

# **MDCare EMR/PMS**

**Version: V5.1**

**§170.315(b)(10) Electronic HealthInformation –  
Export(Documentation)**

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## Overview

MDCareEMRV5.1 meets the certification criterion §170.315(b)(10) Electronic Health Information - Export by implementing the CCD Export for Single Patient and Bulk Patients. Based on specific user roles, this helps the clinical users to generate the Clinical Care Document in accordance with the standards specified in § 170.205(a)(4) HL7® Implementation Guide for CDA® Release 2: Consolidated CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1, August 2015

MDCareEMRV5.1 will generate complete electronic health information in C-CDA, XML and PDF formats.

To achieve this, we have implemented,

- Single Patient Data Export and Bulk Patients Data Export that can be in the CCD format and also can be printed in PDF format.
- Ability to download the Images / Clinical notes on demand and can be printed in PDF format.

## Single PatientExport:

- Home page → Records Tab → ‘EHI-Export’
- Clicking on ‘Add Request’ button navigates to ‘EHI-Export-Request’ window
- Select ‘Single patient’ and search with ‘Patient Name’.
- Down the page in the grid, user can see selected Patient’s list of encounters.
- Select the check box, patient encounter number/s in the grid to generate CCDA.
- Click on ‘Save’ button and close the window navigates to Records →EHI-Export window.

**EHI Export- Request**

Search Patient  
 Single Patient  Multiple Patients  
Patient Name:    
MR No: 10004

Request For  
Legal Authenticator:   Info shared over phone

Medical Records	Message Type
<input checked="" type="checkbox"/> Medical Records <input checked="" type="checkbox"/> Patient Demographics <input checked="" type="checkbox"/> All POS Documents	<input checked="" type="radio"/> CCD <input type="radio"/> Referral

**C-CDA/Referral Summary**

<input checked="" type="checkbox"/> Patient Name	<input checked="" type="checkbox"/> Sex	<input checked="" type="checkbox"/> DOB	<input checked="" type="checkbox"/> Race
<input checked="" type="checkbox"/> Ethnicity	<input checked="" type="checkbox"/> Preferred Language	<input checked="" type="checkbox"/> Social History/Smoking Status	<input checked="" type="checkbox"/> Problems
<input checked="" type="checkbox"/> Medications	<input checked="" type="checkbox"/> Medication Allergies	<input checked="" type="checkbox"/> Lab Tests	<input checked="" type="checkbox"/> Lab Values/Results
<input checked="" type="checkbox"/> Vital Signs	<input checked="" type="checkbox"/> Care Plan (Goals and Instructions)	<input checked="" type="checkbox"/> Procedures	<input checked="" type="checkbox"/> Care team Members
<input checked="" type="checkbox"/> Provider's name and office Contact info	<input checked="" type="checkbox"/> Date and Location of Visit	<input checked="" type="checkbox"/> Chief Complaint/Reason for visit	<input checked="" type="checkbox"/> Immunizations
<input checked="" type="checkbox"/> Medication Administered	<input checked="" type="checkbox"/> Diagnostic Pending Test	<input checked="" type="checkbox"/> Clinical Instructions	<input checked="" type="checkbox"/> Future Appointments
<input checked="" type="checkbox"/> Referrals	<input checked="" type="checkbox"/> Future Scheduled Tests	<input checked="" type="checkbox"/> Recommended Patient decision Aids	<input checked="" type="checkbox"/> Encounter/Final Diagnosis
<input checked="" type="checkbox"/> Functional and Status	<input checked="" type="checkbox"/> Assessment	<input checked="" type="checkbox"/> Goals	<input checked="" type="checkbox"/> HealthConcerns
<input checked="" type="checkbox"/> MentalStatus	<input checked="" type="checkbox"/> Interventions	<input checked="" type="checkbox"/> Medical Device Equipment	<input checked="" type="checkbox"/> HPI
<input checked="" type="checkbox"/> General Status	<input checked="" type="checkbox"/> Physical Exam	<input checked="" type="checkbox"/> ROS	<input checked="" type="checkbox"/> Past Medical History

Reason:

Decline to Specify

Enc No	DOS	Resource	Physician	Patient Name	Req Type	Signed Status	Signed Date
<input checked="" type="checkbox"/> 1	6/22/2015	ALBERT	Newman, Alice Jones	<input type="text" value="self"/>			

- Select the MR No check box from the grid after verifying the request date.

