

About this document

The specifications in this document follow guidelines in the CMS QRDA specifications.

NOTE: Some customizations have been made to accommodate Promoting Interoperability reporting.

This document contains the following:

<u>Code for Attributes</u>	<u>Intervention, Order</u>	<u>Device Order</u>	<u>Medication Intolerance (2 - Deprecated)</u>
<u>Header</u>	<u>Medication, Order</u>	<u>Device, Applied</u>	<u>Medication Adverse Effect</u>
<u>Measure Section</u>	<u>Medication, Discharge</u>	<u>Procedure, Order</u>	<u>Diagnosis, Resolved</u>
<u>Patient Data Section</u>	<u>Medication, Administered</u>	<u>Diagnostic Study, Order</u>	<u>Problem Observation</u>
<u>Patient Characteristic - Payer</u>	<u>Medication, Active</u>	<u>Diagnostic Study, Result (Deprecated)</u>	<u>Allergy Intolerance</u>
<u>Reporting Parameters Section</u>	<u>Medication Allergy</u>	<u>Diagnostic Study, Performed</u>	<u>Medication Intolerance (Deprecated)</u>
<u>Encounter, Performed</u>	<u>Symptom, Active</u>	<u>Tobacco Use</u>	
<u>Diagnosis, Active</u>	<u>Risk Category Assessment</u>	<u>Physical Exam, Performed</u>	
<u>Diagnosis, Inactive</u>	<u>Lab Test, Order</u>	<u>Patient Preference</u>	
<u>Procedure, Performed</u>	<u>Lab Test, Result (Deprecated)</u>	<u>Encounter, Order</u>	
<u>Intervention, Performed</u>	<u>Lab Test, Performed</u>	<u>Diagnosis Family History</u>	
<u>Intervention, Order</u>	<u>Communication (Deprecated)</u>	<u>Clinical Trial Participant</u>	

Code for Attributes

Sr. Nos	Code description	Codes
1	Excluded hospital discharge service codes	R_N_L_P_N_L_O_N_L_N_N_L_I_N_L_H_N_L_F_N_L_E_N_L_B_N_L_R_Y_L_P_Y_L_O_Y_L_N_Y_L_I_Y_L_H_Y_L_F_Y_L_E_Y_L_B_Y_L_R_N_P_P_N_P_O_N_P_N_N_P_I_N_P_H_N_P_F_N_P_E_N_P_B_N_P_R_Y_P_P_Y_P_O_Y_P_N_Y_P_I_Y_P_H_Y_P_F_Y_P_E_Y_P_B_Y_P_R_N_R_P_N_R_O_N_R_N_N_R_I_N_R_H_N_R_F_N_R_E_N_R_B_N_R_R_Y_R_P_Y_R_O_Y_R_N_Y_R_I_Y_R_H_Y_R_F_Y_R_E_Y_R_B_Y_R_R_N_M_P_N_M_N_N_M_H_N_M_F_N_M_B_N_M_R_Y_M_P_Y_M_O_Y_M_N_Y_M_I_Y_M_H_Y_M_F_Y_M_E_Y_M_B_Y_M
2	Inpatient encounter codes	10378005,112689000,112690009,1505002,15584006,18083007,183452005,183455007,183457004,183458009,183459001,183460006,183461005,183462003,183463008,183464002,183465001,183466000,183467009,183468004,183469007,183470008,183471007,183472000,183473005,183474004,183475003,183476002,183477006,183478001,183481006,183497001,19951005,2252009,23473000,25986004,266938001,2876009,304568006,305335007,305337004,305338009,305339001,305340004,305341000,305342007,305343002,305344008,305345009,305346005,305347001,305348006,308540004,32485007,36723004,40274000,405614004,417005,4563007,45702004,47348005,48183000,50699000,51032003,51501005,5161006,52748007,55402005,60059000,63551005,65043002,70755000,71290004,73607007,74857009,76464004,78680009,81672003,82942009,8715000,99238,99239,99221,99222,99223
3	ED encounter codes	12843005,4525004,87790002,99281,99282,99283,99284,99285
4	Gendercodes	M,F
5	Racecodes	1002-5,2028-9,2054-5,2076-8,2106-3,DECLINED
6	Ethnicitycodes	2135-2,2186-5,DECLINED
7	Preferredlanguagecodes	abk,ace,ach,ada,ady,aar,afh,af,afa,ain,aka,akk,alb,ale,alg,tut,amh,anp,apa,ara,arg,arp,arw,arm,arp,asm,ast,ath,aus,map,ava,ave,awa,aym,aze,ban,bat,bal,bam,bai,bad,bnt,bas,bak,baq,btk,bej,bel,bem,ben,ber,bho,bih,bik,bin,bis,byn,zbl,nob,bos,bra,bre,bug,bul,bua,bur,cad,cat,cau,ceb,cel,cai,khm,chg,cmc,cha,che,chr,chy,chb,nya,chi,chn,chp,cho,chu,chk,chv,nwc,sys,cop,cor,cos,cre,mus,crp,cpe,cpf,cpp,crh,hrv,cus,cze,dak,dan,dar,del,din,div,doi,dgr,dra,dua,dum,dut,dyu,dzo,frs,efi,egy,eka,elx,eng,enm,ang,myv,epo,est,ewe,ewo,fan,fat,fao,fij,fil,fin,fiu,fon,fore,frm,fro,fur,ful,gaa,gla,car,glg,lug,gay,gba,gez,geo,ger,gmh,goh,gem,gil,gon,gor,got,grb,grc,gre,grn,guj,gwi,hai,haf,hau,haw,heb,her,hil,him,hin,hmo,hit,hmn,hun,hup,iba,ice,ido,ibo,ijo,ilo,smn,inc,ine,ind,inh,ina,ile,iku,ipk,ira,gle,mga,sga,iro,ita,jpn,jav,jrb,jpr,kbd,kab,kac,kal,xal,kam,kan,kau,krc,kaa,krl,kar,kas,csb,kaw,kaz,kha,khi,kho,kik,kmb,kin,kir,thl,kom,kon,kok,kor,kos,kpe,kro,kua,kum,kur,kru,kut,lad,lah,lam,day,lao,lav,lez,lim,lin,lit,jbo,nds,dsb,loz,lub,lua,lu,smj,lun,luo,lus,ltz,mac,mdf,mol,lol,mon,mkh,mos,mul,mun,nav,nde,nbl,ndo,nap,new,nep,nia,nic,ssan,niu,nqo,zxx,nog,non,nai,frr,sme,nor,nno,nub,nym,nyn,nyo,nzi,oci,arc,oji,ori,orm,osa,oss,oto,pal,pau,pli,pam,pag,pan,pap,paa,nso,per,peo,phi,phn,pon,pol,por,pra,pro,pus,que,raj,rap,rar,qaa-qtz,roa,rum,roh,rom,run,rus,sal,sam,smi,smo,sad,sag,san,sat,srd,sas,sco,sel,sem,srp,srr,shn,sna,iii,scn,sid,sgn,bla,snd,sin,sit,sio,sms,den,sla,slo,slv,sog,som,son,snk,wen,sot,sai,alt,sma,spa,srn,suk,sux,sun,sus,swa,ssw,swe,gsu,syr,tgl,tah,tai,tgk,tmh,tam,tat,tel,ter,tet,tha,tib,tig,tir,tiv,tli,tpi,tkl,tog,ton,tsi,tso,tsn,tum,tup,tur,ota,tuk,tvl,tyv,twi,udm,uga,uig,ukr,umb,mis,und,hsb,urd,uzb,vai,ven,vie,vol,vot,wak,wal,wln,war,was,wel,fry,wol,xho,sah,yao,yap,yid,yor,ypk,znd,zap,zza,zen,zha,zul,zun,DECLINED
8	Patient specific education material provided	RSPPREDR
9	Patient from another setting of care or provider	2,4,5,6,B,D,E,F (admissionsourcecode)
10	Medication reconciliation procedure	430193006
11	Observation codes for smoking status captured	449868002,428041000124106,8517006,266919005,77176002,266927001,428071000124103,428061000124105
12	Observation codes for body height	3137-7,3138-5,8302-2,8306-3,8307-1,8308-9,50373000,309534003
13	Observation codes for body weight	3141-9,27113001,309534004,18833-4,29463-7,3142-7,8350-1,8351-9
14	Observation codes for systolic blood pressure	8479-8, 8480-6, 8459-0, 8460-8, 8461-6,12929001, 163030003, 251070002, 251071003, 271649006, 314438006, 314439003, 314440001, 314441002, 314442009, 314443004, 314444005, 314445006, 314446007, 314447003, 314448008, 314449000, 314464000, 315612005, 399304008, 400974009, 407554009, 407556006, 72313002, 81010002
15	Observation codes for diastolic blood pressure	8462-4, 8453-3, 8454-1, 8455-8,163031004, 174255007, 251073000, 271650006, 314451001, 314452008, 314453003, 314454009, 314455005, 314456006, 314457002, 314458007, 314459004, 314460009, 314461008, 314462001, 314465004, 315613000, 400975005, 407555005, 407557002, 42689008, 53813002

Code for Attributes

Sr. Nos	Code description	Codes
16	Patient health information is available online	EVNPTINFA
17	Patient has viewed their health information	AUDPTVDI
18	Patient has downloaded their health informatio	AUDPTDDI
19	Patient has transmitted their health informatior	AUDPTTDDI
20	Discharge dispostion codes for transferred to an	02,03,04,05,06,43,50,51,62,63,64,65,66,70,71,10161009
21	Discharge dispostion codes for transferred to an	160733006,183921001,304567001,419955002,45618002,433591000124103,385763009,444933003,16384001,183919006,183920000,2235 7001,284546000,305340004,305347001,305348006,310206007,35313001,36723004,42665001,63997002,309904001,309905000,3099070 08,309908003,309909006,309910001,309911002,404821007,418433008,422798006,426439001,441994008,428371000124100,428361000 124107,306699001,306701001,426439001
		OID-2.16.840.1.113883.3.666.5.3013,OID- 2.16.840.1.113883.3.666.5.2202,OID- 2.16.840.1.113883.3.117.1.7.1.209,OID- 2.16.840.1.113883.3.666.5.3008,OID- 2.16.840.1.113883.3.666.5.648,OID- 2.16.840.1.113883.3.117.1.7.1.207,OID- 2.16.840.1.113883.3.666.5.3007,OID- 2.16.840.1.113883.3.666.5.647,OID- 2.16.840.1.113883.3.117.1.7.1.132,OID- 2.16.840.1.113883.3.117.1.7.1.87
22	Patient specific care summary record provided	RSPPRCCR,RSPCSGCERT,RSPCSCEHRT
23	Electronic progress note created, edited and sig	RSPPRENT
24	Relationcodes	444193000,75226009,75226009,113160008,83420006,13646006,65656005,82101005,60614009,81276006,81467001,78194006,21093007, 45929001,2272004,73678001,19343003,29644004,50058005,11286003,313416000,113158006,313415001,10896006,11286003,9947008,4 44193000,75226009,83420006,113160008,444294004,444295003,444301002,444192005,444194006,444241008,444302009,444303004,4 44304005
25	Locationtypecode	1162-7
26	No known allergy, no history of drug allergy	160244002, 409137002
27	Indication that the patient is not currently presc	182849000
28	Indication that no problems are known	160245001
29	Discharge disposition codes for patient expired	798.9,R99
30	Discharge disposition codes for patient expired	20,40,41,42
31	Disease type AND/OR category unknown	3219008
32	Patient Expired / Dead Snomed Code	419099009
		OID-2.16.840.1.113883.3.666.5.1146

Header

Description This section describes constraints that apply to the header for all entities within the scope of the QRDA. The header contains following details

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
ClinicalDocument			Node			R		
realmCode	<i>code</i>		Node			R		
			Attribute	Constant	US	R		
typeId	<i>extension</i>		Node			R		
	<i>root</i>		Attribute	Constant	POCD_HD000040	R		
			Attribute	Constant	2.16.840.1.113883.1.3	R		
templateId	<i>root</i>		Node			R		
			Attribute	Constant	2.16.840.1.113883.10.20.22.1.1	R		US Realm Header Template Id
templateId	<i>root</i>		Node			R		
			Attribute	Constant	2.16.840.1.113883.10.20.24.1.1	R		QRDA template Id
templateId	<i>root</i>		Node			R		
			Attribute	Constant	2.16.840.1.113883.10.20.24.1.2	R		QRDA template Id
id	<i>root</i>		Node					
	<i>extension</i>		Attribute	Constant	2.16.840.1.113883.3.1579.835053534848.1.10	O		
			Attribute		0	O		Unique identifier for the document
code	<i>code</i>		Node			R		
			Attribute	Constant	55182-0	R		This code indicates the kind of document. For QRDA document, type code is fixed as 55182-0.
	<i>codeSystem</i>		Attribute	Constant	2.16.840.1.113883.6.1	R		Constant value and need not be updated.
	<i>codeSystemName</i>		Attribute	Constant	LOINC	R		Constant value and need not be updated.
	<i>displayName</i>		Attribute	Constant	Quality Measure Report	R		Constant value and need not be updated.
title			Node	Constant	QRDA Incidence Report	R		Constant value and need not be updated.
effectiveTime	<i>value</i>		Node			R		
			Attribute			R	yyyyMMdd[h:mm:ss[.fff]]	Timestamp of document creation
confidentialityCode	<i>code</i>		Node			R		
			Attribute	Constant	N	R		Indicates the level of confidentiality of the document. Sample values : N-Normal, R-Restricted,V-Very Restricted
	<i>codeSystem</i>		Attribute	Constant	2.16.840.1.113883.5.25	R		Constant value and need not be updated.

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Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
languageCode			Node			R		
	<i>code</i>		Attribute	Constant	en-US	R		
setId			Node			O		
	<i>extension</i>		Attribute			O		Fixed document ID from the source - extn
	<i>root</i>		Attribute	Constant	2.16.840.1.113883.3.1579.835053534848.1.100	O		Fixed document ID from the source - root
versionNumber			Node			O		
	<i>value</i>		Attribute			O		Fixed document version number from source
recordTarget			Node			R		The recordTarget records the patient whose health information is described by the clinical document
patientRole	id		Node			R		
			Node			R		
			Attribute		fac#/mrn#	R		Patient MRN number / unique identifier for patient
			Attribute	Constant	2.16.840.1.113883.3.1733.999	R		Constant root value indicating the type of identifier represented(Unique Patient identifier : in this id tag)
	id		Node			R		
			Attribute			R		Medicare HIC Number
			Attribute	Constant	2.16.840.1.113883.4.572	R		Constant root value indicating the type of identifier represented(HIC Number : in this id tag)
	addr		Node			O		
			Attribute	Constant	HP	C		Patient Address; required if Node is defined. HP - Primary Home
			Node			O		
			Node			R		
			Node			O		
telecom		Node			R			
		Node			O			
		Attribute	Constant	HP	O		Patient Contact; required if Node is defined	
patient		Attribute			C			
		Node			R		Patient Legal Name	
		Node			R			
		Attribute	Constant	L	R		L- Indicates patient legal name	

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Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			O		
	Node			R	Length = 50	Patient First Name
	Node			R	Length = 50	Patient Last Name
	Node			R		
	Attribute			R		Value can be F - Female, M - Male, UN - Undifferentiated
	Attribute	Constant	2.16.840.1.113883.5.1	R		Constant value and need not be updated.
	Attribute			O		
	Node			R		Date of birth of the patient
	Attribute			R	yyyyMMdd[hmmss[.fff]]	DOB (yyyyMMdd)
	Node			O		
	Attribute			C		Required if Node is defined. Contains value from HL7 Marital Status. Values such as M - Married, A - Annuled, S - Never Married
	Attribute		2.16.840.1.113883.5.2	C		
	Attribute		HL7 Marital Status	O		
	Attribute			O		
	Node			O		
	Attribute			C		Required if Node is defined. Contains value from HL7 Marital Status. Values such as M - Married, A - Annuled, S - Never Married
	Attribute		2.16.840.1.113883.5.1076	C		
	Attribute		Religious Affiliation	O		
	Attribute			O		
	Node			O		
	Attribute			R		Represents the race of the patient. E.g. 2058-6(African American),1004-1(American Indian),DECLINED
	Attribute		2.16.840.1.113883.6.238	R		Race & Ethnicity - CDC
	Attribute			O		CDC
	Attribute			O		
	Node			O		
	Attribute			R		Represents the ethnicity of the patient. E.g. 2135-2(Hispanic or Latino),2186-5(Not Hispanic or Latino),DECLINED
	Attribute		2.16.840.1.113883.6.238	R		Race & Ethnicity - CDC
	Attribute			O		CDC
	Attribute			O		
	Node			R		Represents communication language details
	Node			R		
	Attribute			R		Recommended ISO 639-2

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Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			O		
	Attribute	Constant	RWR	C		Required if Node is defined
	Attribute	Constant	2.16.840.1.113883.5.60	C		Required if Node is defined
	Attribute	Constant	LanguageAbilityMode	O		
	Attribute	Constant	Receive Written	O		
	Node			O		
	Attribute	Constant	true	O		
providerOrganization	Node			R		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.3.1733.1015	R		Constant value and need not be updated.
	Attribute			R		Organization ID, Represents the organization where the patient belongs to- could be hard coded
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.6	O		Constant value and need not be updated.
	Attribute			O		Organization NPI - if available
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.2	O		Constant value and need not be updated.
	Attribute			O		Organization TIN - if available
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.336	O		Constant value and need not be updated.
	Attribute			O		Organization CCN - if available
	Node			R		Organization Name - could be hard coded
	Node			R		Organization Telephone number
	Attribute	Constant	WP	R		
	Attribute	Constant	not available	R		
	Node			O		Organization Address
	Node			O		
	Node			O		
	Node			O		
	Node			O		
	Node			O		
author	Node			R		
time	Node			R		
value	Attribute			R		Timestamp of document creation
assignedAuthor	Node			R		
id	Node			R		

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Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
			Attribute	Constant	2.16.840.1.113883.3.1733.1020	R		Constant value and need not be updated.
		id	Attribute		fac#/provider_id#	R		Admitting Provider ID
			Node			R		
			Attribute	Constant	2.16.840.1.113883.4.6	R		Constant value and need not be updated.
		telecom	Attribute			R		Admitting Provider NPI
			Node			R		
			Attribute	Constant	WP	R		
		assignedPerson	Attribute			R		Admitting Provider's contact number
			Node			R		
			Node			R		Admitting Provider Name
			Node			O		
			Node			R	Length = 50	First Name
			Node			R	Length = 50	Last Name
informant		assignedEntity						
			Node			R		
		id	Attribute	Constant	2.16.840.1.113883.3.1733.1015	R		Constant value and need not be updated.
			Attribute			R		Organization GUID
		representedOrganization						
			Node			R		
			Attribute	Constant	2.16.840.1.113883.19.5	R		Constant value and need not be updated.
			Attribute			R		Source System Name
			Node			R		Source Organization / Facility Name
custodian		assignedCustodian						
			Node			R		
			Node			R		
		representedCustodianOrganization						
			Node			R		
			Attribute	Constant	2.16.840.1.113883.3.1733.1019	R		Domain ID - different if BI is receiving files from multiple EHRs; could be hard coded to '1' if source is one EHR
			Attribute			R		
			Node			R		Domain Name - could be hard coded to the EHR Name
			Node			R		

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Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
			Attribute	Constant	WP	R		
			Attribute			R		
			Node			R		
			Node			R		Domain's Address
			Node			R		
			Node			R		
			Node			R		
			Node			R		
			Node			R		A legal authenticator is a verifier who officially authenticates the accuracy of the document.
	legalAuthenticator		Node			R		
		time	Node			R		
		<i>value</i>	Attribute			R		Document creation timestamp
		signatureCode	Node			R		
		<i>code</i>	Attribute	Constant	S	R		
		assignedEntity	Node			R		
		id	Node			R		
			Attribute	Constant	2.16.840.1.113883.3.1733.1020	R		
		telecom	Attribute		fac#/provider_id#	R		Admitting Provider ID
			Node			R		
			Attribute	Constant	WP	R		
		assignedPerson	Attribute			R		Admitting Provider contact number
			Node			R		
			Node			R		Admitting Provider Name
			Node			R		Last Name
			Node			R		First Name
	componentOf		Node			R		The componentOf element is used to wrap the encompassing encounter for this document. The encompassing encounter represents the setting of the clinical encounter during which the document act(s) or ServiceEvent occurred.
		encompassingEncounter	Node			R		
		id	Node			R		
			Attribute	Constant	2.16.840.1.113883.3.1733.1000	R		Constant value and need not be updated.
			Attribute		fac#/enc_nbr#	R		Encounter / Visit ID - usually the one for which the QRDA is created.
		code	Attribute		Constant for outpatient - 373864002, for inpatient get from source if null use 32485007	R		This value indicates the type of encounter : Inpatient/Outpatient

