



# **Smart Open Services for European Patients**

Open eHealth initiative for a European large scale pilot of  
Patient Summary and Electronic Prescription

## **Work Package 3.5 - Semantic Services**

### **Appendix G - CEN EN13606 Technical Specifications**

**D3.5.2**

**October 7, 2009**

**Document Version: 0.0.4**

WORK PACKAGE	<b>WP 3.5</b>
DOCUMENT VERSION	<b>0.0.4</b>
DATE	<b>07/10/2009</b>

## History of Changes

Version	Date	Type of editing	Contributor
0.0.1	20090914	First version of the document	David Moner (damoca@upv.es)
0.0.2	20091002	Methodology completed Added specifications for ePrescription and Medication dispensation	David Moner
0.0.3	20091006	Added Archetype Model description Added table of CEN EN13606 vocabulary	José Alberto Maldonado Diego Boscá
0.0.4	20091007	Completed specifications Some texts rewritten	David Moner

## Table of contents

1.	Technical Specifications .....	5
1.1	Introduction .....	5
1.2	Technical Specifications References .....	5
1.3	CEN EN13606 Reference Model Description .....	5
1.3.1	Clinical data .....	5
1.3.2	Demographic data .....	6
1.3.3	Data types .....	7
1.4	CEN EN13606 Reference Model Vocabularies .....	8
1.5	CEN EN13606 Archetype Model .....	10
1.5.1	Archetype Model .....	10
1.5.2	Archetype Description Language (ADL) .....	10
1.6	Conformance .....	13
1.7	epSOS Pivot Documents Archetypes .....	13
2.	Methodology .....	15
2.1	Implementation methodology .....	15
2.2	Structure methodology .....	15
3.	Mapping of epSOS Patient Summary specifications .....	16
3.1	PS clinical data .....	16
3.1.1	Alerts .....	16
3.1.2	History of past illness .....	17
3.1.3	Medical problems .....	18
3.1.4	Medication summary .....	20
3.1.5	Social history .....	21
3.1.6	Physical findings .....	21
3.2	PS patient data .....	22
3.2.1	Identification .....	22
3.2.2	Personal information .....	22
3.2.3	Contact information .....	24
3.2.4	Insurance information .....	27
3.3	PS summary data .....	28
3.3.1	Country .....	28
3.3.2	Patient summary date .....	28
3.3.3	Nature of the PS .....	28
3.3.4	Author organization .....	29
4.	Mapping of epSOS ePrescription specifications .....	30
4.1	Prescription data .....	30
4.1.1	Prescription Id .....	30
4.1.2	Prescription item Id .....	30
4.1.3	Original or copy of the prescription in Country A .....	30
4.1.4	Country A cross-border/regional/national medicinal product .....	31
4.1.5	Country B single concept .....	31
4.1.6	Brand name of the medicinal product prescribed in Country A .....	32
4.1.7	Route of administration .....	32
4.1.8	Number of packages .....	33
4.1.9	Posology .....	33
4.1.10	Date of issue of the prescription .....	33
4.1.11	Date of beginning of treatment .....	33
4.1.12	Date of end of treatment .....	34

4.1.13	Instructions to patient .....	34
4.1.14	Advise to the dispenser.....	34
4.2	ePrescription patient data .....	35
4.2.1	Identification.....	35
4.2.2	Full name .....	35
4.2.3	Date of birth.....	35
4.2.4	Gender .....	36
4.2.5	Social/Insurance number .....	36
4.3	HCP prescriber identification data .....	36
4.3.1	HCP prescriber name.....	36
4.3.2	HCP Id number .....	37
4.3.3	Prescriber organization and role .....	37
4.3.4	Prescriber facility address.....	38
5.	Mapping of epSOS Dispensed Medicine specifications.....	41
5.1	Dispensed medicine data .....	41
5.1.1	Dispensed medicine Id .....	41
5.1.2	Prescription Id .....	41
5.1.3	Prescription item Id .....	41
5.1.4	Country A single concept .....	41
5.1.5	Country B cross-border/regional/national medicinal product code.....	42
5.1.6	Original dispensed medicine information in country B.....	42
5.1.7	Route of administration .....	44
5.1.8	Number of packages .....	44
5.1.9	Date of the dispensed medicine event .....	44
5.1.10	Substitution.....	44
5.2	Dispensed medicine patient identification.....	45
5.3	HCP dispenser identification data .....	45

## 1. Technical Specifications

### 1.1 Introduction

This part of the document describes the technical specifications for the implementation of the epSOS data sets with the “CEN EN13606 norm – Communication of the Electronic Health Record”. These specifications are based on the functional specification, and namely on the data elements elaborated by WP3.1 and WP3.2.

### 1.2 Technical Specifications References

The specifications provided here are guidelines for implementers. It is strongly encouraged that the reader reads the reference materials used, namely:

- CEN/TC 251 EN 13606-1:2007 Health informatics - Electronic health record communication - Part 1: Reference model.
- CEN/TC 251 EN 13606-2:2007 Health informatics - Electronic health record communication - Part 2: Archetypes interchange specification.
- CEN/TC 251 EN 13606-3:2008 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists.

### 1.3 CEN EN13606 Reference Model Description

The CEN EN13606 Reference Model represents the global characteristics of health record components, how they are aggregated, and the context information required to meet ethical, legal and provenance requirements. This model defines the set of classes that form the generic building blocks and stable characteristics of any electronic health record.

#### 1.3.1 Clinical data

These classes correspond to the main clinical data of the Electronic Health Record.

CEN EN13606 class	Description
EHR_EXTRACT	The top-level container of part or all of the EHR of a single subject of care, for communication between an EHR Provider system and an EHR Recipient. This approach allows the communication of views of an EHR without losing context information and also ensures that any EHR Extract can be interpreted in isolation if the recipient system does not have access to the services needed to decode the entity identifiers used by the EHR Provider.
FOLDER	The high level organisation within an EHR, dividing it into compartments relating to care provided for a single condition, by a clinical team or institution, or over a fixed time period such as an episode of care.  E.g. Diabetes care, Schizophrenia, Cholecystectomy, Paediatrics, St Mungo's Hospital, GP Folder, Episodes 2000-2001, Italy.
COMPOSITION	The set of information committed to one EHR by one agent, as a result of a single clinical encounter or record documentation session.  E.g. Progress note, Laboratory test result form, Radiology report, Referral letter, Clinic visit, Clinic letter, Discharge summary, Functional health assessment, Diabetes review.

SECTION	EHR data within a COMPOSITION that belongs under one clinical heading, usually reflecting the flow of information gathering during a clinical encounter, or structured for the benefit of future human readership.  E.g. Reason for encounter, Past history, Family History, Allergy information, Subjective symptoms, Objective findings, Analysis, Plan, Treatment, Diet, Posture, Abdominal examination, Retinal examination.
ENTRY	The information recorded in an EHR as a result of one clinical action, one observation, one clinical interpretation, or an intention. This is also known as a clinical statement.  E.g. A symptom, an observation, one test result, a prescribed drug, an allergy reaction, a diagnosis, a differential diagnosis, a differential white cell count, blood pressure measurement.
CLUSTER	The means of organising nested multi-part data structures such as time series, and to represent the columns of a table.  E.g. Audiogram results, electro-encephalogram interpretation, weighted differential diagnoses.
ELEMENT	The leaf node of the EHR hierarchy, containing a single data value.  E.g. Systolic blood pressure, heart rate, drug name, symptom, body weight.

**Table 1 – CEN EN13606 Reference Model Summary**

### 1.3.2 Demographic data

These classes correspond to the demographic and contact data of the patient, involved professionals, organizations and devices.

CEN EN13606 class	Description
PERSON	General demographic information of a person.
SUBJECT_OF_CARE_PERSON_IDENTIFICATION	Information of a person that can be used for identification.
IDENTIFIED_HEALTHCARE_PROFESSIONAL	Provides the means to reference an identified healthcare professional.
ORGANISATION	Information regarding a organization, such as its name or where it's located.
SOFTWARE_OR_DEVICE	Description of equipment, one of its parts, a device or a piece of software.
ENTITY_NAME	Specifies the name of a person, place or entity.
POSTAL_ADRESS	Represents physical mail addresses, such as work or home addresses.
TELECOM	Resource allocator trough telecommunication

	devices. It can also be a link to a resource.
--	---

**Table 2 – CEN EN13606 Demographic Reference Model Summary****1.3.3 Data types**

These classes correspond to the basic data types used by the other reference model classes and to represent the actual clinical data represented by the EHR extract.

