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CROWNWeb 4.1
Interface Control Document (ICD)
For XML Schemas for Electronic Data Interchange (EDI)

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1. INTRODUCTION

This Interface Control Document (ICD) describes the relationship between the Consolidated Renal Operations in a Web-Enabled Network (CROWNWeb) application and the various external systems (including user browser agents) that interact with CROWNWeb via electronic data interchange (EDI) for the processing of batch patient and clinical data submission.

This ICD specifies the interface requirements to be met by the participating systems. It describes the concept of operations for the interface, defines the message structure and protocols that govern the interchange of data, and identifies the communication paths along which the data shall flow.

This document provides:

- An overview of the EDI interaction
- A general description of the interface, focusing on the use XML (“eXtensible Markup Language”) specifications
- Assumptions where appropriate
- A description of the XML schemas that prescribe the format and content for exchanged data (messages)

2. REFERENCED DOCUMENTS

Table 1: Referenced Documents

Document Name	Document Number	Issuance Date
Kidney Data Dictionary (KDD) Release 1.2		April 3, 2009
Interface Control Document ILC Template	V1.1	August 5, 2008

3. OVERVIEW

The CROWNWeb (Consolidated Renal Operations in a Web-Enabled Network , also referred to as CROWN) system allows certain users, the “Batch Submitting Organizations” (BSOs), to exchange data with the CROWN application via the electronic data interchange (EDI) of messages. The BSO’s IT system creates messages as XML (eXtensible Markup Language) documents representing patient demographic or clinical data. XML is a standard platform-neutral text format to represent information for data exchange. The BSOs then submit these XML message documents through the CROWN system, which processes the information according to its normal business logic, then generates feedback messages, also XML documents, for retrieval by the BSO.

CROWN specifies XML schema documents (XSD documents, or XSDs) to define and constrain the form and content of its XML message documents. A schema document or set of interrelated XSDs defines XML namespaces, or labeled structures, that identify and constrain the elements, attributes and types for conformance. If the XML document complies with the layout and content of its schema namespace, it is valid for that namespace, otherwise it is not valid.

The XML world identifies each unique document namespace by a unique Uniform Resource Identifier (URI). The schemas for CROWN define several namespaces, whose URIs are:

- <http://crown.esrd.net/crown>
- <http://crown/crown-demographic-feedback>
- <http://crown/crown-clinical-feedback>

Despite their appearance, these URIs are not URLs (Uniform Resource Locators); there is not necessarily a web address to correspond to any of these. As URIs, they name (“identify”) the particular schema patterns in use by a particular XML document, but don’t promise an actual location where to find that specification.

The <http://crown.esrd.net/crown> namespace defines the XML elements, attributes and types for CROWNWeb messages, packaged as XML documents submitted by users to the application. The feedback namespaces define the XML elements, attributes and types used for the replies to those submissions.

4. ASSUMPTIONS/CONSTRAINTS/RISKS

4.1 ASSUMPTIONS

The CROWNWeb EDI protocols assume:

- EDI users provide their own mechanisms to generate XML submissions for CROWNWeb and to parse and process the XML replies.
- CROWNWeb will support different access channels for EDI exchange. Currently, it allows users to upload XML files through the graphical user interface (GUI). In the future, it will allow connections directly from the CMS enterprise infrastructure.

4.2 CONSTRAINTS

CROWNWeb design must account for the system's deployment constraints:

- The CROWNWeb implementation must conform to CMS requirements, in particular to the three-tier technical reference architecture (TRA).
- A submission file size can be no greater than 50MB. A file larger than 50MB will result in the display error: "The file you selected exceeded the size limit of 50MB. Please select a file to upload again."
- 'Collection Type' (Hemodialysis, Vascular Access, Peritoneal Dialysis) data must be submitted either in separate clinical sections within a patient's clinical submission or within totally separate clinical files. Submitting this data together without segmenting the collection type may result in errors returned.
- A patient record must be submitted prior to a clinical record being accepted by CROWNWeb for new End-Stage Renal Disease (ESRD) patients or facility transfer patients. Submitting a clinical record without a patient record first may result in errors returned.
- There are several enumerated lists that allow the user to choose "Other" as an answer to a particular question. If "Other" is chosen as an answer and there is an accompanying element for a text answer for the "Other" information, the user can then submit information for this element containing the "Other" text string. However, if the user submits text within the accompanying 'Other' element without choosing "Other" from the enumerated list, the data string will be ignored from the submission without a warning or error.
- Demographic submissions with addresses must include at least the State of the other type of address. For example; if you supply a Physical Address, you must add tags for Mailing and include at least the State. The same goes for the opposite. It is recommended to include both a complete Mailing and Physical address in demographic all submissions.

4.3 RISKS

To the extent technically feasible, the CROWNWeb design addresses risks to the system, to wit:

- **RISK:** Exchange protocols can be rigid, obscure and tricky to implement and maintain.
 - **Amelioration:** XML exchange is a well-understood and well-documented field, supported by many software platforms with readily available frameworks. The XML format is robust, extensible (as the name suggests) and being text-based, relatively easy to maintain. This reduces the cost and risks of error for the data-exchange protocol.
- **RISK:** Data may be misrepresented, miss required elements, appear in the wrong format, or have other surface error.
 - **Amelioration:** XML schemas precisely define acceptable structures and formats for XML documents. Confirmation of an XML message's schema validity is straightforward and rapidly filters out such errors.
 - The XML elements and types were designed to represent domain-specific entity information.
- **RISK:** Schema-valid data might fail to conform to CROWN business rules.
 - **Amelioration:** The EDI module relays schema-validated data as software constructs to CROWN's normal validation and persistence processes, and relays feedback messages back to the user to enable them to address discrepancies.

5. GENERAL INTERFACE REQUIREMENTS

There currently are two ways to feed information to the CROWNWeb system, via the web application's browser-based graphical user interface (GUI) screens, or via an electronic data interchange (EDI) message formatted as an XML document and uploaded as a batch through the GUI's EDI screens. This section describes the EDI processing via the GUI upload process. In the future, CROWNWeb will support exchange of the same types of XML messages through a CMS enterprise-wide service mechanism.

Currently, users use the CROWNWeb GUI to upload and download XML document files. CROWNWeb in the future will exchange XML data streams via the CMS enterprise infrastructure. Either mechanism submits XML documents to CROWN and retrieves XML documents back from it.

5.1 INTERFACE OVERVIEW

Overall, the XML processing follows the flow illustrated in **Figure 1**, below. The flow of data through the interface is described in section [6.1.2. General Processing Steps](#).

5.2 FUNCTIONAL ALLOCATION

The external systems provide an XML document submission to CROWN. CROWN parses the document into an internal form and confirms its XML validity.

5.3 DATA TRANSFER

All EDI access points pass XML documents to the CROWNWeb EDI subsystem and receive XML documents from it. Please refer to Section 6.1.2 General Processing Steps.

5.4 TRANSACTIONS

There are no transactions within the EDI subsystem. The CROWNWeb business logic manages transactions involving the extracted information, but that is out of scope for the XML messaging processes.

5.5 SECURITY AND INTEGRITY

CROWN does have security mechanisms in place to restrict delivery of EDI messages, access to EDI features, or operations on EDI-submitted data. These are not part of the EDI subsystem but of other CROWNWeb modules, and are out of scope for this document.

6. DETAILED INTERFACE REQUIREMENTS

6.1 EDI XML SCHEMA REQUIREMENTS

The XML Schema Document (XSD) specifications define XML types, elements and attributes that represent data for interchange with the CROWNWeb system. The items correspond to CROWN system requirements; the correlations are detailed in section 6.1.4., “XML Document Format and Corresponding Requirements”.

6.1.1 ASSUMPTIONS AND DESIGN GOALS

6.1.1.1 ASSUMPTIONS

The design of CROWNWeb’s XML-based communication protocol assumes that:

- EDI participant systems meet the general business and infrastructure requirements to participate in the data exchange.
- All EDI exchanges with CROWNWeb will feed through its common XML-processing software layers, or “stack”.
- The validation and persistence layers (stacks) are the same for data whether flowing through the EDI stack or the GUI.

These assumptions allow the XML schemas to focus on data representation and its logical structure, leaving all processing responsibility outside their scope.

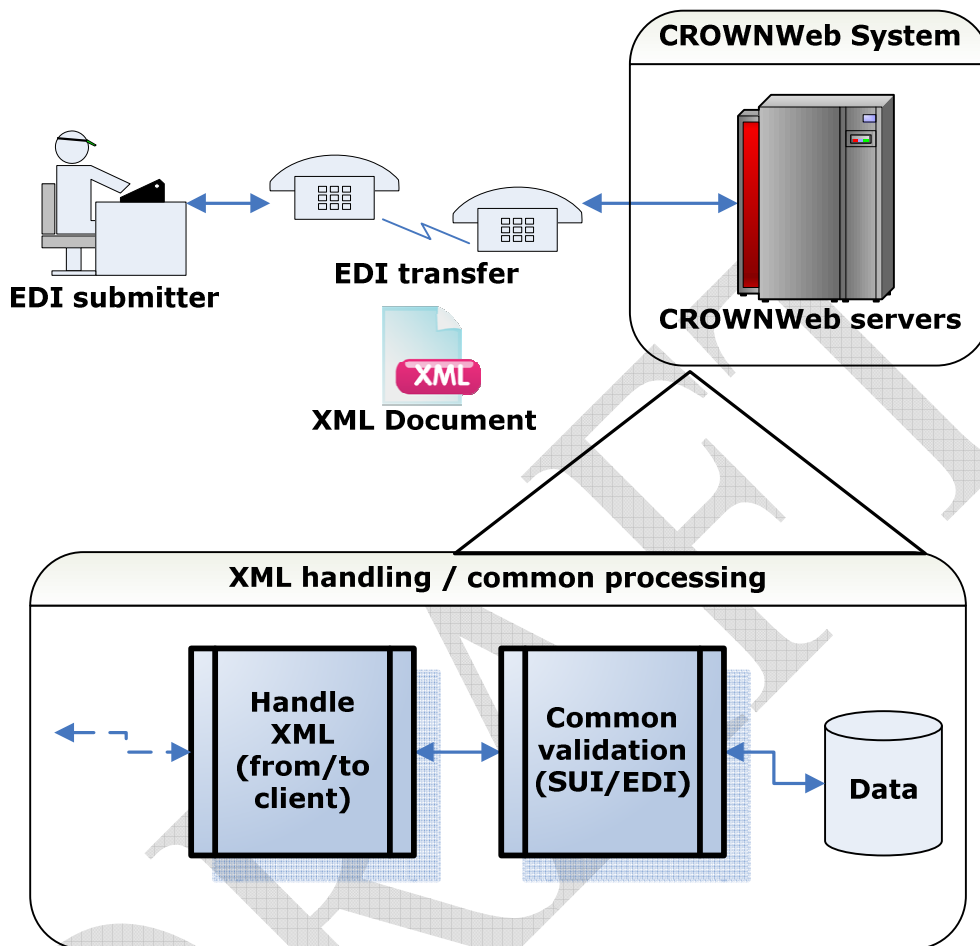
6.1.1.2. DESIGN GOALS

The design influences on the XML schemas included:

- The XML should represent the data to exchange and the broad operations requested for that data, not the detailed processing logic.
- The schema design should follow industry best practices.
- The XML processing steps should not impose barriers to deployment configuration or performance tuning.
- The XML processing should not impose barriers to feature enhancements such as the creation of new EDI messages or new connection channels.
- Include the new elements required for version CROWNWeb 4.1.
- Facilitate resolution of batch-submission discrepancies.
- Reduce the risk of inconsistencies between different XML submission types (currently comprising patient demographic information and patient clinical information).
- Enable common validation, processing, and persistence logic for data entered whether via the GUI or via XML communication channels.
- Improve the schema structures to be more logical and maintainable.
- Bring the XML structures to closer alignment with the domain ontology.
- Anticipate and facilitate future enhancements, such as planned additional enterprise communication channels for CROWNWeb XML data.
- Improve the clarity of internal documentation and nomenclature within the schemas.
- Ensure smooth integration with the enterprise infrastructure, particularly the three-tier architecture.

6.1.2. GENERAL PROCESSING STEPS

Figure 1: EDI (XML) Process Flow



CROWNWeb understands two types of EDI documents – patient demographic data, such as name, address, admission date, treatment modality, and other data descriptive of the patient’s status, and clinical data, such as lab results, treatment details and the like.

The general processing steps for EDI processing are:

1. The BSO user starts with an XML document representing data to submit to CROWN.
2. Using the CROWNWeb interface, the user transmits (uploads) the document to CROWN.
 - a. Data flows to and from the CROWN system using the TCP/IP and HTTP protocols.
3. The CROWNWeb application receives the XML document.
4. CROWN parses (translates) the document into internal software structures.
5. CROWN confirms the XML schema validity of the input.
 - a. If the document is not valid, CROWN returns an error message.
6. CROWN performs business validations on the information, such as confirmation that treatment dates comply with system policies or that the supposedly new patient is not a duplicate of one already in the system.
 - a. CROWN assembles any errors or warnings from the validation process for use in the feedback message.
7. CROWN updates persistent data according to the submitted information.
 - a. CROWN assembles any errors or warnings from the persistence process for use in the feedback message.
8. CROWN stores the feedback information for retrieval by the BSO.
9. Using the CROWNWeb interface, the user retrieves the feedback document related to the submission.
10. The BSO uses the feedback document in accordance with their procedures.

6.1.3. INTERFACE PROCESSING TIME REQUIREMENTS

The System shall process submitted files within 24 hours of submission depending upon availability of the system.

6.1.4. XML DOCUMENT FORMAT AND CORRESPONDING REQUIREMENTS

This section details the contents of the XML schemas and how they relate to requirements and business-domain concepts.

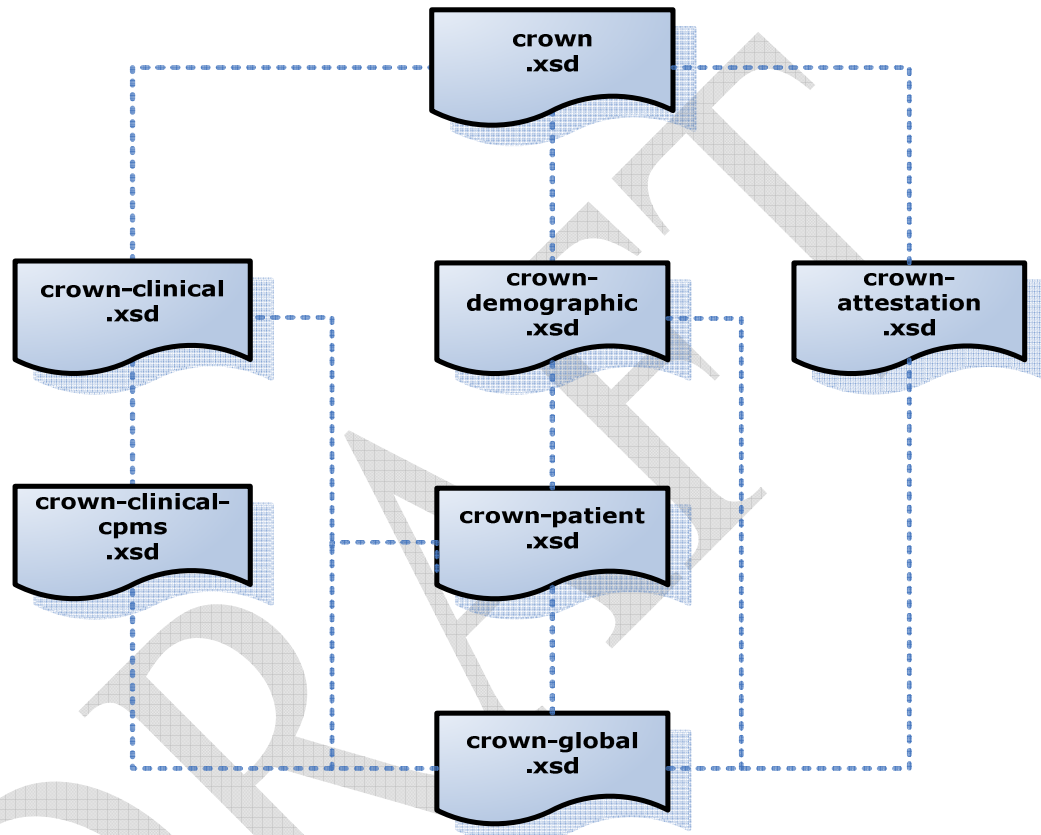
6.1.4.1. XML SCHEMA LAYOUT

For convenience, the overall XML schema namespace is split among several individual XSD documents, starting with “crown.xsd”. Logically, all these XSDs combine into a single CROWN schema, identified by the namespace “<http://crown.esrd.net/crown>”.

The two types of EDI submission, demographic and clinical, are represented by the two top-level XML elements defined in “crown.xsd”, “demographic”, and “clinical”, respectively.

The relationship among the documents is shown in **Figure 2**.

Figure 2: XSD Document Relationships



The CROWNWeb Batch Schemas consist of seven separate schemas. Crown.xsd, crown-demographic.xsd, crown-clinical.xsd, crown-patient.xsd, crown-clinical-cpms.xsd, crown-global.xsd, crown-attestation.xsd.

Section [6.1.4.3. Field/Element Definition](#) details the content of the XSD schemas and what it specifies.

6.1.4.2. DATA ASSEMBLY CHARACTERISTICS

XML data files shall be created and assembled outside of the system to conform to the CROWNWeb 4.1 Batch Specifications. Definition of fields and elements are provided in Section [6.1.4.3. Field/Element Definition](#).

6.1.4.3. FIELD/ELEMENT DEFINITION

The XML schema defines all the business elements needed for data exchange.

