

### 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.

## Test Case Information

## NIST-LOI\_7.0\_2.1-NG\_PRN - GHP

Test Case ID

LOI\_7.0\_2.1-NG\_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.4	Sending Facility		
MSH.4.1	Namespace ID	NIST EHR Facility	Configurable Data
MSH.5	Receiving Application		
MSH.5.1	Namespace ID	NIST Test Lab APP	Configurable Data
MSH.6	Receiving Facility		
MSH.6.1	Namespace ID	NIST Lab Facility	Configurable 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-NG_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_NG_PRN_Profile	Test Case Fixed Data
MSH.21.2	Namespace ID	LOI Base + PRN + NG	Changeable Data
MSH.21.3	Universal ID	2.16.840.1.113883.9.88	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.3.5	Identifier Type Code	MR	Changeable Data
PID.5	Patient Name		
PID.5.1	Family Name		
PID.5.1.1	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 Location	Data Element	Asian	Changeable Data Categorization
PID.10.3	Name of Coding System	HL70005	IG Fixed Data
<b>PID.11</b>	<b>Patient Address</b>		
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
<b>PID.22</b>	<b>Ethnic Group</b>		
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
<b>NK1.1</b>	<b>Set ID - NK1</b>	1	IG Fixed Data
<b>NK1.2</b>	<b>Name</b>		
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
<b>NK1.3</b>	<b>Relationship</b>		
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
<b>NK1.4</b>	<b>Address</b>		
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
<b>NK1.5</b>	<b>Phone Number</b>		
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
<b>NK1.7</b>	<b>Contact Role</b>		
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
NK1.7.7	Coding System Version ID	2.5.1	Changeable Data

#### ORC

Location	Data Element	Data	Categorization
<b>ORC.1</b>	<b>Order Control</b>	NW	Test Case Fixed Data
<b>ORC.2</b>	<b>Placer Order Number</b>		
ORC.2.1	Entity Identifier	ORD80	Changeable Data
ORC.2.2	Namespace ID	NIST EHR	Configurable Data
<b>ORC.3</b>	<b>Filler Order Number</b>		
ORC.3.1	Entity Identifier	LABORD72	Changeable Data

Location	Data Element	Data	Categorization
ORC.3.3	Universal ID	372522	Configurable Data
ORC.3.4	Universal ID Type	L	Configurable Data
<b>ORC.4</b>	<b>Placer Group Number</b>		
ORC.4.1	Entity Identifier	GRP7	Changeable Data
ORC.4.2	Namespace ID	NIST EHR	Configurable Data
<b>ORC.9</b>	<b>Date/Time of Transaction</b>		
ORC.9.1	Time	201302201530	System Generated
<b>ORC.12</b>	<b>Ordering Provider</b>		
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.12.10	Name Type Code	L	Changeable Data
ORC.12.13	Identifier Type Code	NPI	Changeable Data
<b>ORC.14</b>	<b>Call Back Phone Number</b>		
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
<b>OBR.1</b>	<b>Set ID - OBR</b>	1	IG Fixed Data
<b>OBR.2</b>	<b>Placer Order Number</b>		
OBR.2.1	Entity Identifier	ORD80	Changeable Data
OBR.2.2	Namespace ID	NIST EHR	Configurable Data
<b>OBR.3</b>	<b>Filler Order Number</b>		
OBR.3.1	Entity Identifier	LABORD72	Changeable Data
OBR.3.3	Universal ID	372522	Configurable Data
OBR.3.4	Universal ID Type	L	Configurable Data
<b>OBR.4</b>	<b>Universal Service Identifier</b>		
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
OBR.4.9	Original Text	T4 (Thyroxine), Free, Serum	Changeable Data
<b>OBR.16</b>	<b>Ordering Provider</b>		
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.16.10	Name Type Code	L	Changeable Data
OBR.16.13	Identifier Type Code	NPI	Changeable Data
<b>OBR.17</b>	<b>Order Call-back Phone Number</b>		
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
<b>DG1.1</b>	<b>Set ID - DG1</b>	1	IG Fixed Data
<b>DG1.3</b>	<b>Diagnosis Code - DG1</b>		
DG1.3.1	Identifier	E05.90	Test Case Fixed Data

Location	Data Element	Data	Categorization
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
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### Diagnosis information - 3

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

MSH|^~&#|NIST EHR|NIST EHR Facility|NIST Test Lab APP|NIST Lab Facility|20130211184101-0500||OML^O21^OML\_O21|NIST-LOI\_7.0\_2.1-NG\_PRN|T|2.5.1||AL|AL||||LOI\_NG\_PRN\_Profile^LOI Base + PRN + NG^2.16.840.1.113883.9.88^ISO

PID|1||PATID70^^^NIST MPI^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^^^626^555555||N^Next-of-Kin^HL70131^^^^2.5.1

ORC|NW|ORD80^NIST EHR|LABORD72^^372522^L|GRP7^NIST EHR||||201302201530||2554560005^Yu^Ellen^^^^NPI^L^^NPI|^PH^^626^555555

OBR|1|ORD80^NIST EHR|LABORD72^^372522^L|3024-7^Thyroxine (T4) free [Mass/volume] in Serum or Plasma^LN^^^^2.42^^T4 (Thyroxine), Free, Serum||||||2554560005^Yu^Ellen^^^^NPI^L^^NPI|^PH^^626^555555

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