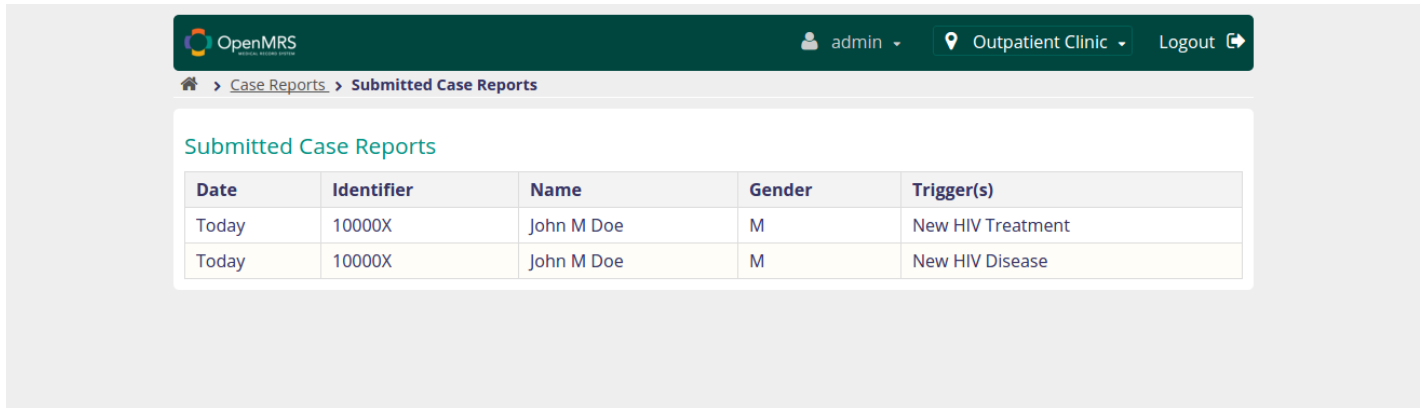
Last visit: 05-Nov-2016 17:35

Signature: Super User (admin)