Table 2: Field/Element Definition

XSD	Schema Type	Element or Attribute	Item Type	Business Name	Rqmt ID
crown.xsd		demographic	Demographic	N/A: Organize and support consistency among other data elements	N/A
crown.xsd		clinical	Clinical	N/A: Organize and support consistency among other data elements	N/A
crown-demographic.xsd	Demographic	orgAffiliation	OrganizationAffiliation	Authorized Batch Submitting Organization	RQMT_1135
crown-demographic.xsd	Demographic	patient	Patient	N/A: Organize and support consistency among other data elements	N/A
crown-clinical.xsd	Clinical	orgAffiliation	OrganizationAffiliation	Authorized Batch Submitting Organization	RQMT_1135
crown-clinical.xsd	Clinical	clinicalPeriod	Period	N/A: Organize and support consistency among other data elements	N/A
crown-clinical.xsd	Clinical	patientClinical	PatientClinical	N/A: Organize and support consistency among other data elements	N/A
crown-clinical.xsd	PatientClinical	orgFacilityCode	xsd:string	Organizational Facility Code	RQMT_14
crown-clinical.xsd	PatientClinical	orgPatientId	xsd:string	Organization Patient ID	N/A
crown-clinical.xsd	PatientClinical	patientId	PatientIdentifier	CROWN Unique Patient Identifier (UPI)	RQMT_111
crown-clinical.xsd	PatientClinical	clinicalRecord	ClinicalRecord	N/A: Organize and support consistency among other data elements	N/A

crown-clinical.xsd	ClinicalRecord	labValues	LabValues	N/A: Organize and support consistency among other data elements	N/A
crown-clinical.xsd	ClinicalRecord	vascularAccess	VascularAccess	N/A: Organize and support consistency among other data elements	N/A
crown-clinical.xsd	ClinicalRecord	cpms	CPMs	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	Patient	orgPatientId	NonEmptyString	Organization Patient Id	RQMT_218
crown-patient.xsd	Patient	effectiveDate	xsd:date	Effective Date	RQMT_34
crown-patient.xsd	Patient	patientIdentifier	PatientIdentifier	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	Patient	citizenshipStatus	CitizenshipStatus	Patient Citizenship Status	RQMT_1074
crown-patient.xsd	Patient	citizenshipStatus	CitizenshipStatus	Patient Citizenship Status	RQMT_1074
crown-patient.xsd	Patient	citizenshipEffectiveDate	Patient	Patient Citizenship Status Effective Date	RQMT_1075
crown-patient.xsd	Patient	medicareEnrollmentStatus	MedicareEnrollmentStatus	Medicare Enrollment Status	RQMT_1071
crown-patient.xsd	Patient	medicareEnrollmentStatus	Patient	Medicare Enrollment Status Effective Date	RQMT_1072
crown-patient.xsd	Patient	employmentStatus	EmploymentStatus	Patient Current Employment Status	RQMT_137
crown-patient.xsd	Patient	employmentStatus	Patient	Patient Current Employment Status Effective Date	RQMT_1068
crown-patient.xsd	Patient	schoolStatus	SchoolStatus	Patient Current School Status	RQMT_151
crown-patient.xsd	Patient	schoolStatus	Patient	Patient Current School Status Effective Date	RQMT_1069

crown-patient.xsd	Patient	vocationalRehab	VocationalRehab	Patient Current Vocational Rehabilitation Status	RQMT_152
crown-patient.xsd	Patient	vocationalRehab	Patient	Patient Current Vocational Rehabilitation Status Effective Date	RQMT_1067
crown-patient.xsd	Patient	phone	Phone	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	Patient	admitDischarge	AdmitDischarge	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	CitizenshipStatus		enumeration: USCitizen, NonUSCitizen, ForeignUSResident, USResident	Patient Citizenship Status	RQMT_1074
crown-patient.xsd	PatientIdentifier	lastName	LastName	Patient Last Name	RQMT_113
crown-patient.xsd	PatientIdentifier	firstName	FirstName	Patient First Name	RQMT_115
crown-patient.xsd	PatientIdentifier	middleInitial	MiddleInitial	Patient Middle Initial	RQMT_116
crown-patient.xsd	PatientIdentifier	suffix	Suffix	Patient Suffix	RQMT_114
crown-patient.xsd	PatientIdentifier	hicnum	Hicnum	Patient Medicare Claim Number	RQMT_117
crown-patient.xsd	PatientIdentifier	ssn	SSN	Patient Social Security Number	RQMT_120
crown-patient.xsd	PatientIdentifier	crownPatientId	xsd:string	CROWN Unique Patient Identifier (UPI)	RQMT_111
crown-patient.xsd	PatientIdentifier	gender	Gender	Patient Sex/Gender	RQMT_118
crown-patient.xsd	PatientIdentifier	dob	xsd:date	Patient Date of Birth	RQMT_119
crown-patient.xsd	PatientIdentifier	dod	xsd:date	Patient Date of Death	RQMT_135

crown-patient.xsd	PatientIdentifier	raceEthnicity	RaceEthnicity	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	PatientIdentifier	countryOfOrigin	Country	Patient Country/Area of Origin or Ancestry	RQMT_747
crown-patient.xsd	PatientIdentifier	hicnumNA	xsd:boolean {false}	Patient Medicare Claim Number Not applicable	RQMT_117
crown-patient.xsd	PatientIdentifier	ssnNA	xsd:boolean {false}	Patient Social Security Number Not applicable	RQMT_120
crown-patient.xsd	SSN		xsd:string	Patient Social Security Number	RQMT_120
crown-patient.xsd	Hicnum		xsd:string	Patient Medicare Claim Number	RQMT_117
crown-patient.xsd	RaceEthnicity	race	Race	Patient Race	RQMT_131
crown-patient.xsd	RaceEthnicity	ethnicity	Ethnicity	Patient Ethnicity	RQMT_129
crown-patient.xsd	RaceEthnicity	selfReported	ListedRaceSelfReported	Patient's Self Reporting of Race and Ethnicity	RQMT_1066
crown-patient.xsd	Race	raceCode	RaceCode	Patient Race	RQMT_131
crown-patient.xsd	Race	tribeCode	TribeCode	Name of Enrolled/Principal Tribe	RQMT_748
crown-patient.xsd	ListedRaceSelfReported		enumeration: SelfReported, NotSelfReported, FamilyReported, PatientDeclined	Patient's Self Reporting of Race and Ethnicity	RQMT_1066
crown-patient.xsd	AdmitDischarge	admitDischargeUniqueId	NonEmptyString	Admit/Discharge Unique Identifier	N/A
crown-patient.xsd	AdmitDischarge	orgFacilityCode	NonEmptyString	CROWN Facility Unique Identifier	RQMT_352
crown-patient.xsd	AdmitDischarge	admitDate	xsd:date	Admit Date	RQMT_354

crown-patient.xsd	AdmitDischarge	admitReason	AdmitReason	Admit Reason	RQMT_355
crown-patient.xsd	AdmitDischarge	transient	xsd:boolean	Transient Status	RQMT_356
crown-patient.xsd	AdmitDischarge	transientReason	TransientReason	Transient Reason	RQMT_357
crown-patient.xsd	AdmitDischarge	dischargeDate	xsd:date	Discharge Date	RQMT_361
crown-patient.xsd	AdmitDischarge	dischargeReason	DischargeReason	Discharge Reason	RQMT_362
crown-patient.xsd	AdmitDischarge	involuntaryDischarge	InvoluntaryDischarge	Involuntary Discharge	RQMT_363
crown-patient.xsd	AdmitDischarge	transferDischarge	TransferDischarge	Transfer Discharge Subcategory	RQMT_364
crown-patient.xsd	AdmitDischarge	transientAddress	Address	Patient Transient Address	RQMT_375
crown-patient.xsd	AdmitDischarge	transientPhoneNumber	Phone	Patient Transient Contact Phone Number	RQMT_380
crown-patient.xsd	AdmitDischarge	modality	Modality	Primary Type of Treatment (Modality)	RQMT_367
crown-patient.xsd	AdmitDischarge	action "action" currently not used by the system except for Medication Allergy section	Action {declare}	N/A - System Action	N/A
crown-patient.xsd	Modality	practitioner	Physician	CROWN Personnel Unique Identifier	RQMT_84
crown-patient.xsd	Modality	modalityId	NonEmptyString	Modality Unique Identifier	N/A
crown-patient.xsd	Modality	changeDate	xsd:date	Effective Date (Change)	RQMT_150
crown-patient.xsd	Modality	dialysisSetting	DialysisSetting	Primary Dialysis Setting	RQMT_366

crown-patient.xsd	Modality	primaryTreatmentType	TreatmentType	Primary Type of Treatment	RQMT_367
crown-patient.xsd	Modality	prescribedSessionsPerWeek	xsd:decimal	Sessions per Week	RQMT_368
crown-patient.xsd	Modality	minutesPerSession	xsd:positiveInteger	Time Per Session (Delivered)	RQMT_369
crown-patient.xsd	Modality	dialysisTraining	DialysisTraining	N/A: Organize and support consistency among other data elements	N/A
crown-patient.xsd	Physician	orgId	NonEmptyString	Organization Facility Code	RQMT_14
crown-patient.xsd	Physician	lastName	NonEmptyString	Attending Practitioner Name	RQMT_370
crown-patient.xsd	Physician	firstName	NonEmptyString	Attending Practitioner Name	RQMT_370
crown-patient.xsd	Physician	upin	UPIN	Attending Practitioner UPIN	RQMT_372
crown-patient.xsd	Physician	npi	NPI	Attending Practitioner National Provider Identifier (NPI)	RQMT_373
crown-patient.xsd	DialysisTraining	trainingType	DialysisType	Type of Training	RQMT_367
crown-patient.xsd	DialysisTraining	value	xsd:string	Type of Training	RQMT_367
crown-patient.xsd	DialysisTraining	dialysisPeriod	DialysisPeriod	Dialysis Time Period	RQMT_1073
crown-patient.xsd	DialysisTraining	dialysisTrainingStart	xsd:date	Date Training Began	RQMT_274
crown-patient.xsd	DialysisTraining	dialysisTrainingEnd	xsd:date	Training Completion Date	RQMT_278
crown-patient.xsd	DialysisTraining	expectedSelfCare	SelfCareSetting	Expected Self-Care Setting	RQMT_1070

crown-patient.xsd	Suffix	enumeration: 1 - 7	Patient Suffix	RQMT_114
crown-patient.xsd	Gender	enumeration: M, F	Patient Sex/Gender	RQMT_118
crown-patient.xsd	AdmitReason	enumeration: 1-5	Admit Reason	RQMT_355
crown-patient.xsd	TransientReason	enumeration: 1-7	Transient Reason	RQMT_357
crown-patient.xsd	DischargeReason	enumeration: 1 - 9,11	Discharge Reason	RQMT_362
crown-patient.xsd	InvoluntaryDischarge	enumeration: 1-7	Involuntary Discharge	RQMT_363
crown-patient.xsd	TransferDischarge	enumeration: 1-6	Transfer Discharge Subcategory	RQMT_364
crown-patient.xsd	DialysisSetting	enumeration: 1-3	Primary Dialysis Setting	RQMT_366
crown-patient.xsd	TreatmentType	enumeration: 1-4	Primary Type of Treatment	RQMT_367
crown-patient.xsd	Ethnicity	enumeration: 6-7	Patient Ethnicity	RQMT_129
crown-patient.xsd	SchoolStatus	enumeration: 1-3	Patient Current School Status	RQMT_151
crown-patient.xsd	EmploymentStatus	enumeration: Unemployed, FullTime, PartTime, Homemaker, RetiredAgePref, RetiredDisability, MedicalLeave, Student	Patient Current Employment Status	RQMT_137
crown-patient.xsd	VocationalRehab	enumeration: 1-5	Patient Current Vocational Rehabilitation Status	RQMT_152
crown-patient.xsd	RaceCode	enumeration: 1 - 4, 6	Patient Race	RQMT_131
crown-patient.xsd	TribeCode	enumeration: 0 - 448, 990, 997 : except: 239, 241-242, 253-254, 264,-265, 270-271, 288-289, 292, 296-302, 310-	Name of Enrolled/Principal Tribe	RQMT_748

			311, 316-319, 325-329, 341-344, 361-362, 386-289, 409, 414, 416, 436-440		
crown-clinical-cpms.xsd	CPMs	medicationAllergy	MedicationAllergy	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	adequacy	Adequacy	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	esaPrescription	ESAPrescription	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	fluidWeightManagement	FluidWeightManagement	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	hospitalization	Hospitalization	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	vaccinations	Vaccinations	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	vascularAccessInfection	Infection	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	ironCpm	IronCpm	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	vitaminDCpm	VitaminDCpm	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	CPMs	action "action" currently not used by the system except for Medication Allergy section	Action {declare}	N/A - System Action	N/A
crown-clinical-cpms.xsd	Adequacy	hKtVInfo	HKtVInfo	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	Adequacy	pKtVInfo	PKtVInfo	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	Adequacy	residualRenalFuncReceived	xsd:boolean	Residual Renal Function Testing Performed	RQMT_1011
crown-clinical-cpms.xsd	ESA	wasPrescribed	xsd:boolean	ESA Agent Was Prescribed	RQMT_305

crown-clinical-cpms.xsd	ESA	prescription	ESAPrescription	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	ESAPrescription	date	xsd:date	Date ESA Prescription Changed	RQMT_306
crown-clinical-cpms.xsd	ESAPrescription	agent	ESAAgent	ESA Agent	RQMT_976
crown-clinical-cpms.xsd	ESAPrescription	monthlyDose	xsd:decimal	ESA Monthly Dose	RQMT_977
crown-clinical-cpms.xsd	ESAPrescription	doseMeasure	DoseMeasure	ESA Monthly Dose Measurement	RQMT_977
crown-clinical-cpms.xsd	ESAPrescription	esaRoute	ListedDeliveryRouteOnly	ESA Route	RQMT_978
crown-clinical-cpms.xsd	FluidWeightManagement	sodiumEducationNotReceived	xsd:boolean	Education on Sodium Restriction Not Received	N/A
crown-clinical-cpms.xsd	FluidWeightManagement	sodiumEducationDate	xsd:date	Date Patient Education on Sodium Restriction	RQMT_1044
crown-clinical-cpms.xsd	FluidWeightManagement	sodiumProfilingRxed	xsd:boolean	Sodium Profiling/Modeling Prescribed	RQMT_1045
crown-clinical-cpms.xsd	FluidWeightManagement	constantDialysateSodiumRxed	xsd:boolean	Constant Dialysate Sodium	RQMT_1046
crown-clinical-cpms.xsd	FluidWeightManagement	dialysateSodiumOver138	xsd:boolean	Dialysate Sodium Concentration	RQMT_1048
crown-clinical-cpms.xsd	FluidWeightManagement	postDialysisWgtAssessmentDate	xsd:date	Post Dialysis Weight Assessment Date	RQMT_1053
crown-clinical-cpms.xsd	FluidWeightManagement	postDialysisTargetWgtRxed	xsd:boolean	Post-Dialysis Target Weight for Session	RQMT_1052
crown-clinical-cpms.xsd	FluidWeightManagement	homeBPPProvided	xsd:boolean	Home Blood Pressure Values Provided	RQMT_1054
crown-clinical-cpms.xsd	FluidWeightManagement	homeBPStatus	BPStatus	Home Blood Pressure Status	RQMT_1119

crown-clinical-cpms.xsd	FluidWeightManagement	dryWeightRxed	xsd:boolean	Dry Weight Order	RQMT_1120
crown-clinical-cpms.xsd	FluidWeightManagement	hasEdema	xsd:boolean	Presence of Edema	RQMT_1122
crown-clinical-cpms.xsd	FluidWeightManagement	echocardiogramDate	xsd:date	Echocardiogram Dates	RQMT_1049
crown-clinical-cpms.xsd	FluidWeightManagement	hasAbnormalBreathSounds	xsd:boolean	Presence of Abnormal Breath Sounds	RQMT_1123
crown-clinical-cpms.xsd	FluidWeightManagement	hasLeftVentricularHypertrophy	xsd:boolean	Presence of Left Ventricular Hypertrophy	RQMT_1124
crown-clinical-cpms.xsd	FluidWeightManagement	leftVentricularHypertrophyChanged	xsd:boolean	Change in Left Ventricular Hypertrophy	RQMT_1125
crown-clinical-cpms.xsd	Hospitalization	hospitalizationId	xsd:string	HospitalizationID	N/A
crown-clinical-cpms.xsd	Hospitalization	hospital	xsd:string	Hospital Name	RQMT_1126
crown-clinical-cpms.xsd	Hospitalization	admissionDate	xsd:date	Hospital Admission Date	RQMT_1027
crown-clinical-cpms.xsd	Hospitalization	admissionDiagnosis	Diagnosis	Hospital Admission Diagnosis	RQMT_1029
crown-clinical-cpms.xsd	Hospitalization	dischargeDate	xsd:date	Hospital Discharge Date	RQMT_1028
crown-clinical-cpms.xsd	Hospitalization	dischargeDiagnosis	ListedDischargeDiagnosisType	Hospital Discharge Diagnosis	RQMT_1030
crown-clinical-cpms.xsd	Hospitalization	directFromDialysisFacility	xsd:boolean	Hospital Admission from Dialysis Facility	RQMT_1031
crown-clinical-cpms.xsd	Hospitalization	visit	HospitalVisit	All Hospital Visits	RQMT_1026
crown-clinical-cpms.xsd	Hospitalization	advanceDirective	AdvanceDirective	Advance Directive	RQMT_1127

crown-clinical-cpms.xsd	Hospitalization	hospitalAdmitInfoSource	HospitalAdmitInfoSource	Source of Hospital Admission Information	RQMT_1032
crown-clinical-cpms.xsd	Hospitalization	isTransplantReferral	xsd:boolean	Transplant Referral	RQMT_1128
crown-clinical-cpms.xsd	Hospitalization	isTransplantWaitlist	xsd:boolean	Transplant Waiting List	RQMT_1129
crown-clinical-cpms.xsd	Hospitalization	isPresumptiveDiagnosis	xsd:boolean	Hospitalization Due to Presumptive Diagnosis	RQMT_1130
crown-clinical-cpms.xsd	Vaccinations	hepatitisBVaccineNotGiven	xsd:boolean	Vaccination Exclusion Type	RQMT_1110
crown-clinical-cpms.xsd	Vaccinations	hepatitisB	HepatitisB	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	Vaccinations	hepatitisC	HepatitisC	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	Vaccinations	influenzaVaccineNotGiven	xsd:boolean	Vaccination Exclusion Type	RQMT_1110
crown-clinical-cpms.xsd	Vaccinations	influenza	Vaccination	Influenza Vaccination date	RQMT_990
crown-clinical-cpms.xsd	Vaccinations	PneumococcalVaccineNotGiven	xsd:boolean	Vaccination Exclusion Type	RQMT_1110
crown-clinical-cpms.xsd	Vaccinations	pneumococcal	Vaccination	Pneumococcal Vaccination date	RQMT_995
crown-clinical-cpms.xsd	Infection	infectionId	xsd:string	InfectionId	N/A
crown-clinical-cpms.xsd	Infection	confirmedDate	xsd:date	Date Vascular Access Infection Confirmed	RQMT_1057
crown-clinical-cpms.xsd	Infection	identification	ListedInfectionIdentification	Method of Identifying Vascular Access Infection	RQMT_1033
crown-clinical-cpms.xsd	Infection	infectionSource	InfectionSource	Source of Vascular Infection	RQMT_1037

crown-clinical-cpms.xsd	Infection	newSuspectedInfection	xsd:boolean	New Suspected Infection	RQMT_1063
crown-clinical-cpms.xsd	Infection	newlySuspectedDate	xsd:date	Date of Newly Suspected Infection	RQMT_1201
crown-clinical-cpms.xsd	Infection	infectionSite	AccessInfectionSite	Infection type	RQMT_1036
crown-clinical-cpms.xsd	Infection	outpatientAntibioticsAdminstered	xsd:boolean	Antibiotic Therapy Prescribed	RQMT_1040
crown-clinical-cpms.xsd	Infection	outpatientAntibiotics	OutpatientAntibiotics	Antibiotic Therapy Prescribed	RQMT_1040
crown-clinical-cpms.xsd	Infection	isHospitalizationReqd	xsd:boolean	Infection Requires Hospitalization	RQMT_1202
crown-clinical-cpms.xsd	IronCpm	ivPrescribed	xsd:boolean	Intravenous (IV) Iron Prescribed	RQMT_313
crown-clinical-cpms.xsd	IronCpm	ivIron	IVIron	Intravenous (IV) Iron	RQMT_981
crown-clinical-cpms.xsd	IronCpm	poPrescribed	xsd:boolean	Oral (PO) Iron Prescribed	RQMT_984
crown-clinical-cpms.xsd	IronCpm	poIron	POIron	Oral (PO) Iron	RQMT_985
crown-clinical-cpms.xsd	VitaminDCpm	nonOralPrescribed	xsd:boolean	Non-Oral Vitamin D Analog Prescribed	RQMT_1013
crown-clinical-cpms.xsd	VitaminDCpm	nonOralVitaminD	NonOralVitaminD	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	VitaminDCpm	oralPrescribed	xsd:boolean	Oral Vitamin D Analog Rx Prescribed	RQMT_1017
crown-clinical-cpms.xsd	VitaminDCpm	oralVitaminD	OralVitaminD	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	VitaminDCpm	parathyroidHormone	ParathyroidHormone	Serum Parathyroid Hormone Type (iPTH)	RQMT_1012