CEN EN13606 class	Description
INT	Integer data value.
REAL	Real data value.
BL	Boolean data value. Value data type that can be true or false.
SIMPLE_TEXT	A simple text without an associated code.
CODED_TEXT	A free text string with an associated coded value.
CV	Coded Value. Coded data, stating only a code, without classifiers or translations to other codification systems.
DATE	Identifies a single day of calendar, expressed by a combination of calendar year, calendar month, calendar week, calendar day or day of the year.
TS	Time point. A non-dimensional time moment.
DURATION	A period of time from a non-fixed set of time (which is not specified). It can be expressed as a negative duration, meaning that duration is backwards. It must not be used to express points of time (for this, use TS).
IVL	Interval. An interval in CEN EN13606 can contain PQ, TS, DURATION, ORD and RTO. It is defined with a start and end object of the selected data type. As is widely used, the interval of time has its own type (IVLTS).
IVLTS	Interval time. Can be defined by a start date or time and an end date or time, by a duration without start or end, by a start date or time and a duration, and by a duration and an end date or time. Do not confuse with DURATION.
ED	Encapsulated data. Data which main purpose is to be interpreted by humans. This data includes any written language, multimedia data, digital signatures or information defined in any other standard.
PQ	Physical quantity. A dimensioned quantity that expresses the result of a measurement.
ORD	Ordinal. A number that defines a position in a list or series with a textual description.
RTO	Ratio. A quantity built as the quotient of a numerator quantity divided by a denominator quantity.
URI	Universal resource identifier. A telecom address as specified in standard RFC 1738.

**Table 3 – CEN EN13606 Data Types****1.4 CEN EN13606 Reference Model Vocabularies**

This section contains a summary the internal terminology codes used by the CEN EN13606 norm to describe several kinds of data, mainly the demographic information. The complete terminology can be found at CEN EN13606-1 and CEN EN13606-3 specifications.

Code	Meaning
0	male
1	female
2	intersex
9	unknown

**Table 4 –CEN/TC251/EN13606-1:  
SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION: aministrativeGenderCode**

Code	Meaning
HT	home telephone
WT	work telephone
AS	answering service
EC	emergency contact
MC	mobile contact
PG	pager
FX	fax

**Table 5 –CEN/TC251/EN13606-1: TELECOM: use**

Code	Meaning
BIR	birthplace
H	home
HP	primary home
HV	vacation address
WP	work place

**Table 6 –CEN/TC251/EN13606-1: POSTAL\_ADDRESS: addressUse**



Code	Meaning
BNM	boat name
CNT	country
CPA	county or parish
CTY	city/town
FNM	flat number
HNR	house number
HNM	house name
POB	post box
SAL	street address line
STA	state or province
STR	street name

**Table 7 –CEN/TC251/EN13606-1: POSTAL\_ADDRESS\_PART: addressLineType**

Code	Meaning
AC	academic
NB	nobility
PR	professional
W	prefix
BR	birth
CL	preferred name
IN	initial

**Table 8 –CEN/TC251/EN13606-1: ENTITY\_NAME\_PART: namePartQualifier**

Code	Meaning
FAM	family
GIV	given
PFX	prefix
SFX	suffix

**Table 9 –CEN/TC251/EN13606-1: ENTITY\_NAME\_PART: namePartType**

Code	Meaning
STRC01	List
STRC02	Table

**Table 10 –CEN/TC251/EN13606-3: CLUSTER: structureType**

## 1.5 CEN EN13606 Archetype Model

### 1.5.1 Archetype Model

The most remarkable feature of the CEN EN13606 approach is the complete separation of information models (such as models of software or database schemas), represented by a stable and small object oriented reference model, from domain models such as blood pressure measurement, discharge report, prescription or microbiology result which are represented by archetypes. Only the stable reference model is hard-coded in database schemas or software, while the possible numerous and volatile domain concepts (archetypes) are modeled separately by domain specialists and their definitions are maintained in a repository. Since the software is only bound to the reference model it has no direct dependency on domain concepts.

Archetypes are a means for providing semantics to data instances that conform to some reference model by assuring that data obey a particular structure (combination of classes of the reference model) and satisfies a set of semantic constraints. This is achieved by linking data structures and content to knowledge resources such as terminologies and ontologies. Therefore, they provide a powerful, reusable and interoperable way of managing the creation, description, validation and query of EHRs.

### 1.5.2 Archetype Description Language (ADL)

ADL (Archetype Definition Language) is a formal language for expressing textually archetypes. An archetype expressed in ADL is composed of four main parts: description, definition, ontology and revision history. The description section basically contains metadata, such as a multi-axial identifier which consists of the Reference Model identifier, the particular business class on which the archetype is based, the clinical concept which is being defined, the current lifecycle state of development and its version. The archetype may also contain a reference to the parent archetype in the specialization hierarchy if it exists. The most important section of an archetype is the definition tree, where the clinical concept is represented in terms of a particular business class. It is important to notice that the definition section only contains constraints for those parts of a reference model which need to be constrained. Therefore, many classes and attributes from the reference model are not present in the definition section; those not appearing are supposed to keep their original definition as stated in the reference model. The ontology section is where the entities specified in the definition section are described and bound to terminologies. Finally the revision history section contains the audit of changes to the archetype.

Constraints are written in a block-structured style. The general structure is a recursive writing of constraints on types (known as object nodes or object blocks), followed by constraints on properties of that particular type (known as attribute nodes or attribute blocks), followed by constraints of types (being the types of the attribute under which it appears) until leaf nodes (those representing atomic data types) are reached. Names of classes and attributes from the reference model are used for all nodes.. Codes can be assigned to object nodes in the form of Type\_name[nodeID] where nodeIDs by convention are prefixed with “at” and have 4 digits, eg. [at0001]. Object nodes that are specialization of other nodes have the same root, followed by “dot” extensions, e.g.

```
PERSON[at0000] matches {           -- constraint on PERSON instance
  name matches {                   -- constraint on PERSON.name
    TEXT matches {/.+/.}          -- any non-empty string
  }
  addresses cardinality matches {0..*} matches {-- constraint on
    ADDRESS matches {              -- PERSON.addresses
      -- etc --
    }
  }
}
```

#### 1.5.2.1 Attribute constraints

- **Existence**

An existence constraint may be used directly after any attribute identifier, and indicates whether the object to which the attribute refers is mandatory or optional in the data. The meaning of an existence constraint is to indicate whether the corresponding object or attribute is mandatory or optional in the instance data. For instance:

```
QUANTITY matches {
  units existence matches {0..1} matches {mm[Hg]}
}
```

- **Single-valued Attributes**

Repeated blocks of object constraints of the same class (or its subtypes) may have two possible meanings, depending on whether the cardinality is present or not in the containing attribute block. Two or more object blocks introduced by type names appearing after an attribute that is not a container (i.e. for which there is no cardinality constraint) are taken to be alternative constraints, only one of which needs to be matched by the data.

```
ELEMENT[at0004] matches {           -- speed limit
  value matches {
    QUANTITY matches {
      magnitude matches {0..55}
      property matches {"velocity"}
      units matches {"mph"}          -- miles per hour
    }
    QUANTITY matches {
```

```
    magnitude matches {0..100}
    property matches {"velocity"}
    units matches {"km/h"}          -- km per hour
  }
}
```

Here the value attribute is mono-valued (the default cardinality is 1..1). It must have one instance of class QUANTITY which can match either of the constraints.

- **Cardinality**

Container attributes are indicated in with the cardinality constraint. Cardinalities indicate limits for the number of members of container types such as lists and sets. For example:

```
HISTORY[at0001] occurrences ∈ {1} ∈ {
  periodic ∈ {False}
  events cardinality ∈ {*} ∈ {
    EVENT[at0002] occurrences ∈ {0..1} ∈ {    }
    EVENT[at0003] occurrences ∈ {0..1} ∈ {    }
    EVENT[at0004] occurrences ∈ {0..1} ∈ {    }
  }
}
```

- **Occurrences**

A constraint on occurrences may be used only with object nodes (not attribute nodes), to indicate how many times in runtime data an instance of a given class conforming to a particular constraint can occur. It only has significance for objects which are children of a container attribute, since by definition, the occurrences of an object which is the value of a single-valued attribute may only be 0..1 or 1..1, and this is already defined by the attribute existence. However, it is not illegal. The default occurrences, if none is mentioned, is {1..1}. The following example expresses a constraint on instances of GROUP such that for GROUPs representing tribes, clubs and families, there shall only be one head, but there may be many members.

```
GROUP[at0103] ∈ {
  kind ∈ {/tribe|family|club/}
  members cardinality ∈ {*} ∈ {
    PERSON[at0104] occurrences ∈ {1} matches {
      title ∈ {head}
      -- etc --
    }
    PERSON[at0105] occurrences ∈ {0..*} matches {
      title ∈ {member}
    }
  }
}
```

```

    -- etc --
  }
}
}
```

• **Domain Constraints on Primitive Types**

Domain constraints on primitive types restrict the data values of primitive attributes, Constraints on attributes of primitive types may optionally be expressed without type names and omitting one level of braces. Each primitive type has its own set of valid constraints. For instance, Strings can be constrained in two ways: using a fixed string, and using a regular expression whereas integers may be constrained with a single integer value, an integer interval, or a list of integers. For a detailed explanation on constraints on primitive types we refer the reader to the specifications of CEN EN13606-2.