Cancel

Submit

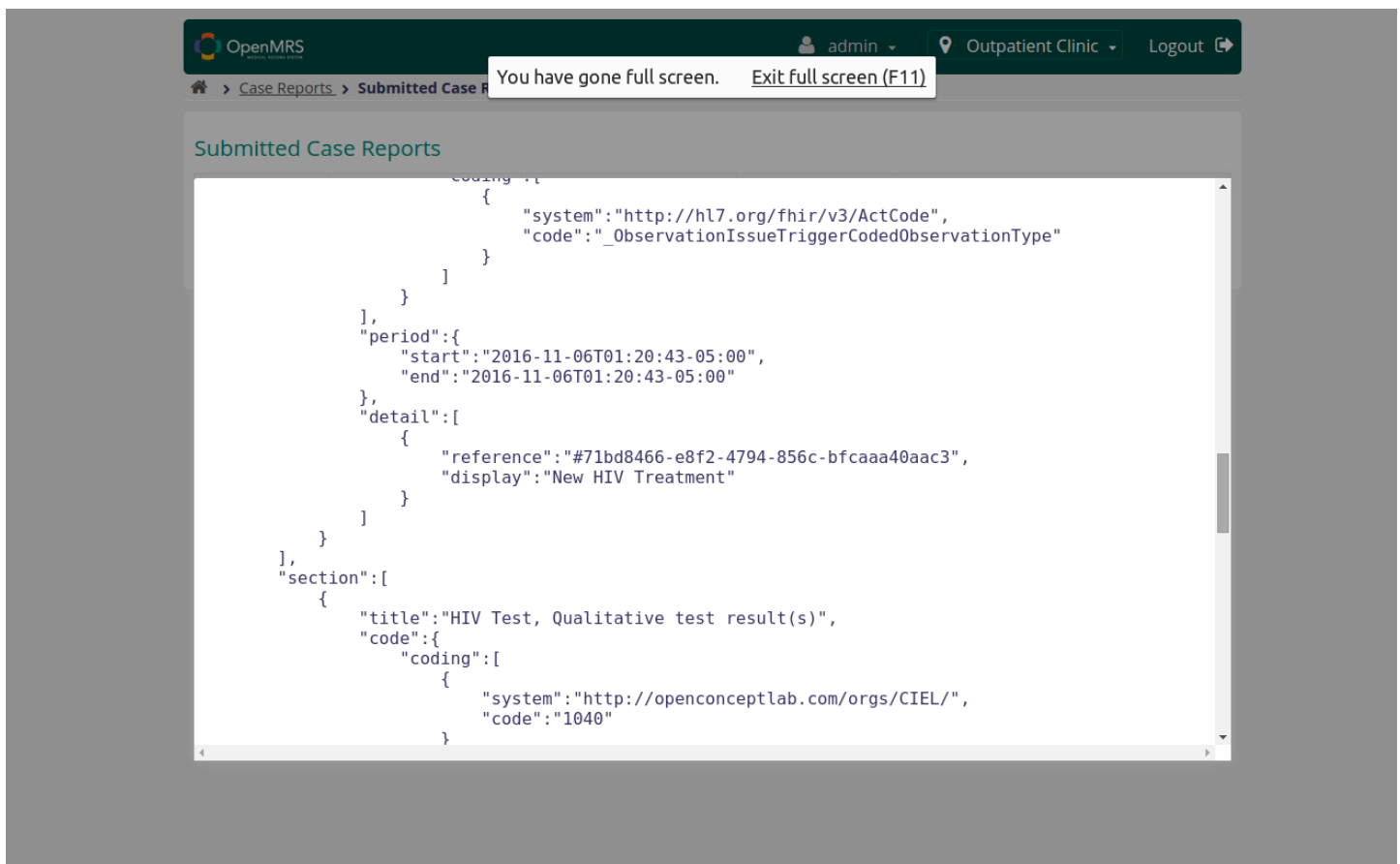
## Submitted case reports



The screenshot shows the OpenMRS interface. The top navigation bar includes the OpenMRS logo, a user profile for 'admin', a location dropdown for 'Outpatient Clinic', and a 'Logout' button. Below the navigation bar, the breadcrumb trail reads 'Home > Case Reports > Submitted Case Reports'. The main content area is titled 'Submitted Case Reports' and contains a table with the following data:

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	New HIV Disease

## Case report as FHIR Document



The screenshot shows the OpenMRS interface with a modal window displaying a FHIR document. The modal title is 'Submitted Case Reports'. The FHIR document is a JSON object representing a section of a case report. The document structure is as follows:

```
{
  "section": [
    {
      "title": "HIV Test, Qualitative test result(s)",
      "code": {
        "coding": [
          {
            "system": "http://openconceptlab.com/orgs/CIEL/",
            "code": "1040"
          }
        ]
      }
    },
    {
      "detail": [
        {
          "reference": "#71bd8466-e8f2-4794-856c-bfcaaa40aac3",
          "display": "New HIV Treatment"
        }
      ]
    },
    {
      "period": {
        "start": "2016-11-06T01:20:43-05:00",
        "end": "2016-11-06T01:20:43-05:00"
      }
    }
  ],
  "coding": [
    {
      "system": "http://hl7.org/fhir/v3/ActCode",
      "code": "_ObservationIssueTriggerCodedObservationType"
    }
  ]
}
```

## 6. ART Therapy changed to second line

Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

#### 1. Encounter Details

Date:	<input type="text" value="11/05/2016"/> (mm/dd/yyyy)
Location:	<input type="text" value="Outpatient Clinic"/>
Provider:	<input type="text" value="Super User"/>

#### 2. HIV Rapid Test

HIV Rapid Test

#### 3. WHO Staging

WHO Stage

#### 4. HIV Treatment Plan

ART plan

Reason ART started

Reason Treatment stopped

#### 5. ART changed to second line therapy

Reason switched to second line.

#### 6. HIV Treatment failure

Reason for Treatment failure

Save Changes

## Case report queue

OpenMRS admin Outpatient Clinic Logout

Case Reports > Case Report Queue

### Case Report Queue

Search by patient  Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 1:16	10000X	John M Doe	M	25	HIV Switched To Second Line 06-Nov-2016 1:16	<a href="#">🔄</a> <a href="#">✕</a>

## Review and submit case report

OpenMRS admin Outpatient Clinic Logout

Case Reports > Case Report Queue

### Case Report For John M Doe

[^ Hide Previous Case Reports](#)

- 06-Nov-2016 1:55 - HIV Treatment Failure
- 06-Nov-2016 1:40 - HIV Treatment Stopped
- 06-Nov-2016 1:23 - New HIV Treatment
- 06-Nov-2016 1:03 - HIV Treatment Failure
- 06-Nov-2016 1:02 - New HIV Disease

**Name** John M Doe  
**Identifier** 10000X  
**Gender** M  
**Date of Birth** 23-Feb-1991  
**Trigger(s)**

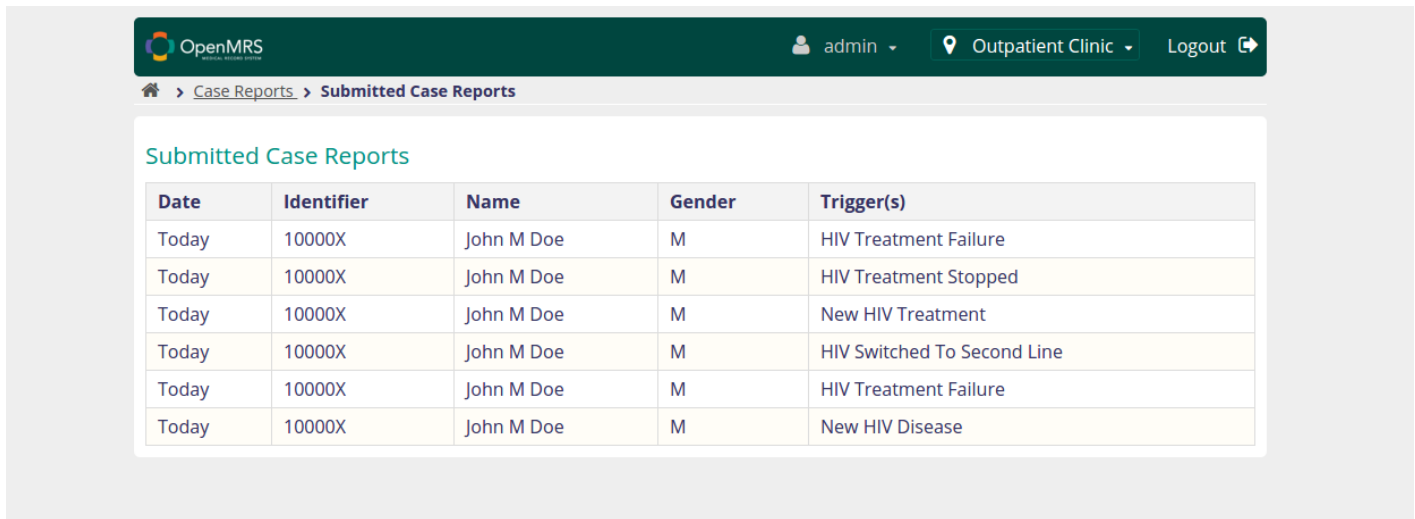
**Data**

Viral Load	None Found		
CD4 Count	None Found		
HIV Test	POSITIVE (05-Nov-2016 17:36)		