crown-clinical-cpms.xsd	NonOralVitaminD	analog	NonOralVitaminDAnalog	Non-oral Vitamin D Analog	RQMT_1014
crown-clinical-cpms.xsd	NonOralVitaminD	route	ListedDeliveryRouteOnly	Non-Oral Vitamin D Analog Route	RQMT_1016
crown-clinical-cpms.xsd	NonOralVitaminD	dose	xsd:decimal	Non-Oral Vitamin D Analog Rx Dose	RQMT_1015
crown-clinical-cpms.xsd	OralVitaminD	analog	OralVitaminDAnalog	Oral Vitamin D Analog	RQMT_1018
crown-clinical-cpms.xsd	OralVitaminD	dose	xsd:decimal	Vitamin D Analog Rx Dose	RQMT_1019
crown-clinical-cpms.xsd	OralVitaminD	doseMeasure	DoseMeasure	Vitamin D Analog Rx Dose Measure	RQMT_1019
crown-clinical-cpms.xsd	HKtVInfo	method	HKtVMethod	Kt/V Hemodialysis Method	RQMT_323
crown-clinical-cpms.xsd	HKtVInfo	hgt	Height	Patient Height	RQMT_338
crown-clinical-cpms.xsd	HKtVInfo	bun	Bun	N/A: Organize and support consistency among other data elements	N/A
crown-clinical-cpms.xsd	HKtVInfo	interdialyticTime	xsd:string	Interdialytic Time	RQMT_1059
crown-clinical-cpms.xsd	HKtVInfo	nPCR	NPCRValue	Normalized Protein Catabolic (nPCR) and Collection Date	RQMT_1009
					RQMT_1010
crown-clinical-cpms.xsd	HKtVInfo	residualUreaClearance	xsd:decimal	Residual Urea Clearance for HD	RQMT_1065
crown-clinical-cpms.xsd	Bun	bunPreDialysis	xsd:int	BUN Pre-Dialysis	RQMT_330
crown-clinical-cpms.xsd	Bun	preDialysisWgt	xsd:decimal	Pre-Dialysis Weight	RQMT_332

crown-clinical-cpms.xsd	Bun	preDialysisWgtUnit	WeightUnit	Pre-Dialysis Weight Unit of Measure	RQMT_333
crown-clinical-cpms.xsd	Bun	bunPostDialysis	xsd:int	BUN Post-Dialysis	RQMT_331
crown-clinical-cpms.xsd	Bun	postDialysisWgt	xsd:decimal	Post-Dialysis Weight	RQMT_334
crown-clinical-cpms.xsd	Bun	postDialysisWgtUnit	WeightUnit	Post-Dialysis Weight Unit of Measure	RQMT_335
crown-clinical-cpms.xsd	Bun	bunSessionMinutes	xsd:int	Delivered Minutes of BUN Hemodialysis Session	RQMT_337
crown-clinical-cpms.xsd	PKtVInfo	ktV	PKtV	Weekly Kt/V Peritoneal Dialysis	RQMT_325
crown-clinical-cpms.xsd	PKtVInfo	nPCR	NPCRValue	Normalized Protein Catabolic (nPCR) and Collection Date	RQMT_1009
					RQMT_1010
crown-clinical-cpms.xsd	PKtVInfo	dun	xsd:decimal	Dialysate Urea Nitrogen	RQMT_345
crown-clinical-cpms.xsd	PKtVInfo	urea	xsd:decimal	Urine Urea Nitrogen	RQMT_348
crown-clinical-cpms.xsd	PKtVInfo	ucr	xsd:decimal	Urine Creatinine	RQMT_349
crown-clinical-cpms.xsd	PKtVInfo	dcr	xsd:decimal	Dialysate Creatinine	RQMT_346
crown-clinical-cpms.xsd	PKtVInfo	serBun	xsd:int	Serum BUN	RQMT_350
crown-clinical-cpms.xsd	PKtVInfo	dialVol	xsd:int	Dialysate Volume	RQMT_344
crown-clinical-cpms.xsd	PKtVInfo	urineVol	xsd:int	Urine Volume	RQMT_347

crown-clinical-cpms.xsd	PKtVInfo	wgt	Weight	Clinic Weight	RQMT_340
crown-clinical-cpms.xsd	PKtVInfo	bsac	xsd:boolean	BSA Corrected	RQMT_342
crown-clinical-cpms.xsd	PKtVInfo	crc	CrcValue	Creatinine Clearance	RQMT_343
crown-clinical-cpms.xsd	PKtVInfo	hgt	Height	Patient Height	RQMT_338
crown-clinical-cpms.xsd	PKtV	value	xsd:decimal	Weekly Kt/V Peritoneal Dialysis	RQMT_325
crown-clinical-cpms.xsd	PKtV	date	xsd:date	Date of PD Adequacy Measurement	RQMT_324
crown-clinical-cpms.xsd	PKtV	method	PKtVMethod	Kt/V Peritoneal Dialysis Method	RQMT_326
crown-clinical-cpms.xsd	PKtV	bsaMethod	BsaMethod	Body Surface Area Method	RQMT_327
crown-clinical-cpms.xsd	PKtV	rrf	xsd:boolean	Residual Renal Function Assessed in Calculating Kt/V?	RQMT_328
crown-clinical-cpms.xsd	PKtV	pca	xsd:boolean	Treatment Changed?	RQMT_329
crown-clinical-cpms.xsd	BloodCulture	result	Polarity	Blood Culture Result	RQMT_1038
crown-clinical-cpms.xsd	BloodCulture	cultureDate	xsd:date	Blood Culture Date	RQMT_1132
crown-clinical-cpms.xsd	BloodCulture	organisms	xsd:string	Indicate Organism(s) of Positive Culture	RQMT_1039
crown-clinical-cpms.xsd	OutpatientAntibiotics	antibiotic	Prescription	Antibiotic Name	RQMT_1041
crown-clinical-cpms.xsd	OutpatientAntibiotics	sepsis	xsd:boolean	Symptoms of Clinical Sepsis	RQMT_1205

crown-clinical-cpms.xsd	OutpatientAntibiotics	softTissue	xsd:boolean	Signs of Soft Tissue Infection	RQMT_1206
crown-clinical-cpms.xsd	OutpatientAntibiotics	dialysate	ListedDialysisType	Peritoneal Dialysate Culture Result	RQMT_1207
crown-clinical-cpms.xsd	OutpatientAntibiotics	effluent	ListedEffluentType	Result of Peritoneal Dialysis Effluent Analysis	RQMT_1208
crown-clinical-cpms.xsd	OutpatientAntibiotics	bloodCulture	BloodCulture	Blood Culture Result	RQMT_1038
crown-clinical-cpms.xsd	OutpatientAntibiotics	hospitalizationDate	xsd:date	Infection Hospitalization Date	RQMT_1209
crown-clinical-cpms.xsd	ListedDialysateType		enumeration: true, false, absent	Peritoneal Dialysate Culture Result	RQMT_1207
crown-clinical-cpms.xsd	ListedVascularAccessType		enumeration: true, false, absent	Result of Peritoneal Dialysis Effluent Analysis	RQMT_1208
crown-clinical-cpms.xsd	HepatitisB	testType	HepBTestType	Hepatitis B Test Type (HBsAg)	RQMT_1000
crown-clinical-cpms.xsd	HepatitisB	testDate	xsd:date	Hepatitis B (HBsAg) Test Date	RQMT_1021
crown-clinical-cpms.xsd	HepatitisB	vaccinationDate1	xsd:date	Hepatitis B Vaccination Dates1	RQMT_1003
crown-clinical-cpms.xsd	HepatitisB	vaccinationDate2	xsd:date	Hepatitis B Vaccination Dates2	RQMT_1003
crown-clinical-cpms.xsd	HepatitisB	vaccinationDate3	xsd:date	Hepatitis B Vaccination Dates3	RQMT_1003
crown-clinical-cpms.xsd	HepatitisB	vaccinationDate4	xsd:date	Hepatitis B Vaccination Dates4	RQMT_1003
crown-clinical-cpms.xsd	HepatitisB	boosterDate1	xsd:date	Hepatitis B Booster Dates1	RQMT_1022
crown-clinical-cpms.xsd	HepatitisB	boosterDate2	xsd:date	Hepatitis B Booster Dates2	RQMT_1022

crown-clinical-cpms.xsd	HepatitisB	boosterDate3	xsd:date	Hepatitis B Booster Dates3	RQMT_1022
crown-clinical-cpms.xsd	HepatitisB	boosterDate4	xsd:date	Hepatitis B Booster Dates4	RQMT_1022
crown-clinical-cpms.xsd	HepatitisB	exclusion	Exclusion	Reason No Hepatitis B Immunization	RQMT_1110
crown-clinical-cpms.xsd	HepatitisB	exclusion.medical	ExclusionMedical	Hepatitis B Medical Reasons	RQMT_1111
crown-clinical-cpms.xsd	HepatitisB	exclusion.patient	ExclusionPatient	Hepatitis B Patient Reasons	RQMT_1111
crown-clinical-cpms.xsd	HepatitisB	antiHBs	AntiHBs	Anti-HBs (mIU/mL)	RQMT_1001
crown-clinical-cpms.xsd	AntiHBs	testResult	xsd:decimal	Anti-HBs	RQMT_1001
crown-clinical-cpms.xsd	AntiHBs	testDate	xsd:date	Anti-HBs Date Performed	RQMT_1002
crown-clinical-cpms.xsd	HepatitisC	testType	HepCTestType	Hepatitis C screening Tests	RQMT_1024
crown-clinical-cpms.xsd	HepatitisC	testDate	xsd:date	Hepatitis C Screening Test Date	RQMT_1025
crown-clinical-cpms.xsd	ParathyroidHormone	iPth	PTH	Serum Parathyroid Hormone Type (iPTH)	RQMT_1012
crown-clinical-cpms.xsd	ParathyroidHormone	collectionDate	xsd:date	Serum Parathyroid Hormone (PTH) Collection Date	RQMT_989
crown-clinical-cpms.xsd	ParathyroidHormone	pthValue	xsd:decimal	Serum Parathyroid Hormone (PTH) Value	RQMT_988
crown-clinical-cpms.xsd	NPCRValue	value	xsd:decimal	Normalized Protein Catabolic (nPCR) Rate	RQMT_1009
crown-clinical-cpms.xsd	NPCRValue	date	date	Normalized Protein Catabolic (nPCR) Collection Date	RQMT_1010

crown-clinical-cpms.xsd	VascularAccess	accessType	VascularAccessType	Access Type for Dialysis	RQMT_395
crown-clinical-cpms.xsd	VascularAccess	accessDate	xsd:date	Date Access Type for Dialysis Changed	RQMT_1138
crown-clinical-cpms.xsd	VascularAccess	dxSessDate	xsd:date	Date of Reported Dialysis Session	RQMT_399
crown-clinical-cpms.xsd	VascularAccess	avfCreateDate	xsd:date	AVF Creation Date	RQMT_1139
crown-clinical-cpms.xsd	VascularAccess	avfUseDate	xsd:date	AVF Usable Date	RQMT_401
crown-clinical-cpms.xsd	VascularAccess	avfMaturing	xsd:boolean	Maturing AVF Present?	RQMT_396
crown-clinical-cpms.xsd	VascularAccess	avfState	AvState	AV Fistula State	RQMT_402
crown-clinical-cpms.xsd	VascularAccess	avgMaturing	xsd:boolean	Maturing Graft Present?	RQMT_397
crown-clinical-cpms.xsd	VascularAccess	avgState	AvState	AV Graft State	RQMT_403
crown-clinical-cpms.xsd	VascularAccess	survey	xsd:boolean	Graft Survey	RQMT_408
crown-clinical-cpms.xsd	VascularAccess	exam	AnswerFrequencyA	Access Physical Examination	RQMT_404
crown-clinical-cpms.xsd	VascularAccess	ppp	AnswerFrequencyA	Pre Pump Pressure	RQMT_406
crown-clinical-cpms.xsd	VascularAccess	svp	AnswerFrequencyB	Static Venous Pressure	RQMT_409
crown-clinical-cpms.xsd	VascularAccess	dop	AnswerFrequencyB	Doppler	RQMT_411
crown-clinical-cpms.xsd	VascularAccess	iaf	AnswerFrequencyB	Intra-Access Flow	RQMT_413

crown-clinical-cpms.xsd	VascularAccess	action	Action {declare}	N/A - System Action	N/A
		"action" currently not used by the system except for Medication Allergy section			
crown-clinical-cpms.xsd	VascularAccessType	listed	ListedVascularAccessType	Access Type for Dialysis	RQMT_395
crown-clinical-cpms.xsd	VascularAccessType	other	xsd:string	Access Type for Dialysis	RQMT_395
		Other is not currently collected by the CROWN system for this field. Do not use.			
crown-clinical-cpms.xsd	ListedVascularAccessType		enumeration: AVOnly, AVFwAVG, AVFwCatheter, AVGonly, AVGwCatheter, CatheterOnly, PortOnly, Other	Access Type for Dialysis	RQMT_395
crown-clinical-cpms.xsd	AvState		enumeration: NotPresent, Created, Active, Inactive, Removed	AV Fistula State	RQMT_402
crown-clinical-cpms.xsd	AvState		enumeration: NotPresent, Created, Active, Inactive, Removed	AV Graft State	RQMT_403
crown-clinical-cpms.xsd	BPStatus		enumeration: Low, High, Deviation	Home Blood Pressure Status	RQMT_1119
crown-clinical-cpms.xsd	HospitalVisit		enumeration: ER, Hospitalization, ERResultingHospitalization	All Hospital Visits	RQMT_1026
crown-clinical-cpms.xsd	AdvanceDirective		enumeration: DNR, DNI	Advance Directive	RQMT_1127
crown-clinical-cpms.xsd	AccessInfectionSite		enumeration: Uncuffed, Fistula, Tunneled, Graft, Catheter, NotAccessRelated	Infection Type	RQMT_1036
crown-clinical-cpms.xsd	MedicationAllergy	listed	ListedMedicationAllergy	Medication Allergies	RQMT_1050
crown-clinical-cpms.xsd	MedicationAllergy	other	xsd:string	Other Medication Allergies	RQMT_1219
crown-clinical-cpms.xsd	MedicationAllergy	action	Action {declare}	N/A - System Action	N/A
		This is currently the only "action" used in the schema. (Simple Type)			

crown-clinical-cpms.xsd	ListedMedicationAllergy		enumeration: Epoetin alfa, Epoetin beta, Darbepoetin alfa, Iron dextran, Sodium ferric gluconate, Iron sucrose, Ferrous fumarate, Ferrous sulfate, Calcitriol, Paricalcitol, Doxercalciferol, None known	Medication Allergies	RQMT_1050
crown-clinical-cpms.xsd	ESAAgent	listed	ListedESAAgent	ESA Agent Prescribed	RQMT_976
crown-clinical-cpms.xsd	ESAAgent	other	xsd:string	Other ESA Agent	RQMT_1220
crown-clinical-cpms.xsd	ListedESAAgent		enumeration: Epoetin alfa, Epoetin beta, Darbepoetin alfa	ESA Agent Prescribed	RQMT_976
crown-clinical-cpms.xsd	HepBTestType	listed	ListedHepBTestType	Hepatitis B Test Type (HBsAg)	RQMT_1000
crown-clinical-cpms.xsd	HepBTestType	other	xsd:string	Other Hepatits B Test Type	RQMT_1224
crown-clinical-cpms.xsd	ListedHepBTestType		enumeration: HBsAG, Anti-HBc, Anti-HBs, IgM Anti-HBc	Hepatitis B Test Type	RQMT_1000
crown-clinical-cpms.xsd	HepCTestType	listed	ListedHepCTestType	Hepatitis C screening Tests	RQMT_1024
crown-clinical-cpms.xsd	HepCTestType	other	xsd:string	Other Hepatitis C Screening Tests	RQMT_1225
crown-clinical-cpms.xsd	ListedHepCTestType		enumeration: EIA, CIA, RIBA	Hepatitis C screening Tests	RQMT_1024
crown-clinical-cpms.xsd	Diagnosis	listed	ListedDiagnosis	Hospital Admission Diagnosis	RQMT_1029
crown-clinical-cpms.xsd	Diagnosis	other	xsd:string	Other Hospital Admission Diagnosis	RQMT_1222
crown-clinical-cpms.xsd	ListedDiagnosis		enumeration: Cardiovascular, Neurological, Musculoskeletal, Respiratory, Genitourinary, Gastrointestinal, Endocrine, Sepsis, Vascular Access, Other	Hospital Admission Diagnosis	RQMT_1029
crown-clinical-cpms.xsd	ListedDischargeDiagnosisType		enumeration: 042, 1890, 1899, 20280, 20300, 20308, 2230, 2293, 23951, 23952, 25040, 25041, 2700, 2718,	Hospital Discharge Diagnosis	RQMT_1030

