



Transition of Care Viewer User Guide

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Transition of Care Viewer

The Transition of Care (TOC) Viewer allows the view of various electronic messages that are sent through Michigan Health Information Network Shared Service (MiHIN) regarding patients. Message types currently supported by the TOC Viewer include:

- Admission, Discharge, Transfer Notifications.
- Discharge Medication Reconciliation.
- Social Determinants of Health

Admission, Discharge, Transfer Notifications



Admission, Discharge, Transfer (ADT) Notifications are created when a patient is admitted to a care facility (e.g., hospital), transferred to another facility, or discharged. The notifications are sent to a patient's care team to provide an update on the patient's status, thus improving post-discharge transitions, prompting follow-up, improving communication among providers, and supporting patients with multiple or chronic conditions.

ADT notifications also support the identification of patients who are frequent or high utilizers of the healthcare system. This allows providers to steer their patients toward clinical and non-clinical interventions, reducing unnecessary emergency department overutilization and hospital readmissions.

Discharge Medication Reconciliation

When a patient's medications change it is critically important to check the patient's medication list to be sure there are no problems with new, different or missing medicines. "Medication reconciliation" is the detailed process of checking the accuracy of a patient's medications, particularly when those medications have changed.

Because patients very often receive new medications when discharged from care facilities, it is particularly important to ensure care team members are aware of any changes to medication during these transitions of care. Coordinating and sharing a patient's medication information in real-time has many benefits, for both the patient and the healthcare provider. Better, faster coordination can minimize the possibility of adverse drug events for patients and maximize cost benefits for providers.

Social Determinants of Health

Social determinants of health (SDOH) are the conditions in which people are born, grow, work, live, and age that shape the conditions of daily life and drive 80 percent of health outcomes. An integral part of health care delivery involves understanding and integrating these social and environmental conditions with traditional health care information. Due to the lack of standards or scalable methods to connect at-risk populations with available social service resources in communities, MiHIN has created a network to connect clinical health and social health in order to improve health outcomes by addressing a more holistic and person-centered approach to care coordination.

To better understand the link between social needs and individual health and well-being, more data is needed across and within the organizations caring for people in the community. The SDOH data now available is the first step in building a knowledge infrastructure that streamlines the process of sharing information throughout the State of Michigan and will help care team members and participating organization support care coordination and population health.

Using the Transition of Care Viewer

Note: Internet Explorer browser is no longer supported for MiGateway. *See Appendix E for more information, including recommended browsers.*



The features included with the TOC Viewer allows:

- See human-readable versions of ADT Notifications that are sent for patients;
- Filter received ADT notifications for a given message type, patient, organization, etc.;
- View medication reconciliation messages that are associated with specific ADT notifications (A03 event types), and
- Work through notification queue and take actions on messages.

ADT Filter

There are several ADT filters available within TOC Viewer.

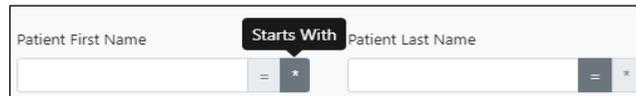
In Figure 1, Christy Munson is a patient at Affiliated Health Providers. She recently had a treatment at a facility connected to MiHIN.

The screenshot displays the 'ADT Filter' interface. At the top, there are several search criteria fields: Patient First Name (1), Patient Last Name (2), Patient Birth Date (3) with a MM/DD/YYYY format, and Sending Facility Health System (4). Below these are From Date (5) and To Date (6) with a date range of 08/20/2018 to 08/20/2019 and options for 30, 60, or 90 days. Other filters include Patient Class (7) set to 'None selected', ADT Type (8), ACRS File (9) set to 'PROVIDERS', and checkboxes for 'Hide Reviewed ADTs' (10) and 'Has Care Summary'. At the bottom of the filter section are 'Filter' (11) and 'Reset' buttons, 'Sort Order' (12) set to 'Message Date', and 'Page Length' (13) set to '50 results per page'. Below the filter section, it shows 'Showing 1 to 15 of 15 entries' and navigation buttons for 'Previous', '1', and 'Next'. The main content area is a table with columns for 'ADT', 'Patient Information', and 'Actions'. The first entry is for ADT A03, patient Christy Munson, born 08/27/1979, discharged from Wood Hollow Health Center on 02/07/2019. The patient information includes diagnosis type (W), coding method (I9), code identifier (304.00), description (Opioid dependence, uncomplicated), insurance company name, patient class (Emergency), discharge disposition (Discharged to home or self care), and discharge location (HOME). The actions column contains buttons for 'View', 'XML', 'PDF', 'Care Summary', and a secondary row with 'View', 'HL7', 'PDF', and 'ADT'.