**Current WHO Classification** WHO STAGE 3 ADULT  
**Reason ARVs stopped** Toxicity, drug  
**Last visit** 05-Nov-2016 17:35

**Signature** Super User (admin) Cancel Submit

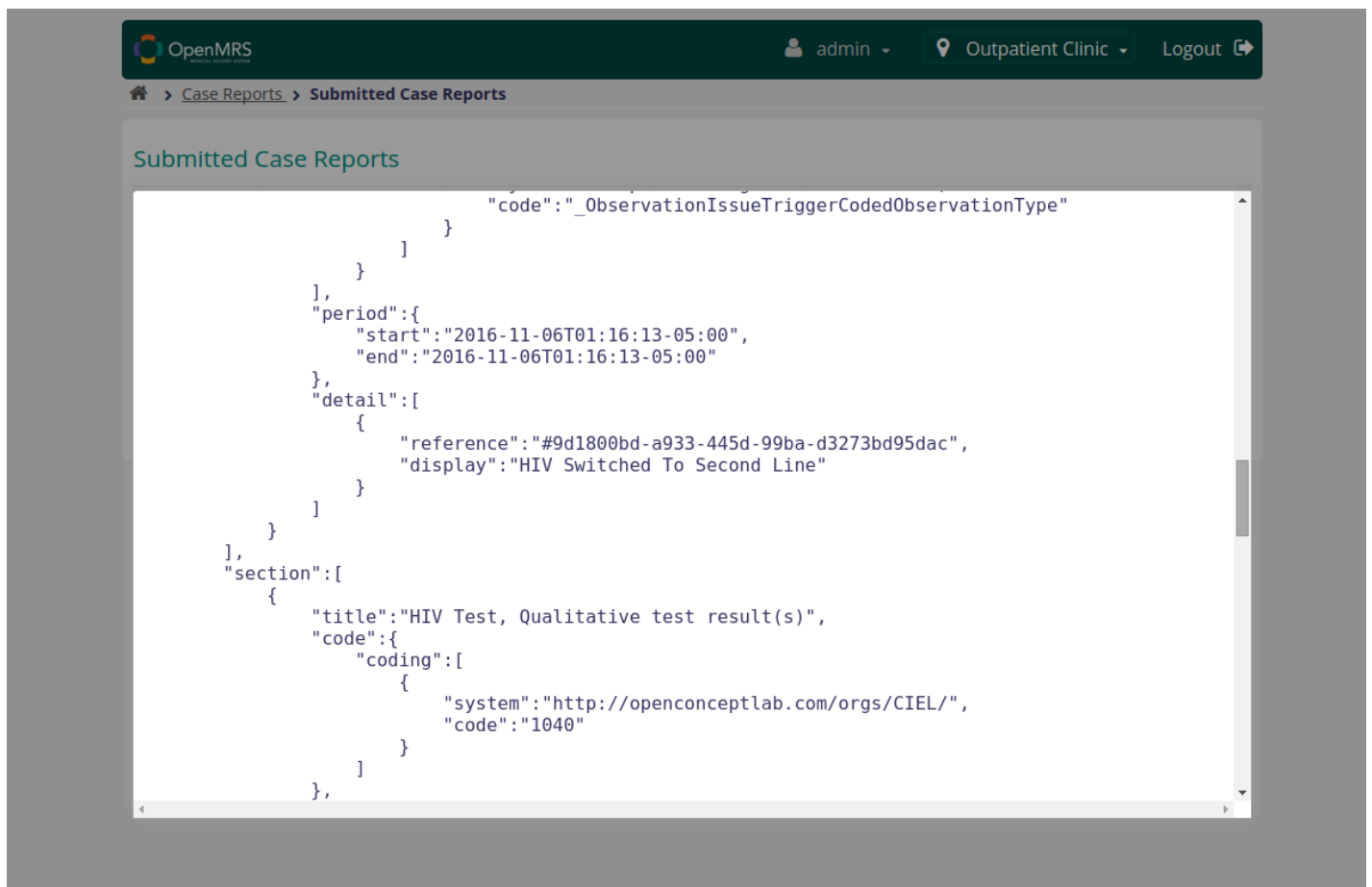
## Submitted case reports



The screenshot shows the OpenMRS interface for 'Submitted Case Reports'. The header includes the OpenMRS logo, user 'admin', location 'Outpatient Clinic', and a 'Logout' button. The breadcrumb trail is 'Home > Case Reports > Submitted Case Reports'. The main content is a table with the following data:

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	HIV Treatment Stopped
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	HIV Switched To Second Line
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	New HIV Disease

