Description

Ms Hettie Nguyen is a 17 year old Asian-American female patient accompanied by her mother who presents to her pediatrician, Dr Ellen Yu for weakness, wt loss, and fatigue. Dr Yu orders a Complete Metabolic Profile (CMP), a Comprehensive Blood Count (CBC) and a TSH test from Century Hospital's clinical laboratory as part of her basic work up for her patient. The laboratory tests are ordered through Dr Yu's EHR and the patient is instructed to visit the laboratory's patient service center the next day after fasting overnight.

The laboratory results are transmitted to Dr Yu's office the next day. After reviewing the results and noting a borderline low TSH, Dr Yu calls the lab to add a confirmatory Free T4 test to her earlier requisition. She confirms that this test can be performed on the same sample collected earlier that day. Dr Yu's staff then confirms this order through the practice EHR-S by sending a confirmation to a verbal add-on order.

PreCondition

No Pre Condition

PostCondition

No Post Condition

TestObjectives

- Demonstrate capability to support sending a confirmatory order for use case of a oral order.
- Demonstrate the capability to support an individual as Guardian/Associated Party in the Next Of Kin Segment (NK1).
- Maximally populated ORC.3 fields - Demonstrate the capability of the EHR to support all supported data elements in ORC.3 - Filler Order Number, ORC.15 - Order Effective Date/Time, ORC.16 - Order Control Code Reason.
- Maximally populated OBR.3 Filler Order Number field - Demonstrate the capability of the EHR to support all supported data elements in OBR.3 - Filler Order Number.

NIST-LOI_7.0_2.1-GU_PRN - GHP	
Test Case ID	LOI_7.0_2.1-GU_PRN

MSH

Location	Data Element	Data	Categorization
MSH.1	**Field Separator**	|	IG Fixed Data
MSH.2	**Encoding Characters**	^~\&#	IG Fixed Data
MSH.3	**Sending Application**		
MSH.3.1	Namespace ID	NIST EHR	Configurable Data
MSH.3.2	Universal ID	2.16.840.1.113883.3.72.5.22	Configurable Data
MSH.3.3	Universal ID Type	ISO	IG Fixed Data
MSH.4	**Sending Facility**		
MSH.4.1	Namespace ID	NIST EHR Facility	Configurable Data
MSH.4.2	Universal ID	2.16.840.1.113883.3.72.5.23	Configurable Data
MSH.4.3	Universal ID Type	ISO	IG Fixed Data
MSH.5	**Receiving Application**		
MSH.5.1	Namespace ID	NIST Test Lab APP	Configurable Data
MSH.5.2	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
MSH.5.3	Universal ID Type	ISO	IG Fixed Data
MSH.6	**Receiving Facility**		
MSH.6.1	Namespace ID	NIST Lab Facility	Configurable Data
MSH.6.2	Universal ID	2.16.840.1.113883.3.72.5.21	Configurable Data
MSH.6.3	Universal ID Type	ISO	IG Fixed Data
MSH.7	**Date/Time Of Message**		
MSH.7.1	Time	20130211184101-0500	System Generated
MSH.9	**Message Type**		
MSH.9.1	Message Code	OML	IG Fixed Data
MSH.9.2	Trigger Event	O21	IG Fixed Data
MSH.9.3	Message Structure	OML_O21	IG Fixed Data
MSH.10	**Message Control ID**	NIST-LOI_7.0_2.1-GU_PRN	System Generated
MSH.11	**Processing ID**		
MSH.11.1	Processing ID	T	Changeable Data
MSH.12	**Version ID**		
MSH.12.1	Version ID	2.5.1	IG Fixed Data
MSH.15	**Accept Acknowledgment Type**	AL	IG Fixed Data
MSH.16	**Application Acknowledgment Type**	AL	Changeable Data
MSH.21	**Message Profile Identifier**		
MSH.21.1	Entity Identifier	LOI_GU_PRN_Profile	Test Case Fixed Data
MSH.21.2	Namespace ID	LOI Base + PRN + GU	Changeable Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.86	Test Case Fixed Data
MSH.21.4	Universal ID Type	ISO	IG Fixed Data