**1.6 Conformance**

The EHR Extracts that conform to the requirements of this implementation guide shall indicate their conformance by the inclusion of the appropriate <archetype\_id> attribute to all the used classes of the Reference Model. This is shown in the sample document below:

```
<EHR_EXTRACT>
..
<all_compositions>
  <name xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="SIMPLE_TEXT">
    <originalText>Patient summary</originalText>
  </name>
  <archetype_id>CEN-EN13606-COMPOSITION.Patient_Summary.v1</archetype_id>
..
</EHR_EXTRACT>
```

**Figure 1 - Sample CEN EN13606 EHR Extract Document**

**1.7 epSOS Pivot Documents Archetypes**

The pivot documents of the epSOS project, namely Patient Summary, ePrescription and eDispensation, are represented through the following set of archetypes.

Document	Archetypes
epSOS Patient Summary	CEN-EN13606-COMPOSITION.Patient_Summary.v1
	CEN-DEMOGRAPHIC-SUBJECT_OF_CARE_PERSON_IDENTIFICATION.PS_Patient_Identification.v1
	CEN-DEMOGRAPHIC-ORGANISATION.PS_Contact_Organization.v1
	CEN-DEMOGRAPHIC-PERSON.PS_Contact_Person.v1
epSOS ePrescription	CEN-EN13606-COMPOSITION.ePrescription.v1
	CEN-DEMOGRAPHIC-SUBJECT_OF_CARE_PERSON_IDENTIFICATION.ePrescription_Patient_Identification.v1
	CEN-DEMOGRAPHIC-IDENTIFIED_HEALTHCARE_PROFESSIONAL.HCP_Prescriber.v1

epSOS eDispensation	CEN-EN13606-COMPOSITION.Dispensed_Medicine.v1
	CEN-DEMOGRAPHIC-SUBJECT_OF_CARE_PERSON_IDENTIFICATION. eDispensation_Patient_Identification.v1
	CEN-DEMOGRAPHIC-IDENTIFIED_HEALTHCARE_PROFESSIONAL. HCP_Dispenser.v1

**Table 11 – epSOS Pivot Documents Archetypes**

## **2. Methodology**

### **2.1 Implementation methodology**

The CEN EN13606 Reference Model (RM) incorporates all the necessary medico-legal constructs to support the safe and relevant communication of EHR entries between professionals working on the same or different sites. This context information should always accompany the pure clinical data.

Context information includes, among others, the author of the clinical annotation, the committer of the annotation, the legal attestation of the annotation, the place where the clinical session took place, the time of the clinical session, etcetera.

The implementation strategy uses all these context information containers in order to represent some data of the data sets. The most common example is to use the *<obs\_time>* attribute to represent dates and times of the clinical annotations.

### **2.2 Structure methodology**

As a general rule, elements of the specifications that can have multiple occurrences (such as the allergies) have been included into a list of elements. That is, for the allergies example, there will be a list of allergies grouping them.

### 3. Mapping of epSOS Patient Summary specifications

#### 3.1 PS clinical data

The Patient Summary (PS) clinical data is represented by a COMPOSITION class, which is the most suitable class to represent a clinical document such as the Patient Summary.

An ENTRY with the name “Patient clinical data” has been created as content of the COMPOSITION. This ENTRY will contain all the specific clinical data described in the following sections.

##### 3.1.1 Alerts

The *Alerts* section is represented by a CLUSTER class that contains two subsections:

###### 3.1.1.1 Allergy

Variable	EN13606 Name	EN13606 Class	Data Type
-	Allergies	CLUSTER	-
Allergy	Allergy	CLUSTER	-
Onset date	-	CLUSTER.obs_time	IVLTS
Allergy description+ Id code	Allergy description	ELEMENT	CODED_TEXT
Agent + Id code	Agent	ELEMENT	CODED_TEXT

ADL code:

```
CLUSTER[at0010] occurrences matches {0..*} matches { -- Allergy
  parts cardinality matches {2..2; unordered; unique} matches {
    ELEMENT[at0011] occurrences matches {1..1} matches { -- Allergy description
      value matches {
        CODED_TEXT[at0050] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
    ELEMENT[at0013] occurrences matches {1..1} matches { -- Agent
      value matches {
        CODED_TEXT[at0052] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
  }
  obs_time existence matches {0..1} matches {
    IVLTS[at0046] occurrences matches {0..1} matches {*} -- IVLTS
  }
}
```

###### 3.1.1.2 Medical alert information

Variable	EN13606 Name	EN13606 Class	Data Type
Medical alerts	Medical alerts	CLUSTER	-
Alert description + Id code	Medical alert	ELEMENT	CODED_TEXT

ADL code:

```
CLUSTER[at0009] occurrences matches {1..1} matches { -- Medical alerts
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches {
    ELEMENT[at0016] occurrences matches {0..*} matches { -- Medical alert
      value matches {
        CODED_TEXT[at0057] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
  }
}
```



```
}
}
```

### 3.1.2 History of past illness

The *History of past illness* section is represented by a CLUSTER class that contains three subsections:

#### 3.1.2.1 Vaccinations

Variable	EN13606 Name	EN13606 Class	Data Type
-	Vaccinations	CLUSTER	
Vaccination	Vaccination	CLUSTER	
Vaccination date	-	CLUSTER.obs_time	IVLTS
Vaccination + Id code	Vaccination	ELEMENT	CODED_TEXT
Brand name	Brand name	ELEMENT	SIMPLE_TEXT

ADL code:

```
CLUSTER[at0017] occurrences matches {0..1} matches { -- Vaccinations
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    CLUSTER[at0018] occurrences matches {0..*} matches { -- Vaccination
      parts existence matches {0..1} cardinality matches {0..2; unordered; unique}
      matches {
        ELEMENT[at0019] occurrences matches {0..1} matches { -- Vaccination
          value existence matches {0..1} matches {
            CODED_TEXT[at0058] occurrences matches {0..1} matches {*} --
            CODED_TEXT
          }
        }
        ELEMENT[at0020] occurrences matches {0..1} matches { -- Brand name
          value existence matches {0..1} matches {
            SIMPLE_TEXT[at0059] occurrences matches {0..1} matches {*} --
            SIMPLE_TEXT
          }
        }
      }
      obs_time existence matches {0..1} matches {
        IVLTS[at0060] occurrences matches {0..1} matches {*} -- IVLTS
      }
    }
  }
}
```

#### 3.1.2.2 List of resolved, closed or inactive problems

Variable	EN13606 Name	EN13606 Class	Data Type
List of resolved problems	Resolved, closed or inactive problems	CLUSTER	-
Resolved problem	Resolved problem	CLUSTER	-
Onset date + End date	-	CLUSTER.obs_time	IVLTS
Problem description + Id code	Problem description	ELEMENT	CODED_TEXT
Resolution circumstances	Resolution circumstances	ELEMENT	SIMPLE_TEXT

ADL code:

```
CLUSTER[at0022] occurrences matches {0..1} matches { -- Resolved, closed or inactive
  problems
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    CLUSTER[at0023] occurrences matches {0..*} matches { -- Resolved problem
```

```

parts existence matches {0..1} cardinality matches {0..2; unordered; unique}
matches {
  ELEMENT[at0024] occurrences matches {0..1} matches { -- Problem
description
  value existence matches {0..1} matches {
    CODED_TEXT[at0062] occurrences matches {0..1} matches {*} --
CODED_TEXT
  }
}
ELEMENT[at0027] occurrences matches {0..1} matches { -- Resolution
circumstances
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0063] occurrences matches {0..1} matches {*} --
SIMPLE_TEXT
  }
}
obs_time existence matches {0..1} matches {
  IVLTS[at0061] occurrences matches {0..1} matches {*} -- IVLTS
}
}
}

```

### 3.1.2.3 Surgical procedures prior to the past six months

Variable	EN13606 Name	EN13606 Class	Data Type
Surgical procedures	Surgical procedures prior to the past six months	CLUSTER	-
Procedure date	Surgical procedure	ELEMENT.obs_time	IVLTS
Procedure description + Id code	Surgical procedure	ELEMENT.value	CODED_TEXT

ADL code:

```

CLUSTER[at0028] occurrences matches {0..1} matches { -- Surgical procedures prior to
the past six months
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
{
  ELEMENT[at0029] occurrences matches {0..*} matches { -- Surgical procedure
    obs_time existence matches {0..1} matches {
      IVLTS[at0064] occurrences matches {0..1} matches {*} -- IVLTS
    }
    value existence matches {0..1} matches {
      CODED_TEXT[at0065] occurrences matches {0..1} matches {*} -- CODED_TEXT
    }
  }
}
}

```

### 3.1.3 Medical problems

Medical problems are represented by a CLUSTER which groups the information of each different problem, represented by a specific ELEMENT.

