USING FDB ELEMENTS TO MEET NCPDP VERSION10.6 SCRIPT STANDARD GUIDANCE DOCUMENT

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REFERENCES

REFERENCE	LINK
NCPDP SCRIPT Standard v10.6	http://www.ncpdp.org/members/members_download.aspx (NCPDP Membership Required For Downloading)
NCPDP SCRIPT Standard Implementation Guide Version 1Ø.6	http://www.ncpdp.org/members/stds-102508/Script_imp_guide_v10.6.pdf (NCPDP Membership Required For Downloading)
NCPDP Data Dictionary	http://www.ncpdp.org/members/stds-102508/Data_dictionary_Oct_2008.pdf (NCPDP Membership Required For Downloading)
SCRIPT_10.6_XML	http://www.ncpdp.org/members/stds-102508/Script_10.6_XML.zip (NCPDP Membership Required For Downloading)
NCPDP Billing Unit Standard Implementation Guide Version 3.0	http://www.ncpdp.org/members/stds-102508/billing%20unit%20Imp%20Guide%20v3.0.201203.pdf (NCPDP Membership Required For Downloading)
NCPDP External Code List	http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf (NCPDP Membership Required For Downloading)
NCPDP Terminology Files **NCPDP DEASchedule Terminology** **NCPDP MeasurementUnitCode Terminology** **NCPDP QuantityUnitOfMeasure Terminology** **NCPDP StrengthForm Terminology** **NCPDP StrengthUnitOfMeasure Terminology**	http://evs.nci.nih.gov/ftp1/NCPDP/NCPDP.xls
NCPDP EPrescribing Fact Sheet	http://www.ncpdp.org/pdf/Eprescribing_fact_sheet.pdf
RxNorm Overview	http://www.nlm.nih.gov/research/umls/rxnorm/overview.html
RxNorm Technical Documentation	http://www.nlm.nih.gov/research/umls/rxnorm/docs/index.html

PURPOSE

The purpose of this document is to provide guidance to FDB customers on use of FDB data content within the NCPDP SCRIPT electronic prescribing and medical records applications. It will use the National Council for Prescription Drug Programs' (NCPDP) EDIFACT-based SCRIPT v10.6 Standard and Implementation Guide and the NCPDP SCRIPT 10.6 XML documentation as the basis for data transfer, recognizing that prescriber medical records systems and pharmacy practice management systems are free to represent drug names, dosage forms, routes of administration, diagnostic data, adverse reactions, allergies, and other data elements within their systems as required for business needs. However, when transmitting data between parties, standard code sets, values, and methodology must be used to ensure no misinterpretation exists between sender and receiver.

Electronic Prescribing switch companies, such as Surescripts and Emdeon, are key players in these SCRIPT transactions. Certification of their network users for compliance with NCPDP standards and internal guidelines has played a major role in avoiding discrepancies between sender and receivers.

This document attempts to illustrate specific FDB data fields and uses of such data within this NCPDP SCRIPT standard in such a manner to assist users to be certified by such switch companies. In turn, this will help minimize discrepancies between senders and receivers and realize the goal of seamless electronic interface between parties and the proposed improvement in patient care.

Available FDB Drug Description Fields in Standard and Drug Information Framework Products

The following table lists available FDB MedKnowledge data fields that represent drug names with their properties and the corresponding field name in the Drug Information Framework (DIF). Please note element properties for DIF may differ. For a comprehensive discussion on each data element, please refer to the FDB Documentation Manuals.

FDB MedKnowledge Field	FDB Field Description	Picture	Contents	Drug Information Framework Field
LN	LABEL NAME	X(30)	Combination of the product name appearing on the package label, the strength description, and the dosage form description.	LabelName25
BN	BRAND NAME	X(30)	The product description name that appears on the package label provided by the product labeler (a manufacturer, distributor, or repackager).	ExternalProperty.PropertyValue where ExternalProperty.PropertyName = 'BrandName'
LN60	LABEL NAME-60	X(60)	Combination of the drug name appearing on the package label, the strength description, and the dosage form description.	PackagedDrug.Description
MED_NAME	MED MEDICATION NAME	X(30)	Provides drug name, not dosage form or strength.	DrugName.Description
MED_MEDID_DESC	MED MEDICATION DESCRIPTION	X(70)	Provides the text description for a MED Medication ID which includes the defining components of the MEDID: - Salts do not appear in the medication name concept descriptions when only one salt form of the medication name exists - Salt descriptions are not present when a combination of the name, route, and dosage form uniquely identify the medication concept - Route is not described when the dosage form is available in only one route - Dosage Form description is "clinically" familiar: Abbreviations that are unclear, misleading, or redundant are clarified, repositioned, or removed	DispensableDrug.Description

Available RxNorm Drug Description Fields provided by FDB in our RxNorm Module

The following table lists available RxNorm fields provided by FDB for use in the EDIFACT NCPDP DRU segment or the XML Medication Composite of SCRIPT data fields that represent drug names. For comprehensive discussions on each data element, please refer to the FDB MedKnowledge Documentation Manual:

FDB Field	FDB Field Description	Picture	Contents
EVD_RXN_RXCUI	RXNORM RXCUI	X(8)	Alphanumeric value that represents the RxNorm Concept Unique Identifier (RXCUI) as received from the National Library of Medicine (NLM). RXCUI values can be further subdivided / classified into SCD, SBD, BPCK, and GPCK.
EVD_RXN_STR	RXNORM CONCEPT DESCRIPTION	X(255)	Provides the text description substring (STR) for an RXCUI as received from the National Library of Medicine (NLM).

The maximum length allowable for a drug description using the EDIFACT -based SCRIPT Standard or 10.6 XML documentation is 105 characters. The RxNorm description field can accommodate several thousand characters; truncating could result in not properly displaying the full drug name, strength, and form.

NAVIGATING NCPDP SCRIPT V10.6 DRU DRUG SEGMENT

Version 10.6 of the NCPDP SCRIPT standard was recognized by the Centers for Medicare and Medicaid Services (CMS) regulation; effective for use July 1, 2010. This section addresses fields contained in the DRU Drug Segment. Readers should refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 and the SCRIPT 10.6XML documentation for a full discussion of all data elements in this standard. For purpose of this section, discussion may reference the two digit number depicted in red font in the full NCPDP Field Number below.

XML composite names are not listed in the SCRIPT Implementation Guide; however, in the examples provided, they are represented in italics below the corresponding NCPDP Field Numbers.

There are differences between the EDIFACT and the XML representation of certain concepts; the most notable being the Description field. XML uses only **one** description field; both short and long name versions of the product should not be sent. Either the FDB MED_MEDID_DESC or the FDB_LN field description is recommended.