Figure 1. TOC Viewer Module



1 Patient First/Last Name: Filter by patient first/last name with optional wildcard search function



Helpful hints

Wildcard Search Rules:

- **Only searching First Name:** Wildcard search must contain three (3) or more characters. E.g., 'car%'.
- **Only Searching Last Name:** Wildcard search must contain four (4) or more characters. E.g., 'Fran%'.
- **Searching BOTH First and Last Name:** Wildcard search will work if at least first name field has three (3) or more characters OR last name field has four(4) or more characters. E.g., First Name: 'c%' Last Name: 'Fran%' E.g., First Name: 'car%' Last Name: 'F%'.
- Wildcard search will not work if one (1) or two (2) characters are specified for each field E.g., First Name: 'c%' Last Name: 'F%' First Name: 'ca%' Last Name: 'Fr%'

- 2**
- Type first 3 letters of sending facility health system for drop down suggestions to appear
 - Filter can be used with **Sending Facility Type** field to view drop down list of all health systems

Helpful hints

3

From/To Date: Filter by specific date within 90 days or 30, 60, 90-day date range

Sending Facility Type: Filter by facility type (hospital, skilled nursing facility or home health)

4

Sending Facility Name: Filter for ADTs within a health system

- 5**
- Type first three (3) letters of sending facility name for drop down suggestions to appear
 - Filter can be used with Sending Facility Drop down list of all health systems available

Helpful hints

6

Patient Class: Filter by patient class (Inpatient, Outpatient, Emergency or Observation)

7

ADT Type: Filter by ADT event type (Admission A01, Discharge A03 or Register A04)

8

ACRS File: Filter to view multiple Active Care Relationship Service® (ACRS®) patient populations (if applicable)

9

Hide Reviewed ADTs/Has Care Summary: "Hide Reviewed ADTs" checkbox will hide ADTs marked as reviewed from results page

- ADTs can be marked as reviewed by using the checkbox on the left side of the ADT message
- Hit "Filter" once ADT has been marked as reviewed to hide from results page
- If unchecked "Hide Reviewed ADTs" checkbox and hit "Filter", see ADTs that have been marked as reviewed within the results page

10

Helpful hints

The screenshot shows two identical patient record entries for Christy Munson, born 08/27/1979, discharged from Wood Hollow Health Center on 02/07/2019. Each entry includes a 'Has Care Summary' checkbox, a 'View' button, and buttons for 'XML', 'PDF', and 'ADT'. The top entry's checkbox is unchecked, while the bottom entry's checkbox is checked. Red arrows point to these checkboxes.

“Has Care Summary” checkbox will filter to show ADT (A03) results with care summary available

Filter/Reset: “Filter” button will refresh page results with applied filter(s)

“Reset” button will refresh page results with default TOC Viewer settings (last 3-day date range, “Hide Reviewed ADTs” checkbox checked)

11

Sort Order: Sort results based on data elements (Message Date, Patient Name or ADT Type)

12

Page Length: Adjust results shown per page (25, 50, 100 or 200 results)



ADT and Care Summary Overview

Christy Munson's ADT encounter within the TOC Viewer Results Page is shown below in Figure 2.

The Diagnosis, Insurance Company Name, Patient Class, Discharge Disposition and Discharge Location field values will be displayed if provided by the sending facility.

Note: Discharge Disposition and Discharge Location fields will only be displayed on A03 ADT event types.

ADT Patient Information **Actions**

A03 [Christy Munson born 08/27/1979 was discharged from Wood Hollow Health Center on 02/07/2019](#) View XML PDF Care Summary

Diagnosis Details (highlighted):
Diagnosis Type: W
Diagnosis Coding Method: I9
Diagnosis Code Identifier: 304.00
Diagnosis Description: Opioid dependence, uncomplicated
Insurance Company Name:
Patient Class: Emergency
Discharge Disposition: Discharged to home or self care
Discharge Location: HOME

View HL7 PDF ADT

Figure 2. ADT Message Overview Example

To view additional segments within the ADT message, hover over the patient name (or click the **“View”** button next to ADT).

The additional segments within the message is shown in Figure 3.

Transition of Care Viewer - Affiliated Health Providers **Actions**

ADT A03 Back to Home HL7 PDF

Summary Patient Identification Patient Visit Information Patient Visit Patient Additional Information Message Header

Diagnosis Event Type

Segment Summary	Value
Given Name	Christy
Family Name	Munson
Date/Time of Birth	19790827
Administrative Sex	Female
Attending Doctor Given Name	CHRISTINE

Figure 3. ADT Message Example



To see Christy Munson’s detailed discharge care summary Continuity of Care Document (CCD), click the “**View**” button next to Care Summary as shown in Figure 4.

