

TECHNICAL DOCUMENT

French proposal to G8 SP6 Health Card meeting

Chicago 1999/05/13-14

<i>International Emergency data set – French Proposal</i>	
<i>Technical document</i>	Réf. : G8HC-EXT-001
<i>French proposal to G8 SP6 Health Card meeting</i>	

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1. Executive summary

The G7 Health Card data set has been published in 1996. Since that date, several experiences have improved the knowledge and understanding of the use of health cards at an international level.

This document includes the French proposal to revise the G7 Health Card data set. This contribution is complementary to the NETLINK one as :

- it includes elements that have not been discussed within NETLINK (proposal on medical topics)
- or it includes elements for which it has been decided within NETLINK that they would be submitted as a French contribution («clean» ASN.1 structures).

1.1. Differences between the French proposal and the NETLINK proposal

In comparison to the NETLINK proposal, the French contribution includes additional elements that focus mainly on clinical data. This contribution is summarised in the following paragraphs, details about this contribution can be found in the referenced chapters.

1.1.1. In the administrative data set :

Details about the proposed revisions are in the chapter 5 « G8 HC administrative data set ».

The country of birth shall not be required.

1.1.2. In the clinical data set :

Details about the proposed revisions are in the chapters « 4 French clinical data set requirements », « 6 G8 HC clinical data set » and « 7 Code tables ».

1. A data group shall always be associated with an entry date and an author, these objects have been added to the following data objects :

BloodGroup, BloodTransfusion, Implants, Pregnancy (entry date only)

2. Use international code or extract of international code :

a new version of the table for clinical categories which is an extract of ICD 10 (table 7.1),

a table of implant which is an extract of ICD 10 (table 7.2).

3. Data on blood group and transfusion have been revised and restructured :

Rare blood group data object has been added

Irregular antibody data object has been added

Index has been added

Entry and author associated to each categories of data : blood group, transfusion and Irregular antibody)

4. Immunisation group has been revised

Immunisation categories are proposed to be coded as antigen,

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"Contra-indication" is added in the immunisation status.

5. The « Author » data object has been revised :

The identifier of an author shall be coded as a string,

In this data object, the identifier shall be mandatory.

6. Allergies are proposed to be implemented in a new data object.

7. Two major modifications are proposed in the NETLINK data set : adding index pointers to databases that can be access through a network and a more indicator to indicate that it exists more data than the card can contain. This modification has been included in the data set proposed by NETLINK using new code values in code tables, new data objects, and management rules describing how to use these new elements.

In this proposal we describe how to implement this major modification using ASN.1 syntactical rules instead of management rules :

thus a new data object « Index » has been created,

concerned data group are : CodedClinicalDetail, ImmunisationDetails, MedicationDetails, Implants
(where more and index has been added)

these syntactical rules have been apply to the data objects added in the French proposal.

1.2. Document content

This documents is composed of 9 chapters.

Chapter 1 « Executive summary » is this chapter.

Chapter 2 « References » provides the bibliographic references useful for this document.

Chapter 3 « Glossary » contains a glossary of the abbreviations and terms used in this document.

Chapter 4 « French clinical data set requirements » describes the requirements for the interoperable clinical data set.

Chapter 5 « G8 HC administrative data set » proposes some modification to the administrative data set proposed by NETLINK.

Chapter 6 « G8 HC clinical data set, ANS.1 syntax » provides a new redaction in ASN.1 of the clinical data set proposed by NETLINK, included the French requirements. This chapter is composed of three parts :

- the first part contains the proposed clinical data set in ASN.1,
- the second part gives the comparison between the NETLINK and the French contribution,
- the last part develops the proposed data set.

Chapter 7 « Code tables » provides the French proposal for revised table of codes.

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2. References

Reference	Title	Internal reference
[EUG7P3]	EU/G7 Healthcards - WG7 Interoperability of Healthcard Systems - Part 3 Interoperability Specification	
[NETD2]	NETLINK Requirements for Interoperability - Deliverable 2	

3. Glossary

HC Health Card

4. French clinical data set requirements

This chapter describes the French proposed revisions of the NETLINK data set[NETD2]. This description is limited to the clinical data.

This chapter is composed of two parts : the general requirements and the data requirements.

4.1. General requirements

An indicator have to be associated to each repetitive data group to indicate that there are more data than the card can contain.

4.2. Data requirements

The data requirements are described in a three columns table. First column contains the name of the data groups and sub-groups, the second column the entities of the group, the last column contains the comments.

Underlined data objects are proposed to be changed or to be added to the NETLINK data set proposal.

Data Group	Attributes	Comments
Chronicle Diseases		Set of chronicle diseases. This group is present every time a diagnosis is registered. Since the card memory has limitations a tag should be set when there are more diagnosis than the card could register .
	<u>Diagnosis</u>	<u>International four characters ICD10 extract or subset see table 7.1.</u>
	Author	Identification of the practitioner who has registered the diagnosis.
	Date	Date on which this entry was made (or changed).