PID

Location	Data Element	Data	Categorization
PID.1	**Set ID - PID**	1	IG Fixed Data
PID.3	**Patient Identifier List**		
PID.3.1	ID Number	PATID70	Configurable Data
PID.3.4	Assigning Authority		
PID.3.4.1	Namespace ID	NIST MPI	Configurable Data
PID.3.4.2	Universal ID	2.16.840.1.113883.3.72.5.30.2	Configurable Data
PID.3.4.3	Universal ID Type	ISO	IG Fixed Data
PID.3.5	Identifier Type Code	MR	Changeable Data
PID.5	**Patient Name**		
PID.5.1	Family Name		

Location	Data Element	Data	Categorization
PID.5.1	Surname	Nguyen	Changeable Data
PID.5.2	Given Name	Thuy	Changeable Data
PID.5.3	Second and Further Given Names or Initials Thereof	Thi	Changeable Data
PID.5.7	Name Type Code	L	Changeable Data
PID.7	**Date/Time of Birth**		
PID.7.1	Date/Time	19951010	Changeable Data
PID.8	**Administrative Sex**	F	Changeable Data
PID.10	**Race**		
PID.10.1	Identifier	2028-9	Changeable Data
PID.10.2	Text	Asian	Changeable Data
PID.10.3	Name of Coding System	HL70005	IG Fixed Data
PID.11	**Patient Address**		
PID.11.1	Street Address		
PID.11.1.1	Street or Mailing Address	1447 North Mar Vista	Changeable Data
PID.11.2	Other Designation	Apt 2	Changeable Data
PID.11.3	City	Pasadena	Changeable Data
PID.11.4	State or Province	CA	Changeable Data
PID.11.5	Zip or Postal Code	91104	Changeable Data
PID.11.7	Address Type	H	Test Case Fixed Data
PID.22	**Ethnic Group**		
PID.22.1	Identifier	N	Changeable Data
PID.22.2	Text	Not Hispanic or Latino	Changeable Data
PID.22.3	Name of Coding System	HL70189	IG Fixed Data

NK1

Location	Data Element	Data	Categorization
NK1.1	**Set ID - NK1**	1	IG Fixed Data
NK1.2	**Name**		
NK1.2.1	Family Name		
NK1.2.1.1	Surname	Nguyen	Changeable Data
NK1.2.2	Given Name	Thuy	Changeable Data
NK1.2.3	Second and Further Given Names or Initials Thereof	Thi	Changeable Data
NK1.2.7	Name Type Code	L	Changeable Data
NK1.3	**Relationship**		
NK1.3.1	Identifier	MTH	Changeable Data
NK1.3.2	Text	Mother	Changeable Data
NK1.3.3	Name of Coding System	HL70063	IG Fixed Data
NK1.3.7	Coding System Version ID	2.5.1	Changeable Data
NK1.4	**Address**		
NK1.4.1	Street Address		
NK1.4.1.1	Street or Mailing Address	1447 North Mar Vista	Changeable Data
NK1.4.2	Other Designation	Apt 2	Changeable Data
NK1.4.3	City	Pasadena	Changeable Data
NK1.4.4	State or Province	CA	Changeable Data
NK1.4.5	Zip or Postal Code	91104	Changeable Data
NK1.4.6	Country Code	USA	Changeable Data
NK1.4.7	Address Type	H	Changeable Data
NK1.5	**Phone Number**		
NK1.5.3	Telecommunication Equipment Type	PH	Test Case Fixed Data
NK1.5.6	Area/City Code	626	Changeable Data
NK1.5.7	Local Number	5555555	Changeable Data
NK1.7	**Contact Role**		
NK1.7.1	Identifier	N	Changeable Data
NK1.7.2	Text	Next-of-Kin	Changeable Data
NK1.7.3	Name of Coding System	HL70131	IG Fixed Data