Transition of Care Viewer - Affiliated Health Providers

Care Summary **Actions**
[XML](#) [PDF](#)

[Back to Home](#)

CCD document using C-CDA

Patient	Christy Munson
Date of birth	August 27, 1979
Sex	Female
Race	White
Ethnicity	Not Hispanic or Latino
Contact info	Primary Home: 2021 Plain Oak Lane Dearborn, MI 48120, US Tel: +1(313)555-7701
Patient IDs	4 2.16.840.1.113883.3.638.13045
Document Id	PRM CDA 64e06dab-2ab9-411a-9e3f-f9776d168b21
Document Created:	February 7, 2019, 10:03:12, EST
Performer (primary care provider)	Dr. Kay Byrd of Oakview Hills Pain Management Clinic
Author	Kay Byrd, Oakview Hills Pain Management Clinic
Contact info	Primary Home: 757 N Ocean Drive Royal Oak, MI 48068 Tel: +1(240)555-0107
Legal authenticator	of Oakview Hills Pain Management Clinic signed at March 30, 2017, 14:40:34
Contact info	

Figure 4. Discharge Care Summary Example



ADT and Care Summary Export Function

Export options are available within TOC Viewer for both ADT and care summary messages as shown below in Figure 5.

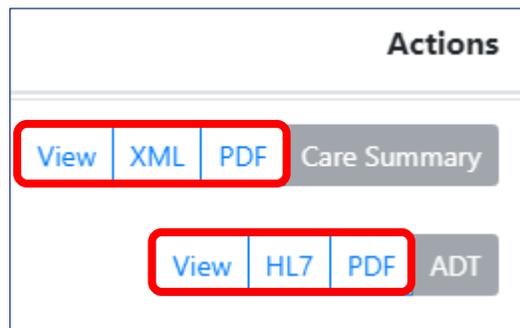


Figure 5. ADT and Care Summary Export Options

The options on the right-hand side of the results overview will include “View”, “XML” and “PDF” options for Care Summary and “View”, “HL7” and “PDF” options for ADT.

- **View:** Open the human readable ADT or care summary.
- **XML:** Download the raw care summary XML file.
- **HL7:** Download the raw HL7 ADT file.
- **PDF:** Download the human readable ADT or care summary in PDF format.

Note: Only discharge ADTs (A03) will have an associated Care Summary attached to the ADT Notification.

Export options are also available on the right-hand side within the ADT and care summary message view as shown below in Figure 6 and 7.

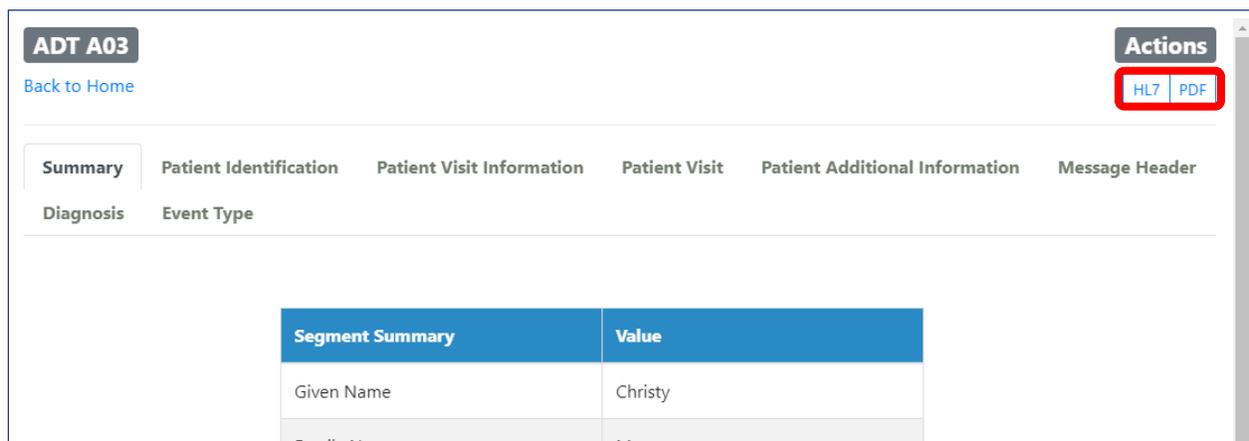


Figure 6. ADT Message Export Options



Transition of Care Viewer - Affiliated Health Providers

Care Summary **Actions**
XML PDF

[Back to Home](#)

CCD document using C-CDA

Patient	Christy Munson
Date of birth	August 27, 1979
Sex	Female
Race	White
Ethnicity	Not Hispanic or Latino
Contact info	Primary Home: 2021 Plain Oak Lane Dearborn, MI 48120, US Tel: +1(313)555-7701

Figure 7. Care Summary Message Export Options

ADT Patient Death Indicator

If Christy Munson has been marked as deceased by the sending facility, a red symbol within the ADT overview will be displayed, as shown below in Figure 8.