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If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
codeSystem				R		SNOMED-CT recommended or UB92Code
codeSystemName		Constant		O		SNOMEDCT
displayName				O		
effectiveTime	Node			R		Specifies the interval of the encounter/visit
	Node			R		
	Attribute			R	yyyyMMdd[hhmmss[.fff]]	Encounter / Visit Start Timestamp
	Node			R		
	Attribute			R		Encounter / Visit End Timestamp
dischargeDispositionCode	Node			R		The dischargeDispositionCode extension allows the provider to record a discharge disposition in an encounter activity.
	Attribute			R		
	Attribute			R		SNOMED-CT recommended or UB92Code
	Attribute			O		SNOMED-CT recommended or UB92Code
	Attribute			O		
encounterParticipant	Node			R		Specifies the details about the attending physician involved in the encounter
	Attribute	Constant	ADM	R		
	Node			R		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.3.1733.1020	R		Constant value and need not be updated.
	Attribute		fac#/provider_id#	R		Unique identifier of Admitting Provider
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.6	O		Constant value and need not be updated.
	Attribute			O		Admitting Provider NPI - if available
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.2	O		Constant value and need not be updated.
	Attribute			O		Admitting Provider TIN - if available
	Node			R		
	Node			R		
prefix	Node			O		
first	Node			R	Length = 50	Admitting Provider First Name
given	Node			R	Length = 50	Admitting Provider Last Name

Header

Description This section describes constraints that apply to the header for all entities within the scope of the QRDA.
The header contains following details

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
location	Node			R		Specifies the the details about the healthcare facility where the encounter act took place
	Node			R		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.3.1733.1011	R		Constant value and need not be updated.
	Attribute		fac#	R		Unique identifier of the healthcare Facility
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.6	O		Constant value and need not be updated.
	Attribute			O		Facility NPI - if available
	Node			O		Constant value and need not be updated.
	Attribute	Constant	2.16.840.1.113883.4.2	O		Facility TIN - if available
	Attribute			O		
	Node			O		
	Attribute	Constant	2.16.840.1.113883.4.336	O		Constant value and need not be updated.
	Attribute			O		Facility CCN (CMS Certification Number)
	Node			O		
	Node			C		Facility Name
	Node			O		Address details of the facility
streetAddressLine	Node			O		
city	Node			O		
state	Node			O		
postalCode	Node			O		
country	Node			O		

Header

Description This section describes constraints that apply to the header for all entities within the scope of the QRDA.
The header contains following details

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	----------------	------------	-------	-------	-------------	------------------------

Header Sample: Part#1 (File Header)

```
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="urn:h17-org:v3">
  <realmCode code="US" />
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
  <templateId root="2.16.840.1.113883.10.20.22.1.1" />
  <templateId root="2.16.840.1.113883.10.20.24.1.1" />
  <templateId root="2.16.840.1.113883.10.20.24.1.2" />
  <id root="0a390dae-8922-4e10-a8b7-cc238192d3a3" />
  <code code="55182-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Quality Measure Report" />
  <title>QRDA Incidence Report</title>
  <effectiveTime value="20130114000000" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
  <languageCode code="en-US" />
  <setId extension="10032" />
  <recordTarget>
```

Header

Description This section describes constraints that apply to the header for all entities within the scope of the QRDA.
The header contains following details

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	----------------	------------	-------	-------	-------------	------------------------

Header Sample: Part#2 (Record Target)

```

<recordTarget>
  <patientRole>
    <id root="2.16.840.1.113883.3.1733.999" extension="100002" />
    <addr use="HP">
      <streetAddressLine>homeaddress1</streetAddressLine>
      <city>MUM</city>
      <state>MAH</state>
      <country>IND</country>
      <postalCode>400013</postalCode>
    </addr>
    <telecom value="2458446" use="HP" />
    <patient>
      <name>
        <given>FirstName5035</given>
        <family>LastName5035</family>
      </name>
      <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1" />
      <birthTime value="19870130000000" />
      <raceCode code="1068-6" codeSystem="2.16.840.1.113883.5.104" />
      <ethnicGroupCode code="2163-4" codeSystem="2.16.840.1.113883.5.50" />
    </patient>
    <providerOrganization>
      <id root="2.16.840.1.113883.3.1733.1015" extension="1" />
      <id root="2.16.840.1.113883.3.1733.1016" extension="4566567895" />
      <id root="2.16.840.1.113883.3.1733.1017" extension="334455227" />
      <id root="2.16.840.1.113883.3.1733.1018" extension="1123455" />
      <name>Key IPA</name>
      <addr use="HP">
        <streetAddressLine>homeaddress1</streetAddressLine>
        <city>MUM</city>
        <state>MAH</state>
        <country>IND</country>
        <postalCode>400013</postalCode>
      </addr>
    </providerOrganization>
  </patientRole>
</recordTarget>

```

Header

Description This section describes constraints that apply to the header for all entities within the scope of the QRDA.
The header contains following details

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

If node value is not available set it to NullFlavor=NA. Refer sample QRDA.

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	----------------	------------	-------	-------	-------------	------------------------

Header Sample: Part#3 (Component Of)

```

<componentOf>
  <encompassingEncounter classCode="ENC" moodCode="EVN">
    <id root="2.16.840.1.113883.3.1733.1000" extension="664707" />
    <code code="INP" codeSystem="2.16.840.1.113883.6.100" codeSystemName="SNOMED CT" />
    <effectiveTime>
      <low value="20120116111500" />
      <high value="20120323111500" />
    </effectiveTime>
    <dischargeDispositionCode code="321453" codeSystem="2.16.840.1.113883.6.100" codeSystemName="SNOMED CT" />
    <encounterParticipant typeCode="ADM">
      <assignedEntity>
        <id root="2.16.840.1.113883.3.1733.1020" extension="1113" />
        <id root="2.16.840.1.113883.3.1733.1021" extension="4566567895" />
        <id root="2.16.840.1.113883.3.1733.1022" extension="334455223" />
        <assignedPerson>
          <name>
            <given>Provider1113</given>
            <family>Provider1113</family>
          </name>
        </assignedPerson>
      </assignedEntity>
    </encounterParticipant>
    <location>
      <healthCareFacility>
        <id root="2.16.840.1.113883.3.1733.1011" extension="3" />
        <id root="2.16.840.1.113883.3.1733.1012" extension="4566567895" />
        <id root="2.16.840.1.113883.3.1733.1013" extension="334455221" />
        <id root="2.16.840.1.113883.3.1733.1014" extension="1123455" />
        <location>
          <name>HMS</name>
          <addr use="HP">
            <streetAddressLine>ad</streetAddressLine>
            <city>cds</city>
            <state>12</state>
            <country>123</country>
            <postalCode>234</postalCode>
          </addr>
        </location>
      </healthCareFacility>
    </location>
  </encompassingEncounter>
</componentOf>

```

Measure Section

Description This section contains information about the measure or measures being reported. For the inbound QRDA point of view, this section is just needed to satisfy schema validations. So only the skeleton is required, no measure details need be specified.

Legend

Font Italics = Attribute

Usage R = Required C = Conditional

Node Hierarchy				Component Type	Value Type	Value	Usage	Description / Comments
component				Node			R	
	section			Node			R	
		templateId		Node			R	
			<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.24.2.2	R	Template Id for Measure Section. Constant value and need not be updated.
		templateId		Node			R	
			<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.24.2.3	R	Template Id for Measure Section QDM. Constant value and need not be updated.
		code		Node			R	
			<i>code</i>	Attribute	Constant	55186-1	R	Constant LOINC code for 'Measure Document'
				Attribute	Constant	2.16.840.1.113883.6.1	R	
		title		Node	Constant	Measure Section	R	
		text		Node	Constant	Measure Section	R	
		entry		Node			R	
			organizer	Node			R	
				Attribute	Constant	CLUSTER	R	
				Attribute	Constant	EVN	R	
				Node			R	
				Attribute	Constant	2.16.840.1.113883.10.20.24.3.98	R	Template Id for Measure Reference
				Node			R	
				Attribute	Constant	2.16.840.1.113883.10.20.24.3.97	R	Template Id for eMeasure Reference QDM
				Node			R	
				Attribute	Constant	completed	R	

Measure Section

Description This section contains information about the measure or measures being reported. For the inbound QRDA point of view, this section is just needed to satisfy schema validations. So only the skeleton is required, no measure details need be specified.

Legend

Font Italics = Attribute
 Usage R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
----------------	----------------	------------	-------	-------	------------------------

Measure Section Sample

```
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.24.2.2" />
    <templateId root="2.16.840.1.113883.10.20.24.2.3" />
    <code code="55186-1" codeSystem="2.16.840.1.113883.6.1" />
    <title>Measure Section</title>
    <entry>
      <organizer classCode="CLUSTER" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.98" />
        <templateId root="2.16.840.1.113883.10.20.24.3.97" />
        <statusCode code="Completed" />
        <reference typeCode="REFR">
          <externalDocument moodCode="EVN">
            <id root="8a4d92b2-37d1-f95b-0137-dd4b0eb62de6" />
            <id root="2.16.840.1.113883.3.560.1" extension="496" />
            <id root="2.16.840.1.113883.3.560.101.2" extension="32" />
            <text>Median Time from ED Arrival to ED Departure for Discharged ED Patients</text>
            <setId root="3fd13096-2c8f-40b5-9297-b714e8de9133" />
            <versionNumber value="1" />
          </externalDocument>
        </reference>
      </organizer>
    </entry>
  </section>
</component>
```


Patient Data Section

Description The Patient Data Section contains clinically significant patient data. The Patient Data Section contains entries that conform to the QDM approach to QRDA. Encounter Performed, Laboratory Test Result, Medication Active are some of the examples of QDM entries.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy		Value Type	Value	Usage	Description / Comments
component				R	
	section			R	
		templated		R	
					Template Id for Patient Data Section. Constant value and need not be updated.
			<i>root</i>	Constant	2.16.840.1.11388R
		templated		R	
					Template Id for Patient Data Section QDM. Constant value and need not be updated.
			<i>root</i>	Constant	2.16.840.1.11388R
		code		R	

Patient Data Section

Description The Patient Data Section contains clinically significant patient data. The Patient Data Section contains entries that conform to the QDM approach to QRDA. Encounter Performed, Laboratory Test Result, Medication Active are some of the examples of QDM entries.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy	Value Type	Value	Usage	Description / Comments
				LOINC code for 'Patient Data Document'. Constant value and need not be updated.
	<i>code</i>	Constant	55188-7	R
		Constant	2.16.840.1.11388	R
title		Constant	Patient Data	R
text		Constant	Patient Data	R
entry 1				
entry 2				
entry 3				
.				
.				
entry n				

Patient Data Section

Description The Patient Data Section contains clinically significant patient data. The Patient Data Section contains entries that conform to the QDM approach to QRDA. Encounter Performed, Laboratory Test Result, Medication Active are some of the examples of QDM entries.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy	Value Type	Value	Usage	Description / Comments
----------------	------------	-------	-------	------------------------

Patient Data Sample

```

<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.17.2.4" />
    <templateId root="2.16.840.1.113883.10.20.24.2.1" />
    <code code="55188-7" codeSystem="2.16.840.1.113883.6.1" />
    <title>Patient Data</title>
    <entry>...
    <entry>...
    <entry>...
    <entry>...
  </section>
</component>
    
```

Patient Characteristic - Payer

Description The Patient Characteristic Payer template represents the policy or program providing the coverage for the patient

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	OBS	R		Constant value
		<i>templateId</i>	Attribute	Constant	EVN	R		Constant value
			Node			R		
	id	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Patient Characteristic: Payer Template Id
		<i>root</i>	Node			R		
			Attribute	Constant	2.16.840.1.113883.3R	R		
	code		Attribute		fac#/encnbr#/Payer	R		
			Node			R		
		<i>code</i>	Attribute	Constant	48768-6	R		Code for Payment source. LOINC code is recommended
		<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6R	R		Code system name for above code
		<i>codeSystemName</i>	Attribute	Constant	LOINC	R		
		<i>displayName</i>	Attribute	Constant	Payment source	R		
	statusCode		Node			R		
		<i>code</i>	Attribute	Constant	completed	R		
	value		Node			R		
		<i>xsi:type</i>	Attribute	Constant	CD	R		
		<i>code</i>	Attribute			R		Payer Identifier for eg '1' for Medicare
		<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.3R	R		
		<i>codeSystemName</i>	Attribute	Constant	Source of Payment TR	R		
		<i>displayName</i>	Attribute			O		
		<i>sdct:valueSet</i>	Attribute			O		

Patient Characteristic - Payer

Description The Patient Characteristic Payer template represents the policy or program providing the coverage for the patient

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy

Patient Characteristic - Payer Sample

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.55" />
    <id root="2.16.840.1.113883.3.1793.100" extension="111/3612742/81" />
    <code code="48768-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
      displayName="Payment source" />
    <statusCode code="completed" />
    <value xsi:type="CD" code="81" codeSystem="2.16.840.1.113883.3.221.5"
      codeSystemName="Source of Payment Typology" displayName="Self Pay"/>
  </observation>
</entry>

```

Reporting Parameters Section

Description The Reporting Parameters section provides information about the reporting time interval and may contain other information that helps provide context for the patient data being reported.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy				Component Type	Value Type	Value	Usage	Description / Comments
component				Node			R	
	section			Node			R	
		templateId		Node			R	
			<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.17.2.1	R	Template Id for Reporting Parameters Section. Constant value and need not be updated.
				Node			R	
		code		Attribute	Constant	55187-9	R	LOINC code for 'Reporting Parameters Document'. Constant value and need not be updated.
			<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6.1	R	
				Node	Constant	Reporting Parameters	R	
		text		Node	Constant	Reporting Parameters	R	

Reporting Parameters Section Sample

```
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.17.2.1" />
    <code code="55187-9" codeSystem="2.16.840.1.113883.6.1" />
    <title>Reporting Parameters</title>
    <entry typeCode="DRIV">
```

Reporting Parameters Section

Description The Reporting Parameters section provides information about the reporting time interval and may contain other information that helps provide context for the patient data being reported.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
<pre> <act classCode="ACT" moodCode="EVN"> <templateId root="2.16.840.1.113883.10.20.17.3.8" /> <code code="252116004" codeSystem="2.16.840.1.113883.6.96" displayName="Observation Parameters" /> <effectiveTime> <low value="20120101000000" /> <high value="20121231235959" /> </effectiveTime> </act> </entry> </section> </component> </pre>					

Encounter, Performed

Description This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges

Legend

Font *Italics = Attribute*

i

Usage R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	Node			R		
encounter	Node			R		
<i>classCode</i>	Attribute	Constant	ENC	R		
<i>moodCode</i>	Attribute	Constant	EVN	R		
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.22.4.49	R		Encounter activities template
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.24.3.23	R		Encounter performed template
<i>id</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.3.1733.1000	R		
<i>extension</i>	Attribute		fac#/enc_nbr#/**	R	Length = 100	Unique Encounter / Visit ID for organization *** INP/ ED/ OP/ FAC_LOC
<i>code</i>	Node			R		
<i>code</i>	Attribute			R	Length = 50	To define type of encounter (INP / ED / ICU / OP etc.)
<i>codeSystem</i>	Attribute			R		Recommended SNOMED-CT or CPT
<i>codeSystemName</i>	Attribute			R		Recommended SNOMED-CT or CPT
<i>displayName</i>	Attribute			R	Length = 256	Display name gives the description of the code for eg Prenatal initial visit
<i>statusCode</i>	Attribute			O		
<i>code</i>	Node			R		
<i>code</i>	Attribute	Constant	completed	R		This describes the status of the encounter for eg the encounter is completed
<i>effectiveTime</i>	Node			R		
<i>low</i>	Node			R		
<i>low</i>	Attribute			R	yyyyMMdd[hhmmss].[fff]	Encounter Start Timestamp
<i>high</i>	Node			R		
<i>high</i>	Attribute			R	yyyyMMdd[hhmmss].[fff]	Encounter End Timestamp
<i>participant</i>	Node			R		
<i>typeCode</i>	Attribute	Constant	ORG	R		Transfer From (defined as Admission Source for the first movement)
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.24.3.81	R		Transfer From template Id
<i>time</i>	Node			R		
<i>time</i>	Attribute			R		Transfer timestamp
<i>participantRole</i>	Node			R		

Encounter, Performed

Description This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute	Constant	LOCE	R		
	Node			R		
	Attribute			R		Source Location Code
	Attribute			R		SNOMED preferred or UB Codes
	Attribute			R		
	Attribute			R		
participant	Node			O		Transfer To
<i>typeCode</i>	Attribute	Constant	DST	C		
<i>templateId</i>	Node			C		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.82	C		Transfer To template Id
time	Node			C		
	Attribute			C		Transfer timestamp
participantRole	Node			C		
	Attribute	Constant	LOCE	C		
	Node			C		
	Attribute			C		Source Location Code
	Attribute			C		SNOMED preferred or UB Codes
	Attribute			C		
	Attribute			C		
participant	Node			O		Facility Location
						Each facility location should be created in separate Participant tag
<i>typeCode</i>	Attribute	Constant	LOC	C		
<i>templateId</i>	Node			C		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.100	C		Facility Location Template ID
time	Node			C		
	Node			C		Arrival timestamp
	Attribute			C		
	Node			O		Departure timestamp
	Attribute			C		
participantRole	Node			C		
	Attribute	Constant	SDLOC	C		
	Node			C		
	Attribute			C		Source Location Code
	Attribute			C		Recommended SNOMED-CT
	Attribute			O		
	Attribute			O		
entryRelationship	Node			O		Required if defining Reason for Admission concept for an Inpatient encounter

Encounter, Performed

Description This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<i>typeCode</i>	Attribute	Constant	RSON	R		Required if Node is defined
act	Node			R		
	Attribute			R		ACT or OBS
	Attribute	Constant	EVN	R		Required if Node is defined
	Node			R		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.88	R		Reason template
	Node			R		
	Attribute			R		Depends on the type of Reason
	Node			O		
	Attribute			O		
	Node			R		
	Attribute	Constant	410666004	R		Specifies that entry relationship is a reason
	Attribute		2.16.840.1.113883.6.96	R		
	Attribute		SNOMED CT	O		Recommended code system is SNOMED CT
	Attribute		reason	O		
	Attribute			O		
	Node			R		
	Attribute	Constant	completed	R		This describes the status of the entry for eg completed
	Node			C		Depends on the type of Reason
	Attribute	Constant	CD	R		
	Attribute			R		Reason Code
	Attribute			R		SNOMED CT Preferred
	Attribute			O		
	Attribute			O		
entryRelationship	Node			O		Required if Observation Services for ED visit needs to be defined
<i>typeCode</i>	Attribute	Constant	REFR	C		
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	ObsServInd	C		Code for ObsServInd which are BIC proprietary codes
	Attribute	Constant	2.16.840.1.113883.3.1733.100	C		
	Attribute	Constant	BIC Proprietary Codes	C		
	Node			C		
	Attribute	Constant	BN	C		
	Attribute	Constant	"true"	C		

Encounter, Performed

Description This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges

Legend
Font *Italics = Attribute*
Usage R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Encounter, Performed

Description This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Encounter Performed Sample						
<pre> <entry> <encounter classCode="ENC" moodCode="EVN"> <templateId root="2.16.840.1.113883.10.20.22.4.49"/> <templateId root="2.16.840.1.113883.10.20.24.3.23"/> <id root="2.16.840.1.113883.3.1733.1000" extension="438/2406/INP"/> <code code="32485007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Hospital admission (procedure)"/> <text>Encounter, Performed</text> <statusCode code="completed"/> <effectiveTime> <low value="20140714054900"/> <high value="20140722114200"/> </effectiveTime> <participant typeCode="ORG"> <templateId root="2.16.840.1.113883.10.20.24.3.81"/> <time value="20140714054900"/> <participantRole classCode="LOCE"> <code code="2" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="Clinic or Physician's Ofc"/> </participantRole> </participant> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <code code="ObsServInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="ObsServInd"/> <value xsi:type="BN" value="false"/> </observation> </entryRelationship> </encounter> </entry> </pre>						

Diagnosis, Active

Description An active diagnosis is a problem, diagnosis or condition that is currently monitored, tracked or is a factor that must be considered as part of the treatment plan in progress

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	templateId	Node			R		
				2.16.840.1.113883.			Problem observation template
	<i>root</i>	Attribute	Constant	10.20.22.4.4	R		
	templateId	Node			R		
				2.16.840.1.113883.			Diagnosis, active template
	<i>root</i>	Attribute	Constant	10.20.24.3.11	R		
	id	Node			R		
				2.16.840.1.113883.			
	<i>root</i>	Attribute		3.1733.100	R		
				fac#/enc#/diag_code#/diag_type#			Facility Id/VisitId/Problem Code/DiagnosisSataCode
	<i>extension</i>	Attribute			R	Length = 100	eg: 001/34234/523423/A. Where (A-Admitting, P-Primary, S-Secondary)
	code	Node			R		
				282291009			Observation code constrained to diagnosis
	<i>code</i>	Attribute	Constant		R		
				2.16.840.1.113883.			
	<i>codeSystem</i>	Attribute	Constant	6.96	R		Recommended code system is SNOMED-CT
	<i>codeSystemName</i>	Attribute	Constant	diagnosis	R		Indicates the entry for diagnosis
	<i>displayName</i>	Attribute	Constant		R		
	statusCode	Node			R		
				completed			This describes the status of the diagnosis for eg completed
	<i>code</i>	Attribute	Constant		R		
	effectiveTime	Node			R		
				low			
		Node			R		
		Attribute			R	yyyyMMdd[hmmss]	Diagnosis Start Timestamp
		Node			O		
		Attribute			O	yyyyMMdd[hmmss]	Diagnosis End Timestamp
	priorityCode	Node			R		Required if 'Primary' diagnosis needs to be identified
	<i>code</i>	Attribute			R		Required if Node is defined
							Required if Node is defined; recommended SNOMED-CT
	<i>codeSystem</i>	Attribute			R		
	<i>codeSystemName</i>	Attribute			O		
	<i>displayName</i>	Attribute			O		
	value	Node			R		
	<i>xsi:type</i>	Attribute	Constant	CD	R		
	<i>code</i>	Attribute			R	Length = 50	Diagnosis Code

Diagnosis, Active

Description An active diagnosis is a problem, diagnosis or condition that is currently monitored, tracked or is a factor that must be considered as part of the treatment plan in progress

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<i>codeSystem</i>	Attribute			R		ICD 9 / ICD 10 recommended
<i>codeSystemName</i>	Attribute			O		
<i>displayName</i>	Attribute			O	Length = 256	
entryRelationship	Node			R		
<i>typeCode</i>	Attribute	Constant	REFR	R		
observation	Node			R		
	Attribute	Constant	OBS	R		
	Attribute	Constant	EVN	R		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.10.20.22.4.6	R		Problem Status (consolidation) template
	Node			R		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.94	R		Problem Status, Active template
	Node			R		
	Attribute	Constant	2.16.840.1.113883.3.1733.100	R		
	Node			R		
	Attribute	Constant	33999-4	R		Constant code indication problem status
	Attribute	Constant	2.16.840.1.113883.6.1	R		
	Attribute	Constant	LOINC	R		Recommended is LOINC
	Attribute	Constant	status	R		
	Node			R		
	Attribute	Constant	completed	R		
	Node			R		
	Attribute	Constant	CD	R		
	Attribute	Constant	55561003	R		Diagnosis is Active
	Attribute	Constant	2.16.840.1.113883.6.96	R		
	Attribute	Constant	SNOMED-CT	R		Recommended is SNOMED CT
	Attribute	Constant	active	R		

Diagnosis, Active

Description An active diagnosis is a problem, diagnosis or condition that is currently monitored, tracked or is a factor that must be considered as part of the treatment plan in progress

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy

Diagnosis Active Sample

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	------------	-------	-------	-------------	------------------------

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.11"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/000.0/A"/>
    <code code="282291009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="diagnosis"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140714055000"/>
      <high value="20140722114200"/>
    </effectiveTime>
    <priorityCode code="52870002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Admitting"/>
    <value xsi:type="CD" code="O00.0" codeSystem="2.16.840.1.113883.6.90" codeSystemName="ICD10 CM" displayName="ABDOMINAL PREGNANCY"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.6"/>
        <templateId root="2.16.840.1.113883.10.20.24.3.94"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="55561003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Active"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>
```