Mandatory fields (designated with an "M" in the fourth column below) must be populated in the SCRIPT standard, regardless of the implementation or switch used. The SCRIPT implementation Guide also notes that certain conditional elements must be populated in particular situations, for example if related elements are populated. However, electronic prescription switches can dictate how Conditional ("C") fields are to be used, as published in the companies' respective implementation guides.

DRU Drug Segment 010 I013 Drug

NCPDP DRU Drug Composite: 010-1013 DRUG

Data extracted from SCRIPT Standard Implementation Guide version 10.6, June 2011, pages 81, 146 & 150.

NCPDP Field Number / *10.6 XML Element*	NCPDP Field Name	Remarks	Standard Format	Picture
010-1013-**01**-7009 *MedicationPrescribed* *MedicationDispensed* *MedicationRequested*	Item Description Identification	Definition of the loop of the DRU Segment. Values: P = Prescribed D = Dispensed R = Requested	M	X(7)
010-1013-**02**-7008 *DrugDescription*	Item Description	**Drug Name** The self-contained full drug name, strength, and form. May be abbreviated to fit the information in 35 or less bytes.	M	X(35)
010-1013-**03**-7140 *ProductCode*	Item Number	**Drug Number**	C	X(35)
010-1013-**04**-3055 *ProductCodeQualifier*	Code List Responsibility Agency	The **Code List** defining the Item Number (Field - **03** above). See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(3)
010-1013-05-1131	**No longer supported**			
010-1013-**06**-4440 *Strength*	Free Text	**Measurement Value** - Drug Strength	C	X(70)
010-1013-**07**-1131	**No longer supported**			
010-1013-**08**-1154 *DrugDBCode*	Reference Number	GCNSEQNO, SCD, SBD, GPCK, BPCK	C	X(35)
010-1013-**09**-1153 *DrugDBCodeQualifier*	Reference Qualifier	**Code Value** to define the reference number (Field - **08** above). See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(3)
010-1013-**10**-7008 *DrugDescription*	Item Description	**Drug Name** Do not use if full drug information was provided in Field - **02** above.	C	X(35)
010-1013-**11**-7008 *DrugDescription*	Item Description	Continued from Field - **10** above.	C	X(35)
010-1013-**12**-7008 *DrugDescription*	Item Description	Continued from Field - **11** above if required.	C	X(35)
010-1013-**13**-7991 *FormSourceCode*	Source Code List	Code identifying the source organization. Required if Item Form Code (Field - **14** below) is used. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(3)
010-1013-**14**-7992 *FormCode*	Item Form Code	Drug Form, in a code. Dosage form code. Pharmaceutical Dosage Form. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(15)
010-1013-**15**-7991 *StrengthSourceCode*	Source Code List	Code identifying the source organization. Required if Item Strength Code (Field - **16** below) is used. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(3)

NCPDP Field Number / *10.6 XML Element*	NCPDP Field Name	Remarks	Standard Format	Picture
010-1013-16-7993 *StrengthCode*	Item Strength Code	Drug strength qualifier. Units of Presentation. Qualified by Source Code List. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(15)
010-1013-17-7996 *DEASchedule*	DEA Schedule	Required if the medication is categorized as a controlled substance by the Drug Enforcement Administration (DEA). The DEA Schedule would be populated by the system generating the message, and would utilize the Federal DEA Schedule classification code list based on federal classification of the medication or the state reclassification of the medication. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(15)

FDB Drug Composite Recommendations

1. **Field – 02:** Item Description (NCPDP mandatory field)

    a. When creating a refill request (REFREQ) message, Pharmacists should use the FDB Label Name (LN) field for the NDC number used in their system; the actual product used to fill the prescription order.
    b. In the refill response (REFRES) message, Prescribers should return the same item description drug name they received in the pharmacy refill request (REFREQ).
    c. When building a new prescription request (NEWRX) transaction, physicians should populate this field based upon their population of Field – 03:
        i. If a representative NDC is used in Field – 03, then the first 35 characters of the corresponding FDB MEDID Description (MED_MEDID_DESC) for that record may be placed in Field – 02. The FDB Label Name (LN) is also acceptable for use. However, the LN may not pass some drug description reports offered by the switch companies.
        ii. If Field – 03 is left blank, then Field – 02 should be populated with the first 35 characters of the FDB MEDID Description (MED_MEDID_DESC) field or the FDB Label Name (LN).
        iii. XML messaging transmissions use one field for item descriptions.

2. **Field – 03**: Item Number and **Field – 04:** Code List Responsible Agency (NCPDP optional fields)

    a. Pharmacists should submit the NDC/HRI/UPC from the dispensed product; using the actual NDC on the product used to fill the prescription order.
    b. When responding to a prescription refill or change request (REFREQ or RXCHG) transmissions, prescribers should return the same values they received in these fields.
    c. In all other transaction types, a representative NDC should be used here, and then Field – 02 should be populated with either the FDB MEDID Description or the FDB Label Name drug description.
    d. Although the NCPDP SCRIPT Implementation Guide states these two fields may be left blank, some switch implementations treat these as mandatory fields. As such, FDB recommends populating.

    

    Electronic prescription switches may mandate that a representative NDCs will be used in this Field – 03 for new prescriptions and require the appropriate Code List defining the NDC in Field – 04.

    If populated with a representative NDC, care must also be taken to meet the Switch guidelines dictating which NDCs are to be used.

3. **Field – 05:** Is no longer used. Leave this blank.

4. **Field – 06**: Free text (NCPDP optional field)

    a. Leave this field blank.

    

    If populated, the Switch may require the Drug Strength provided match the Drug Strength provided in Field – 02 (Item Description) to pass matching logic edit rules. This matching logic looks at the numeric values only in the drug description, stripping out the unit of measure. So, if 240mg is in Field – 02, then "240" is in this field.

    If multiple drugs and strengths are in Field – 02, then Field – 06 and Field – 16 should be left blank. Use requires each strength to be represented in Field – 06 (separated by dashes); Field – 16 would contain Units of Presentation. Extra care would be needed to make sure each ingredient is represented by the correct Unit of Presentation.

5. **Field – 07:** This field is no longer used. Leave this field blank.

6. **Field – 08**: Reference Number and **Field – 09**: Qualifier (NCPDP Optional Field)

    a. In support of Meaningful Use Stage 2, send applicable RxNorm value (RXCUI), regardless if initiated by prescriber or pharmacy.
    b. Send the most specific RxNorm value possible (SCD, SBD, BPCK, or GPCK), identifying the drug, dosage form, and strength.
    c. For Meaningful Use Stage 1, values and the associated qualifiers for the FDB GCNSEQNO (FG), FDB MEDID (FI) or any of the other FDB Reference Qualifiers listed for use in Field – 09 can be used. If both trading partners are FDB users, this value can assist to synchronize data.