2727, 27410, 27549, 2773,
28260, 28269, 28311, 2870,
40391, 4401, 4460, 44620,
44621, 4464, 5724, 5800,
58089, 5820, 5821, 5829,
5830, 5831, 58321, 58322,
5834, 5836, 58381, 58382,
58389, 5839, 58391, 58392,
5900, 5909, 5920, 5929,
59381, 59383, 59389, 5996,
64620, 7100, 7101, 7530,
75313, 75314, 75316, 75321,
75322, 75329, 7533, 75671,
7595, 7598, 75989, 7999,
8660, 9659, 9849, 99680,
99681, 99682, 99683, 99684,
99685, 99686, 99687, 99689

crown-clinical-cpms.xsd	ListedInfectionIdentification		enumeration: Clinical suspicion, Previous facility	Method of Identifying Vascular Access Infection	RQMT_1033
crown-clinical-cpms.xsd	IVIron	listed	ListedIVIron	Intravenous (IV) Iron	RQMT_981
crown-clinical-cpms.xsd	IVIron	other	xsd:string	Other Intravenous (IV) Iron	RQMT_1227
crown-clinical-cpms.xsd	IVIron	dose	xsd:decimal	(IV)Iron Dose	RQMT_982
crown-clinical-cpms.xsd	IVIron	doseMeasure	DoseMeasure	Other Iron Dose Measure	RQMT_1227
crown-clinical-cpms.xsd	IVIron	date	xsd:date	Iron Dose Date	
crown-clinical-cpms.xsd	ListedIVIron		enumeration: Dextran, Gluconate, Sucrose	Intravenous (IV) Iron	RQMT_981
crown-clinical-cpms.xsd	POIron	listed	ListedPOIron	Oral (PO) Iron	RQMT_985
crown-clinical-cpms.xsd	POIron	other	xsd:string	Other Oral (PO) Iron	RQMT_1228
crown-clinical-cpms.xsd	POIron	dose	xsd:string	Oral (PO) Iron Dose	RQMT_986

crown-clinical-cpms.xsd	POIron	doseMeasure	DoseMeasure {mg}	Oral (PO) Iron Dose	RQMT_986
crown-clinical-cpms.xsd	ListedPOIron		enumeration: Fumarate, Sulfate, Gluconate	Oral (PO) Iron	RQMT_985
crown-clinical-cpms.xsd	NonOralVitaminDAnalog	listed	ListedNonOralVitaminDAnalog	Non-Oral Vitamin D Analog	RQMT_1014
crown-clinical-cpms.xsd	NonOralVitaminDAnalog	other	xsd:string	Other Non-Oral Vitamin D Analog	RQMT_1230
crown-clinical-cpms.xsd	ListedNonOralVitaminDAnalog		enumeration: Calcitriol, Doxercalciferol, Paricalcitol	Non-Oral Vitamin D Analog	RQMT_1014
crown-clinical-cpms.xsd	OralVitaminDAnalog	listed	ListedOralVitaminDAnalog	Oral Vitamin D Analog	RQMT_1018
crown-clinical-cpms.xsd	OralVitaminDAnalog	other	xsd:string	Other Oral Vitamin D Analog	RQMT_1231
crown-clinical-cpms.xsd	ListedOralVitaminDAnalog		enumeration: Calderol, DeltaD3, DHT Intensol, DHT, Drisdol, Hectorol, Rocaltrol, D3, D2, Zemplar	Oral Vitamin D Analog	RQMT_1018
crown-clinical-cpms.xsd	HKtVMethod	listed	ListedHKtVMethod	Kt/V Hemodialysis Method	RQMT_323
crown-clinical-cpms.xsd	HKtVMethod	other Other is not currently collected by the CROWN system for this field. Do not use.	xsd:string	Kt/V Hemodialysis Method	RQMT_323
crown-clinical-cpms.xsd	ListedHKtVMethod		enumeration: UKM, Daugirdas2, Depner, URR	Kt/V Hemodialysis Method	RQMT_323
crown-clinical-cpms.xsd	PKtVMethod	listed	ListedPKtVMethod	Kt/V Peritoneal Dialysis Method	RQMT_326
crown-clinical-cpms.xsd	PKtVMethod	other Other is not currently collected by the CROWN system for this field. Do not use.	xsd:string	Kt/V Peritoneal Dialysis Method	RQMT_326

crown-clinical-cpms.xsd	ListedPKtVMethod		enumeration: PercentBodyWgt, Hume, Watson	Kt/V Peritoneal Dialysis Method	RQMT_326
crown-clinical-cpms.xsd	PTH	listed	ListedPTH	Serum Parathyroid Hormone Type (iPTH)	RQMT_1012
crown-clinical-cpms.xsd	PTH	other	xsd:string	Other Serum Parathyroid Hormone Type (iPTH)	
crown-clinical-cpms.xsd	ListedPTH		enumeration: iPTH, NA	Serum Parathyroid Hormone Type (iPTH)	RQMT_1012
crown-clinical-cpms.xsd	InfectionSource	listed	ListedInfectionSource	Source of Vascular Infection	RQMT_1037
crown-clinical-cpms.xsd	InfectionSource	other	xsd:string	Other Source of Vascular Infection	RQMT_1236
crown-clinical-cpms.xsd	ListedInfectionSource		enumeration: Blood, Wound, Vascular access	Source of Vascular Infection	RQMT_1037
crown-clinical-cpms.xsd	LabValues	hgb	HgbValue	Hemoglobin	RQMT_303
crown-clinical-cpms.xsd	LabValues	fer	FerValue	Serum Ferritin	RQMT_307
crown-clinical-cpms.xsd	LabValues	tsat	TsatValue	Iron Saturation (TSAT) Percentage	RQMT_309
crown-clinical-cpms.xsd	LabValues	chr	ChrValue	Reticulocyte Hemoglobin (CHr)	RQMT_311
crown-clinical-cpms.xsd	LabValues	phos	PhosValue	Serum Phosphorus	RQMT_315
crown-clinical-cpms.xsd	LabValues	cca	CcaValue	Corrected Serum Calcium	RQMT_317
crown-clinical-cpms.xsd	LabValues	uca	UcaValue	Uncorrected Serum Calcium	RQMT_319
crown-clinical-cpms.xsd	LabValues	alb	AlbValue	Serum Albumin	RQMT_296

crown-clinical-cpms.xsd	LabValues	cre	CreValue	Serum Creatinine	RQMT_300
crown-clinical-cpms.xsd	HgbValue	value	DecimalDateGroup	Hemoglobin Value	RQMT_303
crown-clinical-cpms.xsd	HgbValue	date	DecimalDateGroup	Hemoglobin Collection Date	RQMT_304
crown-clinical-cpms.xsd	FerValue	value	IntDateGroup	Serum Ferritin Value	RQMT_307
crown-clinical-cpms.xsd	FerValue	date	IntDateGroup	Serum Ferritin Collection Date	RQMT_308
crown-clinical-cpms.xsd	TsatValue	value	IntDateGroup	Iron Saturation (TSAT) Percentage Value	RQMT_309
crown-clinical-cpms.xsd	TsatValue	date	IntDateGroup	Iron Saturation (TSAT) Percentage Collection Date	RQMT_310
crown-clinical-cpms.xsd	ChrValue	value	IntDateGroup	Reticulocyte Hemoglobin (CHR) Value	RQMT_311
crown-clinical-cpms.xsd	ChrValue	date	IntDateGroup	Reticulocyte Hemoglobin (CHR) Collection Date	RQMT_312
crown-clinical-cpms.xsd	PhosValue	value	DecimalDateGroup	Serum Phosphorus Value	RQMT_315
crown-clinical-cpms.xsd	PhosValue	date	DecimalDateGroup	Serum Phosphorus Collection Date	RQMT_316
crown-clinical-cpms.xsd	CcaValue	value	DecimalDateGroup	Corrected Serum Calcium Value	RQMT_317
crown-clinical-cpms.xsd	CcaValue	date	DecimalDateGroup	Corrected Serum Calcium Collection Date	RQMT_318
crown-clinical-cpms.xsd	UcaValue	value	DecimalDateGroup	Uncorrected Serum Calcium Value	RQMT_319
crown-clinical-cpms.xsd	UcaValue	date	DecimalDateGroup	Uncorrected Serum Calcium Collection Date	RQMT_320

crown-clinical-cpms.xsd	AlbValue	method	AlbMethod	Lab Method (for Serum Albumin)	RQMT_299
crown-clinical-cpms.xsd	AlbValue	lowValue	xsd:decimal	Serum Albumin Lower Limit	RQMT_298
crown-clinical-cpms.xsd	AlbValue	value	DecimalDateGroup	Serum Albumin Value	RQMT_296
crown-clinical-cpms.xsd	AlbValue	date	DecimalDateGroup	Serum Albumin Collection Date	RQMT_297
crown-clinical-cpms.xsd	CreValue	value	DecimalDateGroup	Serum Creatinine Value	RQMT_300
crown-clinical-cpms.xsd	CreValue	date	DecimalDateGroup	Serum Creatinine Collection Date	RQMT_301
crown-clinical-cpms.xsd	CrcValue	value	xsd:decimal	Creatinine Clearance	RQMT_343
crown-clinical-cpms.xsd	CrcValue	unit	CrcUnit	Creatinine Clearance Method	RQMT_746
crown-clinical-cpms.xsd	AlbMethod		enumeration: BCG, BCP	Lab Method (for Serum Albumin)	RQMT_299
crown-clinical-cpms.xsd	BsaMethod	listed	ListedBsaMethod	Body Surface Area Method	RQMT_327
crown-clinical-cpms.xsd	BsaMethod	other Other is not currently collected by the CROWN system for this field. Do not use.	xsd:string	Body Surface Area Method	RQMT_327
crown-clinical-cpms.xsd	ListedBsaMethod		enumeration: DuBoisDuBois	Body Surface Area Method	RQMT_327
crown-clinical-cpms.xsd	CrcUnit		enumeration: LWK, LWK173M2	Creatinine Clearance Method	RQMT_746
crown-global.xsd	Address	street1	NonEmptyString	Patient Street Address (Mailing)	RQMT_123

crown-global.xsd	Address	street1	NonEmptyString	Patient Address (Physical)	RQMT_139
crown-global.xsd	Address	street2	NonEmptyString	Patent Street Address 2 (Mailing)	RQMT_124
crown-global.xsd	Address	street2	NonEmptyString	Patient Address 2 (Physical)	RQMT_140
crown-global.xsd	Address	city	NonEmptyString	Patient City (Mailing)	RQMT_125
crown-global.xsd	Address	city	NonEmptyString	Patient City (Physical)	RQMT_141
crown-global.xsd	Address	state	State	Patient State of Residence	RQMT_122
crown-global.xsd	Address	state	State	(Mailing) and (Physical)	RQMT_138
crown-global.xsd	Address	zip	ZipCode	Patient Zip Code (Mailing)	RQMT_126
crown-global.xsd	Address	zip	ZipCode	Patient Zip Code (Physical)	RQMT_143
crown-global.xsd	Address	zipExt	ZipCodeExt	Patient + 4 Zip Code (Mailing)	RQMT_127
crown-global.xsd	Address	zipExt	ZipCodeExt	Patient + 4 Zip Code (physical)	RQMT_144
crown-global.xsd	Address	county	NonEmptyString	Patient County (Physical)	RQMT_142
crown-global.xsd	Address	addressType	AddressType	N/A: Organize and support consistency among other data elements.	N/A
crown-global.xsd	AreaCode		xsd:string	Phone Number Area code	Unavailable
crown-global.xsd	DialysisPeriod		enumeration: Day, Nocturnal	Dialysis Time Period	RQMT_1073

crown-global.xsd	IntervalUnit		enumeration: DHM, Hours, Minutes	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	MonthYearGroup	month	Month	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	MonthYearGroup	year	xsd:int	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Period		MonthYearGroup	N/A: Organize and support consistency among other data elements.	N/A
crown-global.xsd	Period	date	xsd:date	N/A: Organize and support consistency among other data elements.	N/A
crown-global.xsd	Phone	areaCode	AreaCode	Phone Number Area code	Unavailable
crown-global.xsd	Phone	phoneNumber	PhoneNumber	Patient Home Phone Number	RQMT_145
crown-global.xsd	Phone	phoneNumber	PhoneNumber	Patient Work Phone Number	RQMT_146
crown-global.xsd	Phone	phoneNumber	PhoneNumber	Patient Cell Phone Number	RQMT_148
crown-global.xsd	Phone	ext	NonEmptyString	Phone Number Extension	Unavailable
crown-global.xsd	Phone	type	PhoneType	N/A: Organize and support consistency among other data elements.	N/A
crown-global.xsd	PhoneNumber		xsd:string	Patient Home Phone Number	RQMT_145
crown-global.xsd	PhoneNumber		xsd:string	Patient Work Phone Number	RQMT_146
crown-global.xsd	PhoneNumber		xsd:string	Patient Cell Phone Number	RQMT_148
crown-global.xsd	Height	value	xsd:decimal	Patient Height	RQMT_338

crown-global.xsd	Height	unit	LengthSmallUnit	Patient Height Unit of Measure	RQMT_339
crown-global.xsd	Weight	value	xsd:decimal	Pre-Dialysis Weight	RQMT_332
crown-global.xsd	Weight	unit	WeightUnit	Pre-Dialysis Weight Unit of Measure	RQMT_333
crown-global.xsd	ZipCode		xsd:string	Address Zip Code	Unavailable
crown-global.xsd	ZipCodeExt		xsd:string	Zip code extension	Unavailable
crown-global.xsd	Exclusion	medical	ExclusionMedical	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Exclusion	patient	ExclusionPatient	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ExclusionMedical		enumeration: Allergic, Adverse, OtherMedical	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ExclusionPatient		enumeration: Cultural, Patient	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Vaccination	whenGiven	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Vaccination	month	Month	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Vaccination	year	xsd:int	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Vaccination	whereGiven	OnOffSite	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Vaccination	exclusion	Exclusion	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Prescription	agent	xsd:string	N/A: Organize and support consistency among other data elements	N/A

crown-global.xsd	Prescription	rxDate	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Prescription	frequency	DoseFrequency	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Prescription	route	MedicationRoute	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Prescription	dose	xsd:decimal	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Prescription	doseMeasure	DoseMeasure	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	SelfCareSetting		enumeration: Home, Incenter	Expected Self-Care Setting	RQMT_1070
crown-global.xsd	DoseMeasure	listed	ListedDoseMeasure	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	DoseMeasure	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedDoseMeasure		enumeration: units, IU, mcg, mg, g, Other	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	DoseFrequency	listed	ListedDoseFrequency	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	DoseFrequency	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedDoseFrequency		enumeration: QID, TID, BID, Daily, Weekly, Other	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	MedicationRoute	route	ListedMedicationRoute	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	MedicationRoute	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedMedicationRoute		enumeration: Oral, IV, IM, Other	N/A: Organize and support consistency among other data elements	N/A

crown-global.xsd	DeliveryRoute	listed	ListedDeliveryRoute	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	DeliveryRoute	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedDeliveryRoute		enumeration: IVP, SC, Other	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedDeliveryRouteOnly		enumeration: IVP, SC	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	LabMeasure	listed	ListedLabMeasure	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	LabMeasure	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedLabMeasure		enumeration: pg/mL, g/kg/day, mEq/L, g/dl, mg/dl, Other	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	HospitalAdmitInfoSource	listed	ListedHospitalAdmitInfoSource	Source of Hospital Admission Information	RQMT_1032
crown-global.xsd	HospitalAdmitInfoSource	other	xsd:string	Source of Hospital Admission Information	RQMT_1032
crown-global.xsd	ListedHospitalAdmitInfoSource		enumeration: Database, Patient, Other	Source of Hospital Admission Information	RQMT_1032
crown-global.xsd	AddressType		enumeration: Mailing, Physical	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	NPI		xsd:string	National Provider Identifier (NPI)	RQMT_12
crown-global.xsd	NonEmptyString		xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	UPIN		xsd:string	Personnel UPIN	RQMT_93
crown-global.xsd	Action		enumeration: declare, update, remove, retrieve	N/A - System Action	N/A

crown-global.xsd	SimpleAction		enumeration: declare, remove	N/A - System Action	N/A
crown-global.xsd	Country		values documented externally	Patient Country/Area of Origin or Ancestry	RQMT_747
crown-global.xsd	LengthSmallUnit		enumeration: Inch, Centimeter	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	Month		enumeration: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	OnOffSite		enumeration: Onsite, Offsite	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	OrganizationAffiliation		xsd: string	Organizational Affiliation	N/A
crown-global.xsd	PhoneType		enumeration: Work, Tel, Fax, Mobile, Pager, Other	Patient Home Phone Number	RQMT_145
crown-global.xsd	PhoneType		enumeration: Work, Tel, Fax, Mobile, Pager, Other	Patient Work Phone Number	RQMT_146
crown-global.xsd	PhoneType		enumeration: Work, Tel, Fax, Mobile, Pager, Other	Patient Cell Phone Number	RQMT_148
crown-global.xsd	Polarity		enumeration: Positive, Negative, Unknown	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	State		values documented externally	Patient State of Residence (Mailing)	RQMT_122
crown-global.xsd	State		values documented externally	Patient State of Residence (Physical)	RQMT_138
crown-global.xsd	WeightUnit		enumeration: Pound, Kilogram	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	DialysisType	listed	ListedDialysisType	Type of Training	RQMT_367
crown-global.xsd	DialysisType	other	xsd:string	Type of Training	RQMT_367

crown-global.xsd	ListedDialysisType		enumeration: Hemodialysis, CAPD, CCPD, Other	Type of Training	RQMT_367
crown-global.xsd	MedicareEnrollmentStatus		enumeration: Pending, NoCoverage, Coverage	Medicare Enrollment Status	RQMT_1071
crown-global.xsd	AnswerFrequencyA	answered	xsd:boolean	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	AnswerFrequencyA	freq	FrequencyA	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	FrequencyA	listed	ListedFrequencyA	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	FrequencyA	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedFrequencyA		enumeration: PerTreatment, Weekly, Monthly	Access Physical Examination Frequency	RQMT_405
crown-global.xsd	ListedFrequencyA		enumeration: PerTreatment, Weekly, Monthly	Pre Pump Pressure Frequency	RQMT_407
crown-global.xsd	AnswerFrequencyB	answered	xsd:boolean	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	AnswerFrequencyB	freq	FrequencyB	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	FrequencyB	listed	ListedFrequencyB	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	FrequencyB	other	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	ListedFrequencyB		enumeration: BiWeekly, Quarterly, Monthly	Static Venous Pressure Frequency	RQMT_410
crown-global.xsd	ListedFrequencyB		enumeration: BiWeekly, Quarterly, Monthly	Doppler Frequency	RQMT_412
crown-global.xsd	DecimalDateGroup	value	xsd:decimal	N/A: Organize and support consistency among other data elements	N/A

crown-global.xsd	DecimalDateGroup	date	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	IntDateGroup	value	xsd:int	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	IntDateGroup	date	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	BooleanDateGroup	value	xsd:boolean	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	BooleanDateGroup	date	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	StringDateGroup	value	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-global.xsd	StringDateGroup	date	xsd:date	N/A: Organize and support consistency among other data elements	N/A
crown-feedback.xsd	errorsType	error	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-feedback.xsd	warningsType	warning	xsd:string	N/A: Organize and support consistency among other data elements	N/A
crown-feedback.xsd	errorsType	code	xsd:string	Error Code for Error	N/A
crown-feedback.xsd	warningsType	code	xsd:string	Error Code for Warning	N/A
crown-attestation.xsd	OrganizationAffiliation	orgAffiliation	xsd:string	Organization's Affiliation Code (currently only 1,2,3 and 125 are used) for Batch/NwHIN submitters.	RQMT_1135
crown-attestation.xsd	Performance Year	performanceYear	xsd:string	Year to be reported (YYYY)	RQMT_1268
crown-attestation.xsd	Facility Attestation	orgFacilityCode	xsd:string	CROWN Facility Unique Identifier - provided by facility	RQMT_14
crown-attestation.xsd	Measurement	measurementType	enumeration: MM, CAHPS	MM = Mineral Metabolism, CAHPS = Consumer Assessment of Healthcare Providers and Systems	N/A
crown-attestation.xsd	Measurement	response	enumeration: Y, N, NA	Attestation Response (Y, N or NA)	RQMT_1269 RQMT_1270

crown-attestation.xsd	Measurement	naReason	enumeration: Pediatric Only, No ICH	Listed N/A Reasons (for use with CAHPS only)	RQMT_1271
crown-attestation.xsd	Measurement	onBehalfOf	xsd:string	Personnel UPI of who the submission is being submitted on behalf of. Should be submitted for both questions.	RQMT_84

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6.1.5. COMMUNICATION METHODS

All EDI transmissions are completed within the CROWNWeb system domain.

6.1.5.1 INTERFACE INITIATION

All EDI transmissions are completed within the CROWNWeb system domain.

6.1.5.2 FLOW CONTROL

Results of successful submissions and those containing errors are reported to the user immediately upon the completion of processing for an uploaded EDI submission. The results for Patient submissions can be reviewed within the Patient Processing Summary tab and for Clinical submissions, within the Clinical Processing Summary tab of the CROWNWeb system.