## Case report as FHIR Document



The screenshot shows the OpenMRS interface for 'Submitted Case Reports' displaying a FHIR document. The header and breadcrumb trail are identical to the previous screenshot. The main content is a code editor showing the following JSON snippet:

```
    "code": "_ObservationIssueTriggerCodedObservationType"
  }
}
],
"period":{
  "start":"2016-11-06T01:16:13-05:00",
  "end":"2016-11-06T01:16:13-05:00"
},
"detail":[
  {
    "reference":"#9d1800bd-a933-445d-99ba-d3273bd95dac",
    "display":"HIV Switched To Second Line"
  }
]
},
"section":[
  {
    "title":"HIV Test, Qualitative test result(s)",
    "code":{
      "coding":[
        {
          "system":"http://openconceptlab.com/orgs/CIEL/",
          "code":"1040"
        }
      ]
    }
  }
]
},
],
```

## 7. HIV Treatment stopped

OpenMRS admin Outpatient Clinic Logout

John M. Doe > Edit: HIV Sentinel events

John M Doe Male 25 year(s) (23.Feb.1991) Edit Show Contact Info Patient ID 10000X

Active Visit - 05.Nov.2016, 17:35:33 Outpatient

Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

#### 1. Encounter Details

Date: 11/05/2016 (mm/dd/yyyy)

Location: Outpatient Clinic

Provider: Super User

#### 2. HIV Rapid Test

HIV Rapid Test

POSITIVE

#### 3. WHO Staging

WHO Stage

WHO STAGE 3 ADULT

#### 4. HIV Treatment Plan

ART plan

START DRUGS

Reason ART started

TREATMENT

Reason Treatment stopped

Toxicity, drug

Save Changes

### Case reporting queue

OpenMRS admin Outpatient Clinic Logout

Case Reports > Case Report Queue

Case Report Queue

Search by patient Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 1:37	10000X	John M Doe	M	25	HIV Treatment Stopped 06-Nov-2016 1:37	⌂ ✕



## Review and submit case report

OpenMRS admin Outpatient Clinic Logout

[Home](#) > [Case Reports](#) > [Case Report Queue](#)

### Case Report For John M Doe

[^ Hide Previous Case Reports](#)

06-Nov-2016 1:23 - New HIV Treatment  
06-Nov-2016 1:02 - New HIV Disease

**Name** John M Doe  
**Identifier** 10000X  
**Gender** M  
**Date of Birth** 23-Feb-1991  
**Trigger(s)** HIV Treatment Stopped

**Data**

Test	Result	Date
Viral Load	None Found	
CD4 Count	None Found	
HIV Test	POSITIVE	(05-Nov-2016 17:36)

**Current WHO Classification** WHO STAGE 3 ADULT  
**Reason ARVs stopped** Toxicity, drug  
**Last visit** 05-Nov-2016 17:35