NCPDP recommendations require if either Field-08 or Field-09 is sent, then both are required.

7. **Field – 10, Field – 11, and Field – 12:** Item Descriptions (NCPDP optional fields)

    a. If the FDB MED_MEDID_DESC completely fits and is used in Field – 02 do not populate or transmit Field – 10, Field – 11, or Field 12 per NCPDP rules.
    b. Else, always send, regardless if prescriber or pharmacy – unless responding to a transaction in which these fields were not populated.
    c. When sending, use the FDB MED_MEDID_DESC field
        i. Even if populating Field – 10 exactly duplicates the first 35 characters in Field – 02, place as much of the MED_MEDID_DESC that will fit into Field – 10 (bytes 1-35). Expectations are that Field – 10 must still contain the first 35 characters so that when fully concatenated, Fields – 10 thru 12 completely represents the full drug name.
        ii. Place bytes 36-70 in Field – 11; leave blank if entire description fits into Field – 10.
        iii. Place remaining bytes, if any, into Field – 12; leave blank if entire description fits into Field – 10 and Field – 11.
        iv. Since the maximum size of the FDB MED_MEDID_DESC is 70 bytes; Field – 12 will not be used when using FDB data.

d. Compounds are not used in SCRIPT 10.6 and require a written (not electronic) prescription, even if the combined item descriptions will fit into the allotted spaces.
e. Script 10.6 XML messaging uses only one field for the complete product description The FDB MED_MEDID_DESC or FDB_LN fields are recommended for populating this composite.

Office-customized drug descriptions may not conform to Switch guidelines and increase the risk of non-matches and non-compliance reporting.

Switch may require population if the full drug name, strength, and form do not fit in Field - 02 without abbreviation.

8. **Field - 13 and Field - 14**: Source Code List and Item Form Code (NCPDP optional fields)

a. Should leave blank/do not transmit.

NCPDP recommendations require if either Field - 13 or Field - 14 is sent, then both are required.

If the user chooses to transmit these fields, the Source Code List, Field - 13 should be populated with the value "AA" which designates use of NCIt Subset Code C89508 (NCPDP Strength Form Terminology) and Field - 14 will be populated with the corresponding NCIt code (see example 1). FDB provides no mapping table to these NCIt values.

Switch validations may require if populated, the Form Code exactly match the drug form in the Drug Description field(s) (Field - 10 thru Field - 12). However, the NCIt descriptions for their NCIt codes may not match exactly to the dosage forms used in drug databases that must differentiate between various similar forms.

9. **Field - 15** and **Field - 16**: Source Code List and Item Strength Code (NCPDP optional field)

a. Should leave blank/do not transmit.

NCPDP validations require if either Field - 15 or Field - 16 is sent, then both are required. If the user chooses to transmit these fields, Field - 15 can be populated with "AB" which designates use of NCIt Subset Code

C89509 (NCPDP Strength Unit Of Measure Terminology) and Field - 16 will be populated with the corresponding NCIt code (see example 1).

If populated, the Switch may require the Item Strength Code provided match the Drug Strength provided in Field - 02 (Item Description) to pass established Switch matching logic edit rules. However, the NCI descriptions for their NCI codes do not match exactly to the strength unit of measure used in drug databases that must differentiate between various similar strength units of measures. For example, the NCIt code set contains codes "C28253" (Milligram) and "C91131" (MILLIGRAM PER FIVE MILLITIERS). There appears not to be a MG/ML code, which would at least match the RxNorm convention of putting solution strengths in terms of a single milliliter (e.g. 400 mg/200 ml is stated as 2 mg/ml by RxNorm).

10. **Field - 17:** DEA Schedule (NCPDP optional field)

a. If the user knows that the product is not a federally controlled substance, this field should not be transmitted. Alternatively, Field - 17 can be populated with "C38046" (the NCIt code value for the description "unspecified").
b. For drugs assigned a federal Controlled Substance Act Schedule (DEA Schedules), provide value from MedKnowledge (FDB DEA field) that maps to the NCIt code values provided in the NCIt Subset Code Set C89507 (NCPDP DEA Schedule Terminology). See NCIt link provided at the beginning of this guide, or the table in Appendix 1: NCIt Table Extracts.

At this time, NCPDP has addressed recommendations for electronic signature requirements for transmissions of electronic controlled prescriptions based on state schedules, but not transmission of the State Specific Controlled Substance Schedules.

Examples

Example 1 – NCPDP SCRIPT Transmission Submission

1.1 NCPDP Sample - New prescription from prescriber:

Segment	Value	Note
DRU	P:CALAN SR 24ØMG	P means prescribed. Drug prescribed is Calan Sr 24Ømg.
DRU	24Ø:::::AA:C42998:AB:C28253	24Ø is the strength; AA is the Source for NCI Pharmaceutical Dosage Form. C42998 is the code for "Tablet dosing form". AB is the Source for NCI Units of Presentation. C28253 is the code for "Milligram". So this means the prescription is for 24Ømg tablets.
DRU	::6Ø:38:AC:C48542	This means dispense 6Ø tablets. 38 is the code value for Original Qty. AC is the Source for NCI Potency Units. C48542 is the code for "Tablet dosing unit".

NCPDP Source Code	Description
AA	NCPDP Strength Form Terminology
AB	NCPDP Strength Unit Of Measure Terminology
AC	NCPDP Quantity Unit of Measure Terminology
AD	NCPDP Measurement Unit Code Terminology

NCIt Subset Code	NCPDP Subset Preferred Term	NCIt Code	NCPDP Preferred Term	NCIt Preferred Term	NCIt Definition
C89508	NCPDP StrengthForm Terminology	C42998	Tablet	Tablet Dosage Form	A solid composed of a mixture of that active and/or inert ingredient(s) are pressed or compacted together, usually in the form of a relatively flat and round, square or oval shape.
C89508	NCPDP StrengthForm Terminology	C69004	Tablet 12 Hour Sustained Release	Tablet 12 Hour Sustained Release Dosage Form	A tablet designed to release active and/or inert ingredient(s) slowly so as to achieve a constant circulating concentration of the ingredient over a 12 hour time interval.
C89508	NCPDP StrengthForm Terminology	C69003	Tablet 24 Hour Sustained Release	Tablet 24 Hour Sustained Release Dosage Form	A tablet designed to release active and/or inert ingredient(s) slowly so as to achieve a constant circulating concentration of the ingredient over a 24 hour time interval.