Diagnosis, Inactive

Description	An inactive diagnosis is a problem, diagnosis, or condition that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future					
Legend						
Font	<i>Italics = Attribute</i>					
Usage	R = Required		C = Conditional			
entry	observation		Node			R
			Node			R
		<i>classCode</i>	Attribute	Constant	OBS	R
		<i>moodCode</i>	Attribute	Constant	EVN	R
		<i>templateId</i>	Node			R
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.22.4.4	R Problem observation template
		<i>templateId</i>	Node			R
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.10.20.24.3.13	R Diagnosis, inactive template
		<i>id</i>	Node			R
		<i>root</i>	Attribute		2.16.840.1.113883.3.1733.100	R
		<i>code</i>	Attribute		fac#/enc#/diag cod	R Length = 100 Encounter / Visit ID
		<i>extension</i>	Node			R
		<i>code</i>	Attribute	Constant	282291009	R Observation code constrained to diagnosis
		<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6.96	R
		<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	R Recommended code system is SNOMED CT
		<i>displayName</i>	Attribute	Constant	diagnosis	R Indicates the entry for diagnosis
		<i>statusCode</i>	Node			R
		<i>code</i>	Attribute	Constant	completed	R This describes the status of the diagnosis for eg completed
		<i>effectiveTime</i>	Node			R
		<i>low</i>	Node			R
			Attribute			R
		<i>high</i>	Node			O
			Attribute			O
		<i>priorityCode</i>	Node			O
		<i>code</i>	Attribute			C
		<i>codeSystem</i>	Attribute			C
		<i>codeSystemName</i>	Attribute			O
		<i>displayName</i>	Attribute			O

Diagnosis, Inactive

Description	An inactive diagnosis is a problem, diagnosis, or condition that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future						
Legend							
Font	<i>Italics = Attribute</i>						
Usage	R = Required						
	value	C = Conditional					
			Node				R
			xsi:type	Attribute	Constant	CD	R
			<i>code</i>	Attribute			R
			<i>codeSystem</i>	Attribute			R
			<i>codeSystemName</i>	Attribute			O
			<i>displayName</i>	Attribute			O
	entryRelationship		Node				R
			<i>typeCode</i>	Attribute	Constant	REFR	R
			observation	Node			R
				Attribute	Constant	OBS	R
				Attribute	Constant	EVN	R
				Node			R
				Attribute	Constant	2.16.840.1.113883.10.20.22.4.6	R
			Node				R
				Attribute	Constant	2.16.840.1.113883.10.20.24.3.95	R
			Node				R
				Attribute			R
			Node				R
				Attribute	Constant	33999-4	R
				Attribute	Constant	2.16.840.1.113883.6.1	R
				Attribute	Constant	LOINC	R
				Attribute	Constant	status	R
			Node				R
				Attribute	Constant	completed	R
			Node				R
				Attribute	Constant	CD	R
				Attribute	Constant	73425007	R
				Attribute	Constant	2.16.840.1.113883.6.96	R
				Attribute	Constant	SNOMED-CT	R
				Attribute	Constant	inactive	R

Length = 50
Diagnosis Code
ICD 9 / ICD 10 preferred

Length = 256

Problem Status (consolidation) template

Problem Status, Inactive template

Constant code indication problem status

Diagnosis is Inactive

Recommended is SNOMED CT

Diagnosis, Inactive

Description An inactive diagnosis is a problem, diagnosis, or condition that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Diagnosis Inactive Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.13"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/12584003"/>
    <code code="282291009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="diagnosis"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140716000000"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="12584003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Bone pain"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.6"/>
        <templateId root="2.16.840.1.113883.10.20.24.3.95"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="73425007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Inactive"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Procedure, Performed

Description This clinical statement represents a procedure that has been performed. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person’s body in whole or in part for purposes of making observations and diagnoses and/or providing treatment.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	procedure		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	PROC	R		
		<i>templateId</i>	Attribute	Constant	EVN	R		
			Node			R		
								Consolidated Procedure Activity Procedure TemplateId (Implied Template)
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		
		<i>templateId</i>	Node			R		Procedure, Performed TemplateId
			Attribute	Constant	2.16.840.1.113883.1R	R		
		<i>id</i>	Node			R		
		<i>root extension</i>	Attribute		2.16.840.1.113883.3R	R		
		<i>code</i>	Attribute		fac#/enc#/code#/pri	R	Length = 100	Facility/Visit/Procedure
			Node			R		
		<i>code</i>	Attribute			R	Length = 50	Procedure Code
		<i>codeSystem</i>	Attribute			R		ICD 9 /ICD 10
		<i>codeSystemName</i>	Attribute			R		
		<i>displayName</i>	Attribute			R	Length = 256	Procedure description In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
		<i>sdtc:valueSet</i>	Attribute			O		
		<i>text</i>	Node			O	Length = 256	Procedure description
		<i>statusCode</i>	Node			R		This describes the status of the procedure for eg completed
		<i>code</i>	Attribute	Constant	completed	R		
		<i>effectiveTime</i>	Node			R		
		<i>low</i>	Node			R		
		<i>high</i>	Attribute			R	yyyyMMdd[h:mm:ss]	Procedure Start Timestamp
			Node			R		
			Attribute			R	yyyyMMdd[h:mm:ss]	Procedure End Timestamp
		<i>priorityCode</i>	Node			C		Required if 'Primary' procedure needs to be identified
		<i>code</i>	Attribute			C		Required if Node is defined

Procedure, Performed

Description This clinical statement represents a procedure that has been performed. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

codeSystem
codeSystemName
displayName

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
					Required if Node is defined; recommended SNOMED-CT
Attribute			C		
Attribute			O		
Attribute			O		

Procedure, Performed

Description This clinical statement represents a procedure that has been performed. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment.

Legend

Font *Italics = Attribute*
 Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Procedure Performed Sample

```

<entry>
  <procedure classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.64"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/6993/20140714050000"/>
    <code code="6993" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9 CM" displayName="INSERTION OF LAMINARIA"/>
    <text>INSERTION OF LAMINARIA</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140714050000"/>
      <high value="20140714060000"/>
    </effectiveTime>
    <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Primary"/>
  </procedure>
</entry>
    
```

Intervention, Performed

Description This clinical statement template represents an intervention has been completed. An intervention is an influencing force or act that occurs in order to modify a given state of affairs.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry			Node			R		
	act		Node			R		
		<i>classCode</i>	Attribute	Constant	ACT	R		
		<i>moodCode</i>	Attribute	Constant	EVN	R		
		templateId	Node			O		
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.1O			Consolidation CDA: Procedure Activity Act template
		templateId	Node			R		
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R			Intervention, Performed TemplateId
		id	Node			R		
		<i>root</i>	Attribute		2.16.840.1.113883.3R			
		<i>extension</i>	Attribute		fac#/encnbr#/code#	R	Length = 100	facilitvid/visitid/intervention code
		code	Node			R		
		<i>code</i>	Attribute			R	Length = 50	Intervention Code
		<i>codeSystem</i>	Attribute			R		Recommended code system is SNOMED CT
		<i>codeSystemName</i>	Attribute			R		
		<i>displayName</i>	Attribute			R	Length = 256	This indicates the description of the code for eg ultrasound scan of pelvic vessels
		text	Node			O	Length = 256	This indicates the description of the code for eg ultrasound scan of pelvic vessels
		statusCode	Node			R		
		<i>code</i>	Attribute	Constant	completed	R		This describes the status of the intervention for eg completed
		effectiveTime	Node			R		
		low	Node			R		
			Attribute			R	yyyyMMdd[h:mm:ss]	Intervention Start Timestamp
		high	Node			O		
			Attribute			O	yyyyMMdd[h:mm:ss]	Intervention End Timestamp

Intervention, Performed

Description This clinical statement template represents an intervention has been completed. An intervention is an influencing force or act that occurs in order to modify a given state of affairs.

Legend

Font *Italics = Attribute*

Usage R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	------------	-------	-------	-------------	------------------------

Intervention Performed Sample

```

<entry>
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.12"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.32"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="498/2406/428431000124105"/>
    <code code="428431000124105" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Chronic wound care (regime/therapy)"/>
    <text>Chronic wound care (regime/therapy)</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140715073900"/>
      <high value="20140716073800"/>
    </effectiveTime>
  </act>
</entry>

```

Intervention, Order

Description An intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	act	Node			R		
	<i>classCode</i>	Attribute	Constant	ACT	R		
	<i>moodCode</i>	Attribute	Constant	RQO	R		
	templateId	Node			R		Plan of Care Activity Act template
		Attribute	Constant	2.16.840.1.113883.1R	R		
	templateId	Node			R		Intervention, Order template
		Attribute	Constant	2.16.840.1.113883.1R	R		
	id	Node			R		
		Attribute		2.16.840.1.113883.3R	R		
	<i>code</i>	Node			R	Length = 100	facilityid/visitid/interventioncode
		Attribute			R	Length = 256	Intervention Code Recommended code system is SNOMED CT
	<i>codeSystem</i>	Attribute			R		Recommended code system is SNOMED CT
	<i>codeSystemName</i>	Attribute			R		This indicates the description of the code for eg ultrasound scan of pelvic vessels
	<i>displayName</i>	Attribute			R	Length = 256	This indicates the description of the code for eg ultrasound scan of pelvic vessels
	text	Node			O	Length = 256	
	statusCode	Node			R		This describes the status of the intervention for eg completed
	<i>effectiveTime</i>	Attribute	Constant	completed	R		
		Node			R		
	low	Node			R		Intervention Order Start
		Attribute			R	yyyyMMdd[hhmmss]	Timestamp
	high	Node			R		Intervention Order End
		Attribute			R	yyyyMMdd[hhmmss]	Timestamp
	author	Node			R		
		Node			R		
	time	Node			R		Intervention Order Start
		Attribute			R	yyyyMMdd[hhmmss]	Timestamp

Intervention, Order

Description An intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy
assignedAuthor

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Node			R		
Node			R		
Attribute	Constant	NA	R		

Intervention, Order

Description An intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional

Node Hierarchy

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

Intervention Order Sample

```

<entry>
  <act classCode="ACT" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.39"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.31"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/103735009"/>
    <code code="103735009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Palliative care (regime/therapy)"/>
    <text>Palliative care (regime/therapy)</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140717045100"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <author>
      <time xsi:type="IVL_TS" value="20140717045100"/>
      <assignedAuthor>
        <id nullFlavor="UNK"/>
      </assignedAuthor>
    </author>
  </act>
</entry>

```

Medication, Order

Description This template represents an order by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	Node			R		
substanceAdministration	Node			R		
<i>classCode</i>	Attribute	Constant	SBADM	R		
<i>moodCode</i>	Attribute	Constant	RQO	R		
<i>negationInd</i>	Attribute			C		negationInd="true" if Medication Order Not Done needs to be defined
templateId	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Plan of Care Activity Substance Administration
templateId	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Medication, Order template
id	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.3	R		
<i>extension</i>	Attribute		facility#/enc#/med#	R	Length=100	Unique Identifier for Medication Required for linking Medication
id	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.3	R		
<i>extension</i>	Attribute		odrno#	R		Placer order number
statusCode	Node			R		
<i>code</i>	Attribute	Constant	new	R		
effectiveTime	Node			R		
<i>xsi:type</i>	Attribute	Constant	IVL_TS	R		
low	Node			R		
high	Attribute			R		Medication Order Start
routeCode	Node			O		yyyyymmdd[hhmmss[Timestamp
<i>code</i>	Attribute			O		yyyyymmdd[hhmmss[.fff]]
<i>codeSystem</i>	Attribute			O		Route of administration
<i>codeSystemName</i>	Attribute			O		Code which describes how the medication is supposed to be administered for eg respiratory inhalation
<i>displayName</i>	Attribute			O		Recommended SNOMED CT 2.16.840.1.113883.6.96
consumable	Node			R		
manufacturedProduct	Node			R		
<i>code</i>	Attribute	Constant	MANU	R		
<i>codeSystem</i>	Attribute			R		
<i>codeSystemName</i>	Attribute			R		
<i>displayName</i>	Attribute			R		
low	Node			R		
high	Attribute			R		
routeCode	Node			R		
<i>code</i>	Attribute	Constant	2.16.840.1.113883.1	R		Medication Information (consolidation) template
<i>codeSystem</i>	Attribute			R		
<i>codeSystemName</i>	Attribute			R		
<i>displayName</i>	Attribute			R		
low	Node			R		
high	Attribute			R		
routeCode	Node			R		

Medication, Order

Description This template represents an order by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			R		
	Attribute			R	Length=256	Medication Drug Code
	Attribute			R		2.16.840.1.113883.6.88
	Attribute			O		RXNORM
	Attribute			O	Length=256	
						In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
performer	Attribute			O		
assignedEntity	Node			O		
	Node			C		
	Node			C		
	Attribute	Constant	2.16.840.1.113883.3	C		
	Attribute		<provider_id#>	C		Physician Id
	Node			C		
	Attribute	Constant	2.16.840.1.113883.4	C		
	Attribute		<provider_npi#>	C		Physician NPI number
	Node			C		
	Attribute	Constant	OrderProv	C		
	Attribute	Constant	2.16.840.1.113883.3	C		
	Attribute	Constant	BIC Proprietary Code	C		
	Attribute	Constant	Ordering Provider	C		
	Node			C		
	Node			C		
	Attribute			C		Physician Given Name
	Attribute			C		Physician Family Name
						Required if reason for Medication Order Not Done needs to be defined
entryRelationship**	Node			C		
typeCode	Attribute	Constant	RSON	C		Required if Node is defined
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			R		Reason templateid
	Attribute	Constant	2.16.840.1.113883.1	R		
	Node			C		
						Reason for Medication Order Not Done
	Attribute			C		
	Attribute		2.16.840.1.113883.6	C		Recommended SNOMED-CT
	Attribute		SNOMED-CT	C		
	Attribute			C		
	Attribute			C		

Medication, Order

Description This template represents an order by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments	
entryRelationship	Node			C		Required if CPOE Indicator needs to be defined	
<i>typeCode</i>	Attribute	Constant	REFR	C			
observation	Node			C			
	Attribute	Constant	OBS	C			
	Attribute	Constant	EVN	C			
	Node			C			
	Attribute	Constant	CPOEInd	C			
	Attribute	Constant	2.16.840.1.113883.3	C			
	Attribute	Constant	BIC Proprietary Code	C			
	Node			C			
	Attribute	Constant	BN	C			
	Attribute	Constant	"true"	C			
entryRelationship	Node			C			Required for medication order origin
<i>typeCode</i>	Attribute	Constant	REFR	C			
observation	Node			C			
	Attribute	Constant	OBS	C			
	Attribute	Constant	EVN	C			
	Node			C			
	Attribute	Constant	OrderModelInd	C			
	Attribute	Constant	2.16.840.1.113883.3	C			
	Attribute	Constant	BIC Proprietary Code	C			
	Node			C			
	Attribute	Constant	ST	C			
	Attribute	Constant	E	C		W-Written, P-Phone, E-Electronic, O-protocol, V-Verbal	

** If it is not "medication order not done" i.e. negationInd=false. Create this entryRelationship and in the code section add snomedCode for Requested By Physician - 103321005

Medication, Order

Description This template represents an order by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy

Medication Order Sample

```

<entry>
  <substanceAdministration classCode="SBADM" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.42"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.47"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/312241/6565"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="6565"/>
    <text>PAROXETINE 10MG TABS</text>
    <statusCode code="new"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20140722060300"/>
      <high value="20140821080000"/>
    </effectiveTime>
    <routeCode code="26643006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Oral route (qualifier value)"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <manufacturedMaterial>
          <code code="312241" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="PAROXETINE 10MG TABS"/>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
    <performer>
      <assignedEntity>
        <id root="2.16.840.1.113883.3.1733.1020" extension="438/90765"/>
        <id root="2.16.840.1.113883.4.6" extension="222222222"/>
        <code code="OrderProv" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="RMS BI CUSTOM CODE" displayName="Ordering Provider"/>
        <assignedPerson>
          <name>
            <given>User</given>
            <family>EMR</family>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <code code="CPOEInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="RMS BI CUSTOM CODE" displayName="CPOEInd"/>
        <value xsi:type="BN" value="true"/>
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
        <code code="410666004" codeSystem="2.16.840.1.113883.4.96" codeSystemName="SNOMED CT" displayName="reason"/>
        <value xsi:type="CD" code="103321005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Request of Physician"/>
      </observation>
    </entryRelationship>
  </substanceAdministration>
</entry>
  