**Signature** Super User (admin) Cancel Submit

## Submitted reports

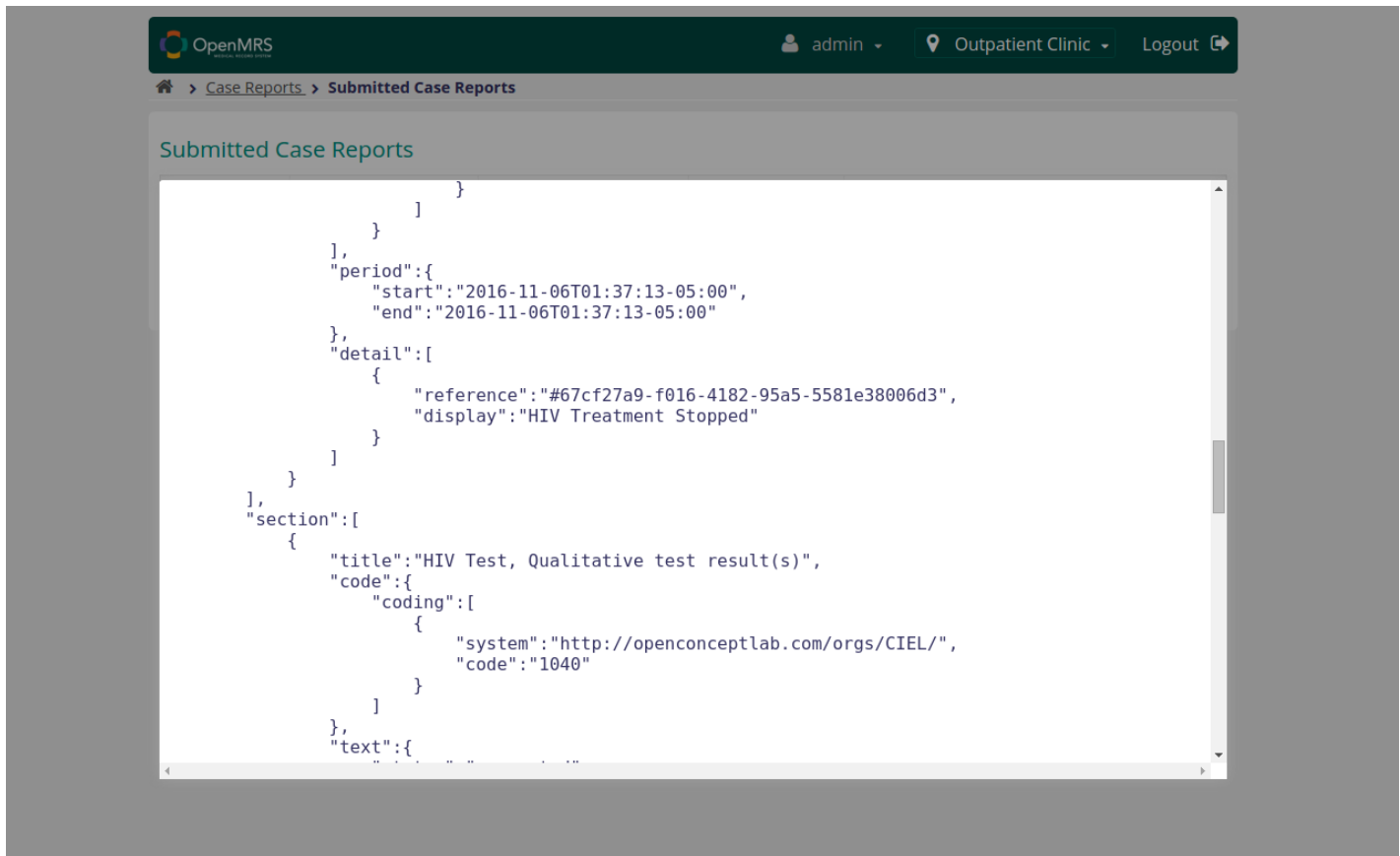
OpenMRS admin Outpatient Clinic Logout

[Home](#) > [Case Reports](#) > [Submitted Case Reports](#)

### Submitted Case Reports

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	HIV Treatment Stopped
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	New HIV Disease

## Case report as FHIR document



The screenshot shows the OpenMRS interface. The top navigation bar includes the OpenMRS logo, a user profile for 'admin', a location dropdown for 'Outpatient Clinic', and a 'Logout' button. Below the navigation bar, the breadcrumb trail reads 'Case Reports > Submitted Case Reports'. The main content area is titled 'Submitted Case Reports' and displays a FHIR document in a code editor. The visible portion of the JSON document is as follows:

```
    ]
  },
  "period":{
    "start":"2016-11-06T01:37:13-05:00",
    "end":"2016-11-06T01:37:13-05:00"
  },
  "detail":[
    {
      "reference":"#67cf27a9-f016-4182-95a5-5581e38006d3",
      "display":"HIV Treatment Stopped"
    }
  ]
},
"section":[
  {
    "title":"HIV Test, Qualitative test result(s)",
    "code":{
      "coding":[
        {
          "system":"http://openconceptlab.com/orgs/CIEL/",
          "code":"1040"
        }
      ]
    }
  },
  "text":{
```

## 8. HIV treatment failure

Home > John M Doe > Edit: HIV Sentinel events

John M Doe Male 25 year(s) (2) Patient ID 10000X

Active Visit - 05.Nov.2016, 17:35:33 Outpatient You have gone full screen. Exit full screen (F11)

Paper Form ID: (Fill this in)

### HIV Sentinel events (v1.0)

**1. Encounter Details**

Date:  (mm/dd/yyyy)

Location:

Provider:

**2. HIV Rapid Test**

HIV Rapid Test

**3. WHO Staging**

WHO Stage

**4. HIV Treatment Plan**

ART plan

Reason ART started

Reason Treatment stopped

**5. HIV Treatment failure**

Reason for Treatment failure

## Case report queue

OpenMRS admin | Outpatient Clinic | Logout

Home > Case Reports > Case Report Queue

### Case Report Queue

Search by patient  Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 1:52	10000X	John M Doe	M	25	HIV Treatment Failure 06-Nov-2016 1:52	<a href="#">↻</a> <a href="#">✕</a>

## Review and submit or dismiss case report

OpenMRS
admin
Outpatient Clinic
Logout

[Home](#) > [Case Reports](#) > [Case Report Queue](#)

### Case Report For John M Doe

[^ Hide Previous Case Reports](#)

06-Nov-2016 1:40 - HIV Treatment Stopped

06-Nov-2016 1:23 - New HIV Treatment

06-Nov-2016 1:02 - New HIV Disease

<b>Name</b>	John M Doe
<b>Identifier</b>	10000X
<b>Gender</b>	M
<b>Date of Birth</b>	23-Feb-1991
<b>Trigger(s)</b>	HIV Treatment Failure
<b>Data</b>	

Viral Load	None Found		
CD4 Count	None Found		
HIV Test	POSITIVE (05-Nov-2016 17:36)		

<b>Current WHO Classification</b>	WHO STAGE 3 ADULT
<b>Reason ARVs stopped</b>	Toxicity, drug
<b>Last visit</b>	05-Nov-2016 17:35
<b>Signature</b>	Super User (admin)