Hover over the red symbol to make the “Patient is marked as deceased” appear.

Insurance Company Name:
Patient Class: Outpatient

Patient is marked as deceased.

A01	<p>DIANE SMITH born 06/11/1990 was admitted to Sunnyside Physicians on 01/01/2019 ⚠</p> <p>Diagnosis Type: W Diagnosis Coding Method: I9 Diagnosis Code Identifier: 304.00 Diagnosis Description: Opioid dependence, uncomplicated Insurance Company Name: MEDICAID Patient Class: Inpatient</p>	<p>Not Available Care Summary</p> <p>View HL7 PDF ADT</p>
-----	---	---

Figure 8. Patient Death Indicator Example

Helpful hints

If discharge care summary is unavailable for a patient, see “Not Available” in red text as shown above in **Figure 8**.



VIPR Link

If a user has VIPR permissions set on their profile, a link to view VIPR information will appear under the ADT button on the actions column as seen in Figure 9. To access the patient record, click on the VIPR button.

A screenshot of a patient record interface. The patient is identified as Christy Munson, born 08/27/1979, discharged to Von Voigtlander Women's Hospital - Michigan Medicine on 06/15/2020. The interface includes a list of actions: View, XML, PDF, Care Summary, View, HL7, PDF, ADT, and a highlighted View VIPR button. The patient's diagnosis is T40.2X1A (Prediabetes).

View	XML	PDF	Care Summary
View	HL7	PDF	ADT
View	VIPR		

Figure 9. VIPR Button TOC Viewer Actions column

If a patient is found in VIPR, the patient record opens on the current screens as seen in Figure 10.

A screenshot of a patient record interface for VARGAS, ALICE K., F, 05/10/1990, 30 Yrs. The interface includes a navigation bar with MIDIGATE, Home, Care Coordination, Diretto Inbox, Administrative, and Erin. The patient record is displayed with a left sidebar containing Summary, Allergies & Alerts, Encounters, Lab Results, Radiology & Other Results, Documents, Discharge Summaries, Advance Care Documents, CCD, Diagnoses, Procedures, Programs, and Imaging. The main content area shows Allergies, Diagnoses, Laboratory Results, and Radiology & Other Results.

Summary	Allergies	Diagnoses
Allergies & Alerts		
Encounters		
Lab Results		
Radiology & Other Results		
Documents		
Discharge Summaries		
Advance Care Documents		
CCD		
Diagnoses		
Procedures		
Programs		
Imaging		

Figure 10. VIPR Patient Record

If multiple patients are found having the same last name, first name, gender, and date of birth, VIPR displays a list of the found patient (Figure 11). In the event that multiple patients are returned, VIPR allows temporarily consolidating the records into one view. This feature does not permanently merge or combine the records. The consolidated view will be removed when a user begins a new patient search or logs out.



Select one or more matching patients. Only select more than one matching patient if you are certain they are the same person.

View Selected Patient Records

Identifiers	Name	Gender/DOB	Address	Info Types
<input type="checkbox"/> 100000003 ...0911	Test3, GLHC	M 01/01/1902	123 Diagnol Rd, CrissCross MI 44411	
<input type="checkbox"/> 100000004 ...5151	Test3, GLHC	M 01/01/1902	123 EastWest Rd, Sidetoside MI 44411	

Figure 11. VIPR Multiple Patient Records found

If no patients are found, an indicator is shown that an associated VIPR record for the selected patient cannot be found (Figure 12).

MIDIGATE Home Care Coordination Directo Administrative
Inbox

GLHC
GREAT LAKES HEALTH CONNECT

Select one or more matching patients. Only select more than one matching patient if you are certain they are the same person.

View Selected Patient Records

No matches found!

Figure 12. VIPR No Matching Patient Records Found

For more information on how to view patient data in VIPR, see the VIPR User Guide.

Note: if there are issues loading the Select Patient screen seen in the above figures, reference Appendix B on how to allow Third-Party Cookies.



Using Patient Viewer

TOC Viewer also connects to Patient Viewer which displays additional information about a patient, including their full care team and longitudinal medical record. Social Determinants of Health questionnaire results may be viewable and are dependent on user permissions.

To access Patient Viewer, click on a patient's name on an encounter and then select the desired tab as shown in Figure 13.