─ORC─

Location	Data Element	Data	Categorization
ORC.1	Order Control	NW	Test Case Fixed Data
ORC.2	Placer Order Number		
ORC.2.1	Entity Identifier	ORD80	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Configurable Data
ORC.2.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
ORC.2.4	Universal ID Type	ISO	IG Fixed Data
ORC.3	Filler Order Number		
ORC.3.1	Entity Identifier	LABORD72	Changeable Data
ORC.3.2	Namespace ID	NIST Test Lab APP	Configurable Data
ORC.3.3	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
ORC.3.4	Universal ID Type	ISO	IG Fixed Data
ORC.4	Placer Group Number		
ORC.4.1	Entity Identifier	GRP7	Changeable Data
ORC.4.2	Namespace ID	NIST EHR	Configurable Data
ORC.4.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
ORC.4.4	Universal ID Type	ISO	IG Fixed Data
ORC.9	Date/Time of Transaction		
ORC.9.1	Time	201302201530	System Generated
ORC.12	Ordering Provider		
ORC.12.1	ID Number	2554560005	Changeable Data
ORC.12.2	Family Name		
ORC.12.2.1	Surname	Yu	Changeable Data
ORC.12.3	Given Name	Ellen	Changeable Data
ORC.12.9	Assigning Authority		
ORC.12.9.1	Namespace ID	NPI	Configurable Data
ORC.12.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data
ORC.12.9.3	Universal ID Type	ISO	IG Fixed Data
ORC.12.10	Name Type Code	L	Changeable Data
ORC.12.13	Identifier Type Code	NPI	Changeable Data
ORC.14	Call Back Phone Number		
ORC.14.3	Telecommunication Equipment Type	PH	Test Case Fixed Data
ORC.14.6	Area/City Code	626	Changeable Data
ORC.14.7	Local Number	5555555	Changeable Data

─OBR─

Location	Data Element	Data	Categorization
OBR.1	Set ID - OBR	1	IG Fixed Data
OBR.2	Placer Order Number		
OBR.2.1	Entity Identifier	ORD80	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Configurable Data
OBR.2.3	Universal ID	2.16.840.1.113883.3.72.5.24	Configurable Data
OBR.2.4	Universal ID Type	ISO	IG Fixed Data
OBR.3	Filler Order Number		
OBR.3.1	Entity Identifier	LABORD72	Changeable Data
OBR.3.2	Namespace ID	NIST Test Lab APP	Configurable Data
OBR.3.3	Universal ID	2.16.840.1.113883.3.72.5.20	Configurable Data
OBR.3.4	Universal ID Type	ISO	IG Fixed Data
OBR.4	Universal Service Identifier		
OBR.4.1	Identifier	3024-7	Test Case Fixed Data
OBR.4.2	Text	Thyroxine (T4) free [Mass/volume] in Serum or Plasma	Changeable Data
OBR.4.3	Name of Coding System	LN	Test Case Fixed Data
OBR.4.7	Coding System Version ID	2.42	Changeable Data

Location	Data Element	Data	Categorization
OBR.4.9	Original Text	T4 (Thyroxine), Free, Serum	Changeable Data
OBR.16	**Ordering Provider**		
OBR.16.1	ID Number	2554560005	Changeable Data
OBR.16.2	Family Name		
OBR.16.2.1	Surname	Yu	Changeable Data
OBR.16.3	Given Name	Ellen	Changeable Data
OBR.16.9	Assigning Authority		
OBR.16.9.1	Namespace ID	NPI	Configurable Data
OBR.16.9.2	Universal ID	2.16.840.1.113883.4.6	Configurable Data
OBR.16.9.3	Universal ID Type	ISO	IG Fixed Data
OBR.16.10	Name Type Code	L	Changeable Data
OBR.16.13	Identifier Type Code	NPI	Changeable Data
OBR.17	**Order Call-back Phone Number**		
OBR.17.3	Telecommunication Equipment Type	PH	Test Case Fixed Data
OBR.17.6	Area/City Code	626	Changeable Data
OBR.17.7	Local Number	5555555	Changeable Data

DG1

Location	Data Element	Data	Categorization
DG1.1	**Set ID - DG1**	1	IG Fixed Data
DG1.3	**Diagnosis Code - DG1**		
DG1.3.1	Identifier	E05.90	Test Case Fixed Data
DG1.3.2	Text	Hyperthyroidism (latent) (pre-adult) (recurrent)	Changeable Data
DG1.3.3	Name of Coding System	I10C	Test Case Fixed Data
DG1.6	**Diagnosis Type**	W	Changeable Data
DG1.15	**Diagnosis Priority**	1	Changeable Data

DG1

Location	Data Element	Data	Categorization
DG1.1	**Set ID - DG1**	2	IG Fixed Data
DG1.3	**Diagnosis Code - DG1**		
DG1.3.1	Identifier	R53.83	Test Case Fixed Data
DG1.3.2	Text	Other fatigue	Changeable Data
DG1.3.3	Name of Coding System	I10C	Test Case Fixed Data
DG1.6	**Diagnosis Type**	F	Changeable Data
DG1.15	**Diagnosis Priority**	2	Changeable Data