6.1.6 SECURITY REQUIREMENTS

Batch submitters and batch submitting organizations (BSOs) shall meet the standards defined by CMS in order to submit files via EDI to the CROWNWeb system. Uploaded files are secured by a VPN and a CROWNWeb login containing a user role allowing the user to submit files via EDI.

6.2 CROWNWEB REQUIREMENTS

All EDI transmissions are completed within the CROWNWeb system domain adhering to the defined CROWNWeb system requirements.

7. QUALIFICATION METHODS

The qualification of the success of the interface has been demonstrated by the existing method.

Future qualification for subsequent releases shall be tested, analyzed, and demonstrated using a real time implementation.

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8. GLOSSARY

A Master CMS glossary is maintained in a separate tracking tool to ensure consistency in understanding and communications. The baseline of the glossary was extracted from the CMS Glossary Tool located at <http://www.cms.gov/apps/glossary/>.

Term	Definition
CROWN	In support of the CMS ESRD community, CMS created the Program Management and Medical Information System (PMMIS). The PMMIS is the system of records for the CMS ESRD data, and is maintained by means of a CROWN suite of systems. CROWN refers to any and all components of the suite of ESRD systems – the Renal Management Information System (REMIS), the Standard Information Management System (SIMS), CROWNWeb, COGNOS Reporting Tool, QualityNet Identity Management System (QIMS), and all related databases and architecture.
CROWNWeb	CROWNWeb refers to the web-based system that CMS authorized the design and implementation of in support of the Conditions for Coverage for ESRD Facilities. CROWNWeb accepts administrative and clinical data electronic submissions from dialysis facilities. In addition, CROWNWeb supports the electronic collection and reporting of ESRD data.

9. ACRONYMS

A Master CMS acronym list is maintained in a separate tracking tool to ensure consistency in understanding and communications. Acronyms are used consistently throughout all ESRD projects. The baseline of the acronyms was extracted from the CMS Acronyms Tool located at <http://www.cms.gov/apps/acronyms/>.

BSO	Batch Submitting Organization
CROWNWeb	Consolidated Renal Operations in a Web-Enabled Network
EDI	Electronic Data Interchange
ESRD	End Stage Renal Disease
GUI	Graphical User Interface
ICD	Interface Control Document
ISG	Information System Group
KDD	Kidney Data Directory
OCSQ	Office of Clinical Standards and Quality
TRA	Technical Reference Architecture
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
VPN	Virtual Private Network
XML	eXtensible Markup Language
XSD	XML Schema Document

10. APPENDIX A

CROWNWeb 4.1 - PATIENT ERROR MESSAGES & CODES				
ERROR CODE	MESSAGE	CATEGORY	IS WARNING	SCHEMA ONLY VALIDATION
100	Patient could not be processed due to possible matches	Patient	NO	NO
200	PatientIdentifier, address, and race elements cannot be processed since the patient is not actively admitted by the facility managed by this organization	Patient	YES	NO
203	Date of Death ({0}) is not equal to Death Discharge Date ({0}).	Patient	YES	NO
204	Admission process cancelled, Patient is already admitted to current facility.	Patient	NO	NO
301	Patient Treatment is matched as per Treatment Start Date and DialysisSettingType modified from ({0}).	Patient	YES	NO
302	Patient Treatment is matched as per Treatment Start Date and DialysisType modified from ({0}).	Patient	YES	NO
400	Could not find an unique facility with the given orgFacilityCode <organization facility code>	Patient	NO	NO
401	Could not find an unique patient with the given orgPatientId <organization patient identifier>	Patient	NO	NO
11101	Physical Address is incomplete - missing Line One	Patient	NO	YES
11102	Physical Address is incomplete - missing Zip Code.	Patient	NO	YES
11103	Physical Address is incomplete - missing City.	Patient	NO	YES
11104	Physical Address is incomplete - missing State.	Patient	NO	YES
11105	Physical Address Zip Code must be 5 digits.	Patient	NO	YES
11106	Physical Address Zip Code Extension must be 4 digits.	Patient	NO	YES
11111	Mailing Address is incomplete - missing Line One.	Patient	NO	YES
11112	Mailing Address is incomplete - missing Zip Code.	Patient	NO	YES
11113	Mailing Address is incomplete - missing City.	Patient	NO	YES
11114	Mailing Address is incomplete - missing State.	Patient	NO	YES
11115	Mailing Address Zip Code must be 5 digits.	Patient	NO	YES
11116	Mailing Address Zip Code Extension must be 4 digits.	Patient	NO	YES
11131	Transient Address is incomplete - missing Line One.	Patient	NO	YES
11132	Transient Address is incomplete - missing Zip Code.	Patient	NO	YES

11133	Transient Address is incomplete - missing City.	Patient	NO	YES
11134	Transient Address is incomplete - missing State.	Patient	NO	YES
11135	Transient Address Zip Code must be 5 digits.	Patient	NO	YES
11136	Transient Address Zip Code Extension must be 4 digits.	Patient	NO	YES
11141	Transient Phone Number is a required field.	Patient	NO	YES
11142	Transient Area code is a required field	Patient	NO	YES
11143	Transient Phone Number must be 7 digits and may include a hyphen after the 3rd digit.	Patient	NO	YES
11144	Transient Area Code must be 3 digits.	Patient	NO	YES
11145	Transient Reason is a required field.	Patient	NO	NO
11146	A 'New ESRD Patient' Admission may not be Transient.	Patient	NO	NO
11151	Area code is a required field.	Patient	NO	YES
11152	Area code must be 3 digits.	Patient	NO	YES
11153	Phone Number is a required field.	Patient	NO	YES
11154	Phone Number must be 7 digits and may include a hyphen after the 3rd digit.	Patient	NO	YES
11161	Effective Date cannot be future Date.	Patient	NO	NO
11171	Date of Birth must be after 1/1/1850.	Patient	NO	NO
11172	Date of Birth cannot be future Date.	Patient	NO	NO
11173	Date of Death cannot be prior to the patient's Date of Birth ({0}).	Patient	NO	NO
11174	Date of Death cannot be a future date.	Patient	NO	NO
11175	Date of Death must be after 1/1/1850.	Patient	NO	NO
11176	Date of Death must be greater than or equal to Date Regular Chronic Dialysis Began.	Patient	NO	NO
11177	Date of Death must be greater than or equal to Last Dialysis Treatment.	Patient	NO	NO
11178	Date of Death must be greater than or equal to Date of Most Recent Transplant.	Patient	NO	NO
11179	Date of Death must be greater than or equal to Patient Most Recent Admit Date.	Patient	NO	NO
11182	Name of Enrolled/Principal Tribe is missing	Patient	YES	NO
11183	Patient first name is required	Patient	NO	YES
11184	Patient last name is required	Patient	NO	YES
11185	Physical Address is incomplete - missing State.	Patient	NO	NO
11186	Mailing Address is incomplete - missing State.	Patient	NO	NO

11191	Medicare Claim Number must be 10 or 11 characters with first character as A-G; number or/and 2-9 characters as numbers and a valid Beneficiary Identification Code (BIC) at the end	Patient	NO	YES
11192	Invalid SSN.	Patient	NO	NO
11193	Medicare Claim Number has an invalid Beneficiary Identification Code (BIC)	Patient	NO	NO
11201	Discharge Date cannot be a future date.	Patient	NO	NO
11202	Discharge Date cannot be prior to the patient's Date of Birth({0}).	Patient	NO	NO
11204	The admission facility is not an open facility as of the entered Discharge Date.	Patient	NO	NO
11205	Discharge Date must be on or after the Admit Date({0}).	Patient	NO	NO
11206	Discharge Date cannot be prior to the patients last treatment date({0}).	Patient	NO	NO
11207	Discharge Date cannot be after the patient's next admission record's Admit Date with the same Transient Status ({0})	Patient	NO	NO
11208	Discharge Date must be on or after 1/1/1973	Patient	NO	NO
11209	The admission facility is not an open facility as of the entered Discharge Date.	Patient	NO	NO
11211	Admit Date cannot be a future date.	Patient	NO	NO
11212	Admit Date cannot be prior to the patient's Date of Birth({0}).	Patient	NO	NO
11213	Invalid Admit Date: An exact match patient was found and the Admit Date is after the patient's Date of Death ({0}).	Patient	NO	NO
11214	The admission facility is not an open facility as of the entered Admit Date.	Patient	NO	NO
11216	Invalid Admit Date: An exact match patient was found and the Admit Date is more than 5 days prior to the patient's previous admission record's Discharge Date with the same Transient Status ({0}).	Patient	NO	NO
11217	Admit Date must be on or after 1/1/1973.	Patient	NO	NO
11221	Invalid Admit Reason: An exact match patient was found and the Admit Reason selected is invalid based on the next admission record's Admit Reason with the same Transient Status ({0}).	Patient	NO	NO
11222	Invalid Admit Reason: An exact match patient was found and the Admit Reason selected is invalid based on the previous admission record's Admit Reason with the same Transient Status ({0}).	Patient	NO	NO
11223	Invalid Admit Reason for a dialysis facility admission.	Patient	NO	YES
11224	Invalid Admit Reason for a transplant facility admission.	Patient	NO	YES
11225	Invalid Admit Reason: An exact match patient was found and the Admit Reason selected is invalid based on the previous admission record's Discharge Reason with the same Transient Status ({0}).	Patient	NO	NO
11231	Invalid Discharge Reason for a dialysis facility admission.	Patient	NO	YES
11232	Invalid Discharge Reason for a transplant facility admission.	Patient	NO	YES
11233	Invalid Discharge Reason: The Discharge Reason selected is invalid based on the next admission records Admit Reason with the same Transient Status ({0}).	Patient	NO	NO

11234	Invalid Discharge Reason: The Discharge Reason selected is invalid based on the admission records Admit Reason ({0}).	Patient	NO	YES
11242	Primary Type of Treatment is required.	Patient	NO	YES
11251	Attending Practitioner is required.	Patient	YES	NO
11252	Primary Dialysis Setting is required.	Patient	NO	YES
11253	Time Per Session is required.	Patient	YES	NO
11254	Valid range for Time Per Session is 60 - 600.	Patient	NO	NO
11255	Sessions Per Week is required.	Patient	YES	NO
11256	Valid range for Sessions Per Week is 1.0 - 7.0.	Patient	NO	NO
11258	Physician first name is required.	Patient	YES	YES
11259	Physician last name is required.	Patient	YES	YES
11261	Treatment Start Date must be on or after the Admit Date ({0}).	Patient	NO	NO
11262	Treatment Start Date cannot be a future date.	Patient	NO	NO
11263	Treatment Start Date cannot be prior to the patient's Date of Birth ({0}).	Patient	NO	NO
11265	The admission facility is not an open facility as of the entered Treatment Start Date.	Patient	NO	NO
11267	Treatment Start Date cannot be after the Discharge Date ({0}).	Patient	NO	NO
11268	Treatment Start Date must be after 1/1/1973.	Patient	NO	NO
11281	Admit/discharge required.	Patient	NO	NO
11283	Transfer Discharge Subcategory is required.	Patient	YES	NO
11284	Involuntary Discharge Subcategory is required.	Patient	YES	NO
11285	Treatment required for admit/discharge.	Patient	NO	NO
11288	Attending Practitioner's UPIN or NPI is mandatory	Patient	YES	NO
11290	Transient Status is required.	Patient	NO	YES
11293	Discharge Date is required.	Patient	NO	NO
11295	Race has been entered. Patient's Self Reporting of Race and Ethnicity is Required.	Patient	NO	YES
11296	Race has been entered. Ethnicity is Required.	Patient	NO	NO
11297	Medicare Enrollment Status must be Medicare Coverage when Medicare Claim Number is populated.	Patient	NO	NO
11298	Medicare Claim Number is Required if Current Medical Coverage is Medicare.	Patient	NO	NO
11299	Non U.S. Citizen is not a valid value when Medicare Enrollment Status is Medicare.	Patient	NO	NO

11300	Foreign National US Resident is not a valid value when Medicare Enrollment Status is Medicare.	Patient	NO	NO
11301	Non U.S. Citizen is not a valid value when Medicare Enrollment Status is Medicare Application Pending.	Patient	NO	NO
11302	Foreign National US Resident is not a valid value when Medicare Enrollment Status is Medicare Application Pending.	Patient	NO	NO
11304	{0} Phone Number is incomplete - missing {1}.	Patient	NO	YES
11307	Dialysis Training Begin Date is mandatory when Dialysis Training End Date is populated.	Patient	NO	NO
11308	Dialysis Training Begin Date is mandatory.	Patient	NO	NO
11309	Dialysis Training Begin Date cannot be a future date.	Patient	NO	NO
11310	Dialysis Training Begin Date must be on or after 01/01/1973.	Patient	NO	NO
11311	Dialysis Training Begin Date cannot be prior to the patient's Date of Birth ({0}).	Patient	NO	NO
11312	Dialysis Training Begin Date cannot be after the patient's Date of Death ({0}).	Patient	NO	NO
11313	Dialysis Training End Date must be on or after 01/01/1973.	Patient	NO	NO
11314	Dialysis Training End Date cannot be prior to the patient's Date of Birth ({0}).	Patient	NO	NO
11315	Dialysis Training End Date cannot be after the patient's Date of Death ({0}).	Patient	NO	NO
11316	Dialysis Training End Date cannot be prior to the Dialysis Training Begin Date ({0}).	Patient	NO	NO
11322	Transient status required for admit	Patient	NO	YES
11324	Submitter is not mapped to Facility: {0}	Patient	NO	NO
13457	Org Patient Id exceeds allowed length of 30	Patient	NO	NO
13458	Medicare Enrollment Status is required.	Patient	NO	NO
13459	Dialysis Time Period is mandatory when Primary Type of Treatment is Hemodialysis and Sessions Per Week is greater than 4.	Patient	NO	NO
13460	Expected Self-Care Setting is mandatory when Sessions Per Week is greater than 4.	Patient	NO	NO
13465	The effective date for a change to patient employment status must be after the most recent, previous change to this patient attribute. Please use the Patient Attribute History page to view or edit the history of this attribute.	Patient	NO	NO
13466	Employment Effective Date cannot be prior to the patient's Date of Birth [display Date of Birth]	Patient	NO	NO
13467	Employment Effective Date cannot be after the patient's Date of Death [display Date of Death].	Patient	NO	NO
13468	Employment Effective Date cannot be a future date.	Patient	NO	NO
13469	Employment Effective Date must be a valid date.	Patient	NO	NO
13470	Employment Effective Date of {0} already exists in the system for Employment Status.	Patient	NO	NO

13471	The effective date for a change to patient school status must be after the most recent, previous change to this patient attribute. Please use the Patient Attribute History page to view or edit the history of this attribute.	Patient	NO	NO
13472	School Status Effective Date cannot be prior to the patient's Date of Birth [display Date of Birth]	Patient	NO	NO
13473	School Status Effective Date cannot be after the patient's Date of Death [display Date of Death].	Patient	NO	NO
13474	School Status Effective Date must be a valid date.	Patient	NO	NO
13475	School Effective Date of {0} already exists in the system for School Status.	Patient	NO	NO
13476	The effective date for a change to patient Vocational Rehabilitation status must be after the most recent, previous change to this patient attribute. Please use the Patient Attribute History page to view or edit the history of this attribute.	Patient	NO	NO
13477	Vocational Rehabilitation Effective Date cannot be prior to the patient's Date of Birth [display Date of Birth]	Patient	NO	NO
13478	Vocational Rehabilitation Effective Date cannot be after the patient's Date of Death [display Date of Death].	Patient	NO	NO
13479	Vocational Rehabilitation Effective Date must be a valid date.	Patient	NO	NO
13480	Vocational Rehab Effective Date of {0} already exists in the system for Vocational Rehab Status.	Patient	NO	NO
13481	The effective date for a change to patient Citizenship status must be after the most recent, previous change to this patient attribute. Please use the Patient Attribute History page to view or edit the history of this attribute.	Patient	NO	NO
13482	Citizenship Effective Date cannot be prior to the patient's Date of Birth [display Date of Birth]	Patient	NO	NO
13483	Citizenship Effective Date cannot be after the patient's Date of Death [display Date of Death].	Patient	NO	NO
13484	Citizenship Effective Date cannot be a future date.	Patient	NO	NO
13485	Citizenship Effective Date must be a valid date.	Patient	NO	NO
13486	Citizenship Effective Date of {0} already exists in the system for Citizenship Status.	Patient	NO	NO
13487	The effective date for a change to patient Medicare Enrollment status must be after the most recent, previous change to this patient attribute. Please use the Patient Attribute History page to view or edit the history of this attribute.	Patient	NO	NO
13488	Medicare Enrollment Effective Date cannot be prior to the patient's Date of Birth [display Date of Birth]	Patient	NO	NO
13489	Medicare Enrollment Effective Date cannot be after the patient's Date of Death [display Date of Death].	Patient	NO	NO
13490	Medicare Enrollment Effective Date cannot be a future date.	Patient	NO	NO
13491	Medicare Enrollment Effective Date must be a valid date.	Patient	NO	NO
13492	Medicare Enrollment Effective Date of {0} already exists in the system for Medicare Enrollment Status.	Patient	NO	NO
13493	Employment Effective Date is mandatory when Current Employment Status is populated.	Patient	NO	NO

13494	School Status Effective Date is mandatory when Current School Status is populated.	Patient	NO	NO
13495	Vocational Rehabilitation Effective Date is mandatory when Current Vocational Rehabilitation Status is populated.	Patient	NO	NO
13496	Citizenship Effective Date is mandatory when Current Citizenship is populated.	Patient	NO	NO
13497	Medicare Enrollment Effective Date is mandatory when Current Medicare Enrollment Status is populated.	Patient	NO	NO
20003	Near Match Error Merged Patient	Patient	NO	NO
20004	Submitted {0} was found to match an existing patient	Patient	NO	NO
20005	Submitted {0} does not exist within the CROWNWeb system	Patient	NO	NO
20008	Patient's Self Reporting of Race and Ethnicity has been entered. Race is Required.	Patient	NO	YES
20009	Patient's Self Reporting of Race and Ethnicity has been entered. Ethnicity is Required.	Patient	NO	NO
20010	Ethnicity has been entered. Patient's Self Reporting of Race and Ethnicity is Required.	Patient	NO	YES
20013*	Multiple physicians returned for criteria {0}, {1} and org unique id: {2}	Patient	YES	NO
20016*	Multiple patients mapped to the same external id: {0}	Patient	YES	NO
99999	An unexpected error happened while processing the file. Error details are: {0}	Patient	NO	NO
*Error Code and Message can only be replicated by altering data within the database.				