The screenshot shows a patient record for ALICE VARGAS, born 05/10/1990. The patient was admitted to Von Voigtlander Women's Hospital - Michigan Medicine on 11/21/2020. The interface includes a 'Patient Information' tab (highlighted with a blue arrow) and an 'Actions' section with buttons for 'View', 'HL7', 'PDF', 'ADT', 'View', and 'VIPR'. A 'Not Available' button is also present.

Figure 13. Patient Viewer

Patient Viewer – Care Team

The Care Team tab displays the patient's care team information such as Provider, Practice, Managing Organization, Patient Address and Status for active care relationships declared outside of the organization's ACRS file as displayed in Figure 14.

The screenshot shows the 'Care Team' tab for ALICE VARGAS. The patient's personal information is displayed at the top, including birth date (05/10/1990), gender (F), and address (4520 LINCOLN DRIVE, BRIGHTON, MI 48114). Below this is a table of care team members.

Care Team Member	Practice	Managing Organization	Patient Address	Status
<p>Canelle, Dana NPI: 9999992257 Type: Care Coordinator Specialties: Not Available Direct Address: dana.s.canelle@direct.test.com Phone: Not Available</p>	<p>Department of Veterans Affairs (VA) Pharmacy OID: 1.2.3.4.5.9.99.999.1386 Type: Clinic Phone: 734-555-7101 Address: 8450 Historic Drive Ann Arbor, MI 48105</p>	<p>Fake Persona 3 OID: 1.2.3.4.5.9.99.999.1114 Type: ACO Phone: 123-456-7890 Address: 123 VERY Easy Street Easy, MI</p>	<p>4520 LINCOLN DRIVE BRIGHTON, MI 48114</p>	<p>Provider Status Declared Consumer Status Unconfirmed</p>

Figure 14. Care Team

Patient Viewer – Patient Summarization

The Patient Summarization tab displays the longitudinal record summary of all CCDs received by MiHIN as displayed in Figure 15.



VARGAS, ALICE

Birth	Address Line 1	Address Line 2	Primary Phone
05/10/1990	4520 LINCOLN DRIVE		810-555-5699
Gender	City	State	Zip
F	BRIGHTON	MI	48114
			Secondary Phone
			810-555-6247

Care Team Patient Summarization

XML PDF Actions

Patient Summarization (C-CDA 2.1 CCD)

Patient	Elise Paulson
Date of birth	January 4, 2009
Sex	Female
Race	White
Ethnicity	Not Hispanic or Latino
Contact info	640 E Hudson Circle St. Clair Shores, MI 48082, US Tel: (586)555-8579
Patient IDs	AH7XJKYQFL4BDZJNUNUPOKDYN672T5JREX4DRWIP MIHINCK5 1127.2.16.840.1.113883.4.572 548B2bb5B7842464a3735d6.2.16.840.1.113883.3.7723.21

Figure 15. Patient Summarization

Patient Viewer – Social Determinants of Health

If a user has SDOH permissions set on their profile, additional SDOH data may be available for viewing. The user can quickly identify available SDOH screening data by selecting the *Has SDOH Screening Data* box and/or by locating a Y for the category of Social Determinants of Health. Clicking on the patient’s name will take the user to the Patient Viewer page where the SDOH tab can be selected as seen in Figure 16.

ADT Filter Hide

Patient First Name	Patient Last Name	Patient Birth Date	Sending Facility Health System
<input type="text"/>	<input type="text"/>	MM/DD/YYYY	<input type="text"/>
From Date	To Date	Sending Facility Type	Sending Facility Name
09/19/2020	12/17/2020	<input type="text"/>	<input type="text"/>
Patient Class	ADT Type	ACRS File	
None selected		NHS	
Patient Chronic Conditions	Sort Order	Page Length	<input checked="" type="checkbox"/> Hide Reviewed ADTs
None selected	Message Date	25 results per page	<input type="checkbox"/> Has Care Summary
			<input checked="" type="checkbox"/> Has SDOH Screening Data

Showing 1 to 2 of 2 entries Previous 1 Next

ADT	Patient Information	Actions
A01	<p>Brad Fernandez born 07/19/1954 was Admitted to OAKLAND COMMUNITY HEALTH NETWORK on 11/16/2020</p> <p>Diagnosis Type: F</p> <p>Diagnosis Coding Method: C61</p> <p>Diagnosis Code Identifier: C61</p> <p>Diagnosis Description:</p> <p>Chronic Conditions:</p> <p>Insurance Company Name: MEDICAID</p> <p>Patient Class: I</p> <p>Social Determinants of Health: Y</p>	<p><input type="button" value="Not Available"/> <input type="button" value="Care Summary"/></p> <p><input type="button" value="View"/> <input type="button" value="HL7"/> <input type="button" value="PDF"/> <input type="button" value="ADT"/></p> <p><input type="button" value="View"/> <input type="button" value="VIPR"/></p>

Figure 16. SDOH identifier and filter



To view SDOH screening information, select the Social Determinants of Health tab as seen in Figure 17.