Cancel
Submit

## Submitted case reports

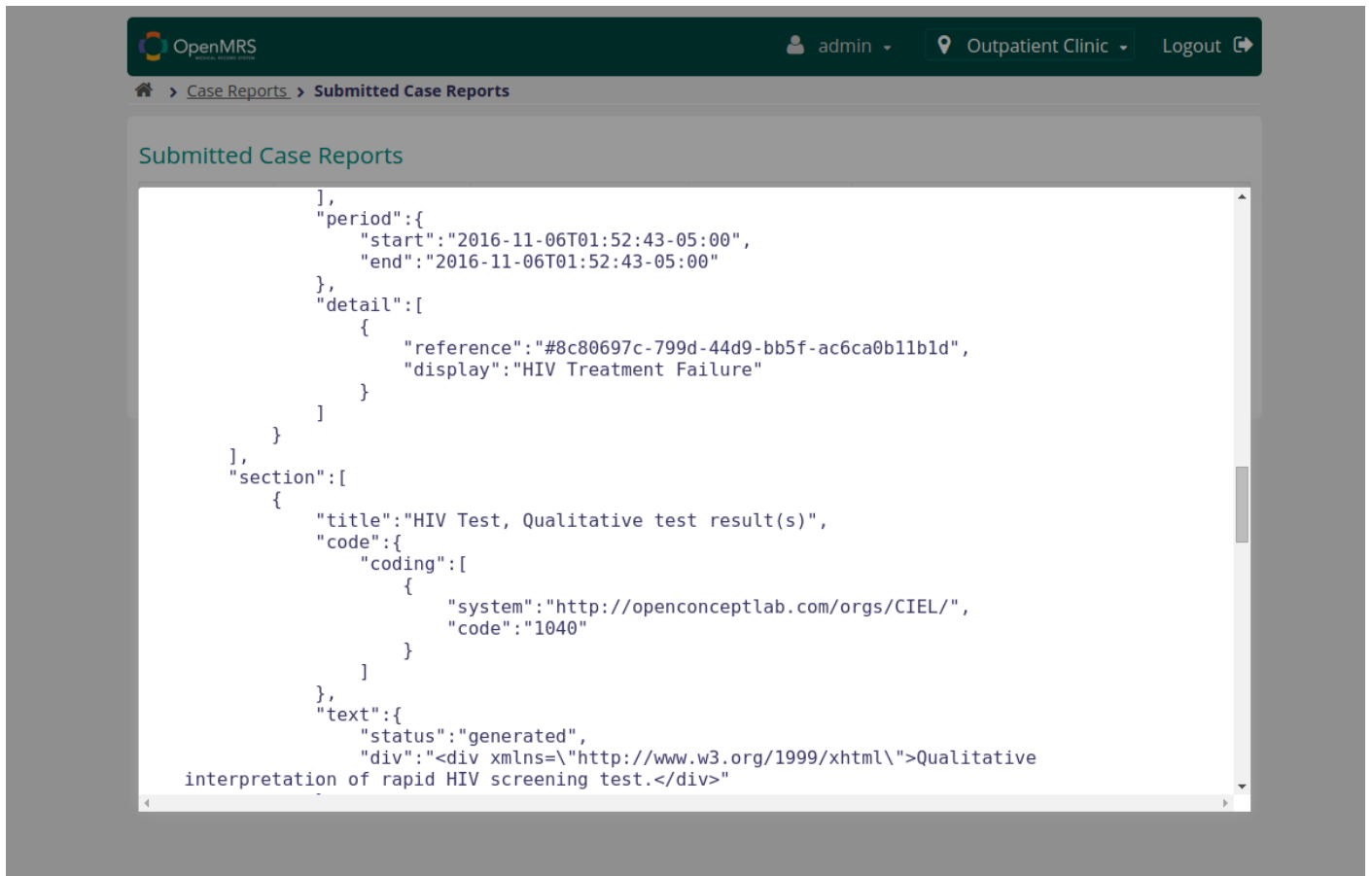
OpenMRS
You have gone full screen. [Exit full screen \(F11\)](#)
Outpatient Clinic
Logout

[Home](#) > [Case Reports](#) > [Submitted Case Reports](#)

### Submitted Case Reports

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	HIV Treatment Stopped
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	New HIV Disease

## Case report as FHIR document



The screenshot displays the OpenMRS web interface. At the top, the header includes the OpenMRS logo, the user 'admin', the location 'Outpatient Clinic', and a 'Logout' button. Below the header, the breadcrumb navigation shows 'Case Reports' > 'Submitted Case Reports'. The main content area is titled 'Submitted Case Reports' and contains a text box with the following FHIR JSON document:

```
    ],
    "period":{
      "start":"2016-11-06T01:52:43-05:00",
      "end":"2016-11-06T01:52:43-05:00"
    },
    "detail":[
      {
        "reference":"#8c80697c-799d-44d9-bb5f-ac6ca0b11b1d",
        "display":"HIV Treatment Failure"
      }
    ]
  }
},
"section":[
  {
    "title":"HIV Test, Qualitative test result(s)",
    "code":{
      "coding":[
        {
          "system":"http://openconceptlab.com/orgs/CIEL/",
          "code":"1040"
        }
      ]
    },
    "text":{
      "status":"generated",
      "div":"<div xmlns=\\"http://www.w3.org/1999/xhtml\\">Qualitative
interpretation of rapid HIV screening test.</div>"
    }
  }
]
```

## 9. Patient died


OpenMRS Currently logged in as Super User | [Log out](#) | [My Profile](#) | [Help](#)

[Home](#) | [Find/Create Patient](#) | [Dictionary](#) | [Reporting](#) | [Appointments](#) | [Administration](#)

**Patient saved**

**This patient is deceased** | Death Date: 11/06/2016 | Cause of Death: None

**John M Doe** OpenMRS ID: 10000X

 25 yrs ( Feb 23, 1991)

BMI: ? ( Weight, Height ) | CD4: | Regimen:

Active Visit: [Facility Visit at Amani Hospital](#) from Yesterday 5:35 PM | [Edit Visit](#) | [End Visit](#)