CROWNWeb 4.1 - CLINICAL ERROR MESSAGES & CODES

ERROR CODE	MESSAGE	CATEGORY	IS WARNING	SCHEMA ONLY VALIDATION
400	Could not find an unique facility with the given orgFacilityCode <organization facility code>	Clinical	NO	NO
401	Could not find an unique patient with the given orgPatientId <organization patient identifier>	Clinical	NO	NO
600	Clinical date is required.	Clinical	NO	NO
601	Clinical month is frozen.	Clinical	NO	NO
602	Selected clinical month is not available in CROWN. [Mon/YYYY]	Clinical	NO	NO
604	Cannot process question {0} because patient is not receiving HD or PD treatment as of <YYYY-MM-DD>.	Clinical	NO	NO
11324	Submitter is not mapped to Facility: {0}	Clinical	NO	NO
12101	Hemoglobin is mandatory when Hemoglobin Date is populated.	Clinical	NO	YES
12102	Hemoglobin is not in the valid range (5.0 - 20.0).	Clinical	YES	NO
12103	Hemoglobin Date is mandatory when Hemoglobin is populated.	Clinical	NO	YES
12104	Hemoglobin Date must be in the Clinical Month and Year.	Clinical	NO	NO
12105	Hemoglobin Collection Date must be on or after 1/1/1973.	Clinical	NO	NO
12106	Hemoglobin Collection Date cannot be a future date.	Clinical	NO	NO
12107	Hemoglobin Collection Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12108	Hemoglobin Collection Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12109	Patient is not receiving Hemodialysis at the selected facility as of the Hemoglobin Date entered.	Clinical	NO	NO
12110	Ferritin is mandatory when Ferritin Collection Date is populated.	Clinical	NO	YES
12111	Ferritin is not in the valid range (10 - 4000).	Clinical	YES	NO
12112	Ferritin Date is mandatory when Ferritin is populated.	Clinical	NO	YES
12113	Ferritin Date must be in the Clinical Month and Year.	Clinical	NO	NO
12114	Ferritin Date must be on or after 01/01/1973.	Clinical	NO	NO
12115	Ferritin Date cannot be a future date.	Clinical	NO	NO
12116	Ferritin Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12117	Ferritin Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12118	Patient is not receiving Hemodialysis at the selected facility as of the Ferritin Date entered.	Clinical	NO	NO
12119	TSAT is mandatory when TSAT Date is populated.	Clinical	NO	YES
12120	TSAT is not in the valid range (3 - 120).	Clinical	YES	NO
12121	TSAT Date is mandatory when TSAT is populated.	Clinical	NO	YES
12122	TSAT Date must be in the Clinical Month and Year.	Clinical	NO	NO
12123	TSAT Date must be on or after 01/01/1973.	Clinical	NO	NO
12124	TSAT Date cannot be a future date.	Clinical	NO	NO
12125	TSAT Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12126	TSAT Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12127	Patient is not receiving Hemodialysis at the selected facility as of the TSAT Date entered.	Clinical	NO	NO
12128	Reticulocyte Hemoglobin (CHr) is mandatory when Reticulocyte Hemoglobin (CHr) Date is populated.	Clinical	NO	YES

12129	Reticulocyte Hemoglobin (CHr) is not in the valid range (20 - 40).	Clinical	YES	NO
12130	Reticulocyte Hemoglobin (CHr) Date is mandatory when Reticulocyte Hemoglobin (CHr) is populated.	Clinical	NO	YES
12131	Reticulocyte Hemoglobin (CHr) Date must be in the Clinical Month and Year.	Clinical	NO	NO
12132	Reticulocyte Hemoglobin (CHr) Date must be on or after 01/01/1973.	Clinical	NO	NO
12133	Reticulocyte Hemoglobin (CHr) Date cannot be a future date.	Clinical	NO	NO
12134	Reticulocyte Hemoglobin (CHr) Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12135	Reticulocyte Hemoglobin (CHr) Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12136	Patient is not receiving Hemodialysis at the selected facility as of the Reticulocyte Hemoglobin (CHr) Date entered.	Clinical	NO	NO
12209	Patient is not receiving CAPD or CCPD at the selected facility as of the Hemoglobin Date entered.	Clinical	NO	NO
12218	Patient is not receiving CAPD or CCPD at the selected facility as of the Ferritin Date entered.	Clinical	NO	NO
12227	Patient is not receiving CAPD or CCPD at the selected facility as of the TSAT Date entered.	Clinical	NO	NO
12236	Patient is not receiving CAPD or CCPD at the selected facility as of the Reticulocyte Hemoglobin (CHr) Date entered.	Clinical	NO	NO
12301	Pho is mandatory when Pho Date is populated.	Clinical	NO	YES
12302	Pho is not in the valid range (0.1 - 20.0).	Clinical	YES	NO
12303	Pho Date is mandatory when Pho is populated.	Clinical	NO	YES
12304	Pho Date must be in the Clinical Month and Year.	Clinical	NO	NO
12305	Pho Date must be on or after 1/1/1973.	Clinical	NO	NO
12306	Pho Date cannot be a future date.	Clinical	NO	NO
12307	Pho Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12308	Pho Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12309	Patient is not receiving Hemodialysis at the selected facility as of the Pho Date entered.	Clinical	NO	NO
12310	Corrected Serum Calcium is mandatory when Corrected Serum Calcium Date is populated.	Clinical	NO	YES
12311	Corrected Serum Calcium is not in the valid range (0.1 - 20.0).	Clinical	YES	NO
12312	Corrected Serum Calcium Date is mandatory when Corrected Serum Calcium is populated.	Clinical	NO	YES
12313	Corrected Serum Calcium Date must be in the Clinical Month and Year.	Clinical	NO	NO
12314	Corrected Serum Calcium Date must be on or after 1/1/1973.	Clinical	NO	NO
12315	Corrected Serum Calcium Date cannot be a future date.	Clinical	NO	NO
12316	Corrected Serum Calcium Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12317	Corrected Serum Calcium Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12318	Patient is not receiving Hemodialysis at the selected facility as of the Corrected Serum Calcium Date entered.	Clinical	NO	NO
12319	Uncorrected Serum Calcium is mandatory when [Serum Calcium Date or Serum Albumin] is populated.	Clinical	NO	NO
12320	Uncorrected Serum Calcium is not in the valid range (0.1 - 20.0).	Clinical	YES	NO
12323	Uncorrected Serum Calcium Date must be in the Clinical Month and Year.	Clinical	NO	NO
12324	Uncorrected Serum Calcium Date must be on or after 1/1/1973.	Clinical	NO	NO
12325	Uncorrected Serum Calcium Date cannot be a future date.	Clinical	NO	NO
12326	Uncorrected Serum Calcium Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12327	Uncorrected Serum Calcium Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO

12328	Patient is not receiving Hemodialysis at the selected facility as of the Uncorrected Serum Calcium Date entered.	Clinical	NO	NO
12329	Serum Albumin is mandatory when Serum Albumin Collection Date, Serum Albumin Lower Limit, or Uncorrected Serum Calcium is populated.	Clinical	NO	NO
12330	Serum Albumin is not in the valid range (1.00 - 5.50).	Clinical	YES	NO
12331	Serum Albumin Date must equal the Uncorrected Serum Calcium Date.	Clinical	YES	NO
12332	Serum Albumin Date is mandatory when Serum Albumin is populated.	Clinical	NO	YES
12333	Serum Albumin Date must be in the Clinical Month and Year.	Clinical	NO	NO
12334	Serum Albumin Date must be on or after 1/1/1973.	Clinical	NO	NO
12335	Serum Albumin Date cannot be a future date.	Clinical	NO	NO
12336	Serum Albumin Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12337	Serum Albumin Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12338	Patient is not receiving Hemodialysis at the selected facility as of the Serum Albumin Date entered.	Clinical	NO	NO
12340	Serum Albumin Lower Limit is mandatory when Serum Albumin is populated.	Clinical	NO	YES
12341	Serum Albumin Lower Limit is not in the valid range (0.50 - 5.50).	Clinical	YES	NO
12409	Patient is not receiving CAPD or CCPD at the selected facility as of the Pho Date entered.	Clinical	NO	NO
12418	Patient is not receiving CAPD or CCPD at the selected facility as of the Corrected Serum Calcium Date entered.	Clinical	NO	NO
12428	Patient is not receiving CAPD or CCPD at the selected facility as of the Uncorrected Serum Calcium Date entered.	Clinical	NO	NO
12438	Patient is not receiving CAPD or CCPD at the selected facility as of the Serum Albumin Date entered.	Clinical	NO	NO
12501	Kt/V is mandatory when Kt/V Date, Kt/V Method, BUN Pre-Dialysis, BUN Post-Dialysis, Pre-Dialysis Weight, Post-Dialysis Weight, or Delivered Minutes of BUN Hemodialysis Session is populated.	Clinical	NO	YES
12502	Kt/V is not in the valid range (0.50 - 2.50).	Clinical	YES	NO
12503	Kt/V Date is mandatory when Patient Height is populated.	Clinical	NO	YES
12504	Kt/V Date is mandatory when Kt/V is populated.	Clinical	NO	YES
12505	Kt/V Date must be in the Clinical Month and Year.	Clinical	NO	NO
12506	Kt/V Date must be on or after 1/1/1973.	Clinical	NO	NO
12507	Kt/V Date cannot be a future date.	Clinical	NO	NO
12508	Kt/V Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12509	Kt/V Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12510	Patient is not receiving Hemodialysis at the selected facility as of the Kt/V Date entered.	Clinical	NO	NO
12511	Kt/V Method is mandatory when Kt/V is populated.	Clinical	NO	NO
12513	BUN Pre-Dialysis is mandatory when BUN Post-Dialysis, Pre-Dialysis Weight, Post-Dialysis Weight, or Delivered Minutes of BUN Hemodialysis Session is populated.	Clinical	NO	YES
12514	BUN Pre-Dialysis is not in the valid range (3 - 200).	Clinical	YES	NO
12515	BUN Post-Dialysis is mandatory when BUN Pre-Dialysis, Pre-Dialysis Weight, Post-Dialysis Weight, or Delivered Minutes of BUN Hemodialysis Session is populated.	Clinical	NO	YES
12516	BUN Post-Dialysis is not in the valid range (3 - 200).	Clinical	YES	NO
12517	BUN Post-Dialysis cannot be more than the BUN Pre-Dialysis value.	Clinical	NO	NO

12518	Pre-Dialysis Weight is mandatory when BUN Pre-Dialysis, BUN Post-Dialysis, Post-Dialysis Weight, or Delivered Minutes of BUN Hemodialysis Session is populated.	Clinical	NO	YES
12519	Pre-Dialysis Weight must be greater than zero (0).	Clinical	NO	NO
12520	Pre-Dialysis Weight Unit of Measure is mandatory when Pre-Dialysis Weight is populated.	Clinical	NO	YES
12521	Kt/V Date is mandatory when Pre-Dialysis Weight is populated.	Clinical	NO	YES
12522	Pre-Dialysis Weight is not in the valid range (<x-y> lbs or <a-b> kg).	Clinical	YES	NO
12523	Post-Dialysis Weight is mandatory when BUN Pre-Dialysis, BUN Post-Dialysis, Pre-Dialysis Weight, or Delivered Minutes of BUN Hemodialysis Session is populated.	Clinical	NO	YES
12524	Post-Dialysis Weight must be greater than zero (0).	Clinical	NO	NO
12525	Post-Dialysis Weight is more than 5% greater than the Pre-Dialysis Weight.	Clinical	YES	NO
12526	Post-Dialysis Weight Unit of Measure is mandatory when Post-Dialysis Weight is populated.	Clinical	NO	YES
12527	Kt/V Date is mandatory when Post-Dialysis Weight is populated.	Clinical	NO	YES
12528	Post-Dialysis Weight is not in the valid range (<x-y> lbs or <a-b> kg).	Clinical	YES	NO
12529	Delivered Minutes of BUN Hemodialysis Session is mandatory when BUN Pre-Dialysis, BUN Post-Dialysis, Pre-Dialysis Weight, or Post-Dialysis Weight is populated.	Clinical	NO	YES
12530	Delivered Minutes of BUN Hemodialysis Session is not in the valid range (60 - 600).	Clinical	YES	NO
12532	Height Unit of Measure is mandatory when Height is populated.	Clinical	NO	NO
12533	Height is not in the valid range (<x-y> in or <a-b> cm).	Clinical	YES	NO
12534	Serum Creatinine is mandatory when Serum Creatinine Collection Date, Dialysate Volume, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Volume, or Serum BUN is populated.	Clinical	NO	NO
12535	Serum Creatinine is not in the valid range (2.0 - 25.0).	Clinical	YES	NO
12537	Serum Creatinine Date is mandatory when Serum Creatinine is populated.	Clinical	NO	YES
12538	Serum Creatinine Date must be in the Clinical Month and Year.	Clinical	NO	NO
12539	Serum Creatinine Date must be on or after 1/1/1973.	Clinical	NO	NO
12540	Serum Creatinine Date cannot be a future date.	Clinical	NO	NO
12541	Serum Creatinine Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12542	Serum Creatinine Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12543	Patient is not receiving Hemodialysis at the selected facility as of the Serum Creatinine Date entered.	Clinical	NO	NO
12544	Height cannot be zero (0).	Clinical	NO	NO
12601	Weekly Kt/V is mandatory when Weekly Kt/V Date, V Method, BSA Method, RRF Assessed in Kt/V, Prescription Change after Adequacy Measurement, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Urea Nitrogen, Urine Creatinine, or Serum BUN is populated.	Clinical	NO	YES
12602	Weekly Kt/V is not in the valid range (<x - y>).	Clinical	YES	NO
12603	Weekly Kt/V Date is mandatory when Patient Height is populated.	Clinical	NO	YES
12604	Weekly Kt/V Date is mandatory when Weekly Kt/V is populated.	Clinical	NO	YES
12605	Weekly Kt/V Date must be in the Clinical Month and Year.	Clinical	NO	NO
12606	Weekly Kt/V Date must be on or after 1/1/1973.	Clinical	NO	NO
12607	Weekly Kt/V Date cannot be a future date.	Clinical	NO	NO
12608	Weekly Kt/V Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12609	Weekly Kt/V Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12610	Patient is not receiving CAPD or CCPD at the selected facility as of the Weekly Kt/V Date entered.	Clinical	NO	NO

12611	V Method is mandatory when Weekly Kt/V is populated.	Clinical	NO	YES
12613	BSA Method is mandatory when Weekly Kt/V is populated.	Clinical	NO	YES
12614	RRF Assessed in Kt/V is mandatory when Weekly Kt/V is populated.	Clinical	NO	YES
12615	Prescription Change after Adequacy Measurement is mandatory when Weekly Kt/V is populated.	Clinical	NO	YES
12616	Dialysate Volume is mandatory when Clinic Weight, Creatinine Clearance, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Volume, Serum BUN, or Serum Creatinine is populated.	Clinical	NO	NO
12617	Weekly Kt/V Date is mandatory when Dialysate Volume is populated.	Clinical	NO	YES
12618	Dialysate Volume is not in the valid range (<x - y>).	Clinical	YES	NO
12619	Dialysate Urea Nitrogen is mandatory when Clinic Weight, Creatinine Clearance, Dialysate Volume, Dialysate Creatinine, Urine Volume, Serum BUN, or Serum Creatinine is populated.	Clinical	NO	NO
12620	Dialysate Urea Nitrogen is not in the valid range (10.0 - 500.0).	Clinical	YES	NO
12621	Dialysate Creatinine is mandatory when Clinic Weight, Creatinine Clearance, Dialysate Volume, Dialysate Urea Nitrogen, Urine Volume, Serum BUN, or Serum Creatinine is populated.	Clinical	NO	NO
12622	Dialysate Creatinine is not in the valid range (2.5 - 20.0).	Clinical	YES	NO
12624	Urine Volume is not in the valid range (10 - 3500).	Clinical	YES	NO
12625	Urine Urea Nitrogen is mandatory when Urine Volume is populated.	Clinical	NO	NO
12626	Urine Urea Nitrogen is not in the valid range (10.0 - 950.0).	Clinical	YES	NO
12627	Urine Creatinine is mandatory when Urine Volume is populated.	Clinical	NO	NO
12628	Urine Creatinine is not in the valid range (1.0 - 400.0).	Clinical	YES	NO
12629	Serum BUN is mandatory when Clinic Weight, Creatinine Clearance, Dialysate Volume, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Volume, or Serum Creatinine is populated.	Clinical	NO	NO
12630	Serum BUN is not in the valid range (15 - 140).	Clinical	YES	NO
12631	Clinic Weight is mandatory when Creatinine Clearance, Dialysate Volume, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Volume, Serum BUN, or Serum Creatinine is populated.	Clinical	NO	NO
12632	Clinic Weight Unit of Measurement is mandatory when Clinic Weight is populated.	Clinical	NO	NO
12633	Weekly Kt/V Date is mandatory when Clinic Weight is populated.	Clinical	NO	YES
12634	Clinic Weight is not in the valid range (<x-y> lbs or <a-b> kg).	Clinical	YES	NO
12635	Creatinine Clearance is mandatory when Clinic Weight, Dialysate Volume, Dialysate Urea Nitrogen, Dialysate Creatinine, Urine Volume, Serum BUN, or Serum Creatinine is populated.	Clinical	NO	NO
12636	Creatinine Clearance Unit of Measure is mandatory when Creatinine Clearance is populated.	Clinical	NO	YES
12637	Creatinine Clearance is not in the valid range (<x - y>).	Clinical	YES	NO
12638	BSA Corrected is mandatory when Creatinine Clearance is populated.	Clinical	NO	NO
12644	Serum Creatinine Date is mandatory when SerumCreatinine is populated.	Clinical	NO	YES
12650	Patient is not receiving CAPD or CCPD at the selected facility as of the Serum Creatinine Date entered.	Clinical	NO	NO
12652	Clinic Weight cannot be zero (0).	Clinical	NO	NO
12701	Current Access Type is mandatory.	Clinical	NO	YES
12702	Date Access Type Changed is mandatory when the Current Access Type is changed.	Clinical	NO	YES
12703	Date Access Type Changed is mandatory.	Clinical	NO	YES
12704	Date Access Type Changed must be on or after 1/1/1973.	Clinical	NO	NO
12705	Date Access Type Changed cannot be a future date.	Clinical	NO	NO

12706	Date Access Type Changed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12707	Date Access Type Changed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12709	AV Fistula Usable Date is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12710	AV Fistula Usable Date must be on or after 1/1/1973.	Clinical	NO	NO
12711	AV Fistula Usable Date cannot be a future date.	Clinical	NO	NO
12712	AV Fistula Usable Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12713	AV Fistula Usable Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12715	Date of Reported Dialysis Session is mandatory when Vascular Access information has been entered or changed.	Clinical	NO	YES
12716	Date of Reported Dialysis Session must be in the Clinical Month and Year.	Clinical	NO	NO
12717	Date of Reported Dialysis Session must be on or after 1/1/1973.	Clinical	NO	NO
12718	Date of Reported Dialysis Session cannot be a future date.	Clinical	NO	NO
12719	Date of Reported Dialysis Session cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12720	Date of Reported Dialysis Session cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12721	Patient is not receiving Hemodialysis at the selected facility as of the Date of Reported Dialysis Session entered.	Clinical	NO	NO
12722	AV Fistula Maturing is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12723	AV Graft Maturing is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12726	AVF Creation Date is mandatory when AV Fistula Maturing = Yes.	Clinical	NO	NO
12727	AVF Creation Date must be on or after 1/1/1973.	Clinical	NO	NO
12728	AVF Creation Date cannot be a future date.	Clinical	NO	NO
12729	AVF Creation Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12730	AVF Creation Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12731	Physical examination of access performed for AVF/AVG is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12732	Frequency of access physical examination is mandatory when Access Physical Examination = Yes.	Clinical	NO	NO
12733	Arterial Pre-Pump pressure performed for AVF/AVG is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12734	Frequency of arterial pre-pump pressure measurement is mandatory when Pre Pump Pressure = Yes.	Clinical	NO	NO
12735	Surveillance of AVG for access dysfunction performed is mandatory based on the Current Access Type populated.	Clinical	NO	NO
12736	Surveillance of AVG with intra-access flow performed is mandatory when Graft Survey = Yes.	Clinical	NO	NO
12737	Frequency of intra-access flow measurement is mandatory when Intra-Access Flow = Yes.	Clinical	NO	NO
12738	Surveillance of AVG by static venous pressure performed is mandatory when Graft Survey = Yes.	Clinical	NO	NO
12739	Frequency of static venous pressure measurement is mandatory when Static Venous Pressure = Yes.	Clinical	NO	NO
12740	Surveillance of AVG with doppler ultrasound performed is mandatory when Graft Survey = Yes.	Clinical	NO	NO
12741	Frequency of doppler ultrasound is mandatory when Doppler = Yes.	Clinical	NO	NO
12742	AV Fistula State must be Active based on the Access Type for Dialysis.	Clinical	NO	NO
12743	AV Graft State must be Active based on the Access Type for Dialysis.	Clinical	NO	NO
12744	Other Source of Vascular Infection exceeds allowed length of {0}.	Clinical	NO	NO
12801	ESA Prescribed is mandatory.	Clinical	NO	NO