NCIt Subset Code	NCPDP Subset Preferred Term	NCIt Code	NCPDP Preferred Term	NCIt Preferred Term	NCIt Definition
C89509	NCPDP StrengthUnitOfMeasure Terminology	C48152	Microgram	Microgram	A metric unit of mass equal to one millionth of a gram or one thousandth of a milligram.
C89509	NCPDP StrengthUnitOfMeasure Terminology	C28253	Milligram	Milligram	A metric unit of mass equal to one thousandth of a gram or 1000 micrograms. One milligram equals approximately 0.015432 grain or 35.274 x 10E-6 ounce.
C89509	NCPDP StrengthUnitOfMeasure Terminology	C91131	Milligram per Five Milliliters	Milligram per Five Milliliters	The quantity of milligrams in a volume of five milliliters of a substance.

1.2 Comparison of NCPDP Population and FDB Recommended Population

NCPDP Field Number / 10.6 XML Element	NCPDP Field Name	Remarks	NCPDP Data Identifiers	FDB Data Identifiers
010-1013-**01**-7009 *MedicationPrescribed* *MedicationDispensed* *MedicationRequested*	Item Description Identification	Definition of the loop of the DRU Segment. Values: P = Prescribed D = Dispensed R = Requested ***Mandatory Field - PIC X(7)***	**P**	**P**
010-1013-**02**-7008 *DrugDescription*	Item Description	**Drug name** The self-contained full drug name, strength, and form. May be abbreviated to fit the information in 35 or less bytes. ***Mandatory Field - PIC X(35)***	**diazepam 5mg tablet**	**diazepam 5mg tablet** **(FDB MED_MEDID_DESC)** **OR** **DIAZEPAM 5 MG TABLET** **(FDB LN)**
010-1013-**03**-7140 ProductCode	Item Number	**Drug Number** ***Conditional Field - PIC X(35)***	**Not Transmitted**	**00591-5619-01** **(NDC)**
010-1013-**04**-3055 *ProductCodeQualifier*	Code List Responsibility Agency	The **code list** defining the Item Number. ***Conditional Field - PIC X(3)***	**Not Transmitted**	**ND** **(code for NDC)**
010-1013-05-1131	**No longer supported.**			
010-1013-**06**-4440 *Strength*	Free Text	**Measurement Value** - Drug Strength ***Conditional Field - PIC X(70)***	**Not Transmitted**	**Not Transmitted**
010-1013-**07**-1131	**No longer supported.**			
010-1013-**08**-1154 *DrugDBCode*	Reference Number	**For Meaningful Use 2, use RxNorm.** **SCD, SBDF, GPCK, BPCK** **For Meaningful Use 1, use FDB value for one of the following:** **GCNSEQNO, Routed Med ID, Med Name ID, Routed Dosage Form Med ID, HICL_SEQ_NO** ***Conditional Field - PIC X(35)***	**Not Transmitted**	**For Meaningful Use 2:** **197591** **(RXCUI)** **OR** **For Meaningful Use 1 use a FDB value associated to the designated FDB Reference Qualifier in Field -09:** **295708** **(FDB MEDID)** **OR** **3768** **(FDB GCNSEQNO)**
010-1013-**09**-1153 *DrugDBCodeQualifier*	Reference Qualifier	Code value to define the reference number. ***Conditional Field - PIC X(3)***	**Not Transmitted**	**For Meaningful Use 2:** **SCD** **(Code for Semantic Clinical Drug)** **OR** **For Meaningful Use 1 use one of the FDB Reference Qualifiers:** **FI** **(Code For FDB MEDID)** **OR** **FG** **(Code for FDB GCNSEQNO)**
010-1013-10-7008 *DrugDescription*	Item Description	Drug Name, Conditional Do not use if full drug information was provided in 010-1013-02-7008. ***Conditional Field - PIC X(35)***	**Not Transmitted**	**If MED_MEDID_DESC is used in Field – 02 and less than 35 characters; this field is not transmitted.** **diazepam 5mg tablet** **(The first 35 Characters of MED_MEDID_DESC)**

NCPDP Field Number	NCPDP Field Name	Remarks	NCPDP Data Identifiers	FDB Data Identifiers
010-1013-**11**-7008 *DrugDescription*	Item Description	Continued from 010-1013-10-7008. ***Conditional Field - PIC X(35)***	**Not Transmitted**	**Not Transmitted**
*010-1013-**12**-7008 DrugDescription*	Item Description	Continued from 010-1013-11-7008 if required. ***Conditional Field - PIC X(35)***	**Not Transmitted**	**Not Transmitted**
010-1013-**13**-7991 *FormSourceCode*	Source Code List	Code identifying the source organization. Required if Item Form Code (010-1013-14-7992) used. ***Conditional Field - PIC X(3)***	**AA**	**Not Transmitted**
010-1013-**14**-7992 *FormCode*	Item Form Code	Drug Form, in a code. Dosage form code. Pharmaceutical Dosage Form. Qualified by Source Code List. ***Conditional Field - PIC X(15)***	**C42998**	**Not Transmitted**
010-1013-**15**-7991 *StrengthSourceCode*	Source Code List	Code identifying the source organization. Required if Item Strength Code (010-1013-14-7993) used. ***Conditional Field - PIC X(3)***	**AB**	**Not Transmitted**
010-1013-**16**-7993 *StrengthCode*	Item Strength Code	Drug strength qualifier. Units of Presentation. Qualified by Source Code List. ***Conditional Field - PIC X(15)***	**C28253**	**Not Transmitted**
010-1013-**17**-7996 *DEASchedule*	DEA Schedule	Required if the medication is categorized as a controlled substance by the Drug Enforcement Administration. ***Conditional Field - PIC X(15)***	**Not Transmitted**	**Not Transmitted**

1.3 Using XML Message Format and FDB Recommendations:

RXCUI

<MedicationPrescribed>
<DrugDescription>**diazepam 5mg tablet**</DrugDescription> *
<DrugCoded>
<ProductCode>**ØØ591561901**</ProductCode>
<ProductCodeQualifier>**ND**</ProductCodeQualifier>
<DrugDBCode>**197591**</DrugDBCode>
<DrugDBCodeQualifier>**SCD**</DrugDBCodeQualifier>
</DrugCoded>

MEDID

<MedicationPrescribed>
<DrugDescription> **diazepam 5mg tablet**</DrugDescription> *
<DrugCoded>
<ProductCode>**ØØ591561901**</ProductCode>
<ProductCodeQualifier>**ND**</ProductCodeQualifier>
<DrugDBCode>**295708**</DrugDBCode>
<DrugDBCodeQualifier>**FI**</DrugDBCodeQualifier>
</DrugCoded>

*Only one field is utilized for product description in XML messaging

The following examples would be representative if optional recommended fields are populated

Example 2 - Using RXCUI in fields - 08 and – 09

2.1 FDB Recommended Population

This example works for both Meaningful Use 1 and Meaningful Use 2.