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Data Group	Attributes	Comments
Blood Data	Blood Group <u>Group</u> <u>Rhesus</u> <u>Rare Blood Group</u> <u>Rare Blood Group Pointer</u> <u>Group Author</u> <u>Group date</u> <u>Antibody</u> <u>Irregular Antibody</u> <u>Antibody author</u> <u>Antibody date</u> <u>Index</u> <u>Index</u>	Blood Group, Rhesus and irregular antibody. This group is present only once. A, O, B, AB Rh-, Rh+. Blood group and Rhesus combination contains at most 8 values. Since the Rhesus and the blood group are determined in the same operation, both of them should be digitised on the same set of digits. The European pre-standard should be applied (i.e Health Informatics - Blood Transfusion Related Messages. Part 1: Patient Related Messages). <u>Indication of a rare blood group (yes/no), not used with group and rhesus</u> <u>To indicate where blood of this rare blood group (or patient's blood) can be found, not used with group and rhesus. The type of this pointer has to be agreed on : postal address, server address, electronic mail, contact...</u> Identification of the practitioner who has registered the group and the Rhesus Date on which this entry was made (or changed). <u>Irregular antibody determination and issue (presence or absence of agglutinins).</u> <u>Identification of the practitioner who has registered irregular antibodies).</u> <u>Date on which this entry was made (or changed).</u> <u>This pointer gives an address to a server where get any complementary blood information.</u>
		Set of Immunisation Identifiers. This group is present every time an immunisation is registered. Since the card memory has limitations a tag should be set when there are more immunisations than the card could register.
		<u>see (antigen list)</u>
		Immunisation status : first dose of course, second dose of course, third dose of course, completed course, Booster, contra-indication
		Date of last immunisation.
		<u>Date of the next immunisation</u>
		Identification of the practitioner who registered/prescribed the immunisation
		Date on which this entry was made (or changed).

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Data Group	Attributes	Comments
Medication details	<u>Category</u> <u>Author</u> <u>Date of prescription</u>	Set of medications. This group is present every time a medication is registered. Since the card memory has limitations a tag should be set when there are more medications than the card could register <u>Medication category to be worked out.</u> Identification of the practitioner who registered the prescription. Last date on which this medication has been prescribed
Pregnancy	<u>Date</u> <u>EntryDate</u> <u>Author</u>	Pregnancy Status Date of last menstruation before pregnancy diagnosis <u>Date on which this entry was made (or changed).</u> Identification of the practitioner who registered the pregnancy
<u>Allergy</u>	<u>Allergen</u> <u>Date</u> <u>Author</u> <u>Index</u>	<u>Set of allergies. This group is present every time an allergy is registered. Since the card memory has limitations a tag should be set when there are more allergens than the card can register</u> <u>5 categories of allergen : hymenoptera, latex, drugs, food, idiopathic.</u> <u>See proposed allergen table</u> <u>Date on which this entry was made (or changed).</u> <u>Identification of the practitioner who registered the allergen.</u> <u>This pointer gives an address to a server where get any complementary allergy information.</u>

5. G8 HC administrative data set

In this data set, the ‘CountryOfBirth’ data object shall be optional because in France this data is not used in France and regulation rules forbid to use it as part of identification for health care use.

6. G8 HC clinical data set, ASN.1 syntax

This chapter describes the G8 HC data set using ASN.1 syntax. This data set is based on the data set proposed by NETLINK [NETD2], French requirements presented previously are included in this data set.

Two major modifications are proposed by NETLINK : adding index pointers to databases that can be access through a network and a more indicator to indicate that it exists more data than the card can contain. This modification have been included in the data set proposed by NETLINK using new code values in code tables, a new data object and management rules describing how to use these new elements.

The analysis of these evolutions shows that it is possible to replace the new code values and the management rules with the ASN.1 syntax rules. Thus, the data set has been rewrite accordingly.

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This chapter is composed of three parts :

- the first one provides the clinical data set in ASN.1,
- the second one gives the differences between this data set and NETLINK clinical data set [NETD2] and the original G7 clinical data set [EUG7P3],
- the last one develops the proposed data set to show the data structure.