12802	Intravenous (IV) Iron Prescribed is mandatory.	Clinical	NO	NO
12808	Intravenous (IV) Iron Prescribed Date is mandatory when the value in Intravenous (IV) Iron Prescribed is Intravenous (IV) Iron was Prescribed.	Clinical	NO	NO
12809	Intravenous (IV) Iron Prescribed Date must be ON OR after 1/1/1973.	Clinical	NO	NO
12810	Intravenous (IV) Iron Prescribed Date cannot be a future date.	Clinical	NO	NO
12811	Intravenous (IV) Iron Prescribed Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12812	Intravenous (IV) Iron Prescribed Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12820	Kt/V must be numeric with no more than 2 decimal places.	Clinical	NO	NO
12821	BUN Pre-Dialysis must be numeric with no decimal place.	Clinical	NO	YES
12822	Residual Urea Clearance exceeds allowed length of {0}.	Clinical	NO	NO
12823	Residual Urea Clearance for HD must be a numeric value.	Clinical	NO	YES
12824	Delivered Minutes of BUN Hemodialysis Session must be numeric with no decimal place.	Clinical	NO	YES
12825	Post-Dialysis Target Weight for Session is mandatory.	Clinical	NO	NO
12826	Pre-Dialysis Weight must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12827	Post-Dialysis Weight must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12828	Non-Oral Vitamin D Analog Prescribed is mandatory.	Clinical	NO	NO
12829	Non-Oral Vitamin D Analog is mandatory when Non-Oral Vitamin D Analog is Prescribed.	Clinical	NO	NO
12830	Other Non-Oral Vitamin D Analog is mandatory when Non-Oral Vitamin D Analog is Other.	Clinical	NO	NO
12831	Other Non-Oral Vitamin D Analog exceeds allowed length of {0}.	Clinical	NO	NO
12832	Non-Oral Vitamin D Analog Dosage is mandatory when Non-Oral Vitamin D Analog is populated.	Clinical	NO	YES
12833	Non-Oral Vitamin D Analog Dosage exceeds allowed length of {0}.	Clinical	NO	NO
12834	Non-Oral Vitamin D Analog Dosage must be numeric.	Clinical	NO	YES
12835	Non-Oral Vitamin D Analog Route is mandatory when Non-Oral Vitamin D Analog Dosage is populated.	Clinical	NO	YES
12836	Non-Oral Vitamin D Analog Dosage cannot be populated when Non-Oral Vitamin D Analog Prescribed is set to 'False'.	Clinical	NO	NO
12840	Interdialytic Time is Mandatory.	Clinical	NO	YES
12841	Interdialytic Time exceeds allowed length of 30.	Clinical	NO	NO
12842	Interdialytic Time must be a numeric value.	Clinical	NO	NO
12843	Interdialytic Time should have a valid format of: dd:hh:mm or mm.	Clinical	NO	NO
12844	Peritoneal Dialysate Culture Result is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12845	Result of Peritoneal Dialysis Effluent Analysis is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12846	Clinic Weight must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12847	Weekly Kt/V Date is mandatory if Clinic Weight is populated.	Clinical	NO	YES
12849	Creatinine Clearance must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12850	Creatinine Clearance cannot be zero (0).	Clinical	NO	NO
12851	Serum BUN must be numeric with no decimal place.	Clinical	NO	YES
12852	Urine Creatinine must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12853	Urine Urea Nitrogen must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12854	Urine Volume must be numeric with no decimal place.	Clinical	NO	YES

12855	Dialysate Creatinine must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12856	Dialysate Urea Nitrogen must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12857	Dialysate Volume must be numeric with no decimal place.	Clinical	NO	YES
12858	Weekly Kt/V Date is mandatory if Dialysate Volume is populated.	Clinical	NO	YES
12859	Weekly Kt/V must be numeric with no more than 2 decimal places.	Clinical	NO	NO
12860	Date Access Type Changed is prior to patient's admit date when no previous admission or treatment records exist.	Clinical	NO	NO
12862	AV Fistula Creation Date is prior to patient's admit date when no previous admission or treatment records exist.	Clinical	YES	NO
12865	Date of Newly Suspected Infection must be a valid date.	Clinical	NO	YES
12866	Date of Newly Suspected Infection cannot be a future date.	Clinical	NO	NO
12867	Date of Newly Suspected Infection must be on or after 01/01/1973.	Clinical	NO	NO
12868	Date of Newly Suspected Infection cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12869	Date of Newly Suspected Infection cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12870	Date Access Infection Confirmed must be a valid date.	Clinical	NO	YES
12871	Date Access Infection Confirmed cannot be a future date.	Clinical	NO	NO
12872	Date Access Infection Confirmed must be on or after 01/01/1973.	Clinical	NO	NO
12873	Date Access Infection Confirmed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12874	Date Access Infection Confirmed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12875	Source of Vascular Infection is mandatory when Date Access Infection Confirmed is populated.	Clinical	NO	NO
12878	Height must be numeric with no more than 1 decimal place.	Clinical	NO	NO
12885	Height is mandatory when [Kt/V or Weekly Kt/V] is populated.	Clinical	NO	NO
12886	Infection Id exceeds allowed length of {0}.	Clinical	NO	NO
12887	Date Access Infection Confirmed Infection must be a valid date.	Clinical	NO	YES
12888	Date Access Infection Confirmed Infection cannot be a future date.	Clinical	NO	YES
12889	Date Access Infection Confirmed must be on or after 01/01/1973.	Clinical	NO	YES
12890	Date Access Infection Confirmed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	YES
12891	Date Access Infection Confirmed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	YES
12892	Site of Dialysis Access Infection is mandatory when Date Access Infection Confirmed is populated.	Clinical	NO	NO
12893	The value provided for Site of Dialysis Access Infection is not an acceptable value for an HD Patient.	Clinical	NO	NO
12894	The value provided for Site of Dialysis Access Infection is not an acceptable value for a PD Patient.	Clinical	NO	NO
12895	Infection Requires Hospitalization is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12896	Date Antibiotic Prescribed is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12897	Symptoms of Clinical Sepsis is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12898	Blood Culture Result is mandatory when Outpatient Antibiotics Administered is Antibiotic Therapy was prescribed.	Clinical	NO	NO
12899	Indicate Organisms of Positive Culture is not allowed when Blood Culture Result is not Positive Culture.	Clinical	NO	NO
12900	Date Antibiotic Prescribed Confirmed Infection must be a valid date.	Clinical	NO	YES

12901	Date Antibiotic Prescribed Confirmed Infection cannot be a future date.	Clinical	NO	NO
12902	Date Antibiotic Prescribed Confirmed must be on or after 01/01/1973.	Clinical	NO	NO
12903	Date Antibiotic Prescribed Confirmed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12904	Date Antibiotic Prescribed Confirmed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12905	Other Antibiotic Dose Measurement is mandatory when Antibiotic Dose Measurement is Other.	Clinical	NO	NO
12906	Other Antibiotic Dose Measurement exceeds allowed length of {0}.	Clinical	NO	NO
12907	Blood Culture Date Confirmed Infection must be a valid date.	Clinical	NO	YES
12908	Blood Culture Date Confirmed Infection cannot be a future date.	Clinical	NO	NO
12909	Blood Culture Date Confirmed must be on or after 01/01/1973.	Clinical	NO	NO
12910	Blood Culture Date Confirmed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12911	Blood Culture Date Confirmed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12913	Indicate Organism(s) of Positive Culture exceeds allowed length of {0}.	Clinical	NO	NO
12914	Antibiotic Name is mandatory when Antibiotic Dose is populated.	Clinical	NO	YES
12915	Antibiotic Name is mandatory when Antibiotic Frequency is populated.	Clinical	NO	YES
12916	Antibiotic Name is mandatory when Antibiotic Route is populated.	Clinical	NO	YES
12917	Antibiotic Name exceeds allowed length of {0}.	Clinical	NO	NO
12918	Antibiotic Frequency is mandatory when Antibiotic Name is populated.	Clinical	NO	NO
12919	Antibiotic Frequency is mandatory when Antibiotic Dose is populated.	Clinical	NO	NO
12920	Antibiotic Frequency is mandatory when Antibiotic Route is populated.	Clinical	NO	NO
12921	Antibiotic Dose is mandatory when Antibiotic Name is populated.	Clinical	NO	NO
12922	Antibiotic Dose is mandatory when Antibiotic Frequency is populated.	Clinical	NO	NO
12923	Antibiotic Dose is mandatory when Antibiotic Route is populated.	Clinical	NO	NO
12924	Antibiotic Dose Measure is mandatory when Antibiotic Dose is populated.	Clinical	NO	NO
12925	Antibiotic Dose must be a numeric value.	Clinical	NO	YES
12926	Antibiotic Route is mandatory when Antibiotic Name is populated.	Clinical	NO	NO
12927	Antibiotic Route is mandatory when Antibiotic Frequency is populated.	Clinical	NO	NO
12928	Antibiotic Route is mandatory when Antibiotic Dose is populated.	Clinical	NO	NO
12929	Other Antibiotic Route is mandatory when Antibiotic Route is Other.	Clinical	NO	NO
12930	Other Antibiotic Route exceeds allowed length of {0}.	Clinical	NO	NO
12931	Other Antibiotic Frequency is mandatory when Antibiotic Frequency is Other.	Clinical	NO	NO
12932	Other Antibiotic Frequency exceeds allowed length of {0}.	Clinical	NO	NO
12934	Infection Hospitalization Date must be a valid date.	Clinical	NO	YES
12935	Infection Hospitalization Date cannot be a future date.	Clinical	NO	NO
12936	Infection Hospitalization Date must be on or after 01/01/1973.	Clinical	NO	NO
12937	Infection Hospitalization Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12938	Infection Hospitalization Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12939	Other Intravenous (IV) Iron is mandatory when Intravenous (IV) Iron is Other.	Clinical	NO	NO
12940	Other Intravenous (IV) Iron exceeds allowed length of {0}.	Clinical	NO	NO
12941	Intravenous (IV) Iron Dose is mandatory when Intravenous (IV) Iron is populated.	Clinical	NO	NO
12942	Intravenous (IV) Iron Dose exceeds allowed length of {0}.	Clinical	NO	NO
12943	Intravenous (IV) Iron Dose must be a numeric value.	Clinical	NO	YES

12944	Intravenous (IV) Iron is mandatory when the value in Intravenous (IV) Iron Dose is provided.	Clinical	NO	NO
12945	Intravenous (IV) Iron Dose Measure is mandatory when Intravenous (IV) Iron is populated.	Clinical	NO	NO
12946	Other Intravenous (IV) Iron Dose is mandatory when Intravenous (IV) Iron Dose Measure is Other.	Clinical	NO	NO
12947	Other Intravenous (IV) Iron Dose exceeds allowed length of {0}.	Clinical	NO	NO
12948	Oral (PO) Iron Prescribed is mandatory.	Clinical	NO	NO
12949	Oral (PO) Iron is mandatory when the value in Oral (PO) Iron Prescribed is 'Oral Iron Prescribed'.	Clinical	NO	NO
12950	Other Oral (PO) Iron is mandatory when Oral (PO) Iron is Other.	Clinical	NO	NO
12951	Other Oral (PO) Iron exceeds allowed length of {0}.	Clinical	NO	NO
12952	Oral (PO) Iron Dose is mandatory when Oral (PO) Iron is populated.	Clinical	NO	YES
12953	Oral (PO) Iron Dose exceeds allowed length of {0}.	Clinical	NO	NO
12954	Oral (PO) Iron Dose must be a numeric value.	Clinical	NO	YES
12955	Oral (PO) Iron Dose Measurement is mandatory when Oral (PO) Iron Dose is populated.	Clinical	NO	NO
12956	Other Oral (PO) Iron Dose Measure is mandatory when Oral (PO) Iron Dose Measure is Other.	Clinical	NO	NO
12957	Other Oral (PO) Iron Dose Measure exceeds allowed length of {0}.	Clinical	NO	NO
12958	Date Patient Education on Sodium Restriction must be a valid date.	Clinical	NO	YES
12959	Date Patient Education on Sodium Restriction cannot be a future date.	Clinical	NO	NO
12960	Date Patient Education on Sodium Restriction must be on or after 01/01/1973.	Clinical	NO	NO
12961	Date Patient Education on Sodium Restriction cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12962	Date Patient Education on Sodium Restriction cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12963	Post Dialysis Weight Assessment Date must be a valid date.	Clinical	NO	YES
12964	Post Dialysis Weight Assessment Date cannot be a future date.	Clinical	NO	NO
12965	Post Dialysis Weight Assessment Date must be on or after 01/01/1973.	Clinical	NO	NO
12966	Post Dialysis Weight Assessment Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12967	Post Dialysis Weight Assessment Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12968	Post Dialysis Weight Assessment Date must be a valid date.	Clinical	NO	YES
12973	Echocardiogram Date must be a valid date.	Clinical	NO	YES
12974	Echocardiogram Date cannot be a future date.	Clinical	NO	NO
12975	Echocardiogram Date must be on or after 01/01/1973.	Clinical	NO	NO
12976	Echocardiogram Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12977	Echocardiogram Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12978	Presence of Left Ventricular Hypertrophy is mandatory when Echocardiogram Date is provided.	Clinical	NO	NO
12979	Admission Date must be a valid date.	Clinical	NO	YES
12980	Admission Date cannot be a future date.	Clinical	NO	NO
12981	Admission Date must be on or after 01/01/1973.	Clinical	NO	NO
12982	Admission Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12983	Admission Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12984	All Hospital Visits is mandatory when Admission Date is populated.	Clinical	NO	NO
12985	Admission Date is mandatory when Admission from Dialysis Facility is populated.	Clinical	NO	NO
12986	Discharge Date must be a valid date.	Clinical	NO	YES

12987	Discharge Date cannot be a future date.	Clinical	NO	NO
12988	Discharge Date must be on or after 01/01/1973.	Clinical	NO	NO
12989	Discharge Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
12990	Discharge Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
12991	Discharge Date is mandatory when Discharge Diagnosis is populated.	Clinical	NO	NO
12992	Hospitalization Id exceeds allowed length of {0}.	Clinical	NO	NO
12993	Hospital Name exceeds allowed length of {0}.	Clinical	NO	NO
12994	Other Admission Diagnosis exceeds allowed length of {0}.	Clinical	NO	NO
12995	When Admission Diagnosis field is 'Other', then Other Admission Diagnosis field must have a value.	Clinical	NO	NO
12996	When Source of Admission Information field is 'Other', then Other Source of Admission Information field must have a value.	Clinical	NO	NO
12997	Other Source of Admission Information exceeds allowed length of {0}.	Clinical	NO	NO
12998	Influenza Vaccination Not Received cannot be set to 'True' when data exists for Influenza Vaccination.	Clinical	NO	NO
12999	Reason no Influenza Vaccination cannot be populated when Influenza Vaccination Not Received is set to 'False'.	Clinical	NO	NO
13000	Influenza Exclusion Reason cannot be populated when Influenza Vaccination Not Received is set to 'False'.	Clinical	NO	NO
13001	Reason no Influenza Vaccination is mandatory when Influenza Vaccination Not Received is checked.	Clinical	NO	NO
13003	Influenza Vaccination Date is mandatory when Influenza Vaccination Not Received is not checked.	Clinical	NO	NO
13004	Site Influenza Vaccination Received is mandatory when Influenza Vaccination Date is populated.	Clinical	NO	NO
13005	Influenza Vaccination Date cannot be a future date.	Clinical	NO	NO
13006	Influenza Vaccination Date must be on or after 01/1973.	Clinical	NO	NO
13007	Influenza Vaccination Date cannot be prior to the patient's date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13008	Influenza Vaccination Date cannot be after the patient's date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13009	Influenza Vaccination Date must be a valid date.	Clinical	NO	YES
13010	Date Patient Education on Sodium Restriction is mandatory when Education on Sodium Restriction Not Received is not checked.	Clinical	NO	NO
13011	Date Patient Education on Sodium Restriction cannot be populated when Education on Sodium Restriction Not Received is set to 'True'	Clinical	NO	NO
13012	Pneumococcal Vaccination Not Received cannot be set to 'True' when data exists for Pneumococcal Vaccination	Clinical	NO	NO
13013	Reason No Pneumococcal Vaccination cannot be populated when Pneumococcal Vaccination Not Received is set to 'False'	Clinical	NO	NO
13014	Pneumococcal Exclusion Reason cannot be populated when Pneumococcal Vaccination Not Received is set to 'False'	Clinical	NO	NO
13015	Reason No Pneumococcal Vaccination is mandatory when Pneumococcal Vaccination Not Received is checked.	Clinical	NO	NO
13017	Pneumococcal Vaccination Year is mandatory when Pneumococcal Vaccination Not Received is not checked.	Clinical	NO	NO
13018	Pneumococcal Vaccination Year cannot be a future year.	Clinical	NO	NO
13019	Pneumococcal Vaccination Year must be on or after 1973.	Clinical	NO	NO