#### 3.1.3.1 List of current problems/diagnosis

Variable	EN13606 Name	EN13606 Class	Data Type
List of current problems/diagnosis	Current problems/diagnosis	CLUSTER	-
Onset time	Problem/diagnosis	ELEMENT.obs_time	IVLTS
Problem description + Id code	Problem/diagnosis	ELEMENT.value	CODED_TEXT

ADL code:

```

CLUSTER[at0036] occurrences matches {1..1} matches { -- Current problems/diagnosis
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    ELEMENT[at0015] occurrences matches {0..*} matches { -- Problem/diagnosis
      obs_time matches {
        IVLTS[at0067] occurrences matches {1..1} matches {*} -- IVLTS
      }
      value matches {
        CODED_TEXT[at0066] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
  }
}

```

### 3.1.3.2 Medical devices and implants

Variable	EN13606 Name	EN13606 Class	Data Type
Medical devices and implants	Medical devices and implants	CLUSTER	-
Device description + Id code	Device or implant	ELEMENT.value	CODED_TEXT
Implant date	Device or implant	ELEMENT.obs_time	IVLTS

ADL code:

```

CLUSTER[at0037] occurrences matches {1..1} matches { -- Medical devices and implants
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    ELEMENT[at0041] occurrences matches {0..*} matches { -- Device or implant
      obs_time matches {
        IVLTS[at0068] occurrences matches {1..1} matches {*} -- IVLTS
      }
      value matches {
        CODED_TEXT[at0069] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
  }
}

```

### 3.1.3.3 Major surgical procedures in the past six months

Variable	EN13606 Name	EN13606 Class	Data Type
Major surgical procedures in the past six months	Major surgical procedures in the past six months	CLUSTER	-
Procedure description + Id code	Surgical procedure	ELEMENT.value	CODED_TEXT
Procedure date	Surgical procedure	ELEMENT.obs_time	IVLTS

ADL code:

```

CLUSTER[at0038] occurrences matches {1..1} matches { -- Major surgical procedures in
the past six months
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    ELEMENT[at0044] occurrences matches {0..*} matches { -- Surgical procedure
      obs_time matches {
        IVLTS[at0070] occurrences matches {1..1} matches {*} -- IVLTS
      }
      value matches {
        CODED_TEXT[at0071] occurrences matches {1..1} matches {*} -- CODED_TEXT
      }
    }
  }
}

```

## 3.1.3.4 Treatment recommendations

Variable	EN13606 Name	EN13606 Class	Data Type
Treatment recommendations	Treatment recommendations	CLUSTER	-
Recommendation + Id code	Recommendation	ELEMENT	CODED_TEXT

ADL code:

```

CLUSTER[at0032] occurrences matches {0..1} matches { -- Treatment recommendations
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    ELEMENT[at0033] occurrences matches {0..*} matches { -- Recommendation
      value existence matches {0..1} matches {
        CODED_TEXT[at0072] occurrences matches {0..1} matches {*} -- CODED_TEXT
      }
    }
  }
}

```

## 3.1.3.5 Autonomy/invalidity

Variable	EN13606 Name	EN13606 Class	Data Type
Autonomy/Invalidity	Autonomy/Invalidity	CLUSTER	-
Invalidity description + Id code	Invalidity	ELEMENT	CODED_TEXT

ADL code:

```

CLUSTER[at0034] occurrences matches {0..1} matches { -- Autonomy/Invalidity
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    ELEMENT[at0035] occurrences matches {0..*} matches { -- Invalidity
      value existence matches {0..1} matches {
        CODED_TEXT[at0073] occurrences matches {0..1} matches {*} -- CODED_TEXT
      }
    }
  }
}

```

## 3.1.4 Medication summary

Variable	EN13606 Name	EN13606 Class	Data Type
Medication summary	Medication summary	CLUSTER	-
-	Medication	CLUSTER	-
Active ingredient + Id code	Active ingredient	ELEMENT	CODED_TEXT
Posology	Posology	ELEMENT	PQ
Date of onset of treatment	Date of onset of treatment	ELEMENT	PIVL

ADL code:

```

CLUSTER[at0005] occurrences matches {1..1} matches { -- Medication summary
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
  {
    CLUSTER[at0047] occurrences matches {0..*} matches { -- Medication
      parts cardinality matches {3..3; ordered; unique} matches {
        ELEMENT[at0048] occurrences matches {1..1} matches { -- Active
ingredient
          value matches {
            CODED_TEXT[at0074] occurrences matches {1..1} matches {*} --
CODED_TEXT
          }
        }
      }
    }
  }
}

```

```

    }
    ELEMENT[at0078] occurrences matches {1..1} matches { -- Posology
      value matches {
        PQ[at0076] occurrences matches {1..1} matches {*} -- PQ
      }
    }
    ELEMENT[at0049] occurrences matches {1..1} matches { -- Date of onset
of treatment
      value matches {
        PIVL[at0075] occurrences matches {1..1} matches {*} -- PIVL
      }
    }
  }
}
}
}
}

```

### 3.1.5 Social history

Variable	EN13606 Name	EN13606 Class	Data Type
Social history	Social history	CLUSTER	-
Social history observation	Social history observation	ELEMENT.value	SIMPLE_TEXT
Reference date range	Social history observation	ELEMENT.obs_time	IVLTS

ADL code:

```

CLUSTER[at0006] occurrences matches {0..1} matches { -- Social history
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
{
  ELEMENT[at0051] occurrences matches {0..*} matches { -- Social history
observation
  obs_time existence matches {0..1} matches {
    IVLTS[at0083] occurrences matches {0..1} matches {*} -- IVLTS
  }
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0079] occurrences matches {0..1} matches {*} --
SIMPLE_TEXT
  }
}
}
}

```

### 3.1.6 Physical findings

Variable	EN13606 Name	EN13606 Class	Data Type
Physical findings	Physical findings	CLUSTER	-
Blood pressure	Blood pressure	CLUSTER	-
Date of measurement	Blood pressure	CLUSTER.obs_time	IVLTS
Systolic	Systolic blood pressure	ELEMENT	PQ
Diastolic	Diastolic blood pressure	ELEMENT	PQ

ADL code:

```

CLUSTER[at0007] occurrences matches {0..1} matches { -- Physical findings
  parts existence matches {0..1} cardinality matches {0..*; unordered; unique} matches
{
  CLUSTER[at0054] occurrences matches {0..*} matches { -- Blood pressure
    parts cardinality matches {2..2; unordered; unique} matches {
      ELEMENT[at0055] occurrences matches {1..1} matches { -- Systolic blood
pressure
        value matches {
          PQ[at0081] occurrences matches {1..1} matches {*} -- PQ
        }
      }
    }
  }
}

```

```

ELEMENT[at0056] occurrences matches {1..1} matches { -- Diastolic blood
pressure
    value matches {
        PQ[at0082] occurrences matches {1..1} matches {*} -- PQ
    }
}
obs_time existence matches {0..1} matches {
    IVLTS[at0080] occurrences matches {0..1} matches {*} -- IVLTS
}
}
}

```

## 3.2 PS patient data

### 3.2.1 Identification

This information corresponds to the attribute *extract\_id* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
National healthcare patient id	National healthcare patient id	II	II

ADL code:

```
II[at0001] occurrences matches {1..1} matches {*} -- National healthcare patient ID
```

### 3.2.2 Personal information

#### 3.2.2.1 Full name

This information corresponds to the attribute *name* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Full name	Full name	ENTITY_NAME	-
Given name	Given name	ENTITY_NAME_PART	String
Family name/surname	Family name/surname	ENTITY_NAME_PART	String