[Visit Note](#)

[Overview](#) | [Visits](#) | [Demographics](#) | [Graphs](#) | [Form Entry](#) | [Appointments](#) | [Chart Search](#)

Patient

**Names**

- \* John M Doe

Addresses

Address	Address 2	City/Village	State/Province	Country	Postal Code
* 1234 Moringa Drive					

[Edit this Patient](#) | [Edit this Patient \(Short Form\)](#)

## case report queue

OpenMRS admin | Outpatient Clinic | Logout

Home > Case Reports > Case Report Queue

### Case Report Queue

Search by patient  Filter by triggers

Date Added	Identifier	Name	Gender	Age	Trigger(s)	Actions
06-Nov-2016 1:40	10000X	John M Doe	M	25	HIV Patient Died 06-Nov-2016 1:40	<a href="#">Refresh</a> <a href="#">Close</a>

# Review and submit case report

OpenMRS admin Outpatient Clinic Logout

[Home](#) > [Case Reports](#) > **Case Report Queue**

### Case Report For John M Doe

[Hide Previous Case Reports](#)

06-Nov-2016 1:55 - HIV Treatment Failure
06-Nov-2016 1:40 - HIV Treatment Stopped
06-Nov-2016 1:23 - New HIV Treatment
06-Nov-2016 1:19 - HIV Switched To Second Line
06-Nov-2016 1:03 - HIV Treatment Failure
06-Nov-2016 1:02 - New HIV Disease

**Name** John M Doe  
**Identifier** 10000X  
**Gender** M  
**Date of Birth** 23-Feb-1991  
**Deceased** Yes  
**Date of Death** 06-Nov-2016  
**Cause of death** None  
**Trigger(s)** HIV Patient Died

**Data**

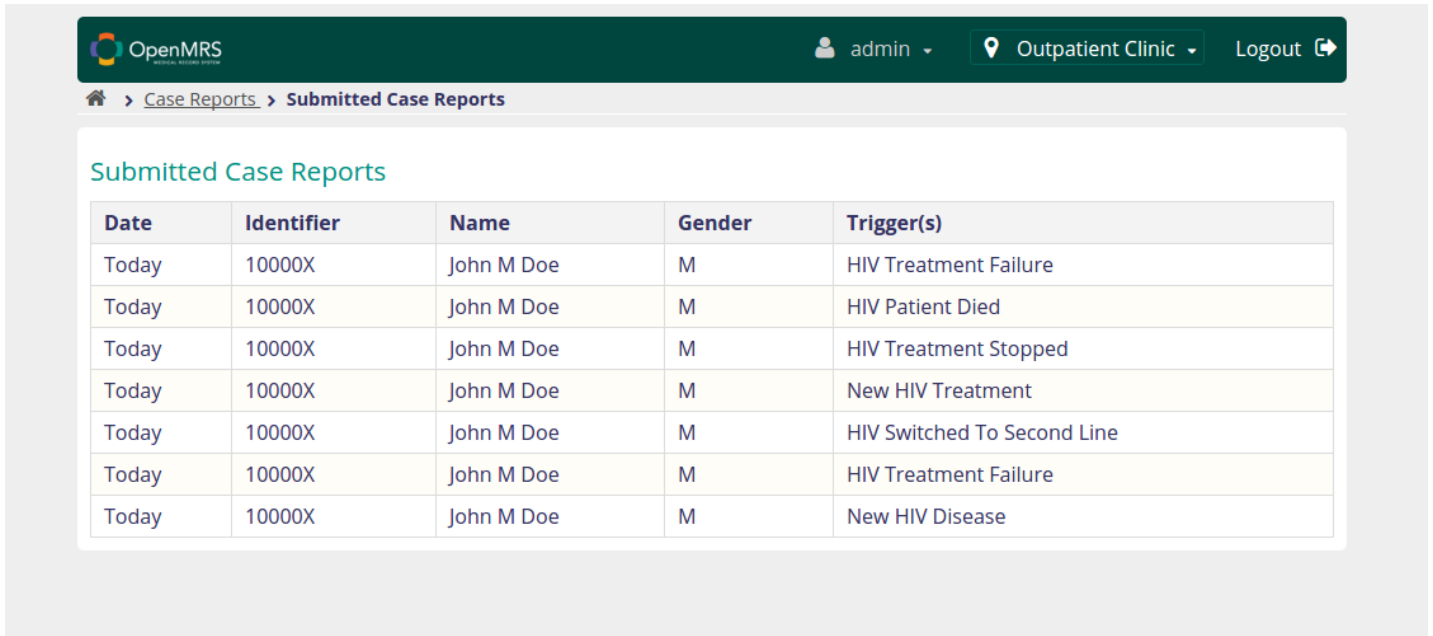
<b>Viral Load</b>	7000 (05-Nov-2016 0:00)		
<b>CD4 Count</b>	None Found		
<b>HIV Test</b>	POSITIVE (05-Nov-2016 17:36)		

**Current WHO Classification** WHO STAGE 3 ADULT  
**Reason ARVs stopped** Toxicity, drug  
**Last visit** 05-Nov-2016 17:35