```

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

Font Italics = Attribute

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry		Node			R		
	act	Node			R		
	<i>classCode</i>	Attribute	Constant	ACT	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	negationInd	Attribute			C		negationInd="true" if Medication Discharge Not Done needs to be defined
	templateId	Node			R		
				2.16.840.1.113883.			
	id	Attribute	Constant	10.20.24.3.105	R		Discharge Medication Entry
		Node			R		
				2.16.840.1.113883.			
	code	Attribute		3.1733.100	R		
		Node		facility#/enc#/med #/uniqueid#	R	Length = 100	
		Node			R		
	<i>code</i>	Attribute	Constant	10183-2	R		Constant value for medication discharged
				2.16.840.1.113883.			
	<i>codeSystem</i>	Attribute	Constant	6.1	R		
	<i>codeSystemName</i>	Attribute	Constant	LOINC	R		Recommended LOINC
				Discharge			
	statusCode	Attribute	Constant	medication	R		
		Node			R		
	effectiveTime	Attribute	Constant	active	R		This describes the status of the medication for eg active
		Node			R		
	<i>low</i>	Node			R		
		Attribute			R		Discharge Medication Prescribed
						yyyyMMdd[h:mm:ss]	Start Timestamp
	entryRelationship	Node			R		
	<i>typeCode</i>	Attribute	Constant	SUBJ	R		
	<i>substanceAdministration</i>	Node			R		
		Attribute	Constant	SBADM	R		
		Attribute	Constant	EVN	R		

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

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Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute Node			C		negationInd="true" if Medication Discharge Not Done needs to be defined
	Attribute Node	Constant	2.16.840.1.113883.10.20.24.3.41	R		Medication Active template
	Attribute Node		2.16.840.1.113883.3.1733.100	R		guid
	Attribute Node	Constant	active	R		
	Attribute Node			R		Discharge Medication Prescribed
	Attribute Node			R	yyyyMMdd[hmmss[Start Timestamp
	Attribute Node			R		Discharge Medication Prescribed
	Attribute Node			R	yyyyMMdd[hmmss[Start Timestamp
	Attribute Node	Constant	MANU	R		
	Attribute Node		2.16.840.1.113883.10.20.22.4.23	R		Medication Information (consolidation) template
root	Attribute Node	Constant	2.16.840.1.113883.10.20.22.4.23	R		
root	Attribute Node		2.16.840.1.113883.3.1733.100	R		
code	Attribute Node			R		
	Attribute Node			R	Length = 50	Medication Drug Code
	Attribute Node			R		2.16.840.1.113883.6.88
	Attribute Node			O		RXNORM
	Attribute Node			O	Length = 50	

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

Font Italics = Attribute

Usage : R = Required

C = Conditional

Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute			O		In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
	Node			C		Required if eRx Indicator needs to be defined
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
<i>code</i>	Attribute	Constant	ERXInd	C		
			2.16.840.1.113883.			
<i>codeSystem</i>	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
<i>codeSystemName</i>	Attribute	Constant	Codes	C		
	Node			C		
<i>xsi:type</i>	Attribute	Constant	BN	C		
<i>value</i>	Attribute	Constant	"true"	C		
						Required if Controlled Substance Indicator needs to be defined
	Node			C		
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
<i>code</i>	Attribute	Constant	CtrlSubInd	C		
			2.16.840.1.113883.			
<i>codeSystem</i>	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
<i>codeSystemName</i>	Attribute	Constant	Codes	C		
	Node			C		
<i>xsi:type</i>	Attribute	Constant	BN	C		
<i>value</i>	Attribute	Constant	"true"	C		

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			C		Required if reason for Medication Discharge Not Done needs to be defined
	Attribute	Constant	RSON	C		Required if Node is defined
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			R		Reason templateid
			2.16.840.1.113883.			
root	Attribute	Constant	10.20.24.3.88	R		
	Node			C		
						Reason for Medication Discharge Not Done
code	Attribute			C		Recommended SNOMED-CT
codeSystem	Attribute			C		
codeSystemName	Attribute			C		
displayName	Attribute			C		
sdtc:valueSet	Attribute			C		
	Node			C		Required for medication order origin
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
code	Attribute	Constant	LocationInd	C		
			2.16.840.1.113883.			
codeSystem	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
codeSystemName	Attribute	Constant	Codes	C		
	Node			C		
xsi:type	Attribute	Constant	ST	C		

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

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Usage : R = Required

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Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments	
					H-Continued Home Mediation, D-New Discharge Med, I - Inpatient Medication, E- ED Discharge Med, O_H OTC home Medication, O_I, OTC Inpatient Med, O_D OTC Discharge Med, O_E OTC ED Med.	
	value	Attribute	Constant	H	C	
		Node			C	Required for medication order origin
		Attribute	Constant	REFR	C	
		Node			C	
		Attribute	Constant	OBS	C	
		Attribute	Constant	EVN	C	
		Node			C	
	code	Attribute	Constant	EPCSInd	C	EPCS indicator
				2.16.840.1.113883.		
	codeSystem	Attribute	Constant	3.1733.100	C	
				BIC Proprietary		
	codeSystemName	Attribute	Constant	Codes	C	
		Node			C	
	<i>xsi:type</i>	Attribute	Constant	BN	C	
	<i>value</i>	Attribute	Constant	"true"	C	True/False
		Node			C	Required for medication order origin
		Attribute	Constant	REFR	C	
		Node			C	
		Attribute	Constant	OBS	C	
		Attribute	Constant	EVN	C	
		Node			C	
	code	Attribute	Constant	RX_TYPE_IND	C	Prescription indicator
				2.16.840.1.113883.		
	codeSystem	Attribute	Constant	3.1733.100	C	
				BIC Proprietary		
	codeSystemName	Attribute	Constant	Codes	C	
		Node			C	
	<i>xsi:type</i>	Attribute	Constant	ST	C	

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<i>value</i>	Attribute	Constant	W	C		W-Written, R-Print, Y-Electronic, N- No Rx
	Node			C		Required for medication order origin
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
<i>code</i>	Attribute	Constant	DeaScheduleClass	C		Deaschedule class indicator
			2.16.840.1.113883.			
<i>codeSystem</i>	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
<i>codeSystemName</i>	Attribute	Constant	Codes	C		
	Node			C		
<i>xsi:type</i>	Attribute	Constant	ST	C		Class Type
<i>value</i>	Attribute	Constant	99	C		
	Node			C		Required for medication order origin
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
<i>code</i>	Attribute	Constant	PDMPCheckFlag	C		PDMP Check done for Scheduled drug
			2.16.840.1.113883.			
<i>codeSystem</i>	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
<i>codeSystemName</i>	Attribute	Constant	Codes	C		
	Node			C		
<i>xsi:type</i>	Attribute	Constant	BN	C		
<i>value</i>	Attribute	Constant	"true"	C		True/False

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

Font Italics = Attribute

Usage : R = Required

C = Conditional

Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Medication Discharge Sample

```

<entry>
  <act classCode="ACT" moodCode="EVN" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.24.3.105"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/854228"/>
    <code code="10183-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Discharge Medication"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low value="20140722114200"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <entryRelationship typeCode="SUBJ">
      <substanceAdministration classCode="SBADM" moodCode="EVN" negationInd="true">
        <templateId root="2.16.840.1.113883.10.20.24.3.41"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <statusCode code="active"/>
        <effectiveTime xsi:type="IVL_TS">
          <low value="20140722114200"/>
          <high nullFlavor="UNK"/>
        </effectiveTime>
        <consumable>
          <manufacturedProduct classCode="MANU">
            <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
            <id root="2.16.840.1.113883.3.1733.100"/>
            <manufacturedMaterial>
              <code code="854228" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="0.3 ML Enoxaparin sodium 100 MG/ML Prefilled Syringe"/>
            </manufacturedMaterial>
          </manufacturedProduct>
        </consumable>
        <entryRelationship typeCode="RSON">
          <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
            <code code="410666004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reason"/>
            <value xsi:type="CD" code="428024001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Clinical trial participant (person)"/>
          </observation>
        </entryRelationship>
      </substanceAdministration>
    </entryRelationship>
  </act>
</entry>

```

```

      <value xsi:type="CD" code="428024001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Clinical trial part
    </observation>
  </entryRelationship>
</substanceAdministration>

```

Pr

Medication, Discharge

Description The clinical statement represents an active medication that the patient is taking at the time of discharge.

Legend

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Usage : R = Required C = Conditional **Blue** = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<pre> </substanceAdministration/ </entryRelationship> </act> </entry> </pre>						

[t1](#)

Medication, Administered

Description This template represents a record by the care provider that a medication actually was administered.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional

Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	Node			R		
act	Node			R		
classCode	Attribute	Constant	ACT	R		
moodCode	Attribute	Constant	EVN	R		
negationInd	Attribute			C		negationInd="true" if its Missed Dose
templateId	Node			R		
id	Attribute	Constant	2.16.840.1.113883.1C	R		Medication,
id	Node			R		
id	Attribute	Constant	2.16.840.1.113883.3	R	Length = 100	Unique Identifier for
id	Attribute	Constant	facility#/enc#/med#	R		
code	Node			R		
code	Attribute	Constant	2.16.840.1.113883.3	R		Placer Order Number
code	Attribute	Constant	odrno#	R		
code	Node			R		
code	Attribute	Constant	416118004	R		Constant used for
code	Attribute	Constant	2.16.840.1.113883.6	R		
code	Attribute	Constant	SNOMED CT	O		Recommended
code	Attribute	Constant	Administration	O		
statusCode	Node			R		
statusCode	Node			R		This describes the status of the medication for eg completed
effectiveTime	Attribute	Constant	completed	R		
effectiveTime	Node			R		
effectiveTime	Node			R		
effectiveTime	Node			R		Medication Administered Start Timestamp
effectiveTime	Attribute			R	yyyyMMdd[h:mm:ss[.fff]]	
effectiveTime	Node			R		
effectiveTime	Node			R		Medication administered End Timestamp
effectiveTime	Attribute			R	yyyyMMdd[h:mm:ss[.fff]]	
entryRelationship	Node			R		
entryRelationship	Attribute	Constant	COMP	R		
entryRelationship	Node			R		
entryRelationship	Attribute	Constant	SBADM	R		
entryRelationship	Attribute	Constant	EVN	R		
entryRelationship	Attribute			C		negationInd="true" if Missed Dose needs to be defined Medication Activity (consolidation) template
entryRelationship	Node			R		
entryRelationship	Attribute	Constant	2.16.840.1.113883.1C	R		
entryRelationship	Node			R		
entryRelationship	Attribute	Constant	2.16.840.1.113883.3	R		Random GUID
entryRelationship	Node			R		
entryRelationship	Attribute	Constant	completed	R		
entryRelationship	Node			R		
entryRelationship	Node			R		

Medication, Administered

Description This template represents a record by the care provider that a medication actually was administered.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional

Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute			R	yyyyMMdd[hhmmss[.fff]]	Date of Administration
	Node			O		
	Attribute			O	yyyyMMdd[hhmmss[.fff]]	
	Node			O		Route of administration
	Attribute			R		
	Attribute			R		Recommended
	Attribute			O		SNOMED CT 2.16.840.1.113883.6.9
	Attribute			O		
	Node			R		
	Node			R		
	Attribute	Constant	MANU	R		
						Medication Information (consolidation) template
<i>root</i>	Node			R		
	Attribute	Constant	2.16.840.1.113883.10	R		
	Node			O		
<i>root</i>	Attribute			O		
	Node			R		
<i>code</i>	Node			R		
	Attribute			R	Length = 50	Medication Drug Code
<i>codeSystem</i>	Attribute		2.16.840.1.113883.6	R		
<i>codeSystemName</i>	Attribute			O		RXNORM
<i>displayName</i>	Attribute			O	Length = 50	
						In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
						Required if eMAR Indicator needs to be defined
	Attribute			O		
<i>sdtc:valueSet</i>	Attribute			O		
	Node			C		
	Attribute	Constant	REFR	R		
	Node			R		
	Attribute	Constant	OBS	R		
	Attribute	Constant	EVN	R		
	Node			R		
<i>code</i>	Attribute	Constant	EMARInd	R		
<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.3	R		
<i>codeSystemName</i>	Attribute	Constant	BIC Proprietary Code	O		
	Node			R		
<i>xsi:type</i>	Attribute	Constant	BN	R		
<i>value</i>	Attribute	Constant	"true"	R		

Medication, Administered

Description This template represents a record by the care provider that a medication actually was administered.

Legend

Font Italics = Attribute

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			C		Required if it's a Missed Dose Required if Node is defined
	Attribute	Constant	RSON	R		
	Node			R		
	Attribute	Constant	OBS	R		
	Attribute	Constant	EVN	R		
	Node			R		
root	Attribute	Constant	2.16.840.1.113883.10	R		Reason template
	Node			R		
<i>code</i>	Attribute			R		Reason for Missed Dose
<i>codeSystem</i>	Attribute			R		Recommended
<i>codeSystemName</i>	Attribute			O		SNOMED-CT 2.16.840.1.113883.6.9
<i>displayName</i>	Attribute			O		
<i>sdct.valueSet</i>	Attribute			O		

Medication, Administered

Description This template represents a record by the care provider that a medication actually was administered.

Legend

Font Italics = Attribute

Usage : R = Required

C = Conditional

Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Medication Administered Sample

```

<entry>
  <act classCode="ACT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.42"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/312241/6565/1"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="6565"/>
    <code code="416118004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Administration"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140722060400"/>
      <high value="20140821080000"/>
    </effectiveTime>
    <entryRelationship typeCode="COMP">
      <substanceAdministration classCode="SBADM" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.16"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <statusCode code="completed"/>
        <effectiveTime xsi:type="IVL_TS">
          <low value="20140722060400"/>
          <high value="20140821080000"/>
        </effectiveTime>
        <routeCode code="26643006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Oral route (qualifier value)"/>
        <consumable>
          <manufacturedProduct classCode="MANU">
            <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
            <id root="2.16.840.1.113883.3.1733.100"/>
            <manufacturedMaterial>
              <code code="312241" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="PAROXETINE 10MG TABS"/>
            </manufacturedMaterial>
          </manufacturedProduct>
        </consumable>
        <entryRelationship typeCode="REFR">
          <observation classCode="OBS" moodCode="EVN">
            <code code="EMARInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="EMARInd"/>
            <value xsi:type="BN" value="false"/>
          </observation>
        </entryRelationship>
      </substanceAdministration>
    </entryRelationship>
  </act>
</entry>

```

Medication, Active

Description This template represents medications currently taken by a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	Node			R		
substanceAdministration	Node			R		
<i>classCode</i>	Attribute	Constant	SBADM	R		
<i>moodCode</i>	Attribute	Constant	EVN	R		
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Medication Activity (consolidation) template
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Medication, Active template
<i>id</i>	Node			R		
<i>root extension</i>	Attribute	Constant	2.16.840.1.113883.3R	R		
<i>statusCode</i>	Attribute	Constant	facility#/enc#/med#	R	Length = 100	Unique Identifier
<i>effectiveTime</i>	Node			R		
<i>code</i>	Attribute	Constant	active	R		This describes the status of the medication for eg active
<i>low</i>	Node			R		
<i>routeCode</i>	Attribute			R	yyyyMMdd[hmmss]	Medication Active Start Timestamp
<i>code</i>	Node			O		Route of administration
<i>codeSystem</i>	Attribute			R		
<i>codeSystemName</i>	Attribute			R		Recommended SNOMED CT
<i>displayName</i>	Attribute			O		
<i>consumable</i>	Node			R		
<i>manufacturedProduct</i>	Node			R		
<i>manufacturedProduct</i>	Attribute	Constant	MANU	R		
<i>root</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Medication Information (consolidation) template
<i>root</i>	Node			R		
<i>root</i>	Attribute		2.16.840.1.113883.3R	R		
<i>root</i>	Node			R		
<i>root</i>	Node			R		
<i>root</i>	Attribute			R	Length = 50	Medication Drug Code
<i>root</i>	Attribute		2.16.840.1.113883.6R	R		
<i>root</i>	Attribute			O		RXNORM
<i>root</i>	Attribute			O	Length = 50	

Medication, Active

Description This template represents medications currently taken by a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Medication, Active

Description This template represents medications currently taken by a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Medication Active Sample

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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```