DG1

Location	Data Element	Data	Categorization
DG1.1	**Set ID - DG1**	3	IG Fixed Data
DG1.3	**Diagnosis Code - DG1**		
DG1.3.1	Identifier	R63.4	Test Case Fixed Data
DG1.3.2	Text	abnormal weight loss	Changeable Data
DG1.3.3	Name of Coding System	I10C	Test Case Fixed Data
DG1.6	**Diagnosis Type**	F	Changeable Data
DG1.15	**Diagnosis Priority**	3	Changeable Data

Patient Information

Element	Data
Patient Name	Thuy Thi Nguyen
Administrative Sex	Female
Date/Time of Birth	10/10/1995
Patient Address	1447 North Mar Vista Apt 2 Pasadena CA 91104
Race	Asian
Ethnic group	Not Hispanic or Latino

Next of kin information

Element	Data
Relationship	Mother
Name	Thuy Thi Nguyen
Address	1447 North Mar Vista Apt 2 Pasadena CA 91104 USA
Phone number	(626)555 - 5555
Contact role	Next-of-Kin

Order

Ordering Provider

Element	Data
Provider Name	Ellen Yu
Provider NPI identifier	2554560005
Call Back Phone number	(626)555 - 5555

General order information

Element	Data
Placer Order Number	ORD80
Filler Order Number	LABORD72
Placer Group Number	GRP7
Order Control	NW
Date/Time of Transaction	02/20/2013 03:30 PM

Order details

Element	Data
Universal Service Identifier	Thyroxine (T4) free [Mass/volume] in Serum or Plasma

Diagnosis information - 1

Element	Data
Priority	1
Diagnosis ICD-10CM Code	E05.90
Diagnosis type	W

Diagnosis information - 2

Element	Data
Priority	2
Diagnosis ICD-10CM Code	R53.83

Diagnosis type	F

Diagnosis information - 3

Element	Data
Priority	3
Diagnosis ICD-10CM Code	R63.4
Diagnosis type	F

Diagnosis information - 3

Element	Data
Priority	3
Diagnosis ICD-10CM Code	R63.4

MSH|^~\&#|NIST EHR^2.16.840.1.113883.3.72.5.22^ISO|NIST EHR Facility^2.16.840.1.113883.3.72.5.23^ISO|NIST Test Lab APP^
2.16.840.1.113883.3.72.5.20^ISO|NIST Lab Facility^2.16.840.1.113883.3.72.5.21^ISO|20130211184101-
0500||OML^O21^OML_O21|N
IST-LOI_7.0_2.1-GU_PRN|T|2.5.1|||AL|AL|||||LOI_GU_PRN_Profile^LOI Base + PRN + GU^2.16.840.1.113883.9.86^ISO

PID|1||PATID70^^^NIST MPI&2.16.840.1.113883.3.72.5.30.2&ISO^MR||Nguyen^Thuy^Thi^^^^L||19951010|F||2028-9^Asian^HL70005|
1447 North Mar Vista^Apt 2^Pasadena^CA^91104^^H|||||||||||N^Not Hispanic or Latino^HL70189

NK1|1|Nguyen^Thuy^Thi^^^^L|MTH^Mother^HL70063^^^^2.5.1|1447 North Mar Vista^Apt
2^Pasadena^CA^91104^USA^H|^^PH^^^626^55
55555||N^Next-of-Kin^HL70131^^^^2.5.1

ORC|NW|ORD80^NIST EHR^2.16.840.1.113883.3.72.5.24^ISO|LABORD72^NIST Test Lab
APP^2.16.840.1.113883.3.72.5.20^ISO|GRP7^N
IST EHR^2.16.840.1.113883.3.72.5.24^ISO|||||201302201530|||2554560005^Yu^Ellen^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NP
I||^^PH^^^626^5555555

OBR|1|ORD80^NIST EHR^2.16.840.1.113883.3.72.5.24^ISO|LABORD72^NIST Test Lab
APP^2.16.840.1.113883.3.72.5.20^ISO|3024-7^
Thyroxine (T4) free [Mass/volume] in Serum or Plasma^LN^^^^2.42^^T4 (Thyroxine), Free, Serum|||||||||||2554560005^Yu^El
len^^^^^^NPI&2.16.840.1.113883.4.6&ISO^L^^^NPI|^^PH^^^626^5555555

DG1|1||E05.90^Hyperthyroidism (latent) (pre-adult) (recurrent)^I10C|||W|||||||||1

DG1|2||R53.83^Other fatigue^I10C|||F|||||||||2

DG1|3||R63.4^abnormal weight loss^I10C|||F|||||||||3