ADL code:

```

ENTITY_NAME[at0004] occurrences matches {1..1} matches { -- Full name
    name_part cardinality matches {2..2; ordered; unique} matches {
        ENTITY_NAME_PART[at0005] occurrences matches {1..1} matches { -- Given name
            entity_part_name matches {/.*/}
            name_part_type matches {
                CS[at0022] occurrences matches {1..1} matches { -- CS
                    codeValue matches {"GIV"}
                    codingSchemeName matches {"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
                }
            }
        }
        ENTITY_NAME_PART[at0006] occurrences matches {1..1} matches { -- Family
name/Surname
            entity_part_name matches {/.*/}
            name_part_type matches {
                CS[at0023] occurrences matches {1..1} matches { -- CS
                    codeValue matches {"FAM"}
                    codingSchemeName matches {"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
                }
            }
        }
    }
}

```

```
}
}
```

### 3.2.2.2 Date of birth

This information corresponds to the attribute *birth\_time* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Date of birth	Date of birth	TS	TS

ADL code:

```
TS[at0003] occurrences matches {1..1} matches {*} -- Date of birth
```

### 3.2.2.3 Gender

This information corresponds to the attribute *administrative\_gender\_code* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Gender code	Gender code	CS	CS

ADL code:

```
CS[at0007] occurrences matches {1..1} matches {*} -- Gender code
```

### 3.2.2.4 Birth place

This information corresponds to the attribute *addr* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Birth place	Birth place	POSTAL_ADDRESS	-
Country of birth	Country of birth	POSTAL_ADDRESS_PART	String
Place of birth	Place of birth	POSTAL_ADDRESS_PART	String

ADL code:

```
POSTAL_ADDRESS[at0002] occurrences matches {0..1} matches { -- Birth place
  addr_part existence matches {0..1} cardinality matches {0..2; ordered; unique}
  matches {
    POSTAL_ADDRESS_PART[at0008] occurrences matches {0..1} matches { -- Country of
    birth
      address_line matches {/.*/}
      address_line_type existence matches {0..1} matches {
        CS[at0026] occurrences matches {0..1} matches { -- CS
          codeValue existence matches {0..1} matches {"CNT"}
          codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
        }
      }
    }
  POSTAL_ADDRESS_PART[at0009] occurrences matches {0..1} matches { -- Place of
  birth
    address_line matches {/.*/}
    address_line_type existence matches {0..1} matches {
      CS[at0027] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"CTY"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
  }
```

```

    }
  }
  address_use existence matches {0..1} cardinality matches {0..*; unordered; unique}
matches {
  CS[at0024] occurrences matches {0..*} matches { -- CS
    codeValue existence matches {0..1} matches {"BIR"}
    codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:POSTAL_ADDRESS"}
  }
}
}

```

### 3.2.3 Contact information

#### 3.2.3.1 Address

This information corresponds to the attribute *addr* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Address	Address	POSTAL_ADDRESS	-
Type of Thoroughfare	Type of Thoroughfare	POSTAL_ADDRESS_PART	String
Name of Thoroughfare	Name of Thoroughfare	POSTAL_ADDRESS_PART	String
Number of Thoroughfare	Number of Thoroughfare	POSTAL_ADDRESS_PART	String
Floor	Floor	POSTAL_ADDRESS_PART	String
Letter	Letter	POSTAL_ADDRESS_PART	String
Post Code	-	POSTAL_ADDRESS.post_code	String
Province	Province	POSTAL_ADDRESS_PART	String
Country	Country	POSTAL_ADDRESS_PART	String

ADL code:

```

POSTAL_ADDRESS[at0010] occurrences matches {0..1} matches { -- Contact address
  addr_part existence matches {0..1} cardinality matches {0..7; ordered; unique}
matches {
  POSTAL_ADDRESS_PART[at0011] occurrences matches {0..1} matches { -- Type of
thoroughfare
    address_line_type existence matches {0..1} matches {
      CS[at0028] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"SAL"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0012] occurrences matches {0..1} matches { -- Name of
thoroughfare
    address_line_type existence matches {0..1} matches {
      CS[at0029] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"STR"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0013] occurrences matches {0..1} matches { -- Number of
thoroughfare
    address_line_type existence matches {0..1} matches {
      CS[at0030] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"HNR"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
  }
}

```



```

    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0014] occurrences matches {0..1} matches { -- Floor
    address_line_type existence matches {0..1} matches {
      CS[at0031] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"FNM"}
        codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0015] occurrences matches {0..1} matches { -- Letter
    address_line_type existence matches {0..1} matches {
      CS[at0032] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"HNR"}
        codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0017] occurrences matches {0..1} matches { -- Province
    address_line_type existence matches {0..1} matches {
      CS[at0034] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"STA"}
        codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
    address_line matches {/.*/}
  }
  POSTAL_ADDRESS_PART[at0018] occurrences matches {0..1} matches { -- Country
    address_line matches {/.*/}
    address_line_type existence matches {0..1} matches {
      CS[at0035] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"CNT"}
        codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
      }
    }
  }
  }
  address_use existence matches {0..1} cardinality matches {0..1; unordered; unique}
  matches {
    CS[at0025] occurrences matches {0..1} matches { -- CS
      codeValue existence matches {0..1} matches {"H"}
      codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-1:POSTAL_ADDRESS"}
    }
  }
  postal_code existence matches {0..1} matches {/.*/}
}

```

### 3.2.3.2 Telephone number

This information corresponds to the attribute *telecom* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Telephone No	Telephone number	TELECOM	URI

ADL code:

```

TELECOM[at0019] occurrences matches {0..1} matches { -- Telephone number
  use existence matches {0..1} cardinality matches {0..1; unordered; unique} matches {
    CS[at0036] occurrences matches {0..1} matches { -- CS
      codeValue existence matches {0..1} matches {"HT"}
    }
  }
}

```

```

        codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:TELECOM"}
    }
    }
    telecom_address matches {
        URI[at0037] occurrences matches {0..1} matches {*} -- URI
    }
}

```

### 3.2.3.3 E-mail

This information corresponds to the attribute *telecom* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
E-mail	E-mail	TELECOM	URI

ADL code:

```

TELECOM[at0020] occurrences matches {0..1} matches { -- E-mail
    telecom_address matches {
        URI[at0038] occurrences matches {0..1} matches {*} -- URI
    }
}

```

### 3.2.3.4 Contact person/guardian

This information corresponds to the *PERSON* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Contact person/Guardian	Contact person	PERSON	-
-	Contact person full name	ENTITY_NAME	-
Given name	Given name	ENTITY_NAME_PART	String
Family name/surname	Family name/surname	ENTITY_NAME_PART	String
Telephone No	Telephone number	TELECOM	URI
E-mail	E-mail	TELECOM	URI

ADL code:

```

PERSON[at0000] occurrences matches {1..1} matches { -- Contact Person
    name existence matches {0..1} cardinality matches {0..1; unordered; unique} matches
    {
        ENTITY_NAME[at0001] occurrences matches {0..1} matches { -- Contact person full
name
            name_part cardinality matches {1..2; ordered; unique} matches {
                ENTITY_NAME_PART[at0002] occurrences matches {0..1} matches { -- Given
name
                    entity_part_name matches {/.*/}
                    name_part_type matches {
                        CS[at0003] occurrences matches {0..1} matches { -- CS
                            codeValue existence matches {0..1} matches {"GIV"}
                            codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
                        }
                    }
                }
            ENTITY_NAME_PART[at0004] occurrences matches {0..1} matches { -- Family
name/Surname
                entity_part_name matches {/.*/}
                name_part_type matches {
                    CS[at0005] occurrences matches {0..1} matches { -- CS
                        codeValue existence matches {0..1} matches {"FAM"}
                    }
                }
            }
        }
    }
}

```

```

        codingSchemeName    existence    matches    {0..1}    matches
{"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
    }
    }
    }
    }
    }
    telecom existence matches {0..1} cardinality matches {0..2; unordered; unique}
matches {
    TELECOM[at0006] occurrences matches {0..1} matches { -- Telephone number
        telecom_address matches {
            URI[at0008] occurrences matches {0..1} matches {*} -- URI
        }
    }
    use existence matches {0..1} cardinality matches {0..1; unordered; unique}
matches {
    CS[at0009] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"HT"}
        codingSchemeName    existence    matches    {0..1}    matches
{"CEN/TC251/EN13606-1:TELECOM"}
    }
    }
    TELECOM[at0007] occurrences matches {0..1} matches { -- E-mail
        telecom_address matches {
            URI[at0010] occurrences matches {0..1} matches {*} -- URI
        }
    }
}
}