- If user selects only ‘single encounter’ click on ‘Download’ icon in the grid. Downloaded zip file includes all scanned clinical and administrative documents for the patient in C-CDA, PDF, and XML formats.

The screenshot shows a software interface for managing medical requests. At the top, there is a navigation bar with links: Physician Work List, Dashboard, Co-signer worklist, Face Sheet, EHI Export, Advance Directives, Phone Call, Referrals, and Test Results. Below the navigation bar is a search section with options for 'All Patients' or 'Selected Patient', a provider dropdown set to 'All', and date pickers for 'Request from' (11/01/2023) and 'Request to' (11/29/2023). There are also filters for 'Issue Type' (Issued, Not Issued, Pending), 'Request Type' (Medical Records, C-CDA), and buttons for 'Search', 'Add Request', 'Clear', and 'Print'. A table below the search area displays a single row of data:

MR No	Patient Name	Request Date	Request By	Request For	Request Reason	Issued By	Issued Date	Issued Comments	RequestType	Status
10004	Newman, Alice	11/29/2023 6:17:10 PM	Self	Medical Records, Patient...					CDC.Medical Records	

On the far right of the table, there are several icons: a red square, a download icon, a print icon, and an envelope icon.

- If ‘all encounters’ data of a single patient is needed, click on ‘Export’ button in grid. Downloaded zip file includes all scanned clinical and administrative documents for the patient in C-CDA, PDF, and XML formats.

Name	Type	Size
 1004-20231128	Microsoft Edge HT...	31 KB
 1004-20231128	Adobe Acrobat D...	10 KB
 1004-20231128	XML Document	140 KB

#### C-CDA Format

CCDA Message-MDCare

Patient	Alice Norman
Date of Birth	May 1, 1970
Sex	Female
Martial Status	Married
Race	White, White-European
Ethnicity	Not Hispanic or Latino
Language Communication	English
ContactInfo	Primary House 1557, Asher Dr, BEAVERTON, OR - 97006, US Tel (Primary Home) +1503-223-3244 Fax (Primary) +1503-223-1241
Patient ID#	10004-218-8401-1128834-6
Document ID	TT100-218-8401-112883-19-599999
Document Created	20-Nov-20, 2023, 17:51:44 +0300
Care provider	From June 20, 2015 to June 22, 2015
Performer (primary care physician)	Dr. Albert Davis, Neighborhood Physicians Practice
ContactInfo	Primary House, 2472 Radio place, Beaverton, OR - 970060000, US Tel (Primary Home) +1503-223-1200
Performer	Dr. Albert Davis, Neighborhood Physicians Practice
ContactInfo	Primary Home
Performer (name omitted)	Tracy Davis of Neighborhood Physicians Practice
ContactInfo	Primary House, 2472 Radio place, Beaverton, OR - 970060000, US Tel (Primary Home) +1503-223-1202
Action	Dr. Albert Davis, Neighborhood Physicians Practice
ContactInfo	Primary Home
Encounter ID	1-16-8401-1128834-6
Encounter Type	SIA
Encounter Date	From June 20, 2015 to June 22, 2015
Encounter Location	Neighborhood Physicians Practice, 2472 Radio place, Beaverton, OR, US 970060000
Personal relationship grandfather	Rick Roller
ContactInfo	Primary House 1557, Asher Dr, BEAVERTON, OR
Personal relationship (Spouse)	Markie Norman
ContactInfo	Primary House 1557, Asher Dr, BEAVERTON, OR
Signer	Dr. Albert Davis on November 20, 2023, 17:51:44 +0300
ContactInfo	Primary Home
Informant (spouse)	Markie Norman
Information recipient	Dr. Albert Davis
Legal entity signer	Dr. Albert Davis signed at November 20, 2023, 17:51:44 +0300
ContactInfo	Primary Home
Document maintained by	Neighborhood Physicians Practice
ContactInfo	2472 Radio place, Beaverton, OR - 970060000 Tel (Work/Fax) +1503-223-1202

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- ALLERGYES ADVERSE REACTIONS ALERTS
- A13E33D8C713
- TREATMENT PLAN
- DOCUMENTATION LOGOS
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Activate Windows  
Go to Settings to activate Windows.