<entry>
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.16"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.41"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/597850/146302"/>
    <statusCode code="active"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20140722055600"/>
      <high value="20140714054900"/>
    </effectiveTime>
    <routeCode code="26643006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
    <consumable>
      <manufacturedProduct classCode="MANU">
        <templateId root="2.16.840.1.113883.10.20.22.4.23"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <manufacturedMaterial>
          <code code="597850" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="anagrelide hci CAPS"/>
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
  </substanceAdministration>
</entry>

```

Medication Allergy

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	<i>templateId</i>	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Consolidation CDA Allergy observation template
	<i>templateId</i>	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Medication Allergy template
	<i>id</i>	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.3	R		
	<i>extension</i>	Attribute		facnmr#/histno#/dr	R	Length = 100	Unique Identifier of allergy across organization append respective code for no_known_allergy(160244002) and no_known_drug_allergy(409137002). Eg: facnmr#/histno#/160244002
	<i>code</i>	Node			R		
	<i>code</i>	Attribute	Constant	ASSERTION	R		Represents an act code
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.5	R		
	<i>codeSystemName</i>	Attribute	Constant	ActCode	R		
	<i>displayName</i>	Attribute	Constant	Assertion	R		
	<i>statusCode</i>	Node			R		
	<i>code</i>	Attribute	Constant	completed	R		This describes the status of the allergy for eg completed
	<i>effectiveTime</i>	Node			R		
	<i>low</i>	Node			R		
	<i>high</i>	Node			O		
	<i>value</i>	Node			R		
	<i>xsi:type</i>	Attribute	Constant	CD	R		
	<i>code</i>	Attribute	Constant	416098002	R		This represents constant code for drug allergy
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6	R		
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	O		Recommended SNOMED CT
	<i>displayName</i>	Attribute	Constant	Drug allergy	O		
	<i>participant</i>	Node			R		
	<i>typeCode</i>	Attribute	Constant	CSM	R		
	<i>participantRole</i>	Node			R		
		Attribute	Constant	MANU	R		
		Node			R		
		Attribute	Constant	MMAT	R		
		Node			R		
		Attribute			R	Length = 50	Drug Allergen Code RXNORM
		Attribute			R		SNOMEDCT
							if no_known_allergy then 160244002 if no_known_drug_alli 409137002..
							SNOMEDCT SNOMEDCT

Medication Allergy

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute			O		
	Attribute			O	Length = 256	Drug Allergy Name
	Node			O		
entryRelationship	Node			R		Allergy Reaction
<i>typeCode</i>	Attribute	Constant	MFST	R		
<i>inversionInd</i>	Attribute	Constant	"true"	R		
observation	Node			R		
	Attribute	Constant	OBS	R		
	Node	Constant	EVN	R		
	Attribute	Constant	2.16.840.1.113883.1	R		
	Node			R		
	Attribute			R		
	Node			R		
	Attribute		263851003	R		Code for reaction
	Attribute		2.16.840.1.113883.6	R		
	Attribute		SNOMED CT	O		Recommended SNOMED CT
	Attribute		Reaction	O		
	Node			R		
	Attribute	Constant	completed	R		
	Node			R		
	Attribute	Constant	CD	R		
	Attribute			R		Problem Code
	Attribute			R		SNOMED
	Attribute			O		SNOMED
	Attribute			O		
	Node			R		
	Node			R		
	Attribute			R		Start Time stamp for status
	Attribute			R		
	Attribute			R		
	Attribute			O		
	Attribute			O		
	Node			R		
	Node			R		
	Attribute			R		

If no known allergy, set to NullFlavor

Medication Allergy

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Medication Allergy Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.7"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.44"/>
    <id root="2.16.840.1.113883.3.1733.100"/> extension="438/204313/1512/1"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Assertion"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140708000000"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="416098002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Drug allergy"/>
    <participant typeCode="CSM">
      <participantRole classCode="MANU">
        <playingEntity classCode="MMAT">
          <code code="1512" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="ANACIN"/>
          <name>ANACIN</name>
        </playingEntity>
      </participantRole>
    </participant>
    <entryRelationship typeCode="MFST" inversionInd="true">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.85"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="263851003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reaction"/>
        <statusCode code="completed"/>
        <effectiveTime>
          <low value="20140708000000"/>
          <high nullFlavor="UNK"/>
        </effectiveTime>
        <value xsi:type="CD" code="271807003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Rash"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```


Symptom, Active

Description An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	templateId	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Problem observation template
	templateId	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R	R		Symptom, active template
	id	Node			R		
	<i>root extension</i>	Attribute		2.16.840.1.113883.3R	R	Length = 100	Unique Identifier for symptom
	code	Node			R		
	<i>code</i>	Attribute	Constant	418799008	R		Constant code value for symptom
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6R	R		
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	R		Recommended SNOMED CT
	<i>displayName</i>	Attribute	Constant	Symptom	R		
	statusCode	Node			R		
	<i>code</i>	Attribute	Constant	completed	R		This describes the status of the symptom for eg completed
	effectiveTime	Node			R		
	low	Node			R		
	high	Attribute			R	yyyyMMdd[hhmmss]	Symptom Start Timestamp
		Node			O		
		Attribute			O	yyyyMMdd[hhmmss]	Symptom End Timestamp
	value	Node			R		
	<i>xsi:type</i>	Attribute	Constant	CD	R		
	<i>code</i>	Attribute			R	Length = 50	Symptom Code
	<i>codeSystem</i>	Attribute			R		
	<i>codeSystemName</i>	Attribute			O		
	<i>displayName</i>	Attribute			O	Length = 256	
	entryRelationship	Node			R		
	<i>typeCode</i>	Attribute	Constant	REFR	R		
	observation	Node			R		
		Attribute	Constant	OBS	R		
		Attribute	Constant	EVN	R		
		Node			R		

Symptom, Active

Description An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute Node	Constant	2.16.840.1.113883.1R	R		Problem Status (consolidation) template
	Attribute Node	Constant	2.16.840.1.113883.1R	R		Problem Status, Active template
	Attribute Node	Constant	2.16.840.1.113883.3R	R		
	Attribute Node	Constant	33999-4	R		Constant code value for status
	Attribute Node	Constant	2.16.840.1.113883.6R	R		Recommended LOINC
	Attribute Node	Constant	LOINC	R		
	Attribute Node	Constant	status	R		
	Attribute Node	Constant	completed	R		
	Attribute Node	Constant	CD	R		
	Attribute Node	Constant	55561003	R		Constant code value for active
	Attribute Node	Constant	2.16.840.1.113883.6R	R		Recommended SNOMED CT
	Attribute Node	Constant	SNOMED-CT	R		
	Attribute Node	Constant	active	R		

Symptom, Active

Description An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Symptom Active Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.76"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/301773003/SYMP"/>
    <code code="418799008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="symptom"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140714054900"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="301773003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Pain in femur"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.6"/>
        <templateId root="2.16.840.1.113883.10.20.24.3.94"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="55561003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Active"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Risk Category Assessment

Description Risk category assessments include tools and calculators that suggest vulnerabilities for any given patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry			Node			R		
	observation		Node			R		
		<i>classCode</i>	Attribute	Constant	OBS	R		
		<i>moodCode</i>	Attribute	Constant	EVN	R		
		<i>templateId</i>	Node			R		
								Consolidation Assessment Scale
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Observation templateId
		<i>templateId</i>	Node			R		
			Attribute	Constant	2.16.840.1.113883.1	R		Risk Category Assessment
		<i>id</i>	Node			R		
		<i>root</i>	Attribute		2.16.840.1.113883.3	R		
		<i>extension</i>	Attribute		fac#/enc#/risk_asse	R	Length = 100	
		<i>code</i>	Node			R		
		<i>code</i>	Attribute			R	Length = 50	Assessment Code
		<i>codeSystem</i>	Attribute			R		
		<i>codeSystemName</i>	Attribute			O		Recommended LOINC
		<i>displayName</i>	Attribute			O	Length = 256	
		<i>statusCode</i>	Node			R		
								This describes the status of the assessment for eg completed
		<i>code</i>	Attribute	Constant	completed	R		
		<i>effectiveTime</i>	Node			R		
		<i>low</i>	Node			R		
			Attribute			R	yyyyMMdd[h:mm:ss]	Assessment Start Timestamp
		<i>high</i>	Node			O		
			Attribute			O	yyyyMMdd[h:mm:ss]	Assessment End Timestamp
		<i>value</i>	Node			O		Required if result is coded
		<i>xsi:type</i>	Attribute	Constant	CD	R		
		<i>code</i>	Attribute			R		
		<i>codeSystem</i>	Attribute			R		
		<i>codeSystemName</i>	Attribute			O		
		<i>displayName</i>	Attribute			O		
		<i>value</i>	Node			O		e.g. "PQ" Only for STK
		<i>xsi:type</i>	Attribute			C		Actual result value - numeric
		<i>value</i>	Attribute			C		
		<i>unit</i>	Attribute			C		

Risk Category Assessment

Description Risk category assessments include tools and calculators that suggest vulnerabilities for any given patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Risk Category Assessment Sample						

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.69"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.69"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/72136-5"/>
    <code code="72136-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Risk for venous thromboembolism"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140715075300"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="260362008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Very Low (qualifier value)"/>
  </observation>
</entry>

```

Lab Test, Order

Description This template represents an order for a laboratory test.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry			Node			R		
	observation		Node			R		
		<i>classCode</i>	Attribute	Constant	OBS	R		
		<i>moodCode</i>	Attribute	Constant	RQO	R		
		<i>templateId</i>	Node			R		
					2.16.840.1.113883.			
		<i>root</i>	Attribute	Constant	10.20.22.4.44	R		Consolidated Plan of Care Activity Observation templateId (Implied Template)
		<i>templateId</i>	Node			R		
					2.16.840.1.113883.			
		<i>id</i>	Attribute	Constant	10.20.24.3.37	R		Laboratory Test, Order template
			Node			R		
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.	R		
		<i>extension</i>	Attribute		facnbr#/encnrb#/lo	R	Length = 100	Unique Identifier of Lab test Required if Lab Test Order needs
		<i>id</i>	Node			R		
		<i>root</i>	Attribute	Constant	2.16.840.1.113883.	R		
		<i>extension</i>	Attribute		odrno#	R		Placer Order Number of the
		<i>code</i>	Node			R		
			Attribute			R	Length = 256	Laboratory Test code
		<i>codeSystem</i>	Attribute			R		
		<i>codeSystemName</i>	Attribute			O		Recommended LOINC
		<i>displayName</i>	Attribute			O	Length = 256	
		<i>statusCode</i>	Node			R		
			Attribute	Constant	new	R		
		<i>effectiveTime</i>	Node			R		
			Node			R		
		<i>low</i>	Attribute			R		yyyymmdd[h:mmss[Order Start Timestamp
			Node			O		
		<i>high</i>	Attribute			O		yyyymmdd[h:mmss[Order End Timestamp
			Node			C		
		<i>performer</i>	Node			C		
			Node			C		
		<i>assignedEntity</i>	Node			C		Physician NPI number
					2.16.840.1.113883.			
			Attribute	Constant	3.1733.1020	C		
			Attribute		<provider_id#>	C		
			Node			C		
					2.16.840.1.113883.			
			Attribute	Constant	4.6	C		

Lab Test, Order

Description This template represents an order for a laboratory test.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute		<provider_npi#>	C		
	Node			C		
	Attribute	Constant	OrderProv	C		
			2.16.840.1.113883.			
	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
	Attribute	Constant	Codes	O		
	Attribute	Constant	Ordering Provider	O		
	Node			C		
	Node			C		
	Attribute			C		Lab Test Order timestamp
	Attribute			C		
author	Node			C		Required if CPOE Indicator needs to be defined
time	Node			R		
	Node			R		
	Attribute			R		
entryRelationship	Node			C		Required for CPOE
typeCode	Attribute	Constant	REFR	C		
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	CPOEInd	C		true/false
			2.16.840.1.113883.			
	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
	Attribute	Constant	Codes	C		
	Node			C		
	Attribute	Constant	BN	C		
	Attribute		"true"	C		
entryRelationship	Node			C		Required if Ordering Provider needs to be defined as Ambulatory
typeCode	Attribute	Constant	REFR	C		

Lab Test, Order

Description This template represents an order for a laboratory test.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	OrdByAmbPhysInd	C		
	Attribute	Constant	2.16.840.1.113883.	C		
	Attribute	Constant	3.1733.100	C		
	Attribute	Constant	BIC Proprietary	C		
	Attribute	Constant	Codes	C		
	Node			C		
	Attribute	Constant	BN	C		
	Attribute	Constant	"true"	C		true/false

Lab Test Order Sample

```

<entry>
  <observation classCode="OBS" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.44"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.37"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/55456-8/100"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="100"/>
    <code code="55456-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hgb S Bld"/>
    <text>Hgb S Bld</text>
    <statusCode code="new"/>
    <performer>
      <assignedEntity>
        <id root="2.16.840.1.113883.3.1733.1020" extension="438/98765"/>
        <id root="2.16.840.1.113883.4.6" extension="222222222"/>
        <code code="OrderProv" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="Ordering Provider"/>
        <assignedPerson>
          <name>
            <given>User</given>
            <family>EMR</family>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <author>
      <time xsi:type="IVL_TS" value="20140722060800"/>
      <assignedAuthor>

```


Lab Test, Order

Description This template represents an order for a laboratory test.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<pre> <id nullFlavor="UNK"/> </assignedAuthor> </author> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <code code="CPOEInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="CPOEInd"/> <value xsi:type="BN" value="true"/> </observation> </entryRelationship> <entryRelationship typeCode="REFR"> <observation classCode="OBS" moodCode="EVN"> <code code="OrdByAmbPhysInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="OrdByAmbPhysInd"/> <value xsi:type="BN" value="false"/> </observation> </entryRelationship> </observation> </entry> </pre>						

Lab Test, Result (Deprecated)

Description The result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank).

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

****Retired from CQM 2015****

Node Hierarchy

entry				
	observation			
		<i>classCode</i>		
		<i>moodCode</i>		
		<i>templateId</i>		
			<i>root</i>	
		<i>templateId</i>		
			<i>id</i>	
			<i>root extension</i>	
			<i>id</i>	
			<i>root extension</i>	
		<i>code</i>		
			<i>code</i>	
			<i>codeSystem</i>	
			<i>codeSystemName</i>	
			<i>displayName</i>	
		<i>statusCode</i>		
			<i>code</i>	
		<i>effectiveTime</i>		
			<i>low</i>	
			<i>high</i>	
		<i>value</i>		
			<i>xsi:type</i>	
			<i>value</i>	

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Node			R		
Node			R		
Attribute	Constant	OBS	R		
Attribute	Constant	EVN	R		
Node			R		
		2.16.840.1.113883.			
Attribute	Constant	10.20.22.4.2	R		Result Observation (consolidation) template
Node			R		
		2.16.840.1.113883.			
Attribute	Constant	10.20.24.3.40	R		Laboratory Test, Result template
Node			R		
Attribute	Constant	2.16.840.1.113883.	R		
Attribute	Constant	2.16.840.1.113883.	R	Length = 100	Unique Identifier of Lab test
Node			R		Required if Lab Result needs to be
Attribute	Constant	2.16.840.1.113883.	R		
Attribute		odrno#	R		Placer Order Number of the
Node			R		
					Observation code of a laboratory test performed. LOINC code is recommended(Eg: 10331-7 Loinc code for Rh Status of other)
Attribute			R	Length = 50	
Attribute			R		Code system of the Lab Test Code
Attribute			O		
Attribute			O	Length = 256	
Node			R		
Attribute	Constant	completed	R		
Node			R		
Node			R		
Attribute			R	yyyyMMdd[hhmmss [.fff]]	DateTime stamp of the Laboratory test.
Node			O		
Attribute			C		
Node			R		Actual Result value of the performed Lab test
					This attribute specifies the type of the result It can be a Physical Quantity(PQ)/ Binary(BN)/ String(ST).
Attribute			R		
					The PQ/BN/ST value which is the outcome of the Labtest. For PQ datatype we only support two codes i.e. 441773004 for Positive and 442225006 for Negative
Attribute			R		

Lab Test, Result (Deprecated)

Description The result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank).

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

****Retired from CQM 2015****

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	<i>unit</i>	Attribute			C		Required if value is numeric
entryRelationship		Node			C		This entryRelationship specifies the expected result type of the Lab test.
	<i>typeCode</i>	Attribute	Constant	REFR	C		
	observation	Node			C		
		Attribute	Constant	OBS	C		
		Attribute	Constant	EVN	C		
		Node			C		
		Attribute	Constant	DataType	C		This is a constant code for an expected Datatype.
		Attribute	Constant	2.16.840.1.113883.3.1733.100	C		Codesystem is BIC Proprietary Codes
		Attribute	Constant	BIC Proprietary Codes	C		
		Node			R		
		Attribute	Constant	ST	R		A string type value should be present in this node, so a constant "ST" type is used.
		Attribute			R		Expected result type of a lab result can be PQ or BN or ST

PQ Numeric
 BN Boolean
 ST Text/String

Lab Test, Result (Deprecated)

Description The result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank).

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional

****Retired from CQM 2015****

Node Hierarchy

Lab Test Result Sample

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.40"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/55456-8/100"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="100"/>
    <code code="55456-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Hgb S Bld"/>
    <text>Hgb S Bld</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140722063900"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="PQ" value="12.5" unit="g/dl"/>
    <methodCode nullFlavor="UNK"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <code code="DataType" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="DataType"/>
        <value xsi:type="ST">PQ</value>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Lab Test, Performed

Description The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template may not contain any information about the result of a lab test. The focus is on the procedure itself.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	<i>templateId</i>	Node			R		
				2.16.840.1.113883.			Laboratory Test Performed template
	id	Attribute	Constant	10.20.24.3.38	R		
		Node			R		
		Attribute	Constant	2.16.840.1.113883.	R		
	id	Attribute	Constant	facnbr#/encnrb#/lo	R	Length = 100	Unique Identifier of Lab test Required if Diagnostic Study Order
		Node			R		
		Attribute	Constant	2.16.840.1.113883.	R		
		Attribute		odrn#	R		Placer Order Number of the
	code	Node			R		
							Observation code of a laboratory test performed. LOINC code is recommended(Eg: 10331-7 Loinc code for Rh Status of other)
		Attribute			R	Length = 50	
		Attribute			R		Code system of the Lab test Performed.Recommended LOINC
		Attribute			O		
		Attribute			O	Length = 256	
	statusCode	Node			R		
		Attribute	Constant	completed	R		
	effectiveTime	Node			R		
		Node			R		
		Attribute			R	yyyyMMdd[hhmmss [.fff]]	DateTime stamp of the Laboratory test performed.
		Node			O		
		Attribute			C		
	value	Node			R		Actual Result value of the performed Lab test
							This attribute specifies the type of the result It can be a Physical Quantity(PQ)/ Binary(BN)/ String(ST).
		Attribute			R		

Lab Test, Performed

Description The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template may not contain any information about the result of a lab test. The focus is on the procedure itself.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
						The PQ/BN/ST value which is the outcome of the Labtest. For PQ datatype we only support two codes i.e. 441773004 for Positive and 442225006 for Negative
		<i>value</i>			R	
		<i>unit</i>			C	Required if value is numeric
						This entryRelationship specifies the expected result type of the Lab test.
entryRelationship	Node				C	
	Attribute	Constant	REFR		C	
	Node				C	
	Attribute	Constant	OBS		C	
	Attribute	Constant	EVN		C	
	Node				C	
	Attribute	Constant	DataType		C	This is a constant code for an expected Datatype.
	Attribute	Constant	2.16.840.1.113883.3.1733.100		C	Codesystem is BIC Proprietary Codes
	Attribute	Constant	BIC Proprietary Codes		C	
	Node				R	
	Attribute	Constant	ST		R	A string type value should be present in this node, so a constant "ST" type is used.
	Attribute				R	Expected result type of a lab result can be PQ or BN or ST

PQ
BN
ST

Lab Test, Performed

Description The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template may not contain any information about the result of a lab test. The focus is on the procedure itself.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Lab Test Performed Sample						

```

<entry>
- <observation moodCode="EVN" classCode="OBS">
  <templateId root="2.16.840.1.113883.10.20.24.3.38"/>
  <id extension="0364/249961/42244-4/200" root="2.16.840.1.113883.3.1733.100"/>
  <id extension="200" root="2.16.840.1.113883.3.1733.1001"/>
  <code code="42244-4" displayName="Hgb A MFr Bld HPLC" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1" xsi:type="CE"/>
  <text>Hgb A MFr Bld HPLC</text>
  <statusCode code="completed"/>
  - <effectiveTime>
    <low value="20050811172400"/>
    <high value="20050811172400"/>
  </effectiveTime>
  <value nullFlavor="UNK" xsi:type="ST"/>
  <methodCode nullFlavor="UNK"/>
  - <entryRelationship typeCode="REFR">
    - <observation moodCode="EVN" classCode="OBS">
      <code code="DataType" displayName="DataType" codeSystemName="HMS BI CUSTOM CODE" codeSystem="2.16.840.1.113883.3.1733.100"/>
      <value xsi:type="ST">PQ</value>
    </observation>
  </entryRelationship>
</observation>
</entry>
..

```

Communication (Deprecated)

Description This template represents a communication initiated between provider and received by patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	act	Node			R		
	<i>classCode</i>	Attribute	Constant	ACT	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	negationInd	Attribute			R		Assigned as "true" if no communication occurred between the sender(provider) and receiver(patient).
	templateId	Node			R		
	id	Attribute	Constant	2.16.840.1.113883.10.20.24.3.3	R		Communication from Provider to Patient template
	<i>root</i>	Node			R		
	<i>root extension</i>	Attribute		2.16.840.1.113883.3.1733.100	R		
	code	Attribute		fac#/enc_nbr#/com	R	Length = 100	
	<i>code</i>	Node			R		Code which is used for the Communication from provider to patient (Eg: 440168007 for Provision of copy of letter from specialist to patient (procedure))
	<i>codeSystem</i>	Attribute			R	Length = 50	Recommended code and codesystem is SNOMED / LOINC
	<i>codeSystemName</i>	Attribute			O		
	<i>displayName</i>	Attribute			O	Length = 256	
	statusCode	Attribute		sdtc:valueSet	O		In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
	<i>code</i>	Node			R		
	effectiveTime	Attribute	Constant	completed	R		
	low	Node			R		
		Attribute			R		DateTime stamp of the time when yyyyymmdd[h:mm:ss] the communication was initiated.