Patient Viewer - Mid-Michigan Health Viewer

Fernandez, Brad

Birth: 07/19/1954 Address Line 1: Address Line 2: Primary Phone: Secondary Phone:

Gender: M City: State: Zip: Secondary Phone:

[Care Team](#) [Patient Summarization](#) **[Social Determinants of Health](#)**

Sending Organization	Assistance Requested	Urgent	Assistance Needed	No Assistance Needed	Declined To Answer	Missing/Unable To Code	Not Sent
MSU PEDIATRIC PRIMARY CARE CLINIC Date Sent: 12/02/2020	No	No		Poor Health Healthcare Food Employment Housing Utilities Family Care Education Transportation			

Figure 17. SDOH Screening Data



Reporting with TOC Viewer

Meaningful Use (Promoting Interoperability) Patient Search Measurement Report

TOC Viewer reporting functionality can generate a report to show how many patients the user searched for during a given 90-day period. This report can count towards the Meaningful Use Stage 3 attestations.

The features within TOC Viewer reporting functionality allow for a user to:

- Filter based on a specified period to see the number of patients searched in TOC Viewer when the patients first name, last name and date of birth are entered.
 - Also includes the number of patients found, and number of patients found with a CCD.
- Download a PDF version of the report to support Meaningful Use Stage 3 attestations.

To navigate to the TOC Viewer Reporting page, click on the **“Reporting”** link as shown in Figure 18. Once there, enter a 90-day range using the **“From Date”** and **“To Date”** fields. By default, the page has the **“To Date”** field set to the current date, and the **“From Date”** is set to 90 days from the current date (Figure 19).

The **“To Date”** field can be populated with any date before or equal to the current date. Any changes made to a field will cause the other field to change 90 days in comparison the date being changed. Note: the **“From Date”** can be any date 90 days or earlier from the current date but cannot not be within 90 days of the current date.

Users also have the ability to set a date range more than 90 days by clicking the **“Customize Date Range”** checkbox next to the **“To Date”** field. However, a date range less than 90 days cannot be set.

The screenshot shows the MIDIGATE web application interface. At the top, there is a navigation bar with links for Home, Care Coordination, Diretto Inbox, Administrative, and Support. The user's name, John, is displayed in the top right corner. Below the navigation bar, the page title is "Transition of Care Viewer - All". On the right side of this bar, there are two tabs: "Viewer" and "Reporting", with "Reporting" highlighted in a red box. Below the navigation bar is the "ADT Filter" form. The form contains several input fields and dropdown menus: "Patient First Name", "Patient Last Name", "Patient Birth Date" (with a MM/DD/YYYY format), "Sending Facility Health System", "From Date" (set to 02/12/2019), "To Date" (set to 02/12/2020 with a 30, 60, 90 day range selector), "Patient Class" (set to "None selected"), "ADT Type", "Sending Facility Type", "Sending Facility Name", "ACRS File" (set to "PROVIDERS"), "Page Length" (set to "50 results per page"), "Sort Order" (set to "Message Date"), and two checkboxes: "Hide Reviewed ADTs" (checked) and "Has Care Summary" (unchecked). There are "Filter" and "Reset" buttons at the bottom left of the form. A "Hide" button is located at the top right of the form.

Figure 18. TOC Viewer - navigation to the Reporting tab

Meaningful Use Patient Search Measurement Report
 Select a 90 day reporting period and click "Filter" to review results.

From Date: 11/15/2019 To Date: 02/12/2020 90 Customize Date Range

[Filter](#)

Figure 19. TOC Viewer – Meaningful Use Patient Search Measurement Report

For a patient to be counted on the report, a patient’s first name, last name, and date of birth must have been searched during the time range set by the filter. If only first name and last name are provided while using TOC Viewer, and one or more patients are returned, they will not be counted in the report.

Once a date range has been set, clicking the “**Filter**” button will generate a report with two sections: a high-level overview of the results (Figure 20), and a table of patients the user has searched (Figure 21).

At the top of the results section, information is returned on the search criteria including the date the report was ran and the date range provided in the filter criteria. Below is the search results data:

- Total Patients Searched – number of patients searched for using first name, last name, and date of birth, during the search date range
- Total Patients Returned in Search
- Total Patients Returned in Search with CCD

Meaningful Use Patient Search Measurement Report
 Select a 90 day reporting period and click "Filter" to review results.