## **Bulk PatientsExport:**

- Home page → Records Tab → ‘EHI-Export’
- Clicking on ‘Add Request’ button navigates to ‘EHI-Export-Request’ window
- Select ‘Multiple Patients’and a ‘Date range (From & To)’
- Select ‘Resource’ and ‘Physicians’ from the drop down list
- Click on ‘Search’ button
- Select Patient Demographics and also All POS documents check boxes
- Down the page, in the grid user you can see list of multiple patient encounters

**EHI Export- Request**

Search Patient —

Single Patient  Multiple Patients

DOS From: 11/01/2018 To: 11/29/2023

Resource: All

Physicians: All

**Request For:**

Legal Authenticator: ALBERT

**Medical Records** **Message Type**

Medical Records  Patient Demographics  All POS Documents  CCD  Referral

**C-CDA/Referral Summary**

<input checked="" type="checkbox"/> Patient Name	<input checked="" type="checkbox"/> Sex	<input checked="" type="checkbox"/> DOB	<input checked="" type="checkbox"/> Race
<input checked="" type="checkbox"/> Ethnicity	<input checked="" type="checkbox"/> Preferred Language	<input checked="" type="checkbox"/> Social History/Smoking Status	<input checked="" type="checkbox"/> Problems
<input checked="" type="checkbox"/> Medications	<input checked="" type="checkbox"/> Medication Allergies	<input checked="" type="checkbox"/> Lab Tests	<input checked="" type="checkbox"/> Lab Values/Results
<input checked="" type="checkbox"/> Vital Signs	<input checked="" type="checkbox"/> Care Plan (Goals and Instructions)	<input checked="" type="checkbox"/> Procedures	<input checked="" type="checkbox"/> Care team Members
Provider's name and office Contact info	<input checked="" type="checkbox"/> Date and Location of Visit	<input checked="" type="checkbox"/> Chief Complaint/Reason for visit	<input checked="" type="checkbox"/> Immunizations
<input checked="" type="checkbox"/> Medication Administered	<input checked="" type="checkbox"/> Diagnostic Pending Test	<input checked="" type="checkbox"/> Clinical Instructions	<input checked="" type="checkbox"/> Future Appointments
<input checked="" type="checkbox"/> Referrals	<input checked="" type="checkbox"/> Future Scheduled Tests	<input checked="" type="checkbox"/> Recommended Patient decision Aids	<input checked="" type="checkbox"/> Encounter/Final Diagnosis
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<input checked="" type="checkbox"/> MentalStatus	<input checked="" type="checkbox"/> Interventions	<input checked="" type="checkbox"/> Medical Device Equipment	<input checked="" type="checkbox"/> HPI
<input checked="" type="checkbox"/> General Status	<input checked="" type="checkbox"/> Physical Exam	<input checked="" type="checkbox"/> ROS	<input checked="" type="checkbox"/> Past Medical History
<input checked="" type="checkbox"/> Clinical Notes			

Reason:

Decline to Specify

<input checked="" type="checkbox"/> Enc No	DOS	Resource	Physician	Patient Name	Req Type	Signed Status	Signed Date
<input checked="" type="checkbox"/> 6	6/22/2020		ALBERT	Kid G93,Happy Always	<input type="button" value="self"/>		

- Check the check box in All Encounters in grid view
- Click on ‘Save’ button and close, the window navigates to Records → EHI-Export window.