Communication (Deprecated)

Description This template represents a communication initiated between provider and received by patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
participant	node		O		Required node which gives the details of the initiator.
<i>typeCode</i>	Attribute	AUT	R		Constant value which denotes the sender.
participantRole	node		R		
	Attribute	ASSIGNED	R		Constant value which denotes that the sender is a Provider.
	node		R		
	Attribute	158965000	R		Constant SNOMED-CT value for Medical Practitioner
	Attribute	2.16.840.1.113883.			
	Attribute	6.96	R		
	Attribute	SNOMED-CT	O		
	Attribute	Medical			
	Attribute	Practitioner	O		
	Attribute		O		
participant	node		O		Required node which gives the details of the initiator.
<i>typeCode</i>	Attribute	IRCP	R		Constant value which denotes the sender.
participantRole	node		R		
	Attribute	PAT	R		Constant value which denotes that the reciever is a patient.
	node		R		
	Attribute	116154003	R		Constant SNOMED-CT value for Medical Practitioner
	Attribute	2.16.840.1.113883.			
	Attribute	6.96	R		
	Attribute	SNOMED-CT	O		
	Attribute	Patient	O		
	Attribute		O		
entryRelationship	Node		C		Required if reason for No Communication needs to be defined
<i>typeCode</i>	Attribute	RSON	C		Required if Node is defined
observation	Node		C		
	Attribute	OBS	C		
	Attribute	EVN	C		

Communication (Deprecated)

Description This template represents a communication initiated between provider and received by patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Node			R		
Attribute	Constant	2.16.840.1.113883.10.20.24.3.88	R		Reason template
Node			C		
Attribute			C		Reason for Not Communicated
Attribute			C		Recommended SNOMED-CT
Attribute			C		
Attribute			C		
Attribute			O		

Communication (Deprecated)

Description This template represents a communication initiated between provider and received by patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Communication from Provider to patient

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

```

<entry>
  <act classCode="ACT" moodCode="EVN" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.24.3.3"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/182896008"/>
    <code code="182896008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Drug declined by patient - dislikes taste (situation)"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140716075300"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
        <code code="410666004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reason"/>
        <value xsi:type="CD" code="182896008" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Drug declined by patient - dislikes taste (situation)"/>
      </observation>
    </entryRelationship>
  </act>
</entry>

```

Device Order

Description The template represents, Device Order

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	supply		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	SPLY	R		Constant value for supply
		templated	Attribute	Constant	RQO	R		Constant value for Order
			Node			R		
								Constant value which specifies the entry is a Planned Supply template
		templated	Attribute	Constant	2.16.840.1.113883.1	R		
			Node			R		
								Constant value which specifies the entry is a Device Order template
		id	Attribute	Constant	2.16.840.1.113883.1	R		
			Node			R		
			Attribute		2.16.840.1.113883.3	R		
			Attribute		fac#/enc#/device_cc	R	Length = 100	Unique identifier for the Device
		text	Node	Constant	Device Order	O		
		statusCode	Node			R		
			Attribute	Constant	new	R		
		effectiveTime	Node			R		
			Node			R		
			Attribute			R		yyyyMMdd[h:mm:ss] Device Order Start Timestamp
			Node			O		
			Attribute			O		yyyyMMdd[h:mm:ss] Device Order End Timestamp
		participant	Node			R		
								Constant value which specifies a Device
		typeCode	Attribute	Constant	DEV	R		
		participantRole	Node			R		
			Attribute	Constant	MANU	R		Constant value for a Manufactured Product
			Node			R		
			Attribute	Constant	DEV	R		
			Node			R		
			Attribute			R		Code of the Device order (eg:For cardiac pacemaker SNOMED-CT code 14106009)
			Attribute			R	Length = 50	Recommended SNOMED-CT

Device Order

Description The template represents, Device Order

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute			O		
	Attribute			O	Length = 256	
entryRelationship				O		Required if reason for Device not order to be defined
<i>typeCode</i>	Attribute	Constant	REFR	C		Required if Node is defined
act	Node					
	Attribute	Constant	TRUE			
	Attribute	Constant	SPCTRT			
	Attribute	Constant	RQO			
	Node			C		
	Attribute	Constant	DEVICE_ORDER	C		Required for xsd validation
	Attribute	Constant	2.16.840.1.113883.3C	C		Required for xsd validation
	Attribute	Constant	HMS BI Custom	C		Required for xsd validation
	Attribute	Constant	Device Order	O		
	Node			O		Required if reason for Device not order to be defined
	Attribute	Constant	RSON	C		Required if Node is defined
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			R		
root	Attribute	Constant	2.16.840.1.113883.1R	R		Reason template
	Node			C		
code	Attribute			C		Reason for Device Not Ordered
codeSystem	Attribute			C		Recommended SNOMED-CT
codeSystemName	Attribute			C		
displayName	Attribute			C		
sdct:valueSet	Attribute			C		

Device Order

Description The template represents, Device Order

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Device Order Sample

```

<entry>
  <supply classCode="SPLY" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.43"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.9"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="0364/4007662/2.16.840.1.113883.3.117.1.7.1.214"/>
    <text>Device, Order</text>
    <statusCode code="completed"/>
    <effectiveTime xsi:type="IVL_TS">
      <low value="20151111001000"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <participant typeCode="DEV">
      <participantRole classCode="MANU">
        <playingDevice classCode="DEV">
          <code nullFlavor="NA" sdtc:valueSet="2.16.840.1.113883.3.117.1.7.1.214"/>
        </playingDevice>
      </participantRole>
    </participant>
    <entryRelationship typeCode="REFR">
      <act negationInd="true" classCode="SPCTRT" moodCode="RQO">
        <code code="DEVICE_ORDER" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM" displayName="DEVICE ORDER"/>
        <entryRelationship typeCode="RSON">
          <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
            <code code="410666004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reason"/>
            <value xsi:type="CD" code="416098002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Drug allergy (disorder)"/>
          </observation>
        </entryRelationship>
      </act>
    </entryRelationship>
  </supply>
</entry>

```

Device, Applied

Description This template indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place).

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry			Node			R		
	procedure		Node			R		
		<i>classCode</i>	Attribute	Constant	PROC	R		
		<i>moodCode</i>	Attribute	Constant	EVN	R		
		<i>negationInd</i>	Attribute			R		set as "true" if device not applied
		<i>templateId</i>	Node			R		
					2.16.840.1.113883.			
		<i>root</i>	Attribute	Constant	10.20.22.4.14	R		Procedure Activity Template
		<i>templateId</i>	Node			R		
					2.16.840.1.113883.			
		<i>root</i>	Attribute	Constant	10.20.24.3.7	R		Device Applied Template
		<i>id</i>	Node			R		
					2.16.840.1.113883.			
		<i>root</i>	Attribute		3.1733.100	R		
		<i>extension</i>	Attribute			R	Length = 100	
		<i>code</i>	Node			R		
					360030002	R		Constant code which specifies a device applied entry
		<i>code</i>	Attribute	Constant	360030002	R		
					2.16.840.1.113883.			
		<i>codeSystem</i>	Attribute	Constant	6.96	R		Recommended SNOMED-CT
		<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	R		
					application of			
		<i>displayName</i>	Attribute	Constant	device	R		
		<i>sdtc:valueSet</i>	Attribute			O		In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
		<i>statusCode</i>	Node			R		
					completed	R		
		<i>code</i>	Attribute	Constant	completed	R		
		<i>effectiveTime</i>	Node			R		
						R		
		<i>low</i>	Node			R		
			Attribute			R		Timestamp which shows the datetime at which the device is applied
							yyyyMMdd[h:mm:ss]	

Device, Applied

Description This template indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place).

Legend

Font *Italics = Attribute*
 Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
targetSiteCode	Node			C		Conditional node which specifies the target in the body where the device is applied
<i>code</i>	Attribute			R		Site of Application / Anatomical Structure (Eg: 302509004 for Heart)
<i>codeSystem</i>	Attribute			R		Recommended SNOMED-CT
<i>codeSystemName</i>	Attribute			O		
<i>displayName</i>	Attribute			O		
participant	Node			R		
<i>typeCode</i>	Attribute	Constant	DEV	R		Constant value which specifies a Device
participantRole	Node			R		
	Attribute	Constant	MANU	R		Constant value for a Manufactured Product
	Node			R		
	Attribute	Constant	DEV	R		
	Node			R		
	Attribute			R	Length = 50	Code of the Device Applied (eg:For cardiac pacemaker SNOMED-CT code 14106009)
	Attribute			R		Recommended SNOMED-CT
	Attribute			O		
	Attribute			O	Length = 256	
entryRelationship	Node			O		Required if reason for Device not applied to be defined
<i>typeCode</i>	Attribute	Constant	RSON	C		Required if Node is defined
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.88	R		Reason template
	Node			C		
	Attribute			C		Reason for Device Not Applied
	Attribute			C		Recommended SNOMED-CT

Device, Applied

Description This template indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place).

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute			C		
	Attribute			C		
	Attribute			C		

Device Applied Sample

```

<entry>
  <procedure classCode="PROC" moodCode="EVN" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.7"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/428411000124104"/>
    <code code="360030002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Application of Device"/>
    <text>Device, Applied</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140715075200"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <participant typeCode="DEV">
      <participantRole classCode="MANU">
        <playingDevice classCode="DEV">
          <code code="428411000124104" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Intermittent pneumatic compression boot (phy:
        </playingDevice>
      </participantRole>
    </participant>
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
        <code code="410666004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reason"/>
        <value xsi:type="CD" code="397745006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Medical contraindication (finding)"/>
      </observation>
    </entryRelationship>
  </procedure>
</entry>

```

Procedure, Order

Description This clinical statement represents an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	procedure		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	PROC	R		
			Attribute	Constant	RQO	R		
		negationInd	Attribute			R		set as "true" if no procedure is ordered.
		templateId	Node			R		
								Plan of Care Procedure Activity Procedure TemplateId (Implied Template)
		templateId	Attribute	Constant	2.16.840.1.113883.1	R		
			Node			R		
								Template id for Procedure Order template
		id	Attribute	Constant	2.16.840.1.113883.1	R		
			Node			R		
			Attribute			R		
			Attribute		2.16.840.1.113883.3	R		
			Attribute		facnbr#/vmrn#/proc	R	Length = 100	
		code	Node			R		
								Code for Ordered Procedure (Eg:394683006 for Diabetic foot risk assessment)
			Attribute			R	Length = 256	Recommended SNOMED-CT
			Attribute			R		
			Attribute			O		
			Attribute			O	Length = 256	
		text	Node			O		
		statusCode	Node			R		
			Attribute	Constant	new	R		
		author	Node			R		
			Node			R		
		time	Node			R		
			Attribute			R		yyyyMMdd[h:mm:ss] Procedure Order Start Timestamp
			Node			R		
			Node			R		
			Attribute	Constant	NA	R		
		assignedAuthor	Node			R		
			Node			R		
			Node			R		
			Attribute	Constant	NA	R		
		entryRelationship	Node			C		Required if reason for Procedure Order Not done needs to be defined

Procedure, Order

Description This clinical statement represents an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

typeCode
observation

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Attribute	Constant	RSON	C		Required if Node is defined
Node			C		
Attribute	Constant	OBS	C		
Attribute	Constant	EVN	C		
Node			R		Reason template
Attribute	Constant	2.16.840.1.113883.1R	R		
Node			R		Reason for Procedure Not Ordered
Attribute			R		
Attribute			C		Recommended SNOMED-CT
Attribute			C		
Attribute			C		

Procedure, Order

Description This clinical statement represents an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Procedure Order Sample

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<entry>
  <procedure classCode="PROC" moodCode="RQO" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.22.4.41"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.63"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313/410082002/20140717045100"/>
    <code code="410082002" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Rehabilitation therapy education (procedure)"/>
    <text>Rehabilitation therapy education (procedure)</text>
    <statusCode code="new"/>
    <author>
      <time xsi:type="IVL_TS" value="20140717045100"/>
      <assignedAuthor>
        <id nullFlavor="NA"/>
      </assignedAuthor>
    </author>
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"/>
        <code code="410666004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="reason"/>
        <value xsi:type="CD" code="443390004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Refused (qualifier value)"/>
      </observation>
    </entryRelationship>
  </procedure>
</entry>

```

Diagnostic Study, Order

Description This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
		Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	RQO	R		
	templateId	Node			R		
				2.16.840.1.113883.			Consolidated Plan of Care Activity Observation templateId (Implied Template)
	templateId	Attribute	Constant	10.20.22.4.44	R		
		Node			R		
				2.16.840.1.113883.			
	id	Attribute	Constant	10.20.24.3.17	R		Diagnostic Study, Order template
		Node			R		
	root extension	Attribute	Constant	2.16.840.1.113883.	R		
	id	Attribute		fac#/encnbr#/test_	R	Length = 100	Unique Identifier of Diagnostic Required if Diagnostic Study Order
		Node			R		
	root extension	Attribute	Constant	2.16.840.1.113883.	R		
		Attribute		ordnbr#	R		Placer Order Number of the
	code	Node			R		
	<i>code</i>	Attribute			R	Length = 256	Code which specifies the order for a Diagnostic Study Test (Eg: Recommended LOINC/SNOMED CT)
	<i>codeSystem</i>	Attribute			R		
	<i>codeSystemName</i>	Attribute			O		
	<i>displayName</i>	Attribute			O	Length = 256	
	text	Node			O		
	statusCode	Node			R		
		Attribute	Constant	new	R		
	performer				O		
		assignedEntity			C		
		Node			C		
		Node			C		
				2.16.840.1.113883.			
		Attribute	Constant	3.1733.1020	C		
		Attribute		<provider_id#>	C		Physician Unique Identifier
		Node			C		
				2.16.840.1.113883.			
		Attribute	Constant	4.6	C		
		Attribute		<provider_npi#>	C		Physician NPI number
		Node			C		

Diagnostic Study, Order

Description This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute	Constant	OrderProv	C		Constant value for Ordering Physician
	Attribute	Constant	2.16.840.1.113883.3.1733.100	C		Codesystem for BIC Proprietary Codes
	Attribute	Constant	BIC Proprietary Codes	C		
	Attribute	Constant	Ordering Provider	C		
	Node					
	Node					
	Attribute					
	Attribute					
author	Node			R		
time	Node			R		
	Attribute			R	yyyyMMdd[h:mm:ss]	Diagnostic Study Order timestamp
assignedAuthor	Node			R		
	Node			R		
	Attribute	Constant	NA	R		
entryRelationship	Node			O		Required if CPOE Indicator needs to be defined
typeCode	Attribute	Constant	REFR	C		
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	CPOEInd	C		
	Attribute	Constant	2.16.840.1.113883.3.1733.100	C		
	Attribute	Constant	BIC Proprietary Codes	C		
	Node			C		
	Attribute	Constant	BN	C		
	Attribute	Constant	"true"	C		

Diagnostic Study, Order

Description This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entryRelationship	Node			O		Required if Radiology Order Indicator needs to be defined
<i>typeCode</i>	Attribute	Constant	REFR	C		
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	RadOrdInd	C		
			2.16.840.1.113883.			
	Attribute	Constant	3.1733.100	C		
			BIC Proprietary			
	Attribute	Constant	Codes	C		
	Node			C		
	Attribute	Constant	BN	C		
	Attribute	Constant	"true"	C		

Diagnostic Study, Order

Description This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Diagnostic Study Order Sample

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<entry>
  <observation classCode="OBS" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.44"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.17"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/46330-7/200"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="200"/>
    <code code="46330-7" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Abdomen CT W reduced contrast volume IV"/>
    <text>Abdomen CT W reduced contrast volume IV</text>
    <statusCode code="new"/>
    <performer>
      <assignedEntity>
        <id root="2.16.840.1.113883.3.1733.1020" extension="438/98765"/>
        <id root="2.16.840.1.113883.4.6" extension="222222222"/>
        <code code="OrderProv" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="Ordering Provider"/>
        <assignedPerson>
          <name>
            <given>User</given>
            <family>EMR</family>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <author>
      <time xsi:type="IVL_TS" value="20140722061100"/>
      <assignedAuthor>
        <id nullFlavor="UNK"/>
      </assignedAuthor>
    </author>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <code code="CPOEInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="CPOEInd"/>
        <value xsi:type="BN" value="true"/>
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <code code="RadOrdInd" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="RadOrdInd"/>
        <value xsi:type="BN" value="true"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```


Diagnostic Study, Order

Description This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional [Blue = Additional elements needed for Automated \(Usage\) Measures](#)

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Diagnostic Study, Result (Deprecated)

Description This template describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

****Retired from CQM 2015****

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
		Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	templateId	Node			O		
				2.16.840.1.113883.10.20.22.4.2			Consolidated Result Observation templateId (Implied Template)
	templateId	Attribute	Constant		O		
		Node			R		
				2.16.840.1.113883.10.20.24.3.20			Diagnostic Study, Result template
	id	Attribute	Constant		R		
		Node			C		
				2.16.840.1.113883.3.1733.100			Unique Identifier of Diagnostic study resulted
	root	Attribute	Constant		C		
	extension	Attribute		fac#/encnbr#/test_code/ordnbr#	C	Length = 100	Required if Diagnostic Study Order needs to be linked to Diagnostic Study Result
	id	Node			C		
				2.16.840.1.113883.3.1733.1001			Placer Order Number of the Diagnostic Study Order
	root	Attribute	Constant		C		
	extension	Attribute		ordnbr#	C		
	code	Node			R		
							Code which specifies the order for a Diagnostic Study Test (Eg: 268547008 for Diagnostic Study, Order: Screening for malignant neoplasm of breast)
		Attribute			R	Length = 50	
	<i>codeSystem</i>	Attribute			R		Recommended LOINC/SNOMED-CT
	<i>codeSystemName</i>	Attribute			O		
	<i>displayName</i>	Attribute			O	Length = 256	
	statusCode	Node			R		
		Attribute	Constant	completed	R		

Diagnostic Study, Result (Deprecated)

Description This template describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

****Retired from CQM 2015****

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
effectiveTime	Node			R		
low	Node			R		
high	Attribute			R	yyyyMMdd[hmmss]	Diagnostic Study Result Start timestamp
high	Node			O		
high	Attribute			O	yyyyMMdd[hmmss]	Diagnostic Study Result End timestamp
value*	Node			R		
code	Attribute			R		Coded Result of the Diagnostic Study (Eg: 290084006 for Breast normal)
codeSystem	Attribute			R		Recommended SNOMED-CT
codeSystemName	Attribute			O		
displayName	Attribute			O		
value**	Node			C		
xsi:type	Attribute	Constant	ED	C		Indicates if result type is an Image, if not set to ST
mediaType	Attribute	Constant	image/jpeg	C		Indicates if result type is an Image, else set to NA
entryRelationship**	Node			O		Required if Required Image Data Type needs to be defined
typeCode	Attribute	Constant	REFR	C		
observation	Node			C		
typeCode	Attribute	Constant	OBS	C		
typeCode	Attribute	Constant	EVN	C		
typeCode	Node			C		
typeCode	Attribute	Constant	DataType	C		Constant Code for Data type
typeCode	Attribute	Constant	2.16.840.1.113883.	C		Codesystem for BIC Proprietary Codes
typeCode	Attribute	Constant	3.1733.100	C		
typeCode	Attribute	Constant	BIC Proprietary	C		
typeCode	Attribute	Constant	Codes	C		
typeCode	Node			C		

Diagnostic Study, Result (Deprecated)

Description This template describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

****Retired from CQM 2015****

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute	Constant	ST	C		Set its value to ED if expected datatype is image, else set to NA
entryRelationship	Node			O		Required if reason for Result Not Done needs to be defined
typeCode	Attribute	Constant	RSON	C		Required if Node is defined
observation	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			R		
	Attribute	Constant	2.16.840.1.113883.10.20.24.3.88	R		Reason template
	Node			C		
	Attribute			C		Reason for Not Communicated
	Attribute			C		Recommended SNOMED-CT
	Attribute			C		
	Attribute			C		
	Attribute			C		

If the entry is for a non imaging diagnostic study, that generates result as coded value, use the value node marked with * for Usage measure 'Imaging Results accessible thru EHR', BI will look for a value xsi:type="ED" and mediaType="image/jpeg" to infer an image. Use the value node marked with ** followed by the EntryRelationship node marked with **

Diagnostic Study, Result (Deprecated)

Description This template describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

****Retired from CQM 2015****

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Diagnostic Study Result Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.20"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/46330-7/200"/>
    <id root="2.16.840.1.113883.3.1733.1001" extension="200"/>
    <code code="46330-7" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Abdomen CT W reduced contrast volume IV"/>
    <text>Abdomen CT W reduced contrast volume IV</text>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140722061100"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="ST" nullFlavor="NA"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <code code="DataType" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="DataType"/>
        <value xsi:type="ST">ST</value>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Diagnostic Study, Performed

Description This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	OBS	R		
		<i>templateId</i>	Attribute	Constant	EVN	R		
			Node			R		
					2.16.840.1.113883.			
		<i>templateId</i>	Attribute	Constant	10.20.22.4.13	R		Consolidated Procedure Activity Observation templateId (Implied Template)
			Node			R		
					2.16.840.1.113883.			
		<i>id</i>	Attribute	Constant	10.20.24.3.18	R		Diagnostic Study, Performed template
			Node			R		
		<i>id</i>	Attribute	Constant	2.16.840.1.113883.	R		
			Node			R		
		<i>id</i>	Attribute	Constant	2.16.840.1.113883.	R	Length = 100	Unique Identifier of Diagnostic Required if Diagnostic Study Order
			Node			R		
		<i>id</i>	Attribute	Constant	2.16.840.1.113883.	R		
			Node			R		
		<i>code</i>	Attribute	Constant	2.16.840.1.113883.	R		Placer Order Number of the
			Node			R		
		<i>code</i>	Attribute			R	Length = 50	Code for Diagnostic Study test performed (Eg:268547008 for Diagnostic Study, Performed: Screening for malignant neoplasm of breast)
		<i>codeSystem</i>	Attribute			R		Recommended LOINC/SNOMED-CT
		<i>codeSystemName</i>	Attribute			O		
		<i>displayName</i>	Attribute			O	Length = 256	
		<i>statusCode</i>	Attribute			O		In case of Not Done, and code cannot be determined use code can be set to NullFlavor and populate sdtc with a valid OID
			Node			R		
		<i>effectiveTime</i>	Attribute	Constant	completed	R		
			Node			R		
		<i>low</i>	Node			R		
			Node			R		
			Attribute			R	yyyyMMdd[hmmss[.fff]]	Diagnostic Study Performed Start timestamp

Diagnostic Study, Performed

Description This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
high	Node			O		
value*	Attribute			O	yyyyMMdd[h:mm:ss [.fff]]	Diagnostic Study Performed End timestamp
	Node			R		Coded Result of the Diagnostic Study (Eg: 290084006 for Breast normal)
	Attribute			R		Recommended SNOMED-CT
	Attribute			R		
	Attribute			O		
	Attribute			O		
value**	Node			C		
	Attribute	Constant	ED	C		Indicates if result type is an Image, if not set to ST
	Attribute	Constant	image/jpeg	C		Indicates if result type is an Image, else set to NA
entryRelationship**	Node			O		Required if Required Image Data Type needs to be defined
	Attribute	Constant	REFR	C		
	Node			C		
	Attribute	Constant	OBS	C		
	Attribute	Constant	EVN	C		
	Node			C		
	Attribute	Constant	DataType 2.16.840.1.113883. 3.1733.100 BIC Proprietary Codes	C		Constant Code for Data type Codesystem for BIC Proprietary Codes
	Attribute	Constant	ST	C		Set its value to ED if expected datatype is image, else set to NA
entryRelationship	Node			O		Required if reason for Result Not Done needs to be defined
	Attribute	Constant	RSON	C		Required if Node is defined
	Node			C		

Diagnostic Study, Performed

Description This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Attribute	Constant	OBS	C		
Attribute	Constant	EVN	C		
Node			R		
		2.16.840.1.113883.			
Attribute	Constant	10.20.24.3.88	R		Reason template
Node			C		
Attribute			C		Reason for Not Communicated
Attribute			C		Recommended SNOMED-CT
Attribute			C		
Attribute			C		
Attribute			C		

Diagnostic Study, Performed

Description This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Diagnostic Study Performed Sample

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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```

<entry>
- <observation moodCode="EVN" classCode="OBS">
  <templateId root="2.16.840.1.113883.10.20.22.4.13"/>
  <templateId root="2.16.840.1.113883.10.20.24.3.18"/>
  <id extension="0364/249946/XRUGI/100" root="2.16.840.1.113883.3.1733.100"/>
  <id extension="100" root="2.16.840.1.113883.3.1733.1001"/>
  <code code="XRUGI" displayName="UPPER GI" codeSystemName="HMS BI CUSTOM CODE" codeSystem="2.16.840.1.113883.3.1733.100"/>
  <text>UPPER GI</text>
  <statusCode code="completed"/>
- <effectiveTime>
  <low value="20050812070000"/>
  <high value="20050812070000"/>
</effectiveTime>
  <value nullFlavor="NA" xsi:type="ST"/>
- <entryRelationship typeCode="REFR">
  - <observation moodCode="EVN" classCode="OBS">
    <code code="DataType" displayName="DataType" codeSystemName="HMS BI CUSTOM CODE" codeSystem="2.16.840.1.113883.3.1733.100"/>
    <value xsi:type="ST">ST</value>
  </observation>
  </entryRelationship>
</observation>
</entry>