13020	Pneumococcal Vaccination Year cannot be prior to the patient's year of Birth (<YYYY>).	Clinical	NO	NO
13021	Pneumococcal Vaccination Year cannot be after the patient's year of Death (<YYYY>).	Clinical	NO	NO
13022	Pneumococcal Vaccination Year must be a valid year.	Clinical	NO	NO
13023	Hepatitis B Vaccination Not Received cannot be set to 'True' when data exists for Hepatitis B.	Clinical	NO	NO
13024	Reason No Hepatitis B Vaccination cannot be populated when Hepatitis B Vaccination Not Received is set to 'False'.	Clinical	NO	NO
13025	Hepatitis B Exclusion Reasons cannot be populated when Hepatitis B Vaccination Not Received is set to 'False'.	Clinical	NO	NO
13026	Reason No Hepatitis B Vaccination is mandatory when Hepatitis B Vaccination Not Received is checked.	Clinical	NO	NO
13028	Hepatitis B (HBsAg) Test Date must be a valid date.	Clinical	NO	YES
13029	Hepatitis B (HBsAg) Test Date cannot be a future date.	Clinical	NO	NO
13030	Hepatitis B (HBsAg) Test Date must be on or after 01/01/1973.	Clinical	NO	NO
13031	Hepatitis B (HBsAg) Test Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13032	Hepatitis B (HBsAg) Test Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13033	Hepatitis B (HBsAg) Test Date is mandatory when Hepatitis B Test Type (HBsAg) is populated.	Clinical	NO	NO
13034	Hepatitis B Test Type (HBsAg) is mandatory when Hepatitis B (HBsAg) Test date is populated.	Clinical	NO	NO
13035	Other Hepatitis B Test Type is mandatory when Hepatitis B Test Type (HBsAg) is Other.	Clinical	NO	NO
13036	Other Hepatitis B Test Type exceeds allowed length of {0}.	Clinical	NO	NO
13037	Hepatitis B Booster Date 1 must be a valid date.	Clinical	NO	YES
13038	Hepatitis B Booster Date 1 cannot be a future date.	Clinical	NO	NO
13039	Hepatitis B Booster Date 1 must be on or after 01/01/1973.	Clinical	NO	NO
13040	Hepatitis B Booster Date 1 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13041	Hepatitis B Booster Date 1 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13042	Hepatitis B Booster Date 2 must be a valid date.	Clinical	NO	YES
13043	Hepatitis B Booster Date 2 cannot be a future date.	Clinical	NO	NO
13044	Hepatitis B Booster Date 2 must be on or after 01/01/1973.	Clinical	NO	NO
13045	Hepatitis B Booster Date 2 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13046	Hepatitis B Booster Date 2 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13047	Hepatitis B Booster Date 3 must be a valid date.	Clinical	NO	YES
13048	Hepatitis B Booster Date 3 cannot be a future date.	Clinical	NO	NO
13049	Hepatitis B Booster Date 3 must be on or after 01/01/1973.	Clinical	NO	NO
13050	Hepatitis B Booster Date 3 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13051	Hepatitis B Booster Date 3 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13052	Hepatitis B Booster Date 4 must be a valid date.	Clinical	NO	YES
13053	Hepatitis B Booster Date 4 cannot be a future date.	Clinical	NO	NO
13054	Hepatitis B Booster Date 4 must be on or after 01/01/1973.	Clinical	NO	NO
13055	Hepatitis B Booster Date 4 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13056	Hepatitis B Booster Date 4 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13057	Hepatitis B Vaccination Date 1 is mandatory when Hepatitis B Vaccination Not Received is not checked and no other Hepatitis B Vaccination dates are provided.	Clinical	NO	NO

13058	Hepatitis B Vaccination Date 1 must be a valid date.	Clinical	NO	YES
13059	Hepatitis B Vaccination Date 1 cannot be a future date.	Clinical	NO	NO
13060	Hepatitis B Vaccination Date 1 must be on or after 01/01/1973.	Clinical	NO	NO
13061	Hepatitis B Vaccination Date 1 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13062	Hepatitis B Vaccination Date 1 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13063	Hepatitis B Vaccination Date 2 must be a valid date.	Clinical	NO	YES
13064	Hepatitis B Vaccination Date 2 cannot be a future date.	Clinical	NO	NO
13065	Hepatitis B Vaccination Date 2 must be on or after 01/01/1973.	Clinical	NO	NO
13066	Hepatitis B Vaccination Date 2 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13067	Hepatitis B Vaccination Date 2 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13068	Hepatitis B Vaccination Date 3 must be a valid date.	Clinical	NO	YES
13069	Hepatitis B Vaccination Date 3 cannot be a future date.	Clinical	NO	NO
13070	Hepatitis B Vaccination Date 3 must be on or after 01/01/1973.	Clinical	NO	NO
13071	Hepatitis B Vaccination Date 3 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13072	Hepatitis B Vaccination Date 3 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13073	Hepatitis B Vaccination Date 4 must be a valid date.	Clinical	NO	YES
13074	Hepatitis B Vaccination Date 4 cannot be a future date.	Clinical	NO	NO
13075	Hepatitis B Vaccination Date 4 must be on or after 01/01/1973.	Clinical	NO	NO
13076	Hepatitis B Vaccination Date 4 cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13077	Hepatitis B Vaccination Date 4 cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13078	Other Hepatitis C Screen Test exceeds allowed length of {0}.	Clinical	NO	NO
13079	When Hepatitis C Screen Test field is 'Other', then Other Hepatitis C Screen Test field must have a value.	Clinical	NO	NO
13080	Hepatitis C Screening Test Date must be a valid date.	Clinical	NO	YES
13081	Hepatitis C Screening Test Date cannot be a future date.	Clinical	NO	NO
13082	Hepatitis C Screening Test Date must be on or after 01/01/1973.	Clinical	NO	NO
13083	Hepatitis C Screening Test Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13084	Hepatitis C Screening Test Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13085	Anti-HBs (mIU/mL) is mandatory when Anti-HBs Date Performed is populated.	Clinical	NO	NO
13086	Anti-HBs (mIU/mL) exceeds allowed length of {0}.	Clinical	NO	NO
13087	Anti-HBs Date Performed is mandatory when Anti-HBs (mIU/mL) is populated.	Clinical	NO	NO
13088	Anti-HBs Date Performed must be a valid date.	Clinical	NO	YES
13089	Anti-HBs Date Performed cannot be a future date.	Clinical	NO	NO
13090	Anti-HBs Date Performed must be on or after 01/01/1973.	Clinical	NO	NO
13091	Anti-HBs Date Performed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13092	Anti-HBs Date Performed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13093	Oral Vitamin D Analog Prescribed is mandatory.	Clinical	NO	NO
13094	Oral Vitamin D Analog is mandatory when the value in Oral Vitamin D Analog Rx Prescribed is 'Oral Vitamin D Analog Prescribed'.	Clinical	NO	NO
13095	Other Oral Vitamin D Analog is mandatory when Oral Vitamin D Analog is Other.	Clinical	NO	NO
13096	Other Oral Vitamin D Analog exceeds allowed length of {0}.	Clinical	NO	NO
13097	Oral Vitamin D Analog Dosage is mandatory when Oral Vitamin D Analog is populated.	Clinical	NO	YES

13098	Oral Vitamin D Analog Dosage exceeds allowed length of {0}.	Clinical	NO	NO
13099	Oral Vitamin D Analog Dosage must be a numeric value.	Clinical	NO	YES
13100	Oral Vitamin D Analog Dosage Measurement is mandatory when Oral Vitamin D Analog is populated.	Clinical	NO	YES
13101	Serum Parathyroid Hormone (PTH) Collection Date is required when Serum Parathyroid Hormone (PTH) is populated.	Clinical	NO	YES
13102	Serum Parathyroid Hormone (PTH) Collection Date must be a valid date.	Clinical	NO	YES
13103	Serum Parathyroid Hormone (PTH) Collection Date cannot be a future date.	Clinical	NO	NO
13104	Serum Parathyroid Hormone (PTH) Collection Date must be on or after 01/01/1973.	Clinical	NO	NO
13105	Serum Parathyroid Hormone (PTH) Collection Date cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13106	Serum Parathyroid Hormone (PTH) Collection Date cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13107	Other Serum Parathyroid Hormone Type (PTH) is mandatory when Serum Parathyroid Hormone Type is Other.	Clinical	NO	NO
13108	Other Serum Parathyroid Hormone Type (PTH) exceeds allowed length of {0}.	Clinical	NO	NO
13109	Serum Parathyroid Hormone (PTH) Value (pg/mL) exceeds allowed length of 30.	Clinical	NO	NO
13110	Serum Parathyroid Hormone (PTH) Value must be a numeric value.	Clinical	NO	YES
13111	Medication Allergy exceeds allowed length of {0}.	Clinical	NO	YES
13112	Other Medication Allergies is mandatory when Medication Allergies is Other.	Clinical	NO	NO
13113	Medication Allergies is mandatory.	Clinical	NO	NO
13114	Other Medication Allergy exceeds allowed length of {0}.	Clinical	NO	NO
13115	Normalized Protein Catabolic Rate (nPCR) Collection Date Performed must be a valid date.	Clinical	NO	YES
13116	Normalized Protein Catabolic Rate (nPCR) Collection Date Performed cannot be a future date.	Clinical	NO	NO
13117	Normalized Protein Catabolic Rate (nPCR) Collection Date Performed must be on or after 01/01/1973.	Clinical	NO	NO
13118	Normalized Protein Catabolic Rate (nPCR) Collection Date Performed cannot be prior to the patient's Date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13119	Normalized Protein Catabolic Rate (nPCR) Collection Date Performed cannot be after the patient's Date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13120	Normalized Protein Catabolic Rate (nPCR) Collection Date is Mandatory when Normalized Protein Catabolic Rate (nPCR) is populated.	Clinical	NO	YES
13121	Normalized Protein Catabolic Rate (nPCR) must be a numeric value.	Clinical	NO	YES
13124*	Normalized Protein Catabolic Rate (nPCR) exceeds allowed length of 30.	Clinical	NO	NO
13126	Other ESA Agent is mandatory when ESA Agent Prescribed is Other.	Clinical	NO	NO
13127	Other ESA Agent Prescribed exceeds allowed length of {0}.	Clinical	NO	NO
13128	ESA Prescribed Date cannot be a future date.	Clinical	NO	NO
13129	ESA Prescribed Date must be on or after 01/1973.	Clinical	NO	NO
13130	ESA Prescribed Date cannot be prior to the patient's date of Birth (<MM/DD/YYYY>).	Clinical	NO	NO
13131	ESA Prescribed Date cannot be after the patient's date of Death (<MM/DD/YYYY>).	Clinical	NO	NO
13132	ESA Prescribed Date must be a valid date.	Clinical	NO	YES
13133	ESA Agent Prescribed is mandatory when ESA Prescribed is Yes.	Clinical	NO	YES
13134	ESA Prescribed Date is mandatory when ESA Prescribed is Yes.	Clinical	NO	YES

13137	ESA Monthly Dose is mandatory when ESA Prescribed is Yes.	Clinical	NO	YES
13138	ESA Monthly Dose Measurement is mandatory when ESA Dose is populated.	Clinical	NO	YES
13139	ESA Monthly Dose exceeds allowed length of {0}.	Clinical	NO	NO
13140	ESA Monthly Dose must be a numeric value.	Clinical	NO	YES
13141	ESA Route is mandatory when ESA Prescribed is Yes.	Clinical	NO	YES
13142	Serum Albumin must be numeric with no more than 2 decimal places.	Clinical	NO	YES
13143	Serum Albumin Lab Method is mandatory when Serum Albumin is populated.	Clinical	NO	YES
13144	Serum Albumin Lower Limit must be numeric with no more than 2 decimal places.	Clinical	NO	NO
13145	Corrected Serum Calcium must be numeric with no more than 1 decimal place.	Clinical	NO	NO
13146	Uncorrected Serum Calcium must be numeric with no more than 1 decimal place.	Clinical	NO	NO
13147	Uncorrected Serum Calcium Date is mandatory when Corrected Serum Calcium is populated.	Clinical	NO	YES
13148	Hemoglobin must be numeric with no more than 1 decimal place.	Clinical	NO	YES
13149	Ferritin must be numeric with no decimal place.	Clinical	NO	YES
13150	TSAT must be numeric with no decimal place.	Clinical	NO	YES
13151	Reticulocyte Hemoglobin (CHr) must be numeric with no decimal place.	Clinical	NO	YES
13152	Serum Creatinine must be numeric with no more than 1 decimal place.	Clinical	NO	YES
13153	Serum Creatinine Date must be the same as the Kt/V Date.	Clinical	YES	NO
13423	Kt/V Date is mandatory when Pre-Dialysis Weight is populated.	Clinical	NO	YES
13424	BUN Post-Dialysis must be numeric with no decimal place.	Clinical	NO	YES
13425	Pho must be numeric with no more than 1 decimal place.	Clinical	NO	NO
13427	Could not find Clinical Question for: {0}	Clinical	NO	NO
13429	Could not find Clinical Question for the patient's collection type. Question is {0}, collection type is {1}.	Clinical	NO	NO
13430	Clinical period cannot be after patient's date of death {0}	Clinical	NO	NO
13431	Serum Albumin Date must be a valid date.	Clinical	NO	YES
13432	Corrected Serum Calcium Date must be a valid date.	Clinical	NO	YES
13433	Serum Creatinine Date must be a valid date.	Clinical	NO	YES
13434	Reticulocyte Hemoglobin (CHr) Date must be a valid date.	Clinical	NO	YES
13435	Ferritin Date must be a valid date.	Clinical	NO	YES
13438	Hemoglobin Collection Date must be a valid date.	Clinical	NO	YES
13439	Intravenous (IV) Iron Prescribed Date must be a valid date.	Clinical	NO	YES
13440	Normalized Protein Catabolic Rate (nPCR) Collection Date must be a valid date.	Clinical	NO	YES
13441	Date Antibiotic Prescribed must be a valid date.	Clinical	NO	YES
13442	Blood Culture Date must be a valid date.	Clinical	NO	YES
13443	Pho Date must be a valid date.	Clinical	NO	YES
13444	TSAT Date must be a valid date.	Clinical	NO	YES
13445	Uncorrected Serum Calcium Date must be a valid date.	Clinical	NO	YES
13447	Weekly Kt/V Date must be a valid date.	Clinical	NO	YES
13448	Kt/V Date must be a valid date.	Clinical	NO	YES
13449	Date Access Type Changed must be a valid date.	Clinical	NO	YES
13450	AV Fistula Usable Date must be a valid date.	Clinical	NO	YES

13451	AVF Creation Date must be a valid date.	Clinical	NO	YES
13452	Date of Reported Dialysis Session must be a valid date.	Clinical	NO	YES
13453	Antibiotic Dose exceeds allowed length of {0}.	Clinical	NO	NO
13454	Infection Hospitalization Date is mandatory when value in Infection Requires Hospitalization is 'Infection requires hospitalization'.	Clinical	NO	NO
13457	Org Patient Id exceeds allowed length of 30	Clinical	NO	NO
20007	Remove action is not yet supported in CROWNWeb. Found remove action for: {0}	Clinical	NO	NO
20016*	Multiple patients mapped to the same external id: {0}	Clinical	NO	NO
20026	Antibiotic Therapy was not Prescribed, Signs of Soft Tissue Infection should not be provided.	Clinical	NO	NO
20027	Antibiotic Therapy was not Prescribed, Blood Culture Result should not be provided.	Clinical	NO	NO
20028	Antibiotic Therapy was not Prescribed, Infection Requires Hospitalization should not be provided.	Clinical	NO	NO
20029	Antibiotic Therapy was not Prescribed, Symptoms of Clinical Sepsis should not be provided.	Clinical	NO	NO
20030	Antibiotic Therapy was not Prescribed, Antibiotic Name should not be provided.	Clinical	NO	NO
20031	Antibiotic Therapy was not Prescribed, Date Antibiotic Prescribed should not be provided.	Clinical	NO	NO
20032	Antibiotic Therapy was not Prescribed, Antibiotic Dose should not be provided.	Clinical	NO	NO
20033	Antibiotic Therapy was not Prescribed, Antibiotic Dose Measure should not be provided.	Clinical	NO	NO
20034	Antibiotic Therapy was not Prescribed, Antibiotic Frequency should not be provided.	Clinical	NO	NO
20035	Antibiotic Therapy was not Prescribed, Antibiotic Route should not be provided.	Clinical	NO	NO
20036	Infection Hospitalization Date has been provided, 'Infection Requires Hospitalization' must be selected for Infection Requires Hospitalization.	Clinical	NO	NO
20037	Vaccination data is required for HD or PD clinical submissions.	Clinical	NO	NO
20038	Oral Vitamin D Analog is not Prescribed, Oral Vitamin D Analog should not be provided.	Clinical	NO	NO
20039	Oral Vitamin D Analog is not Prescribed, Oral Vitamin D Analog Dosage should not be provided.	Clinical	NO	NO
20040	Oral Vitamin D Analog is not Prescribed, Oral Vitamin D Analog Dosage Measurement should not be provided.	Clinical	NO	NO
20043	AV Fistula Usable Date should not be provided based on the Current Access Type populated.	Clinical	NO	NO
20044	AV Fistula Creation Date should not be provided based on the value of Current Access Type and AV Fistula Maturing populated.	Clinical	NO	NO
20045	Maturing AVF Present should not be provided based on the Current Access Type populated.	Clinical	NO	NO
20046	Non-Oral Vitamin D Analog is not Prescribed, Non-Oral Vitamin D Analog should not be provided.	Clinical	NO	NO
20047	Non-Oral Vitamin D Analog is not Prescribed, Non-Oral Vitamin D Analog Dosage should not be provided.	Clinical	NO	NO
20048	Non-Oral Vitamin D Analog is not Prescribed, Non-Oral Vitamin D Analog Route should not be provided.	Clinical	NO	NO
20049	Non-Oral Vitamin D Analog Dosage cannot be populated when Non-Oral Vitamin D Analog Prescribed is set to 'False'	Clinical	NO	NO
20050	Non-Oral Vitamin D Analog cannot be populated when Non-Oral Vitamin D Analog Prescribed is set to 'False'	Clinical	NO	NO
20051	Other Non-Oral Vitamin D Analog cannot be populated when Non-Oral Vitamin D Analog Prescribed is set to 'False'	Clinical	NO	NO
20052	Non-Oral Vitamin D Analog Route cannot be populated when Non-Oral Vitamin D Analog Prescribed is set to 'False'	Clinical	NO	NO
20053	Non-Oral Vitamin D Analog Dosage (mcg) exceeds allowed length of 30.	Clinical	NO	NO
20054	Antibiotic Therapy was not Prescribed, Peritoneal Dialysate Culture Result should not be provided.	Clinical	NO	NO

20055	Antibiotic Therapy was not Prescribed, Result of Peritoneal Dialysis Effluent Analysis should not be provided.	Clinical	NO	NO
99999	An unexpected error happened while processing the file. Error details are: {0}	Clinical	NO	NO
*Error Code and Message can only be replicated by altering data within the database.				

CROWNWeb 4.1 - SELF ATTESTATION ERROR MESSAGES & CODES				
ERROR CODE	MESSAGE	CATEGORY	IS WARNING	SCHEMA ONLY VALIDATION
30000	The measurement {0} has already been submitted for facility {1} for the performance year {2}.	Self Attestation	NO	NO
30001	Facility Attestation cannot be performed outside of the dates {0} to {1} for performance year {2}.	Self Attestation	NO	NO
30002	Attestation on behalf of is provided for {0}. {0} is required.	Self Attestation	NO	NO
30003	{0} is provided. Attesting on behalf of is required.	Self Attestation	NO	NO
30004	Invalid CROWN Personnel ID provided for Attesting on Behalf Of. CROWN Personnel ID was not found to exist for Facility. Please provide a valid CROWN Personnel ID.	Self Attestation	NO	NO
30005	{0} reason is N/A. N/A reason is required.	Self Attestation	NO	NO
30006	N/A is not a valid value for Mineral Metabolism.	Self Attestation	NO	NO
30007	NA Reason is invalid. NA Reason should be null when Attestation Response is not NA.	Self Attestation	NO	NO
30009	NA Reason is invalid.	Self Attestation	NO	NO
30010	Attestation Response provided is Invalid.	Self Attestation	NO	NO
99999	An unexpected error happened while processing the file. Error details are: {0}	Self Attestation	NO	NO

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