Name	Type	Size
 1004-20231128	Microsoft Edge HT...	31 KB
 1004-20231128	Adobe Acrobat D...	10 KB
 1004-20231128	XML Document	140 KB

## CCD OutputFormat

### Standard Referenced:

- § 170.205(a)(4) HL7® Implementation Guide for CDA® Release 2: Consolidated CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1, August 2015
- [https://www.healthit.gov/isa/sites/isa/files/2020-10/USCDI-Version-1-July-2020-Errata-Final\\_0.pdf](https://www.healthit.gov/isa/sites/isa/files/2020-10/USCDI-Version-1-July-2020-Errata-Final_0.pdf)

### Sections in the CCD output

Data Elements	XPATH / Entry	Code System	Code System Name
<b>Patient Demographics/Information</b>			
Patient Name	patient/name	-	
Sex	patient/administrativeGenderCode	2.16.840.1.113883.5.1	AdministrativeGender
Date of Birth	patient/birthTime		
Race	patient/raceCode	2.16.840.1.113883.6.23 8	Race & Ethnicity - CDC
Ethnicity	patient/ethnicGroupCode	2.16.840.1.113883.6.23 8	Race & Ethnicity - CDC
Preferred Language	patient/languageCommunication/languageCode		
<b>Provider's name and office contact information</b>			
Performer	documentationOf/serviceEvent/performer/assignedEntity/assignedPerson/name		
Performer	documentationOf/serviceEvent/performer/assignedEntity/telecom		
Performer	documentationOf/serviceEvent/performer/assignedEntity/addr		
<b>Date and Location of visit [2.16.840.1.113883.10.20.22.2.22.1 : 2015-08-01]</b>			

Encounter	entry/encounter/effectiv eTime/@value		
Encounter	entry/encounter/partici pant/participantRole/ad dr		

Chief Complaint and Reason for visit [2.16.840.1.113883.10.20.22.2.13 : 2014-06-09]			
Patient visit details/complaints			
Encounters [2.16.840.1.113883.10.20.22.2.22.1 : 2015-08-01]			
Encounter Code and Code Description	2.16.840.1.113883.10. 2 0.22.4.49: 2015-08-01	2.16.840.1.113883.6.12	CPT
Performer			
Data Elements	XPATH / Entry	Code System	Code System Name
Diagnosis		2.16.840.1.113883.6.96 and 2.16.840.1.113883.6.3 (translation code)	SNOMED and ICD10
Location			
Date			
Immunizations [2.16.840.1.113883.10.20.22.2.2.1 : 2015-08-01]			
Vaccine	2.16.840.1.113883.10. 2 0.22.4.52: 2015-08-01	2.16.840.1.113883.12.2 92 and 2.16.840.1.113883.6.12 (translation code)	CVX and CPT-4
Date			
Status			
Route		2.16.840.1.113883.3.26. 1.1	National Cancer Institute (NCI) Thesaurus
Site		2.16.840.1.113883.6.96	SNOMED
Manufacturer			
Dose			
Lot Number			
Notes			
Instructions [2.16.840.1.113883.10.20.22.2.45 : 2014-06-09]			



Medication	2.16.840.1.113883.10.2 0.22.4.16: 2014-06-09	2.16.840.1.113883.6.88 and 2.16.840.1.113883.6.69 (translation code)	RxNorm and NDC
Directions			
Start Date			
End Date			
Status			
<b>Medication Allergies [2.16.840.1.113883.10.20.22.2.6.1 : 2015-08-01]</b>			
Substance	2.16.840.1.113883.10.2 0.22.4.30: 2015-08-01	2.16.840.1.113883.6.88	RxNorm
Reaction		2.16.840.1.113883.6.96	SNOMED
Severity		2.16.840.1.113883.6.96	SNOMED
Status		2.16.840.1.113883.6.96	SNOMED
<b>Laboratory Tests</b>			
Test Code			
Code System		2.16.840.1.113883.6.1	LOINC
Name			
Date			
<b>Laboratory Information</b>			
Lab Name			
Lab Address			
Test Report Date			
Test Performed			
Specimen Source			
<b>Laboratory value(s)/result(s) [2.16.840.1.113883.10.20.22.2.3.1 : 2015-08-01]</b>			
Result Type	2.16.840.1.113883.10.2 0.22.4.1: 2015-08-01	2.16.840.1.113883.6.1	LOINC
Result Value			
Relevant Reference Range			
Interpretation			
Date			





URL: [www.mdcare.com/EHlexport](http://www.mdcare.com/EHlexport)

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