```

Tobacco Use

Description This clinical statement represents a patients tobacco use. All types of tobacco use are represented using the codes from the tobacco use and exposure - finding hierarchy in SNOMED CT.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	<i>templateId</i>	Node			R		
				2.16.840.1.113883.			
	id	Attribute	Constant	10.20.22.4.85	R		Tobacco Use Template ID
		Node			R		
				2.16.840.1.113883.			
		Attribute		3.1733.100	R		
				facnbr#/encnbr#/s			
	code	Attribute		moking_code#		Length=100	Tobacco use identifier across organization
		Node			R		
		Attribute	Constant	ASSERTION	R		
				2.16.840.1.113883.			
		Attribute	Constant	5.4	R		
		Attribute	Constant	HL7ActCode	R		
	statusCode	Node			R		
		Attribute	Constant	completed	R		
	effectiveTime	Node			R		
		Node			R		
	value	Attribute			R		Smoking Status Record
		Node			R		yyyyymmdd[hhmmss] Timestamp
		Attribute	Constant	CD	R		
		Attribute			R	Length=50	Code which specifies the user's smoking status(Eg: 20110410 for Never smoked)
				2.16.840.1.113883.			
		Attribute	Constant	6.96	R		Recommended SNOMED-CT code
		Attribute	Constant	SNOMED-CT	O		
		Attribute			O	Length=256	

Tobacco Use

Description This clinical statement represents a patients tobacco use. All types of tobacco use are represented using the codes from the tobacco use and exposure - finding hierarchy in SNOMED CT.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Tobacco Use Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.85"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/428041000124106"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Assertion"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20120717000000"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="428041000124106" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Current Some Day Smoker"/>
  </observation>
</entry>

```

Physical Exam, Performed

Description This template represents the result or finding of a physical exam performed over a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	<i>templateId</i>	Node			R		
				2.16.840.1.113883.			
	<i>root</i>	Attribute	Constant	10.20.22.4.13	R		Result Observation template
	<i>templateId</i>	Node			R		
				2.16.840.1.113883.			
	<i>id</i>	Attribute	Constant	10.20.24.3.59	R		Physical Exam, Performed template
		Node			R		
	<i>root</i>	Attribute			R		
				2.16.840.1.113883.			
				3.1733.100	R		
	<i>code</i>	Attribute			R		Physical exam unique identifier across organization
	<i>attribute</i>	Node			R		
				facnbr#/enc_nbr#/code#/recorder_datetime			
	<i>code</i>	Attribute			R	Length = 50	Code which specifies a Physical exam/Vital Sign (Eg: 404684003 for Gangrene of foot) Recommended LOINC/SNOMED CT
	<i>codeSystem</i>	Attribute			R		
	<i>codeSystemName</i>	Attribute			R		
	<i>displayName</i>	Attribute			O	Length = 256	
	<i>statusCode</i>	Node			R		
	<i>code</i>	Attribute	Constant	completed	R		
	<i>effectiveTime</i>	Node			O		
	<i>low</i>	Node			O		
		Attribute			O	yyyyMMdd[hmmss [.fff]]	Vital Sign Recording Timestamp
	<i>value</i>	Node			R		
	<i>xsi:type</i>	Attribute	Constant	PQ	R		
	<i>value</i>	Attribute			R		Numeric value
	<i>unit</i>	Attribute			R		Unit

[Physical Exam Performed Sample](#)

Physical Exam, Performed

Description This template represents the result or finding of a physical exam performed over a patient.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.13"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.59"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="0364/4007280/8302-2/20151117195750"/>
    <code code="8302-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Height"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20151117195750"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="PQ" value="0.0" unit="cm"/>
  </observation>
</entry>

```

Patient Characteristic -Expired

Description This clinical statement represents the observation that a patient has expired.

Legend

Font *Italics = Attribute*

i

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy		Component Type	Value Type	Value	Usage	Description / Comments
entry		Node			R	
	observation	Node			R	
	<i>classCode</i>	Attribute	Constant	OBS	R	
	<i>moodCode</i>	Attribute	Constant	EVN	R	
	templateId	Node			R	
				2.16.840.1.113883.10.20.22.4.79		Consolidation Deceased Observation templateId
				2.16.840.1.113883.10.20.24.3.54	R	Patient Characteristic Expired
	id	Node			R	
				2.16.840.1.113883.3.1733.100	R	
				fac_nbr#/mrn#/ code	R	Unique Identifier for Patient
				code	R	Constant code for assertion
				codeSystem	R	
				codeSystemName	R	
	statusCode	Node			R	
				code	R	
	effectiveTime	Node			R	
				low	R	
					R	Timestamp which indicates the death time of patient

Patient Characteristic -Expired

Description This clinical statement represents the observation that a patient has expired.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
value	Node			R	
<i>xsi:type</i>	Attribute	Constant	CD	R	
<i>code</i>	Attribute	Constant	419099009	R	Constant code which specifies that the entry contains patient's cause of death
<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.	R	
<i>codeSystemName</i>	Attribute	Constant	6.96	R	
<i>displayName</i>	Attribute	Constant	SNOMED-CT	O	
	Attribute	Constant	Dead	O	
entryRelationship	Node			C	Required if Preliminary Cause of Death is defined
<i>typeCode</i>	Attribute	Constant	CAUS	C	
observation	Node			C	
	Attribute	Constant	OBS	C	
	Attribute	Constant	EVN	C	
	Node			C	
	Attribute	Constant	2.16.840.1.113883.	C	
	Node			C	
	Attribute	Constant	3.1733.100	C	
	Attribute	Constant	ASSERTION	C	
	Attribute	Constant	2.16.840.1.113883.	C	
	Attribute	Constant	5.4	C	
	Attribute	Constant	HL7ActCode	O	
	Node			C	
	Attribute	Constant	completed	C	
	Node			C	
	Attribute	Constant	CD	C	

Patient Characteristic -Expired

Description This clinical statement represents the observation that a patient has expired.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
	Attribute			C	Cause of Death (Diagnosis, Problem etc.) Code (Eg: 56717001 for Tuberculosis)
	Attribute			C	
	Attribute			O	
	Attribute			O	

Patient Characteristic -Expired

Description This clinical statement represents the observation that a patient has expired.

Legend

Font *Italics = Attribute*
 Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
Patient Characteristic -Expired Sample					

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.79"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.54"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Patient Expired"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140722050100"/>
    </effectiveTime>
    <value xsi:type="CD" code="419099009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Dead"/>
    <entryRelationship typeCode="CAUS">
      <observation classCode="OBS" moodCode="EVN">
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="76381" codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9 CM" displayName="AB FTL HRT RT/RH B/F LAB"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>
    
```

Physical Exam, Finding

Description This template represents the result

Legend

Font *Italics = Attribute*

i

Usage : R = Required

C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

****Retired from CQM 2015****

Node Hierarchy			Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	observation		Node			R		
		<i>classCode</i>	Node			R		
		<i>moodCode</i>	Attribute	Constant	OBS	R		
		<i>templateId</i>	Attribute	Constant	EVN	R		
			Node			R		
					2.16.840.1.113883.			
		<i>templateId</i>	Attribute	Constant	10.20.22.4.2	R		Result Observation template
			Node			R		
					2.16.840.1.113883.			
		<i>id</i>	Attribute	Constant	10.20.24.3.57	R		Physical Exam, Finding template
			Node			R		
					2.16.840.1.113883.			
		<i>code</i>	Attribute		3.1733.100	R		Physical exam unique identifier across organization
			Attribute		facnbr#/enc_nbr#/code#/recorder_datetime	R		
			Node			R		
		<i>code</i>	Attribute			R	Length = 50	Code which specifies a Physical exam/Vital Sign (Eg: 404684003 for Gangrene of foot) Recommended LOINC/SNOMED CT
			Attribute			R		
		<i>codeSystem</i>	Attribute			R		
		<i>codeSystemName</i>	Attribute			R		
		<i>displayName</i>	Attribute			O	Length = 256	
		<i>statusCode</i>	Node			R		
			Attribute	Constant	completed	R		
		<i>effectiveTime</i>	Node			O		
			Node			O		
		<i>low</i>	Node			O		
			Attribute			O	yyyyMMdd[h:mm:ss]	Vital Sign Recording Timestamp
		<i>value</i>	Node			R		
			Attribute	Constant	PQ	R		
		<i>xsi:type</i>	Attribute			R		Numeric value
		<i>value</i>	Attribute			R		
		<i>unit</i>	Attribute			R		Unit

Physical Exam, Finding

Description This template represents the result

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

****Retired from CQM 2015****

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Physical Exam Finding Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.2"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.57"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/8302-2/20140722060128"/>
    <code code="8302-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Height"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140722060128"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="PQ" value="157.48" unit="cm"/>
  </observation>
</entry>

```

Patient Preference

Description Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy			Component Type	Value Type	Value	Usage	Description / Comments
entry			Node			R	
	observation		Node			R	
		<i>classCode</i>	Attribute	Constant	OBS	R	
		<i>moodCode</i>	Attribute	Constant	EVN	R	
		templateId	Node			R	
					2.16.840.1.113883.		Patient Preference template
		id	Attribute	Constant	10.20.24.3.83	R	
			Node			R	
			Attribute	Constant	2.16.840.1.113883.3.1733.100	R	
					fac#/mrn#/adv_code#		Unique identifier of patient preference across organization
		code	Attribute			R	
			Node			R	
			Attribute	Constant	PAT	R	Constant value which indicates a patient request
					2.16.840.1.113883.		
			Attribute	Constant	5.8	R	
			Attribute	Constant	HL7ActReason	O	
			Attribute	Constant	patient request	O	
		statusCode	Node			R	
			Attribute	Constant	completed	R	
		effectiveTime	Node			R	
			Node			R	
		low					Advance Directive Recording Timestamp
			Attribute			R	
		value	Node			R	
			Attribute	Constant	CD	R	
		<i>xsi:type</i>					

Patient Preference

Description Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
<i>code</i>	Attribute			R	Advance Directive Code (Eg: 275984001 for Immunization refused)
<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.3.1733.100	R	
<i>codeSystemName</i>	Attribute	Constant	BIC Proprietary Codes	O	
<i>displayName</i>	Attribute			O	

Patient Preference

Description Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
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Patient Preference Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313/HMS_AD_FORM_COMPLETE_Y"/>
    <code code="PAT" codeSystem="2.16.840.1.113883.5.8" codeSystemName="ActReason" displayName="Patient Request"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140714054900"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="HMS_AD_FORM_COMPLETE_Y" codeSystem="2.16.840.1.113883.3.1733.100" codeSystemName="HMS BI CUSTOM CODE" displayName="HMS_AD_FORM_COMPLETE_Y"/>
  </observation>
</entry>

```

Encounter, Order

Description This template describes an order for an encounter. This clinical statement describes the ordered interactions between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	encounter	Node			R		
	<i>classCode</i>	Attribute	Constant	ENC	R		A code which describes the underlying class of the entry
	<i>moodCode</i>	Attribute	Constant	RQO	R		Subset of HL7 ActMood codes, constrained to represent Request mood
	templateid	Node			R		Constant templateid which specifies the entry is a Plan of Care Activity Encounter template
	templateid	Attribute	Constant	2.16.840.1.113883.1R	R		Encounter order template
	id	Node			R		Encounter / Visit ID
	id	Attribute	Constant	2.16.840.1.113883.3R	R		Encounter / Visit ID
	code	Attribute		facnbr#/encnbr#/OFR	R	Length = 100	Code which specifies the Decision to Admit (Eg:424441002 for Prenatal initial visit)
	code	Node			R		Recommended SNOMED-CT
	<i>code</i>	Attribute			R	Length = 256	
	<i>codeSystem</i>	Attribute			R		
	<i>displayName</i>	Attribute			R	Length = 256	
	<i>sdtc:valueset</i>	Attribute			O		
	statusCode	Node			R		
	author	Attribute	Constant	new	R		
	time	Node			R		
	assignedAuthor	Node			R		
	assignedAuthor	Node			R		
	assignedAuthor	Attribute	Constant	NA	R		yyyyMMdd[hmmss] Decision to Admit date

Encounter, Order

Description This template describes an order for an encounter. This clinical statement describes the ordered interactions between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	------------	-------	-------	-------------	------------------------

Encounter Order Sample

```

<entry>
  <encounter classCode="ENC" moodCode="RQO">
    <templateId root="2.16.840.1.113883.10.20.22.4.40"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.22"/>
    <id root="2.16.840.1.113883.3.1733.1000" extension="438/2407/ORDER"/>
    <code code="999999999" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
    <text>Encounter Order</text>
    <statusCode code="new"/>
    <author>
      <time xsi:type="IVL_TS" value="20140724035500"/>
      <assignedAuthor>
        <id nullFlavor="UNK"/>
      </assignedAuthor>
    </author>
  </encounter>
</entry>

```


Diagnosis Family History

Description Diagnosis Family History: This template represents problems, conditions, and diagnoses experienced by a patient's family members whether existing currently or in the past.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy				Component Type	Value Type	Value	Usage	Description / Comments
	organizer			Node			R	
		classCode		Node			R	
		moodCode		Attribute	Constant	CLUSTER	R	
		templateId		Attribute	Constant	EVN	R	
			root	Node			R	
				Attribute	Constant	2.16.840.1.113883.1	R	Family history organizer template
		statusCode		Node			R	
				Attribute	Constant	completed	R	
		subject		Node			R	
			relatedSubject	Node			R	
				Attribute	Constant	PRS	R	
				Node			R	Code for the type of Relative
				Attribute			R	Recommended SNOMED-CT
				Attribute			R	
				Attribute			O	
				Attribute			O	
	component			Node			R	
			observation	Node			R	
				Attribute	Constant	OBS	R	
				Attribute	Constant	EVN	R	
				Node			R	
				Attribute	Constant	2.16.840.1.113883.1	R	Family History Observation template
				Node			O	
				Attribute		2.16.840.1.113883.1	O	

Diagnosis Family History

Description Diagnosis Family History: This template represents problems, conditions, and diagnoses experienced by a patient's family members whether existing currently or in the past.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
	Attribute		fac#/mrn#/relations	C	Unique identifier of family health history across organization
	Node			R	Status of the Relative's health condition (Active / Inactive etc.)
	Attribute			R	
	Attribute			R	Relative's status recorded timestamp
	Attribute			R	
	Attribute			R	
	Node			R	
	Attribute	Constant	completed	R	
	Node			R	
	Attribute			R	
	Node			R	Health Condition Code / Problem Code/ Diagnosis Code etc.
	Attribute	Constant	CD	R	
	Attribute			R	
	Attribute			R	
	Attribute			O	
	Attribute			O	

Diagnosis Family History

Description Diagnosis Family History: This template represents problems, conditions, and diagnoses experienced by a patient's family members whether existing currently or in the past.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Description / Comments
Diagnosis Family History					

```

<entry>
  <organizer moodCode="EVN" classCode="CLUSTER">
    <templateId root="2.16.840.1.113883.10.20.22.4.45" />
    <statusCode code="completed" />
    <!-- Relationship -->
    <subject>
      <relatedSubject classCode="PRS">
        <code code="444304005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="SISTER" />
      </relatedSubject>
    </subject>
    <!-- Problem -->
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.46" />
        <!-- SSUI -->
        <id root="2.16.840.1.113883.3.1733.100" extension="358/536524/444304005/394877006" />
        <code xsi:type="CE" code="55561003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Active" />
        <statusCode code="completed" />
        <effectiveTime value="20140827110000" />
        <!-- Problem Code -->
        <value xsi:type="CD" code="394877006" codeSystem="2.16.840.1.113883.6.96"
          displayName="Alzheimer s disease" codeSystemName="SNOMED CT" />
      </observation>
    </component>
  </organizer>
</entry>

```

Clinical Trial Participant

Description This template represents that the patient is a clinical trial participant.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
observation		Node			R		
	<i>classCode</i>	Node			R		
	<i>moodCode</i>	Attribute	Constant	OBS	R		
	<i>templateId</i>	Attribute	Constant	EVN	R		
	<i>root</i>	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Constant value which specifies that the template is a Patient Characteristic Clinical Trial Participant template
	<i>id</i>	Node			R		
	<i>id</i>	Attribute		2.16.840.1.113883.3	R		
	<i>code</i>	Attribute	Constant	fac#/mnrn#/clinical t	R	Length = 100	Unique identifier for the record
	<i>code</i>	Node			R		
	<i>code</i>	Attribute	Constant	ASSERTION	R	Length = 50	
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.5	R		
	<i>codeSystemName</i>	Attribute	Constant	ActCode	R		
	<i>displayName</i>	Attribute	Constant	Assertion	R	Length = 256	
	<i>statusCode</i>	Node			R		
	<i>statusCode</i>	Attribute	Constant	active	R		
	<i>effectiveTime</i>	Node			R		
	<i>low</i>	Node			R		
	<i>low</i>	Attribute			R	yyyyMMdd[h:mmss[.fff]]	Timestamp value of date of observation which specifies that the patient is a clinical trial participant
	<i>value</i>	Node			R		
	<i>xsi:type</i>	Attribute	Constant	CD	R		
	<i>code</i>	Attribute	Constant	428024001	R		SNOMED code for Clinical Trial Participant
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6	R		
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	O		
	<i>displayName</i>	Attribute		Clinical Trial Particip	O		

Clinical Trial Participant

Description This template represents that the patient is a clinical trial participant.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Clinical Trial Participant Sample

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.51"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313/428024001"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Clinical Trial Participant"/>
    <statusCode code="active"/>
    <effectiveTime>
      <low nullFlavor="UNK"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="428024001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Clinical trial participant (person)"/>
  </observation>
</entry>
```

Medication Intolerance (Deprecated)

Description This clinical statement template represents medication intolerance. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug.