**Signature** Super User (admin)

Cancel Submit

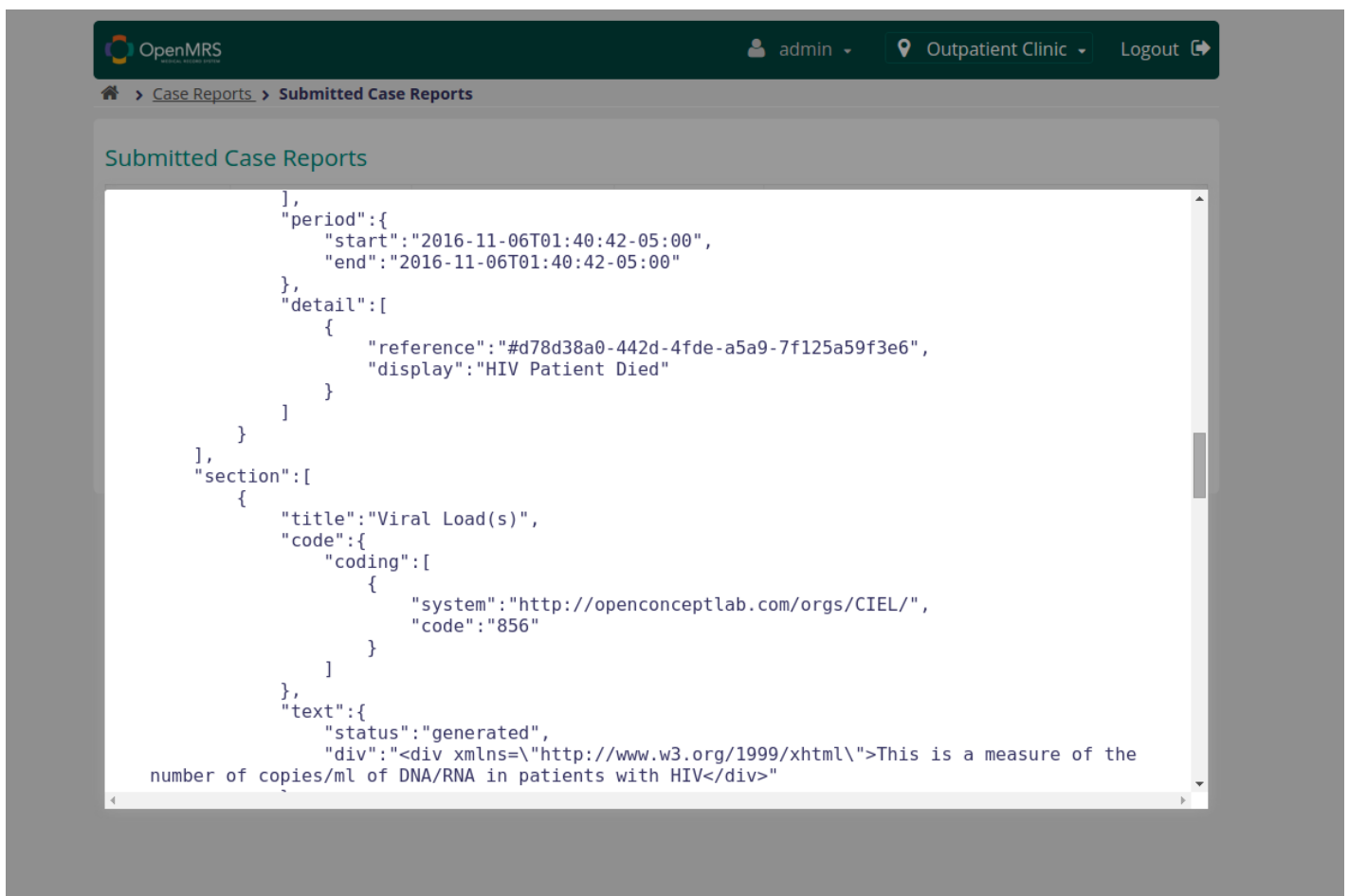
## Submitted case reports



The screenshot shows the OpenMRS interface with the 'Submitted Case Reports' page. The header includes the OpenMRS logo, user 'admin', location 'Outpatient Clinic', and a 'Logout' button. The breadcrumb trail is 'Home > Case Reports > Submitted Case Reports'. The main content is a table with the following data:

Date	Identifier	Name	Gender	Trigger(s)
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	HIV Patient Died
Today	10000X	John M Doe	M	HIV Treatment Stopped
Today	10000X	John M Doe	M	New HIV Treatment
Today	10000X	John M Doe	M	HIV Switched To Second Line
Today	10000X	John M Doe	M	HIV Treatment Failure
Today	10000X	John M Doe	M	New HIV Disease

## case report as FHIR Document



The screenshot shows the OpenMRS interface with the 'Submitted Case Reports' page. The header is identical to the previous screenshot. The main content area displays a JSON document representing a case report. The JSON structure is as follows:

```
{
  "period": {
    "start": "2016-11-06T01:40:42-05:00",
    "end": "2016-11-06T01:40:42-05:00"
  },
  "detail": [
    {
      "reference": "#d78d38a0-442d-4fde-a5a9-7f125a59f3e6",
      "display": "HIV Patient Died"
    }
  ]
},
"section": [
  {
    "title": "Viral Load(s)",
    "code": {
      "coding": [
        {
          "system": "http://openconceptlab.com/orgs/CIEL/",
          "code": "856"
        }
      ]
    }
  }
],
"text": {
  "status": "generated",
  "div": "<div xmlns=\\"http://www.w3.org/1999/xhtml\\">This is a measure of the number of copies/ml of DNA/RNA in patients with HIV</div>"
}
```