```

### 3.2.3.5 Preferred HCP/Legal organization to contact

This information corresponds to the *ORGANISATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Name of the HCP	-	ORGANISATION.name	String
Telephone No	Telephone number	TELECOM	URI
E-mail	E-mail	TELECOM	URI

ADL code:

```

ORGANISATION[at0000] occurrences matches {1..1} matches { -- PS_Contact_Organization
    name matches {/.*/}
    telecom cardinality matches {2..2; ordered; unique} matches {
        TELECOM[at0002] occurrences matches {1..1} matches { -- Telephone number
            telecom_address matches {
                URI[at0004] occurrences matches {1..1} matches {*} -- URI
            }
        }
        TELECOM[at0003] occurrences matches {1..1} matches { -- E-mail
            telecom_address matches {
                URI[at0005] occurrences matches {1..1} matches {*} -- URI
            }
        }
    }
}
}

```

### 3.2.4 Insurance information

This information corresponds to the attribute *id* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Insurance	Insurance	SUBJECT_OF_CARE_PERSON_IDENTIFICATION.id	II

number	number		
--------	--------	--	--

ADL code:

```
id existence matches {0..1} cardinality matches {0..1; unordered; unique} matches {
  II[at0021] occurrences matches {0..1} matches {*} -- Insurance number
}
```

### 3.3 PS summary data

Data about the Patient Summary itself are represented in the main COMPOSITION of the PS. Most of these data, except the country information, are explicitly declared as part of the COMPOSITION content. All this information has been included into an own ENTRY called “Patient summary data”.

#### 3.3.1 Country

Variable	EN13606 Name	EN13606 Class	Data Type
Country	Country	COMPOSITION.territory	CS

ADL code:

```
territory matches {
  CS[at0025] occurrences matches {1..1} matches { -- Country
    codeValue matches {*}
  }
}
```

#### 3.3.2 Patient summary date

Variable	EN13606 Name	EN13606 Class	Data Type
Date created	Date created	ELEMENT	TS
Date of last update	Date of last update	ELEMENT	TS

ADL code:

```
ELEMENT[at0026] occurrences matches {1..1} matches { -- Date created
  value existence matches {0..1} matches {
    TS[at0042] occurrences matches {0..1} matches {*} -- TS
  }
}
ELEMENT[at0030] occurrences matches {1..1} matches { -- Date of last update
  value matches {
    TS[at0040] occurrences matches {1..1} matches {*} -- TS
  }
}
```

#### 3.3.3 Nature of the PS

Variable	EN13606 Name	EN13606 Class	Data Type
Nature of the PS	Nature of the Patient Summary	ELEMENT	CODED_TEXT

ADL code:

```
ELEMENT[at0031] occurrences matches {1..1} matches { -- Nature of the Patient Summary
  value existence matches {0..1} matches {
    CODED_TEXT[at0043] occurrences matches {0..1} matches {*} -- CODED_TEXT
  }
}
```

### 3.3.4 Author organization

Variable	EN13606 Name	EN13606 Class	Data Type
Author organization	Author organization	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0039] occurrences matches {1..1} matches { -- Author organization
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0045] occurrences matches {0..1} matches {*} -- SIMPLE_TEXT
  }
}
```

## 4. Mapping of epSOS ePrescription specifications

### 4.1 Prescription data

The Prescription Data (ePrescription) is represented by a COMPOSITION class. An ENTRY with the name “Prescription data” has been created as content of the COMPOSITION. This ENTRY will contain all the specific clinical data described in the following sections.

#### 4.1.1 Prescription Id

The *Prescription Id* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Prescription Id	Prescription Id	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0002] occurrences matches {1..1} matches { -- Prescription ID
  value matches {
    SIMPLE_TEXT[at0020] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 4.1.2 Prescription item Id

The *Prescription item Id* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Prescription item Id	Prescription item Id	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0003] occurrences matches {1..*} matches { -- Prescription Item ID
  value matches {
    SIMPLE_TEXT[at0022] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 4.1.3 Original or copy of the prescription in Country A

The *Original or copy of the prescription in Country A* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Original or copy of the prescription in Country A	Original or copy of the prescription	ELEMENT	ED

ADL code:

```
ELEMENT[at0004] occurrences matches {0..1} matches { -- Original or copy of the
prescription
  value matches {
    ED[at0023] occurrences matches {1..1} matches {*} -- ED
  }
}
```

#### 4.1.4 Country A cross-border/regional/national medicinal product

The *Country A cross-border/regional/national medicinal product* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Country A cross-border/regional/national medicinal product	Medicinal product code	ELEMENT	CV

ADL code:

```
ELEMENT[at0005] occurrences matches {0..1} matches { -- Medicinal product code
  value existence matches {0..1} matches {
    CV[at0024] occurrences matches {0..1} matches {*} -- CV
  }
}
```

#### 4.1.5 Country B single concept

The *Country B single concept* is represented by CLUSTER class that contains four different ELEMENTS representing the medicinal product properties:

Variable	EN13606 Name	EN13606 Class	Data Type
Country B single concept	Single concept	CLUSTER	-

ADL code:

```
CLUSTER[at0006] occurrences matches {1..1} matches { -- Single concept
  ..
}
```

##### 4.1.5.1 Active ingredient (Country B)

Variable	EN13606 Name	EN13606 Class	Data Type
Active ingredient (Country B)	Active ingredient	ELEMENT	CODED_TEXT

ADL code:

```
ELEMENT[at0007] occurrences matches {1..1} matches { -- Active ingredient
  value matches {
    CODED_TEXT[at0025] occurrences matches {1..1} matches {*} -- CODED_TEXT
  }
}
```

##### 4.1.5.2 Strength of the medicinal product (Country B)

Variable	EN13606 Name	EN13606 Class	Data Type
Strength of the medicinal product (Country B)	Strength of the medicinal product	ELEMENT	RTO

ADL code:

```
ELEMENT[at0008] occurrences matches {1..1} matches { -- Strength of the medicinal
product
  value matches {
    RTO[at0021] occurrences matches {1..1} matches {*} -- RTO
  }
}
```

```

    }
}

```

#### 4.1.5.3 Medicinal product Packaged (Country A)

Variable	EN13606 Name	EN13606 Class	Data Type
Medicinal product Packaged (Country A)	Medicinal product package	ELEMENT	SIMPLE_TEXT

ADL code:

```

ELEMENT[at0009] occurrences matches {1..1} matches { -- Medicinal product package
  value matches {
    SIMPLE_TEXT[at0026] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}

```

#### 4.1.5.4 Pharmaceutical dose form (Country B)

Variable	EN13606 Name	EN13606 Class	Data Type
Pharmaceutical dose form (Country B)	Pharmaceutical dose	ELEMENT	CODED_TEXT

ADL code:

```

ELEMENT[at0010] occurrences matches {1..1} matches { -- Pharmaceutical dose
  value matches {
    CODED_TEXT[at0028] occurrences matches {1..1} matches {*} -- CODED_TEXT
  }
}

```

#### 4.1.6 Brand name of the medicinal product prescribed in Country A

The *Brand name of the medicinal product prescribed in Country A* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Brand name of the medicinal product prescribed in Country A	Brand name	ELEMENT	SIMPLE_TEXT

ADL code:

```

ELEMENT[at0011] occurrences matches {0..1} matches { -- Brand name
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0029] occurrences matches {0..1} matches {*} -- SIMPLE_TEXT
  }
}

```

#### 4.1.7 Route of administration

The *Route of administration* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Route of administration	Route of administration	ELEMENT	CODED_TEXT

ADL code:

```

ELEMENT[at0012] occurrences matches {0..1} matches { -- Route of administration

```



```

value existence matches {0..1} matches {
  CODED_TEXT[at0027] occurrences matches {0..1} matches {*} -- CODED_TEXT
}
}

```

#### 4.1.8 Number of packages

The *Number of packages* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Number of packages	Number of packages	ELEMENT	INT

ADL code:

```

ELEMENT[at0013] occurrences matches {1..1} matches { -- Number of packages
  value matches {
    INT[at0031] occurrences matches {1..1} matches {*} -- INT
  }
}

```

#### 4.1.9 Posology

The *Posology* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Posology	Posology	ELEMENT	SIMPLE_TEXT

ADL code:

```

ELEMENT[at0014] occurrences matches {1..1} matches { -- Posology
  value matches {
    SIMPLE_TEXT[at0034] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}

```

#### 4.1.10 Date of issue of the prescription

The *Date of issue of the prescription* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Date of issue of the prescription	Date of issue of the prescription	ELEMENT	DATE

ADL code:

```

ELEMENT[at0015] occurrences matches {1..1} matches { -- Date of issue of the
prescription
  value matches {
    DATE[at0035] occurrences matches {1..1} matches {*} -- DATE
  }
}

```

#### 4.1.11 Date of beginning of treatment

The *Date of beginning of treatment* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Date of beginning of treatment	Date of beginning of the treatment	ELEMENT	DATE

ADL code:

```
ELEMENT[at0016] occurrences matches {0..1} matches { -- Date of beginning of the
treatment
  value existence matches {0..1} matches {
    DATE[at0036] occurrences matches {0..1} matches {*} -- DATE
  }
}
```

#### 4.1.12 Date of end of treatment

The *Date of end of treatment* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Date of end of treatment	Date of end of treatment	ELEMENT	DATE

ADL code:

```
ELEMENT[at0017] occurrences matches {0..1} matches { -- Date of end of the treatment
  value existence matches {0..1} matches {
    DATE[at0037] occurrences matches {0..1} matches {*} -- DATE
  }
}
```

#### 4.1.13 Instructions to patient

The *Instructions to patient* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Instructions to patient	Instructions to the patient	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0018] occurrences matches {0..1} matches { -- Instructions to the patient
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0038] occurrences matches {0..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 4.1.14 Advise to the dispenser

The *Advise to the dispenser* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Advise to the dispenser	Advise to the dispenser	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0019] occurrences matches {0..1} matches { -- Advise to the dispenser
  value existence matches {0..1} matches {
    SIMPLE_TEXT[at0039] occurrences matches {0..1} matches {*} -- SIMPLE_TEXT
  }
}
```

## 4.2 ePrescription patient data

### 4.2.1 Identification

This information corresponds to the attribute *extract\_id* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
National healthcare patient id	National healthcare patient id	II	II

ADL code:

```
extract_id matches {
  II[at0009] occurrences matches {1..1} matches {*} -- Regional/National Health Id
}
```

### 4.2.2 Full name

This information corresponds to the attribute *name* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Full name	Full name	ENTITY_NAME	-
Given name	Given name	ENTITY_NAME_PART	String
Family name/surname	Family name/surname	ENTITY_NAME_PART	String

ADL code:

```
ENTITY_NAME[at0001] occurrences matches {1..1} matches { -- Patient complete name
  name_part cardinality matches {2..2; ordered; unique} matches {
    ENTITY_NAME_PART[at0002] occurrences matches {1..1} matches { -- Given name
      entity_part_name matches {/.*/}
      name_part_type matches {
        CS[at0006] occurrences matches {1..1} matches { -- CS
          codeValue matches {"GIV"}
          codingSchemeName matches {"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
        }
      }
    }
    ENTITY_NAME_PART[at0003] occurrences matches {1..1} matches { -- Family
name/Surname
      entity_part_name matches {/.*/}
      name_part_type matches {
        CS[at0007] occurrences matches {1..1} matches { -- CS
          codeValue matches {"FAM"}
          codingSchemeName matches {"CEN/TC251/EN13606-1:ENTITY_NAME_PART"}
        }
      }
    }
  }
}
```

### 4.2.3 Date of birth

This information corresponds to the attribute *birth\_time* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Date of birth	Date of birth	TS	TS

ADL code:

```
birth_time matches {
  TS[at0005] occurrences matches {1..1} matches {*} -- Birth date
}
```

#### 4.2.4 Gender

This information corresponds to the attribute *administrative\_gender\_code* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Gender code	Gender code	CS	CS

ADL code:

```
administrative_gender_code matches {
  CS[at0004] occurrences matches {0..1} matches { -- Gender
    codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:SUBJECT_OF_CARE_PERSON_IDENTIFICATION"}
    codeValue existence matches {0..1} matches {"0","1","2","9"}
  }
}
```

#### 4.2.5 Social/Insurance number

This information corresponds to the attribute *id* of the *SUBJECT\_OF\_CARE\_PERSON\_IDENTIFICATION* class of the demographic package.

Variable	EN13606 Name	EN13606 Class	Data Type
Insurance number	Insurance number	SUBJECT_OF_CARE_PERSON_IDENTIFICATION.id	II

ADL code:

```
id existence matches {0..1} cardinality matches {0..1; unordered; unique} matches {
  II[at0008] occurrences matches {0..1} matches {*} -- Social/Insurance number
}
```

### 4.3 HCP prescriber identification data

The HCP prescriber identification data is represented by a CEN-DEMOGRAPHIC-IDENTIFIED\_HEALTHCARE\_PROFESSIONAL class of the demographic package.

#### 4.3.1 HCP prescriber name

The *HCP prescriber name* is represented by an ENTITY\_NAME class of the attribute *<name>* of the main HCP Prescriber identification data class. This includes two different parts for the name and the surname:

##### 4.3.1.1 Given name

This information corresponds to an ENTITY\_NAME\_PART class.

Variable	EN13606 Name	EN13606 Class	Data Type
Given name	Given name	ENTITY_NAME_PART	String

ADL code:

```
ENTITY_NAME_PART[at0003] occurrences matches {1..1} matches { -- Given name
  entity_part_name matches {/.*/}
  name_part_type matches {
    CS[at0024] occurrences matches {0..1} matches { -- CS
      codeValue existence matches {0..1} matches {"GIV"}
      codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:ENTITY_NAME_PART"}
    }
  }
}
```

#### 4.3.1.2 Family name/surname

This information corresponds to an ENTITY\_NAME\_PART class.

Variable	EN13606 Name	EN13606 Class	Data Type
Family name/surname	Family name/Surname	ENTITY_NAME_PART	String

ADL code:

```
ENTITY_NAME_PART[at0004] occurrences matches {1..1} matches { -- Family name/Surname
  entity_part_name matches {/.*/}
  name_part_type matches {
    CS[at0025] occurrences matches {0..1} matches { -- CS
      codeValue existence matches {0..1} matches {"FAM"}
      codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:ENTITY_NAME_PART"}
    }
  }
}
```

#### 4.3.2 HCP Id number

The *HCP Id number* is represented by the attribute <extract\_id> of the main HCP Prescriber identification data class.

Variable	EN13606 Name	EN13606 Class	Data Type
HCP Id number	HCP Id number	II	II

ADL code:

```
extract_id matches {
  II[at0014] occurrences matches {1..1} matches {*} -- HCP Id number
}
```

#### 4.3.3 Prescriber organization and role

This information is represented by a HEALTHCARE\_PROFESSIONAL\_ROLE class, which includes the role of the prescriber (profession and speciality) and the organization where this role is performed.

##### 4.3.3.1 Prescriber organization

This information corresponds to the class ORGANISATION of the attribute <scoping\_organisation>.

Variable	EN13606 Name	EN13606 Class	Data Type
Prescriber organization	Prescriber organization	ORGANISATION	II

ADL code:

```
scoping_organisation existence matches {0..1} matches {
  ORGANISATION[at0006] occurrences matches {0..1} matches { -- Prescriber organization
    name matches {/.*/}
    id existence matches {0..1} cardinality matches {0..1; unordered; unique}
  matches {
    II[at0017] occurrences matches {0..*} matches {*} -- II
  }
}
```

#### 4.3.3.2 Profession

This information corresponds to the attribute *<profession>* of the main HCP Prescriber identification data class.

Variable	EN13606 Name	EN13606 Class	Data Type
Profession	-	CV	CV

ADL code:

```
profession matches {
  CV[at0015] occurrences matches {1..1} matches {*} -- CV
}
```

#### 4.3.3.3 Speciality

This information corresponds to the attribute *<speciality>* of the main HCP Prescriber identification data class.

Variable	EN13606 Name	EN13606 Class	Data Type
Speciality	-	CV	CV

ADL code:

```
speciality existence matches {0..1} matches {
  CV[at0016] occurrences matches {0..1} matches {*} -- CV
}
```

### 4.3.4 Prescriber facility address

The *Prescriber facility address* is represented by a POSTAL\_ADDRESS class in the *<addr>* attribute of the main HCP Prescriber identification data class.