Legend
 Font *Italics = Attribute*
 Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
observation	Node			R		
	Node			R		
	<i>classCode</i>	Attribute	Constant	OBS		
	<i>moodCode</i>	Attribute	Constant	EVN		
	<i>templateId</i>	Node		R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R		Consolidation CDA Allergy observat
	<i>templateId</i>	Node		R		
	<i>id</i>	Attribute	Constant	2.16.840.1.113883.1R		Medication Intolerance template
	<i>code</i>	Node		R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.3R		
	<i>extension</i>	Attribute	Constant	facnbr#/mrn#/drugcR		Length = 100
	<i>code</i>	Node		R		
	<i>code</i>	Attribute	Constant	ASSERTION	R	Constant code for Assertion
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.5R		
	<i>codeSystemName</i>	Attribute	Constant	ActCode	R	
	<i>displayName</i>	Attribute	Constant	Assertion	R	
	<i>statusCode</i>	Node		R		
	<i>code</i>	Attribute	Constant	completed	R	
	<i>effectiveTime</i>	Node		R		
	<i>low</i>	Node		R		
		Attribute		R	yyyyMMdd[h:mmss [.fff]]	Intolerance Start Timestamp
	<i>high</i>	Node		O		
		Attribute		O	yyyyMMdd[h:mmss [.fff]]	Intolerance End Timestamp
	<i>value</i>	Node		R		
	<i>xsi:type</i>	Attribute	Constant	CD	R	
	<i>code</i>	Attribute	Constant	59037007	R	Constant code wwhich specifies Int
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6R		
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	O	
	<i>displayName</i>	Attribute	Constant	Drug intolerance	O	
	<i>participant</i>	Node		R		
	<i>typeCode</i>	Attribute	Constant	CSM	R	Constant code for consumable
	<i>participantRole</i>	Node		R		
		Attribute	Constant	MANU	R	Constant code for Manufactured Pr

Medication Intolerance (Deprecated)

Description This clinical statement template represents medication intolerance. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug.

Legend
 Font *Italics = Attribute*
 Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Node			R		
	Attribute	Constant	MMAT	R		Constant code for Manufactured m
	Node			R		
	Attribute			R	Length = 50	Code which represents a Drug (Eg: /RXNORM recommended
	Attribute			R		
	Attribute			O		
	Attribute			O	Length = 50	
	Node			O		Drug Name

Medication Intolerance (Deprecated)

Description This clinical statement template represents medication intolerance. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug.

Legend

Font *Italics = Attribute*
Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	----------------	------------	-------	-------	-------------	------------------------

Medication Intolerance Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.7"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.46"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313/217127/INT"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Assertion"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140716045300"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="59037007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Drug intolerance"/>
    <participant typeCode="CSM">
      <participantRole classCode="MANU">
        <playingEntity classCode="MMAT">
          <code code="217127" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="Fiorinal with Codeine"/>
          <name>Fiorinal with Codeine</name>
        </playingEntity>
      </participantRole>
    </participant>
  </observation>
</entry>

```


Medication Adverse Effect

Description A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
observation		Node			R		
	<i>classCode</i>	Node			R		
	<i>moodCode</i>	Attribute	Constant	OBS	R		
	<i>templateId</i>	Attribute	Constant	EVN	R		
	<i>root</i>	Node			R		
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R			Consolidation CDA Allergy observation template
	<i>templateId</i>	Node			R		
	<i>templateId</i>	Attribute	Constant	2.16.840.1.113883.1R			Medication Adverse Effect template
	<i>id</i>	Node			R		
	<i>root</i>	Attribute		2.16.840.1.113883.3R			
	<i>extension</i>	Attribute		facnbr#/mrn#/drugc	R	Length = 100	
	<i>code</i>	Node			R		
	<i>code</i>	Attribute	Constant	ASSERTION	R		Constant code for Assertion
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.5R			
	<i>codeSystemName</i>	Attribute	Constant	ActCode	R		
	<i>displayName</i>	Attribute	Constant	Assertion	R		
	<i>statusCode</i>	Node			R		
	<i>code</i>	Attribute	Constant	completed	R		
	<i>effectiveTime</i>	Node			R		
	<i>low</i>	Node			R		
	<i>low</i>	Attribute			R	yyyyMMdd[hmmss [.fff]]	Timestamp at which Adverse effect of medication is started
	<i>high</i>	Node			O		
	<i>high</i>	Attribute			O	yyyyMMdd[hmmss [.fff]]	Timestamp at which Adverse effect of medication is ended.
	<i>value</i>	Node			R		
	<i>xsi:type</i>	Attribute	Constant	CD			
	<i>code</i>	Attribute	Constant	62014003	R		Constant code for Adverse Effect
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6R			
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	O		
	<i>displayName</i>	Attribute	Constant	Adverse drug effect	O		
	<i>participant</i>	Node			R		

Medication Adverse Effect

Description A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<i>typeCode</i>	Attribute	Constant	CSM	R		Constant code for consumable
participantRole	Node			R		
	Attribute	Constant	MANU	R		Constant code for Manufactured Product
	Node			R		
	Attribute	Constant	MMAT	R		Constant code for Manufactured material
	Node			R		
	Attribute			R		Code which represents a Drug (Eg:Ampicillin)
	Attribute			R		RXNORM recommended
	Attribute			O		
	Attribute			O		
	Node			O		Drug Name

Medication Adverse Effect

Description A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
----------------	------------	-------	-------	-------------	------------------------

Medication Adverse Effect Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.7"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.43"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/204313/217127/ADV"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Assertion"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140716045300"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="62014003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Adverse reaction to drug"/>
    <participant typeCode="CSM">
      <participantRole classCode="MANU">
        <playingEntity classCode="MMAT">
          <code code="217127" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="Fiorinal with Codeine"/>
          <name>Fiorinal with Codeine</name>
        </playingEntity>
      </participantRole>
    </participant>
  </observation>
</entry>

```

Diagnosis, Resolved

Description A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments	
observation		Node			R			
		Node			R			
	<i>classCode</i>	Attribute	Constant	OBS	R			
	<i>moodCode</i>	Attribute	Constant	EVN	R			
	<i>templateId</i>	Node			R			
	<i>root</i>	Attribute	Constant	2.16.840.1.113883.1R			Constant value which specifies the entry is a Problem observation template	
	<i>templateId</i>	Node			R			
		Attribute	Constant	2.16.840.1.113883.1R			Constant value which specifies the entry is a Diagnosis resolved template	
	<i>id</i>	Node			R			
	<i>root</i>	Attribute		2.16.840.1.113883.3R				
	<i>extension</i>	Attribute		fac#/enc#/diag_cod	R	Length = 100	Unique identifier for the Diagnosis	
	<i>code</i>	Node			R			
	<i>code</i>	Attribute	Constant	282291009	R		Constant SNOMED CT code which is an identifier for Diagnosis template	
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6R			Code System OID of SNOMED CT	
	<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	R			
	<i>displayName</i>	Attribute	Constant	diagnosis	R			
	<i>statusCode</i>	Node			R			
	<i>code</i>	Attribute	Constant	completed	R			
	<i>effectiveTime</i>	<i>low</i>	Node		R			
			Attribute		R		yyyyMMdd[hmmss [.fff]]	Diagnosis Start Timestamp
	<i>high</i>	Node		O				
		Attribute		O		yyyyMMdd[hmmss [.fff]]	Diagnosis End Timestamp	
<i>priorityCode</i>		Node			O		Required if 'Primary' diagnosis needs to be identified	

Diagnosis, Resolved

Description A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
<i>code</i>	Attribute			R		Required if Node is defined. It describes whether the diagnosis is primary or not. Recommended code is SNOMED-CT
<i>codeSystem</i>	Attribute			R		Required if Node is defined; recommended SNOMED-CT
<i>codeSystemName</i>	Attribute			O		
<i>displayName</i>	Attribute			O		
value	Node			R		
<i>xsi:type</i>	Attribute	Constant	CD	R		
<i>code</i>	Attribute			R	Length = 50	Diagnosis Code of the Resolved Diagnosis
<i>codeSystem</i>	Attribute			R		Codesystem of Resolved Diagnosis
<i>codeSystemName</i>	Attribute			O		
<i>displayName</i>	Attribute			O	Length = 256	
entryRelationship	Node			R		
<i>typeCode</i>	Attribute	Constant	REFR	R		It specifies that the entryrelationship is a Reference
observation	Node			R		
	Attribute	Constant	OBS	R		A code which describes the underlying class of the entry
	Attribute	Constant	EVN	R		Subset of HL7 ActMood codes, constrained to represent event (EVN) and intent (INT) moods
	Node			R		
	Attribute	Constant	2.16.840.1.113883.1R	R		Problem Status (consolidation) template
	Node			R		
	Attribute	Constant	2.16.840.1.113883.1R	R		Problem Status, Resolved template
	Node			R		

Diagnosis, Resolved

Description A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Attribute	Constant	33999-4	R		Constant code which specifies the template as a Status indicator Codesystem of Status code
Attribute	Constant	2.16.840.1.113883.6R			
Attribute	Constant	LOINC	O		
Attribute	Constant	status	O		
Node			R		
Attribute	Constant	completed	R		
Node			R		
Attribute	Constant	CD	R		
Attribute	Constant	413322009	R		Constant SNOMED-CT value which specifies a resolved status
Attribute	Constant	2.16.840.1.113883.6R			Codesystem OID of SNOMED-CT
Attribute	Constant	SNOMED-CT	O		code for Resolved Status
Attribute	Constant	resolved	O		

Diagnosis, Resolved

Description A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur.

Legend

Font *Italics = Attribute*

Usage : R = Required

C = Conditional

Node Hierarchy

Diagnosis Resolved Sample

Component Type

Value Type

Value

Usage

Constraints

Description / Comments

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.14"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/53057004"/>
    <code code="282291009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="diagnosis"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140717000000"/>
      <high value="20140722000000"/>
    </effectiveTime>
    <value xsi:type="CD" code="53057004" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Hand pain"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.6"/>
        <templateId root="2.16.840.1.113883.10.20.24.3.96"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="413322009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Resolved"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Problem Observation

Description A problem is a clinical statement that a clinician has noted. In health care it is a condition that requires monitoring or diagnostic, therapeutic, or educational action. It also refers to any unmet or partially met basic human need.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
entry	Node			R		
observation	Node			R		
<i>classCode</i>	Attribute	Constant	OBS	R		
<i>negationInd</i>	Attribute			R		negationInd="true" if No Known Problem needs to be defined
<i>moodCode</i>	Attribute	Constant	EVN	R		
<i>templateId</i>	Node			R		
<i>root</i>	Attribute	Constant	2.16.840.1.113883.1	R		Constant value which specifies that the entry is a Problem observation template
id	Node			R		
<i>root</i>	Attribute		2.16.840.1.113883.3	R		
<i>extension</i>	Attribute		facnbr#/encnbr#/pri	R	Length = 100	Unique identifier for the Problem
code	Node			R		
<i>code</i>	Attribute	Constant	55607006	R		Constant code for Problem template.
<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.6	R		
<i>codeSystemName</i>	Attribute	Constant	SNOMED-CT	R		
<i>displayName</i>	Attribute	Constant	problem	R		
statusCode	Node			R		
<i>code</i>	Attribute	Constant	completed	R		
effectiveTime	Node			R		
low	Node			R		
<i>value</i>	Attribute			R	yyyyMMdd[hmmss [.fff]]	Problem Start Timestamp
<i>xsi:type</i>	Node			R		
<i>code</i>	Attribute	Constant	CD	R	Length = 50	Code which specifies the problem of the patient (Eg: 195967001 for Asthma)
<i>codeSystem</i>	Attribute			R		SNOMED CT preferred
<i>codeSystemName</i>	Attribute			O		
<i>displayName</i>	Attribute			O	Length = 256	
entryRelationship	Node			R		
<i>typeCode</i>	Attribute	Constant	REFR	R		
observation	Node			R		

Problem Observation

Description A problem is a clinical statement that a clinician has noted. In health care it is a condition that requires monitoring or diagnostic, therapeutic, or educational action. It also refers to any unmet or partially met basic human need.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional **Blue = Additional elements needed for Automated (Usage) Measures**

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
	Attribute	Constant	OBS	R		
	Attribute	Constant	EVN	R		
	Node			O		
	Attribute	Constant	2.16.840.1.113883.1O			Problem Status (consolidation) template
	Node			R		
	Attribute	Constant	2.16.840.1.113883.1R			Problem Status, Active template
	Node			O		
	Attribute			O		
	Node			R		
	Attribute	Constant	33999-4	R		Constant code for Problem status
	Attribute	Constant	2.16.840.1.113883.6R			
	Attribute	Constant	LOINC	R		
	Attribute	Constant	status	R		
	Node			R		
	Attribute	Constant	completed	R		
	Node			R		
	Attribute	Constant	CD	R		
	Attribute	Constant	55561003	R		Constant code for Active problem
	Attribute	Constant	2.16.840.1.113883.6R			
	Attribute	Constant	SNOMED-CT	R		
	Attribute	Constant	active	R		

Problem Observation

Description A problem is a clinical statement that a clinician has noted. In health care it is a condition that requires monitoring or diagnostic, therapeutic, or educational action. It also refers to any unmet or partially met basic human need.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional Blue = Additional elements needed for Automated (Usage) Measures

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Problem Observation Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="438/2406/301773003/PROB"/>
    <code code="55607006" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="problem"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20140714054900"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="301773003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Pain in femur"/>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.6"/>
        <templateId root="2.16.840.1.113883.10.20.24.3.94"/>
        <id root="2.16.840.1.113883.3.1733.100"/>
        <code code="33999-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="status"/>
        <statusCode code="completed"/>
        <value xsi:type="CD" code="55561003" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Active"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

Allergy Intolerance

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy		Component Type	Value Type	Value	Usage	Constraints	Description / Comments
observation		Node			R		
	<i>classCode</i>	Attribute	Constant	OBS	R		
	<i>moodCode</i>	Attribute	Constant	EVN	R		
	<i>templateId</i>	Node			R		
	<i>templateId</i> root	Attribute	Constant	2.16.840.1.113883.1	R		Intolerance Observation
	<i>id</i>	Node			R		
	<i>id</i> root	Attribute	Constant	2.16.840.1.113883.1	R		Allergy Intolerance template
	<i>id</i> extension	Attribute	Constant	2.16.840.1.113883.3	R	Length = 100	Unique Identifier of allergy across organization
	<i>code</i>	Node			R		
	<i>code</i>	Attribute	Constant	ASSERTION	R		Represents an act code
	<i>codeSystem</i>	Attribute	Constant	2.16.840.1.113883.5	R		
	<i>codeSystemName</i>	Attribute	Constant	ActCode	R		
	<i>displayName</i>	Attribute	Constant	Assertion	R		
	<i>statusCode</i>	Node			R		
	<i>statusCode</i> code	Attribute	Constant	completed	R		This describes the status of the allergy for eg completed
	<i>effectiveTime</i>	Node			R		
	<i>effectiveTime</i> low	Node			R		
	<i>effectiveTime</i> low	Attribute			R	yyyyMMdd[hhmmss [.fff]]	Allergy Start Timestamp
	<i>effectiveTime</i> high	Node			O		
	<i>effectiveTime</i> high	Attribute			O	yyyyMMdd[hhmmss [.fff]]	Allergy End Timestamp
	<i>value</i>	Node			R		
	<i>value</i> xsi:type	Attribute	Constant	CD	R		
	<i>value</i> code	Attribute	Constant	419199007	R		This represents constant code for drug allergy
	<i>value</i> codeSystem	Attribute	Constant	2.16.840.1.113883.6	R		
	<i>value</i> codeSystemName	Attribute	Constant	SNOMED-CT	O		Recommended SNOMED CT
	<i>value</i> displayName	Attribute	Constant	Allergy to substance	O		
	<i>author</i>	Node			R		
	<i>author</i> time	Node			R		
	<i>author</i> time	Attribute			R	yyyyMMdd[hhmmss [.fff]]	Decision to Admit date
	<i>author</i> assignedAuthor	Node			R		
	<i>author</i> assignedAuthor	Node			R		
	<i>author</i> assignedAuthor	Attribute	Constant	NA	R		
	<i>participant</i>	Node			R	Length = 50	Drug Allergen Code
	<i>participant</i> typeCode	Attribute	Constant	CSM	R		RXNORM
	<i>participant</i> typeCode						SNOMEDCT
	<i>participant</i> typeCode						160244002 409137002..
	<i>participant</i> typeCode						SNOMEDCT

Allergy Intolerance

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
participantRole	Node			R		
	Attribute	Constant	MANU	R	Length = 256	
	Node			R		Drug Allergy Name
	Attribute	Constant	MMAT	R		
	Node			R		Allergy Reaction
	Attribute			R		Drug Code
	Attribute			R		
	Attribute			O		
	Attribute			O		Drugname
	Node			O		Drugname

Allergy Intolerance

Description A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy	Component Type	Value Type	Value	Usage	Constraints	Description / Comments
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Allergy Intolerance Sample

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.90"/>
    <templateId root="2.16.840.1.113883.10.20.24.3.147"/>
    <id root="2.16.840.1.113883.3.1733.100" extension="0810/500000468/59763/2/ALGINTOL"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" displayName="Assertion"/>
    <statusCode code="completed"/>
    <effectiveTime>
      <low value="20181101000000"/>
      <high nullFlavor="UNK"/>
    </effectiveTime>
    <value xsi:type="CD" code="419199007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" displayName="Allergy to substance"/>
    <author>
      <time xsi:type="IVL_TS" value="20181101000000"/>
      <assignedAuthor>
        <id nullFlavor="UNK"/>
      </assignedAuthor>
    </author>
    <participant typeCode="CSM">
      <participantRole classCode="MANU">
        <playingEntity classCode="MMAT">
          <code code="59763" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RXNorm" displayName="Stavudine"/>
          <name>Stavudine</name>
        </playingEntity>
      </participantRole>
    </participant>
  </observation>
</entry>

```

Medication Intolerance (Deprecated)

Description This clinical statement template represents medication intolerance. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

entry	observation	
	<i>classCode</i>	
	<i>moodCode</i>	
	templateId	
		<i>root</i>
	templateId	
		<i>id</i>
		<i>root</i>
		<i>extension</i>
	code	
		<i>code</i>
		<i>codeSystem</i>
		<i>codeSystemName</i>
		<i>displayName</i>
	statusCode	
		<i>code</i>
	effectiveTime	
		low
		high
	value	
		<i>xsitype</i>
		<i>code</i>
		<i>codeSystem</i>
		<i>codeSystemName</i>
		<i>displayName</i>
	participant	
		<i>typeCode</i>
		participantRole

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Node			R		
Node			R		
Attribute	Constant	OBS	R		
Attribute	Constant	EVN	R		
Node			R		
Attribute	Constant	2.16.840.1.113883.10.2	R		Consolidation CDA Allergy observation template
Node			R		
Attribute	Constant	2.16.840.1.113883.10.2	R		Medication Intolerance template
Node			R		
Attribute		2.16.840.1.113883.3.17	R		
Attribute		facnbr#/mnr#/drugcod	R	Length = 100	Encounter / Visit ID
Node			R		
Attribute	Constant	ASSERTION	R		Constant code for Assertion
Attribute	Constant	2.16.840.1.113883.5.4	R		
Attribute	Constant	ActCode	R		
Attribute	Constant	Assertion	R		
Node			R		
Attribute	Constant	completed	R		
Node			R		
Node			R		
Attribute			R	yyyyMMdd[hmmss].fff	Intolerance Start Timestamp
Node			O		
Attribute			O	yyyyMMdd[hmmss].fff	Intolerance End Timestamp
Node			R		
Attribute	Constant	CD	R		
Attribute	Constant	59037007	R		Constant code wwhich specifies Intolerance for a Drug
Attribute	Constant	2.16.840.1.113883.6.96	R		
Attribute	Constant	SNOMED-CT	O		
Attribute	Constant	Drug intolerance	O		
Node			R		
Attribute	Constant	CSM	R		Constant code for consumable
Node			R		
Attribute	Constant	MANU	R		Constant code for Manufactured Product
Node			R		

Medication Intolerance (Deprecated)

Description This clinical statement template represents medication intolerance. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug.

Legend

Font *Italics = Attribute*

Usage : R = Required C = Conditional

Node Hierarchy

Component Type	Value Type	Value	Usage	Constraints	Description / Comments
Attribute	Constant	MMAT	R		Constant code for Manufactured material
Node			R		
Attribute			R	Length = 50	Code which represents a Drug (Eg:Ampicillin)
Attribute			R		RXNORM recommended
Attribute			O		
Attribute			O	Length = 50	
Node			O		Drug Name



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