From Date: 11/16/2019 To Date: 02/13/2020 90 Customize Date Range

[Filter](#)

MU Measure Report for All
 Generated by: Jerry Treva (jtreva@mihin.org)

Date Report Ran:	02/13/2020
Date Range of Report:	11/16/2019 - 02/13/2020
Total Patients Searched:	15
Total Patients Returned in Search:	5
Total Patients Returned in Search with CCD:	2

[Download PDF](#)

Figure 20. Meaningful Use Patient Search Measurement Report Results



Search data that met the criteria will be displayed in a table within the user interface (Figure 21). Each row will show whether a patient was found at the time of last search date, and if the patients found have a related CCD.

For example, Joan Chen and Christy Munson were searched for during the date range and have a related CCD, while Diane Smith was searched for during the date range and was not found.

Showing 1 to 1 of 1 entries Previous **1** Next

Patient Name	Patient Found	Last Search Date
Chen, Joan 08/07/1987	Yes - w/CCD	12/06/2019
Chris, Munson 08/27/1979	No	12/05/2019
Munson, Christy 08/27/1979	Yes - w/CCD	12/05/2019
Munson, Chris 08/27/1979	Yes	12/05/2019
Smith, Diane 11/06/1990	No	12/05/2019

Figure 21. Meaningful Use Patient Search Measurement Report Patient Table

A copy of the report can be downloaded in PDF format by clicking the “**Download PDF**” button as shown in Figure 22. The PDF format of the report displays the same data in a similar fashion (Figure 23).

MU Measure Report for All
Generated by: Jerry Treva (jtreva@mihin.org)

Date Report Ran: 02/13/2020
Date Range of Report: 11/16/2019 - 02/13/2020

Total Patients Searched: 15
Total Patients Returned in Search: 5
Total Patients Returned in Search with CCD: 2

[Download PDF](#)

Figure 22. Download PDF of Meaningful Use Patient Search Measurement Report



Meaningful Use Report for Affiliated Health Providers

Generated by: Jerry Treva (jtreva@mihin.org)

Date Report Ran: 02/13/2020
Date Range of Report: 11/16/2019 - 02/13/2020

Total Patients Searched: 15
Total Patients Returned in Search: 5
Total Patients Returned in Search with CCD: 2

Patient Name	Patient Found	Last Search Date
Chen, Joan 08/07/1987	Yes - w/CCD	12/06/2019
Chris, Munson 08/27/1979	No	12/05/2019
Munson, Christy 08/27/1979	Yes - w/CCD	12/05/2019
Munsonman, Chris 08/27/1979	Yes	12/05/2019
Smith, Diane 11/06/1990	No	12/05/2019
Stork, John 01/01/1960	No	12/05/2019

Figure 23. PDF of the Meaningful Use Patient Search Measurement Report



Learn More

For immediate assistance please contact help@mihin.org.

More information on MIGateway can be found online at <https://mihin.org/>.



Appendix A – Definitions

Active Care Relationship Service® (ACRS®). Identifies healthcare providers and healthcare organizations who have declared a relationship with a patient, for the purpose of receiving electronic updates on that patient’s healthcare. Active Care Relationship Service promotes better-coordinated transitions of care by enabling physicians and care management teams to receive notifications when there are updates in a patient’s status.

Admission, Discharge, Transfer (ADT) Notifications. Health Level Seven® (HL7®) messages that are sent when a patient is admitted, transferred or discharged from a hospital or other care facility. These notifications can be used to improve the transition of care for a patient.

Affiliation. A relationship between a person and an organization or between two organizations, captured as relationships between person records and organization records in the Health Directory.

Direct Secure Message (DSM). A way to properly send messages containing protected health information (PHI) to ensure the security and safety of the content. A Health Insurance Portability and Accountability Act compliant way to send PHI.

Diretto. Michigan Health Information Network Shared Services (MiHIN) Health Information Service Provider that allows MiHIN to provide a Direct Secure Messaging service as a safe and accurate way to communicate and share healthcare information inexpensively.

Health Directory. The shared service established by Michigan Health Information Network Shared Services that contains contact and relational/affiliation information on healthcare professionals, facilities/hospitals, and other healthcare organizations as a resource for authorized users to obtain contact information. This information includes electronic addresses, end points, and electronic service information to facilitate the secure exchange of health information.

Health Information Service Provider (HISP). An organization that meets the standard of managing direct secure messaging. Health Information Service Providers ensure the security of health-related content being sent and received by the users of Direct Secure Message accounts.