NCPDP Field Number / *10.6 XML Element*	NCPDP Field Name	Picture	Remarks	FDB Data Identifiers
010-1013-**02**-7008 *DrugDescription*	Item Description	X(35)	**Drug name**, mandatory. The self-contained full drug name, strength, and form. May be abbreviated to fit the information in 35 or less bytes.	**fluconazole in sodium chloride (iso** **First 35 characters of FDB MED_MEDID _DESC** **Or** **FLUCONAZOLE-NS 400 MG/200 ML** **(FDB LN)**
010-1013-**03**-7140 *ProductCode*	Item Number	X(35)	**Drug Number**	**00703101009** **(Representative NDC)**
010-1013-**04**-3055 ProductCodeQualifier	Code List Responsibility Agency	X(3)	The **code list** defining the Item Number.	**ND** **(code for NDC)**
010-1013-05-1131	**No longer supported.**			
010-1013-**06**-4440 *Strength*	Free Text	X(70)	**Measurement Value** - Drug Strength.	**Not Transmitted**
010-1013-**07**-1131	**No longer supported.**			
010-1013-**08**-1154 *DrugDBCode*	Reference Number	X(35)	**Use RxNorm -> RXCUI**	**252432** **(RXCUI)**
010-1013-**09**-1153 *DrugDBCodeQualifier*	Reference Qualifier	X(3)	**Code value** to define the reference number. **SCD, SBD, GPCK, BPCK**	**SCD** **(RxNorm - Semantic Clinical Drug)**
010-1013-**10**-7008 *DrugDescription*	Item Description	X(35)	**Drug Name**, Conditional Do not use if full drug information was provided in 010-1013-02-7008.	**fluconazole in sodium chloride (iso** **(The first 35 Characters of FDB MED_MEDID_DESC)**
010-1013-**11**-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-10-7008.	**-osm) 400 mg/200 mL IV Piggy Back** **(Remainder of FDB MED_MEDID_DESC)**
010-1013-**12**-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-11-7008 if required.	**Not Transmitted**

Fields 13 thru 17 are not transmitted, and therefore not represented in this table.

2.2 Using XML Message Format and FDB Recommendations:

<MedicationPrescribed>
<DrugDescription> fluconazole in sodium chloride (iso-osm) 400 mg/200 mL IV Piggy Back
</DrugDescription> *
<DrugCoded>
<ProductCode> ØØ7Ø31Ø1ØØ9</ProductCode>
<ProductCodeQualifier>ND</ProductCodeQualifier>
<DrugDBCode>252432</DrugDBCode>
<DrugDBCodeQualifier>SCD</DrugDBCodeQualifier>
</DrugCoded>

*Only one field is utilized for product description in XML messaging

Example 3 - Using FDB GCNSEQNO in fields -08 and -09

3.1 FDB Recommended Population

This example would work for Meaningful Use 1, but not for Meaningful Use 2.

NCPDP Field Number / 10.6 XML Element	NCPDP Field Name	Picture	Remarks	FDB Data Identifiers
010-1013-02-7008 *DrugDescription*	Item Description	X(35)	**Drug name**, mandatory. The self-contained full drug name, strength, and form. May be abbreviated to fit the information in 35 or less bytes.	**fluconazole in sodium chloride (iso** **First 35 characters of FDB MED_MEDID _DESC** **Or** **FLUCONAZOLE-NS 400 MG/200 ML** **(FDB LN)**
010-1013-03-7140 *ProductCode*	Item Number	X(35)	**Drug Number**	**00703101009** **(NDC)**
010-1013-04-3055 *ProductCodeQualifier*	Code List Responsibility Agency	X(3)	The **code list** defining the Item Number.	**ND** **(code for NDC)**
010-1013-05-1131	**No longer supported.**			
010-1013-06-4440 *Strength*	Free Text	X(70)	**Measurement Value** - Drug Strength.	**Not Transmitted**
010-1013-07-1131	**No longer supported.**			
010-1013-08-1154 *DrugDBCode*	Reference Number	X(35)	**GCNSEQNO**	**59585** **(FDB GCNSEQNO)**
010-1013-09-1153 DrugDBCodeQualifier	Reference Qualifier	X(3)	**Code value** to define the reference number.	**FG** **(Code for FDB GCNSEQNO)**
010-1013-10-7008 *DrugDescription*	Item Description	X(35)	**Drug Name**, Conditional Do not use if full drug information was provided in 010-1013-02-7008.	**fluconazole in sodium chloride (iso** **(The first 35 Characters of FDB MED_MEDID_DESC)**
010-1013-11-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-10-7008.	**-osm) 400 mg/200 mL IV Piggy Back** **(Remainder of FDB MED_MEDID_DESC)**
010-1013-12-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-11-7008 if required.	**Not Transmitted**

Fields 13 thru 17 are not transmitted, and therefore not represented in this table.

3.2 Using XML Message Format and FDB Recommendations:

<MedicationPrescribed>
<DrugDescription> fluconazole in sodium chloride (iso-osm) 400 mg/200 mL IV Piggy Back
</DrugDescription> *
<DrugCoded>
<ProductCode>ØØ7Ø31Ø1ØØ9</ProductCode>
<ProductCodeQualifier>ND</ProductCodeQualifier>
<DrugDBCode>59585</DrugDBCode>
<DrugDBCodeQualifier>FG</DrugDBCodeQualifier>
</DrugCoded>

*Only one field is utilized for product description in XML messaging

Example 4 - Using FDB MEDID in fields - 08 and – 09

4.1 FDB Recommended Population

This example would work for Meaningful Use 1, but not for Meaningful Use 2.