#### 4.3.4.1 Prescriber facility address

Variable	EN13606 Name	EN13606 Class	Data Type
Prescriber facility address	Prescriber facility address	POSTAL_ADDRESS	-
Street address	Street address	POSTAL_ADDRESS_PART	String
City	City	POSTAL_ADDRESS_PART	String
State or Province	State or Province	POSTAL_ADDRESS_PART	String
Country	Country	POSTAL_ADDRESS_PART	String
ZIP or Postal code	-	POSTAL_ADDRESS.postal_code	String

ADL code:

```

addr cardinality matches {1..1; unordered; unique} matches {
  POSTAL_ADDRESS[at0007] occurrences matches {1..1} matches { -- Prescriber facility
address
  addr_part cardinality matches {1..5; ordered; unique} matches {
    POSTAL_ADDRESS_PART[at0008] occurrences matches {0..1} matches { -- Street
address
    address_line matches {/.*/}
    address_line_type existence matches {0..1} matches {
      CS[at0018] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"SAL"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
    }
  }
  POSTAL_ADDRESS_PART[at0009] occurrences matches {0..1} matches { -- City
    address_line matches {/.*/}
    address_line_type existence matches {0..1} matches {
      CS[at0019] occurrences matches {0..1} matches { -- CS
        codeValue existence matches {0..1} matches {"CTY"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
    }
  }
  POSTAL_ADDRESS_PART[at0010] occurrences matches {0..1} matches { -- State
or Province
    address_line matches {/.*/}
    address_line_type existence matches {0..1} matches {
      CS[at0020] occurrences matches {0..1} matches { --
        codeValue existence matches {0..1} matches {"STA"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
    }
  }
  POSTAL_ADDRESS_PART[at0012] occurrences matches {1..1} matches { -- Country
    address_line_type matches {
      CS[at0013] occurrences matches {1..1} matches { -- CS
        codeValue matches {"CNT"}
        codingSchemeName existence matches {0..1} matches
{"CEN/TC251/EN13606-1:POSTAL_ADDRESS_PART"}
    }
    address_line matches {/.*/}
  }
  postal_code existence matches {0..1} matches {/.*/}
  address_use existence matches {0..1} cardinality matches {0..1; unordered;
unique} matches {
    CS[at0021] occurrences matches {0..*} matches { -- CS
      codeValue existence matches {0..1} matches {"WP"}
      codingSchemeName existence matches {0..1} matches {"CEN/TC251/EN13606-
1:POSTAL_ADDRESS"}
    }
  }
}

```

#### 4.3.4.2 Telephone number

The *Telephone number* is represented by a TELECOM class in the <telecom> attribute of the main HCP Prescriber identification data class.

Variable	EN13606 Name	EN13606 Class	Data Type
Telephone number	Telephone	TELECOM	URI

ADL code:

```

telecom existence matches {0..1} cardinality matches {0..1; unordered; unique} matches {
  TELECOM[at0022] occurrences matches {0..1} matches { -- Contact information

```

```
        telecom_address matches {  
            URI[at0023] occurrences matches {0..1} matches {*} -- Telephone  
        }  
    }  
}
```



## 5. Mapping of epSOS Dispensed Medicine specifications

### 5.1 Dispensed medicine data

The Dispensed Medicine data (eDispensation) is represented by a COMPOSITION class. An ENTRY with the name “Dispensed medicine data” has been created as content of the COMPOSITION. This ENTRY will contain all the specific clinical data described in the following sections.

#### 5.1.1 Dispensed medicine Id

The *Dispensed medicine Id* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Dispensed medicine Id	Dispensed medicine ID	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0002] occurrences matches {1..1} matches { -- Dispensed medicine ID
  value matches {
    SIMPLE_TEXT[at0016] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 5.1.2 Prescription Id

The *Prescription Id* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Prescription Id	Prescription ID	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0003] occurrences matches {1..1} matches { -- Prescription ID
  value matches {
    SIMPLE_TEXT[at0017] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 5.1.3 Prescription item Id

The *Prescription Item Id* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Prescription item Id	Prescription item ID	ELEMENT	SIMPLE_TEXT

ADL code:

```
ELEMENT[at0004] occurrences matches {1..1} matches { -- Prescription item ID
  value matches {
    SIMPLE_TEXT[at0018] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}
```

#### 5.1.4 Country A single concept

The *Country A single concept* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Country A single concept	Single concept	ELEMENT	CODED_TEXT

ADL code:

```

ELEMENT[at0005] occurrences matches {1..1} matches { -- Single concept
  value matches {
    CODED_TEXT[at0019] occurrences matches {1..1} matches {*} -- CODED_TEXT
  }
}

```

### 5.1.5 Country B cross-border/regional/national medicinal product code

The *Country B cross-border/regional/national medicinal product code* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Country B cross-border/regional/national medicinal product code	Medicinal product code	ELEMENT	CV

ADL code:

```

ELEMENT[at0006] occurrences matches {0..1} matches { -- Medicinal product code
  value existence matches {0..1} matches {
    CV[at0020] occurrences matches {0..1} matches {*} -- CV
  }
}

```

### 5.1.6 Original dispensed medicine information in country B

The *Original dispensed medicine information in country B* is represented by a CLUSTER structure that contains the different ELEMENTs for representing the information about the dispensed medicine.

Variable	EN13606 Name	EN13606 Class	Data Type
Original dispensed medicine information in country B	Original dispensed medicine	CLUSTER	-

ADL code:

```

CLUSTER[at0007] occurrences matches {1..1} matches { -- Original dispensed medicine
  information
  ..
}

```

#### 5.1.6.1 Name of the medicinal product dispensed (brand name or generic)

This information is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Name of the medicinal product dispensed (brand name or generic)	Name of the medicinal product dispensed	ELEMENT	SIMPLE_TEXT

ADL code:

```

ELEMENT[at0008] occurrences matches {1..1} matches { -- Name of the medicinal product
dispensed
  value matches {
    SIMPLE_TEXT[at0021] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}

```

#### 5.1.6.2 Strength of the medicinal product

This information is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Strength of the medicinal product	Strength of the medicinal product	ELEMENT	RTO

ADL code:

```

ELEMENT[at0009] occurrences matches {1..1} matches { -- Strength of the medicinal
product
  value matches {
    RTO[at0022] occurrences matches {1..1} matches {*} -- RTO
  }
}

```

#### 5.1.6.3 Medicinal product package

This information is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Medicinal product package	Medicinal product package	ELEMENT	SIMPLE_TEXT

ADL code:

```

ELEMENT[at0010] occurrences matches {1..1} matches { -- Medicinal product package
  value matches {
    SIMPLE_TEXT[at0023] occurrences matches {1..1} matches {*} -- SIMPLE_TEXT
  }
}

```

#### 5.1.6.4 Pharmaceutical dose form

This information is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Pharmaceutical dose form	Pharmaceutical dose form	ELEMENT	CODED_TEXT

ADL code:

```

ELEMENT[at0011] occurrences matches {1..1} matches { -- Pharmaceutical dose form
  value matches {
    CODED_TEXT[at0024] occurrences matches {1..1} matches {*} -- CODED_TEXT
  }
}

```

### 5.1.7 Route of administration

The *Route of administration* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Route of administration	Route of administration	ELEMENT	CODED_TEXT

ADL code:

```
ELEMENT[at0012] occurrences matches {0..1} matches { -- Route of administration
  value existence matches {0..1} matches {
    CODED_TEXT[at0025] occurrences matches {0..1} matches {*} -- CODED_TEXT
  }
}
```

### 5.1.8 Number of packages

The *Number of packages* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Number of packages	Number of packages	ELEMENT	INT

ADL code:

```
ELEMENT[at0013] occurrences matches {1..1} matches { -- Number of packages
  value matches {
    INT[at0026] occurrences matches {1..1} matches {*} -- INT
  }
}
```

### 5.1.9 Date of the dispensed medicine event

The *Date of the dispensed medicine event* is represented by an ELEMENT class.

Variable	EN13606 Name	EN13606 Class	Data Type
Date of the dispensed medicine event	Date of the dispensed medicine event	ELEMENT	DATE

ADL code:

```
ELEMENT[at0014] occurrences matches {1..1} matches { -- Date of dispensation
  value matches {
    DATE[at0027] occurrences matches {1..1} matches {*} -- DATE
  }
}
```

### 5.1.10 Substitution

The *Substitution* is represented by an ELEMENT class:

Variable	EN13606 Name	EN13606 Class	Data Type
Substitution	Substitution	ELEMENT	BL

ADL code:

```
ELEMENT[at0015] occurrences matches {0..1} matches { -- Substitution
  value existence matches {0..1} matches {
    BL[at0028] occurrences matches {0..1} matches {*} -- BL
  }
}
```

## **5.2   Dispensed medicine patient identification**

The **Dispensed medicine patient identification** data follows the same definition as the **ePrescription patient data**. Although the “Date of Births” and “Gender” were not included in this data set, they have been added for homogeneity. Please refer to the ePrescription patient data definition for more information.

## **5.3   HCP dispenser identification data**

The **HCP dispenser identification data** follows the same definition as the **HCP prescriber identification data**. Please refer to that section of the document for more information.