Medication Reconciliation. Medication reconciliation is the process of creating the most accurate list possible of all medications a patient is taking (including drug name, dosage, frequency, and route) so the list can be checked quickly and efficiently (such as during admission, discharge or transfer of a patient), with the goal of providing correct medications that do not interact poorly with each other to the patient.



MIGateway. Medical Information Gateway. A collection of services provided by Michigan Health Information Network Shared Services to allow healthcare professionals to access, view and use health information for their patients.

National Provider Identifier (NPI). A unique 10-digit identification number issued to healthcare providers by the Centers for Medicare and Medicaid Services (CMS).

Promoting Interoperability. Using certified electronic health record technology to improve quality, safety and efficiency of healthcare, and to reduce health disparities.

Protected Health Information (PHI). Any information involving health status or patient identification information, such as date of birth, address, and or social security information. This can be written, by hand or electronically, or verbally spoken. Any information a person would not know without their affiliation to their medically related career.

Social Determinants of Health (SDOH). Are the conditions in which people are born, grow, work, live, and age that shape the conditions of daily life and drive 80 percent of health outcomes.

Transitions of Care. The movement of a patient from one setting of care (e.g., hospital, ambulatory primary care practice, ambulatory specialty care practice, long-term care, rehabilitation facility) to another, which can include transfers within a healthcare organization.



Appendix B – Allowing Third Party Cookies

The MIGateway applications, including TOC Viewer, require third party application cookies to be allowed since the applications are embedded inside of Amazon Web Services. Browser's including Google Chrome and Mozilla Firefox have this allowed by default. Microsoft Edge may require third party cookies to be allowed manually.

In most browsers, this setting can be found by going into Browser Settings, then Security and Privacy, and Allow Third Party Cookies.

In Microsoft Edge, if “do not allow third party cookies” is selected and the setting is grayed out (disabled) use the following steps to allow the cookies.

1. With an administrator account, click on the Windows search icon and type “gpedit”. Open the “Edit Group Policy” application.
2. Navigate to the Microsoft Edge Cookie settings through the following path: Computer Configuration > Administrative Templates > Windows Components > Microsoft Edge > Configure Cookies.
3. In the configure cookies window, select the “enable” radio button, and make sure “Allow all cookies” is selected from the configure cookies drop down.
4. Click apply and OK. Close Edit Group Policy.
5. This setting may need to be updated through the system using group policy. Open Command Prompt application.
6. In Command Prompt, type “gpupdate /force”. Once this has completed successfully, close Command Prompt.
7. Reopen Microsoft Edge and the MIGateway applications should load correctly.



Appendix C –

MIGateway Applications with Cut Off Drop Down View

Occurs when using Google Chrome (Version 68+) on Windows Edge, MIGateway application is open on an external monitor, and the display scaling setting of the computer's monitors are different values (ex. 100% & 120%).

There is an open bug with Google Chrome browser regarding drop downs being cut off when display scaling sizes are different and the application loaded is in an Iframe (all MIGateway applications are loaded in Iframes).

- <https://bugs.chromium.org/p/chromium/issues/detail?id=877625>

Steps to Troubleshoot:

Set the Scale and Layout setting to the same value for all displays.

1. Open display settings by right clicking on the desktop and clicking display settings.
2. All displays will appear numbered. For each display, do the following:
 - a. Under Scale and Layout, set the drop down to the same value. (ex. 100%)
3. Refresh the MIGateway web page and the drop downs should not be cut off.



Appendix D – Service Communication

- **MIGateway Service Downtime:** Michigan Health Information Network Shared Services (MiHIN) will provide communication to MIGateway users regarding service downtime.
 - An email notification will be sent to users for any downtime during normal business hours (8 AM-5 PM Eastern Standard Time).
 - A follow up email will be sent once MIGateway services are available.

- **MIGateway Production Deployment:** Email notification will be sent to MIGateway users for all scheduled production deployments prior to MiHIN maintenance window.
 - MiHIN reserves the period from Thursday 5:30 PM to 10:30 PM Eastern Standard Time to perform system maintenance.
 - The email will include the list of feature enhancement updates and the scheduled deployment date.



Appendix E - Moving Away from Support of Internet Explorer

As of October 2019, Internet Explorer (IE) will no longer be a supported browser for MIGateway. With the introduction of Microsoft Edge, and the availability of more modern browsers, (Mozilla Firefox, Google Chrome, etc.) more and more organizations are moving away from continuing to support IE integration with their applications.

MIGateway will continue to support current and future versions of [Mozilla Firefox](#), [Google Chrome](#), [Microsoft Edge](#), and [Apple Safari](#).

For questions or concerns, please submit a help desk ticket to help@mihin.org.