NCPDP Field Number / 10.6 XML Element	NCPDP Field Name	Picture	Remarks	FDB Data Identifiers
010-1013-**02**-7008 *DrugDescription*	Item Description	X(35)	**Drug name,** mandatory. The self-contained full drug name, strength, and form. May be abbreviated to fit the information in 35 or less bytes.	**fluconazole in sodium chloride (iso** **First 35 characters of FDB MED_MEDID _DESC** **Or** **FLUCONAZOLE-NS 400 MG/200 ML** **(FDB LN)**
010-1013-**03**-7140 *ProductCode*	Item Number	X(35)	**Drug Number**	**00703101009** **(NDC)**
010-1013-**04**-3055 *ProductCodeQualifier*	Code List Responsibility Agency	X(3)	The **code list** defining the Item Number.	**ND** **(code for NDC)**
010-1013-**05**-1131	**No longer supported**			
010-1013-**06**-4440 *Strength*	Free Text	X(70)	**Measurement Value** - Drug Strength.	**Not Transmitted**
010-1013-**07**-1131	**No longer supported**			
010-1013-**08**-1154 *DrugDBCode*	Reference Number	X(35)	**MEDID**	**178876** **(FDB MEDID)**
010-1013-**09**-1153 *DrugDBCodeQualifier*	Reference Qualifier	X(3)	**Code value** to define the reference number.	**FI** **(Code for FDB MEDID)**
010-1013-**10**-7008 *DrugDescription*	Item Description	X(35)	**Drug Name,** Conditional Do not use if full drug information was provided in 010-1013-02-7008.	**fluconazole in sodium chloride (iso** **(The first 35 Characters of FDB MED_MEDID_DESC)**
010-1013-**11**-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-10-7008.	**-osm) 400 mg/200 mL IV Piggy Back** **(Remainder of FDB MED_MEDID_DESC)**
010-1013-**12**-7008 *DrugDescription*	Item Description	X(35)	Continued from 010-1013-11-7008 if required	**Not Transmitted**

Fields 13 thru 17 are not transmitted, and therefore not represented in this table.

4.2 Using XML Message Format and FDB Recommendations:

<MedicationPrescribed>
<DrugDescription> fluconazole in sodium chloride (iso-osm) 400 mg/200 mL IV Piggy Back
</DrugDescription> *
<DrugCoded>
<ProductCode>ØØ7Ø31Ø1ØØ9</ProductCode>
<ProductCodeQualifier>ND</ProductCodeQualifier>
<DrugDBCode>178876</DrugDBCode>
<DrugDBCodeQualifier>FI</DrugDBCodeQualifier>
</DrugCoded>

*Only one field is utilized for product description in XML messaging

Example 5 – Use of Item Description Fields

Abilify 15mg		
Field Number / *10.6 XML Element*	**Value**	**Note**
010-1013-02-7008 *DrugDescription*	Abilify 15 mg Tablet Or ABILIFY 15 MG TABLET	FDB MED_MEDID_DESC Or FDB LN
010-1013-10-7008 *DrugDescription*	Abilify 15 mg Tablet	Since either the MED_MED_ID_DESC or the LN used above exactly matches the MED_MEDID_DESC in the cell to the left, FDB recommends this field not be transmitted.
010-1013-11-7008 *DrugDescription*	Not transmitted	
010-1013-12-7008 *DrugDescription*	Not transmitted	
Fields 11 & 12 Not Transmitted		

lisinopril-hydrochlorothiazide 20 mg-12.5 mg Tab		
Field Number / 10.6 XML Element	**Value**	**Note**
010-1013-02-7008 *DrugDescription*	lisinopril-hydrochlorothiazide 20 m Or LISINOPRIL-HCTZ 20-12.5 MG TAB	First 35 bytes of the FDB_MED_MEDID_DESC Or FDB LN
010-1013-10-7008 *DrugDescription*	lisinopril-hydrochlorothiazide 20 m	Use first 35 bytes of MED_MEDID_DESC*
010-1013-11-7008 *DrugDescription*	g-12.5 mg Tablet	Note that "mg" breaks between these two fields based on an exact 35 character mapping.
010-1013-12-7008 *DrugDescription*	Not transmitted	
The space before and after "20" is part of the text and occupies a byte. ***Field 12 Not Transmitted*** **** If the FDC MED_MEDID_DESC is used in Field – 02 above, only the first 35 bytes will fit. If the FDB LN is use in Field – 02 above, it may not fully conform to editing rules implemented by some switch companies. Therefore, in each situation using this example, place the first 35 bytes of the MED_MEDID_DESC in Field – 10, and the remaining bytes in Field – 11.***		

fluconazole in sodium chloride (iso -osm) 400 mg/200 mL IV Piggy Back		
Field Number	**Value**	**Note**
010-1013-02-7008 *DrugDescription*	fluconazole in sodium chloride (iso Or FLUCONAZOLE-NS 400 MG/200 ML	First 35 bytes of the FDB_MED_MEDID_DESC Or FDB LN
010-1013-10-7008 *DrugDescription*	fluconazole in sodium chloride (iso	Use first 35 bytes of MED_MEDID_DESC
010-1013-11-7008 *DrugDescription*	-osm) 400 mg/200 mL IV Piggy Back	Continuation of MED_MEDID_DESC
010-1013-12-7008 *DrugDescription*	Not transmitted	
The hyphen in iso-osm is part of the text and occupies a byte. ***Field 12 Not Transmitted***		

DRU Drug Segment 020 I009 Quantity

This composite is for the count of tablets or number of grams.

NCPDP DRU Drug Composite: 020-1009 Quantity

Data extracted from SCRIPT Standard Implementation Guide version 10.6, June 2011, pages 81, 150, 151, and 152.

NCPDP Field Number / 10.6 XML Element	NCPDP Field Name	Remarks	Standard Format	Picture
020-1009-01-6063	**No longer supported**			
020-1009-02-6060 *Quantity: Value*	Quantity	If Quantity is not submitted the entire 020-1009 composite is not submitted. See sections "Representation and "Truncation" for syntax and decimal point usage.	CM	X(35)
020-1009-03-1131 *Quantity: CodeListQualifier*	Code List Qualifier	See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	C	X(3)
020-1009-04-7991 *Quantity: UnitSourceCode*	Source Code List	Code identifying the source organization. Required if Potency Unit Code (Field-05 below) is used. See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	CM	X(3)
020-1009-05-7994 *Quantity: PotencyUnitCode*	Potency Unit Code	Unit of measure. Potency Unit. Qualified by Source Code List (Field -04 above). See NCPDP ECL for values http://www.ncpdp.org/members/stds-102508/external.code.list.201204.pdf	CM	X(15)

Note:

M = Mandatory

C = Conditional

CM = Conditional Mandatory (the composite is Conditional, but if the composite is used, the field within is Mandatory)

N = Not Used

Field – 2 will be changing from X (35) to X (10) in version 10.8.

FDB Drug Quantity Composite Recommendations

The NCPDP 10.6 SCRIPT Implementation Guide supports this composite as being optional; however, the composite is later defined in the SCRIPT Implementation Guide as Mandatory for all SCRIPT messages except for Verify and Medication History Response (VERIFY, RXHRES). As such this composite will be populated in most cases. For Long-Term Care (LTC) prescriptions, the concept of "QS" (Quantity Sufficient) is applicable (see notes).

If a quantity is not submitted, then the entire Drug Quantity Composite (020 – 1009) is not submitted.

1. **Field – 01**: Quantity Qualifier – No longer supported.

2. **Field – 02**: Quantity (Conditional Mandatory – the composite is Conditional, but if the composite is used, the field within is Mandatory).

    a. When used, the quantity submitted should relate to the correct billing unit as defined in the NCPDP Billing Unit Standard Implementation Guide.

    

    NCPDP recommendations state if the Field – 03 (Code List Qualifier) value is "QS" (Quantity Sufficient), the value populated in this field must equal "0.

3. **Field – 03**: Code List Qualifier (Conditional)

    a. If transmitted, use the appropriate NCPDP code list value.

    

    NCPDP limits the use of the "QS" (quantity sufficient) qualifier value to settings where dispensing protocols are in force between the physician and pharmacy/pharmacist (e.g. long term care facilities).

    If value "QS" value is used; Field – 05 (Potency Unit Code) must equal "C38046" (NCPDP Strength Unit Of Measure Terminology).
    "C38046" Unit of Measure Code represents "Unspecified".

4. **Field – 04**: Source Code List (Conditional Mandatory – the composite is Conditional, but if the composite is used, the field within is Mandatory).
    a. The Source Code List should be populated with the value "AC", designating the use of the NCIt Subset Code C89510 (NCPDP Quantity Unit of Measure Terminology).

5. **Field - 05**: Potency Unit Code (Conditional Mandatory - the composite is Conditional, but if the composite is used, the field within is Mandatory).
    a. Populate with the appropriate NCIt value utilizing one of the following FDB tables that provide a cross-reference to NCIt Codes contained in NCPDP Quantity Unit Of Measure Terminology Set:
        1) Dosage Form Code (GCDF) to NCIt Code
        2) MED Dosage Form ID (MED_DOSAGE_FORM_ID) to NCIt Code
        3) POEM Unit Code (POEUNITCDE) to NCIt Code
    b. When the FDB Drug Form Code (DF) field is populated with "2" (milliliters (liquids)), hard code to use NCIt Code value "C28254" (milliliter).
    c. When the FDB Drug Form Code (DF) field is populated with "3" (grams (solids)), hard code to use NCIt Code value "C48155" (gram).
    d. Because exact values may not exist, there will be instances where the cross-mapping between the FDB Dosage Form to the NCPDP Quantity Qualifier value will not be possible. In these instances use the NCIt Code value "C38046" ("Unspecified").

Examples

Example 6– NCPDP SCRIPT Transmission Submission

6.1 NCPDP Sample - New prescription from prescriber:

New prescription from prescriber:

Segment	Value	Note
DRU	P:CALAN SR 24ØMG	P means prescribed. Drug prescribed is Calan Sr 24Ømg.
DRU	24Ø:::::::AA:C42998:AB:C28253	24Ø is the strength; AA is the Source for NCI Pharmaceutical Dosage Form. C42998 is the code for "Tablet dosing form". AB is the Source for NCI Units of Presentation. C28253 is the code for "Milligram". So this means the prescription is for 24Ømg tablets.
DRU	:6Ø:38:AC:C48542	This means dispense 6Ø tablets. 38 is the code value for Original Qty. AC is the Source for NCI Potency Units. C48542 is the code for "Tablet dosing unit".

NCPDP Code List Qualifier	NCPDP Description
38	Original Quantity
40	Remaining Quantity
87	Quantity Received
QS	Quantity sufficient as determined by the dispensing pharmacy. Quantity to be based on established protocols between the prescriber and the pharmacy/pharmacist.
CF	Compound Final Quantity

NCPDP Source Code	Description
AA	NCPDP Strength Form Terminology
AB	NCPDP Strength Unit Of Measure Terminology
AC	NCPDP Quantity Unit of Measure Terminology
AD	NCPDP Measurement Unit Code Terminology

NCIt Subset Code	NCPDP Subset Preferred Term	NCIt Code	NCPDP Preferred Term	NCIt Preferred Term	NCIt Definition
C89510	NCPDP QuantityUnitOfMeasure Terminology	C62421	Tabminder	Tabminder Dosing Unit	A dosing unit equal to the amount of active ingredient(s) administered by a tabminder.
C89510	NCPDP QuantityUnitOfMeasure Terminology	C48542	Tablet	Tablet Dosing Unit	A dosing unit equal to the amount of active ingredient(s) contained in a tablet.
C89510	NCPDP QuantityUnitOfMeasure Terminology	C48540	Syringe	Syringe Dosing Unit	A dosing unit equal to the amount of active ingredient(s) contained in a single syringe.

6.2 Comparison of NCPDP Population and FDB Recommended Population

NCPDP Field Number/ *10.6 XML Element*	NCPDP Field Name	Remarks	NCPDP Data Identifiers	FDB Data Recommended Identifiers
020-1009-**01**-6063	**No longer supported**			
020-1009-**02**-6060 *Quantity: Value*	Quantity	If Quantity is not submitted the entire 020-1009 compo-site is not submitted. ***Conditional Mandatory - PIC X(35)***	**60**	**60**
020-1009-**03**-1131 *Quantity: CodeListQualifier*	Code List Qualifier	See NCPDP ECL for values. ***Conditional - PIC X(3)***	**38**	**38**
020-1009-**04**-7991 *Quantity: UnitSourceCode*	Source Code List	Code identifying the source organization. Required if Potency Unit Code (020-1009-05-7994) is used. ***Conditional Mandatory - PIC X(3)***	**AC**	**AC**
020-1009-**05**-7994 *Quantity: PotencyUnitCode*	Potency Unit Code	Unit of measure. Potency Unit. Qualified by Source Code List. ***Conditional Mandatory - PIC X(15)***	**C48542**	**C48542 (FDB-SCRIPT_QQ_ID) Which translates to "tablet"**

6.3 Using XML Message Quantity Fields Format

<Quantity>
<Value>6Ø</Value>
<CodeListQualifier>38</CodeListQualifier>
<UnitSourceCode>AC</UnitSourceCode>
<PotencyUnitCode>C48542</PotencyUnitCode>
</Quantity>

Example 7 - GCDF Mapping to Potency Unit Code – NCIt NCPDP Quantity Unit of Measure Terminology

FDB - GCDF_DESC	FDB - DOSE	SCRIPT_QQ_CD (NCIt Code)	SCRIPT_QQ_DESC (NCPDP Preferred Term)
TABLET	TABLET	C48542	Tablet
TABLET, BUCCAL	TAB BUCCAL	C48542	Tablet
TABLET, BUCCAL SUSTAINED ACTION	TAB BUC SA	C48542	Tablet
TABLET, DELAYED RELEASE (ENTERIC COATED)	TABLET DR	C48542	Tablet
TABLET, EXTENDED RELEASE	TABLET ER	C48542	Tablet
TABLET, EXTENDED RELEASE 12 HR	TAB ER 12H	C48542	Tablet
TABLET, EXTENDED RELEASE MULTIPHASE	TAB MPHASE	C48542	Tablet
TABLET, RAPID DISSOLVE	TAB RAPDIS	C48542	Tablet
TABLET, RAPID DISSOLVE, DELAYED RELEASE	TAB RAP DR	C48542	Tablet

For the purpose of communicating quantity, the variations of tablet type are not necessary.

Example 8 - MED DOSAGE FORM Mapping to NCIt NCPDP Quantity Unit of Measure Terminology

FDB MED_DOSAGE _FORM_ABBR	FDB MED_DOSAGE_FORM_DESC	SCRIPT_QQ_CD (NCIt Code)	SCRIPT_QQ_DESC (NCPDP Preferred Term)
Chew	Tablet, Chewable	C48542	Tablet
Subl	Tablet, Sublingual	C48542	Tablet
T12S	Tab, ER 12 hr Sequential	C48542	Tablet
Ta12	Tablet Extended Release 12hr	C48542	Tablet
Tab	Tablet	C48542	Tablet
Tb24	Tablet Extended Release 24 hr	C48542	Tablet
TbDL	Tablet, Rapid Dissolve	C48542	Tablet
TbMP	Tablet,Ext Release Multiphase	C48542	Tablet
TChS	Tablet, Chew Sequential	C48542	Tablet
TM24	Tablet, ER Multiphase 24 hr	C48542	Tablet
TR24	Tablet Extended Rel 24 hr	C48542	Tablet

For the purpose of communicating quantity, the variations of tablet type are not necessary.

Example 9 - POEM DOSAGE FORM Mapping to NCIt NCPDP Quantity Unit of Measure Terminology

FDB - POEDESC1	FDB - POEDESC2	SCRIPT_QQ_CD (NCIt Code)	SCRIPT_QQ_DESC (NCPDP Preferred Term)
tablet	tablets	C48542	Tablet
buccal tablet	buccal tablets	C48542	Tablet
caplet	caplets	C64696	Caplet
capsule	capsules	C48480	Capsule

Reminder: Drug Identification, Dosage Form, and Quantity must be used consistently within the transmission.

Appendix 1: NCIt Table Extracts

NCIt Subset Code C89507 – NCPDP DEA Schedule Terminology

NCIt Subset Code C89507 NCPDP DEA Schedule Terminology	
NCIt Code	**NCPDP Preferred Term**
C48672	Schedule I Substance
C48675	Schedule II Substance
C48676	Schedule III Substance
C48677	Schedule IV Substance
C48679	Schedule V Substance
C38046	Unspecified

NCIt Subset Code C89510 - NCPDP Quantity Unit of Measure Terminology

NCIt Subset Code C89510 NCPDP Quantity Unit Of Measure Terminology	
NCIt Code	**NCPDP Preferred Term**
C48473	Ampule
C62412	Applicator
C78783	Applicatorful
C48474	Bag
C48475	Bar
C53495	Bead
C54564	Blister
C53498	Block
C48476	Bolus
C48477	Bottle
C48478	Box
C48479	Can
C62413	Canister
C64696	Caplet
C48480	Capsule
C54702	Carton

NCIt Subset Code C91101 - NCPDP Measurement Unit Code Terminology

NCIt Subset Code C91101 NCPDP Measurement Unit Code Terminology	
NCIt Code	**NCPDP Preferred Term**
C37907	Age-Months
C37908	Age-Years
C49673	Beats per Minute
C16358	Body Mass Index
C25157	Body Surface Area
C81328	Body Weight
C49674	Breaths per Minute
C49668	Centimeter
C25301	Day
C42559	Degree Celsius
C44277	Degree Fahrenheit
C25299	Diastolic Blood Pressure
C48155	Gram
C49677	Heart Rate
C25347	Height
C48500	Inch
C28252	Kilogram
C49679	Mean Arterial Pressure
C49670	Millimeter of Mercury
C29846	Month
C25613	Percentage
C48531	Pound
C49676	Pulse Rate
C49678	Respiratory Rate
C87054	Sagittal Abdominal Diameter
C42569	Square Meter
C25298	Systolic Blood Pressure
C25206	Temperature
C38046	Unspecified
C29848	Year

NCIt Subset Code C89509 - NCPDP Strength Unit Of Measure Terminology

NCIt Subset Code C89509 NCPDP Strength Unit Of Measure Terminology	
NCIt Code	**NCPDP Preferred Term**
C70518	Attocurie
C42562	Becquerel
C70515	Centicurie
C48466	Curie
C25301	Day
C70514	Decicurie
C70517	Femtocurie
C70513	Gigabecquerel
C48155	Gram
C70511	Kilobecquerel
C28252	Kilogram
C42576	Kilogram per Cubic Meter
C48505	Liter
C70512	Megabecquerel
C48507	Microcurie
C48152	Microgram
C71205	Microgram per Day
C91132	Microgram per Fifteen Milliliters
C67394	Microgram per Hour
C64572	Microgram per Milliliter
C91135	Microgram per Three Days
C48511	Millicurie
C28253	Milligram
C91131	Milligram per Five Milliliters
C28254	Milliliter
C67352	Nanocurie
C25613	Percentage
C70516	Picocurie
C44278	Unit
C38046	Unspecified
C70520	Yoctocurie
C70519	Zeptocurie

NCIt Subset Code C89508 – NCPDP Strength Form Terminology

NCIt Subset Code C89508 NCPDP Strength Form Terminology	
NCIt Code	**NCPDP Preferred Term**
C78746	21 Day Tablet
C78747	28 Day Tablet
C64886	Adult Suppository
C42887	Aerosol
C42888	Aerosol Foam
C68935	Aerosol Mist
C69030	Aerosol Solution
C42889	Aerosol Spray
C25158	Capsule
C68943	Capsule 12 Hour Sustained Release
C68944	Capsule 24 Hour Sustained Release
C64876	Chewable Capsule
C42893	Chewable Tablet

Appendix 2: NCPDP Source Codes Used In Identifying NCIt Subsets Include:

NCPDP Source Code	NCPDP Description
AA	NCPDP Strength Form Terminology
AB	NCPDP Strength Unit Of Measure Terminology
AC	NCPDP Quantity Unit of Measure Terminology
AD	NCPDP Measurement Unit Code Terminology *Note : This code is only used in the SCRIPT 8.1.13 Observation Segment*