6.1. Interoperability ASN.1 data set

In this data set, the tag of a data object is the same tag that the object had in the NETLINK data set proposal, when it is possible.

clinicalData ::= SET

```
{
ClinicalDetails [0] IMPLICIT SET OF CodedClinicalDetails OPTIONAL,
bloodGroupTransfusionDetails [1] IMPLICIT BloodGroupTransfusionDetails OPTIONAL,
immunisationDetails [2] IMPLICIT SET OF ImmunisationDetails OPTIONAL,
medicationDetails [3] IMPLICIT SET OF MedicationDetails OPTIONAL,
clinicalAddressDetails [4] IMPLICIT SET OF ClinicalAddressDetails OPTIONAL,
opticalPrescriptionDetails [5] IMPLICIT OpticalPrescriptionDetails OPTIONAL,
updateDetails [6] IMPLICIT UpdateDetails OPTIONAL
implants [7] IMPLICIT SET of Implants OPTIONAL,
PregnancyDetails [8] IMPLICIT Pregnancy OPTIONAL
Allergies [9] IMPLICIT SET OF Allergy OPTIONAL,
}
```

CodedClinicalDetail ::= SET

```
{
choicecodedclinicaldetail ChoiceCodedClinicalDetail,
clinicalEntryDate [5] IMPLICIT Date OPTIONAL,
clinicalAuthor [6] IMPLICIT Author OPTIONAL
}
```

ChoiceCodedClinicalDetail ::= CHOICE

```
{
clinicalcategoryrelated [D] IMPLICIT ClinicalCategoryRelated,
IndexClinicalDetail [7] IMPLICIT Index,
MoreClinicalDetail [8] IMPLICIT BOOLEAN
}
```

ClinicalCategoryRelated ::= SET

```
{
clinicalEmergencyCategory [0] IMPLICIT NUMERIC STRING (SIZE(1..4)),
clinicalIndicator [1] IMPLICIT ENUMERATED {Absent(0), Present(1), Possible(2)},
clinicalCodingStructure [2] IMPLICIT ClinicalCodingStructure OPTIONAL,
clinicalDate [3] IMPLICIT Date OPTIONAL,
clinicalText [4] IMPLICIT OCTET STRING (SIZE (0...80)) OPTIONAL,
}
```

ClinicalCodingStructure ::= SET

```
{
codingSchemeIdentifier [0] IMPLICIT OCTET STRING (SIZE (6)),
clinicalCode [1] IMPLICIT OCTET STRING (SIZE (0...8))
}
```

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BloodGroupTransfusionDetails ::= SET

```
{
bloodGroup [0] IMPLICIT BloodGroup,
bloodTransfusion [1] IMPLICIT BloodTransfusion OPTIONAL,
irregularantibodygroup [4] IMPLICIT IrregularAntiBodyGroup OPTIONAL,
IndexBlood [7] IMPLICIT Index OPTIONAL
}
```

BloodGroup ::= SET

```
{
bloodgroupchoice BloodGroupChoice,
dateOfLastBloodGrouping [2] IMPLICIT Date OPTIONAL,
bloodGroupingText [3] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL,
bloodGroupEntryDate [4] IMPLICIT Date OPTIONAL,
bloodGroupAuthor [5] IMPLICIT Author OPTIONAL
}
```

BloodGroupChoice ::= Choice

```
{
abogroup [0] IMPLICIT ABOGroup,
raregroup [6] IMPLICIT RareGroup
}
```

ABOGroup ::= SET

```
{
ABOBloodGroup [0] IMPLICIT OCTET STRING (SIZE (1...2)),
rhesusFactor [1] IMPLICIT OCTET STRING (SIZE (1))
}
```

RareGroup ::= SET

```
{
rarebloodgrouppointer [0] IMPLICIT RareBloodGroupPointer
}
```

BloodTransfusion ::= SET

```
{
bloodTransfusionIndicator [0] IMPLICIT ENUMERATED {Never(0), One or more (1), Unknown(2)},
lastBloodTransfusionDate [1] IMPLICIT Date OPTIONAL,
BloodTransfusionEntryDate [2] IMPLICIT Date OPTIONAL,
BloodTransfusionAuthor [4] IMPLICIT Author OPTIONAL
}
```

IrregularAntiBodyGroup ::= SET

```
{
IrregularAntiBody [0] IMPLICIT Boolean,
IrregularAntiBodyEntryDate [1] IMPLICIT Date OPTIONAL,
AntiBodyAuthor [2] IMPLICIT Author OPTIONAL
}
```

ImmunisationDetails ::= SET

```
{
choiceimmunisationdetail ChoiceImmunisationDetail,
immunisationEntryDate [6] IMPLICIT Date OPTIONAL,
ImmunisationAuthor [7] IMPLICIT Author OPTIONAL
}
```

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ChoiceImmunisationDetail ::= CHOICE

```
{
  antigenrelated [D] IMPLICIT AntigenRelated,
  IndexImmunisation [8] IMPLICIT Index,
  MoreImmunisation [B] IMPLICIT BOOLEAN
}
```

AntigenRelated ::= SET

```
{
  immunisationEmergencyCategory [0] IMPLICIT NUMERIC STRING (SIZE(2)),
  immunisationIndicator [1] IMPLICIT ENUMERATED
    {Never(0), One or more(1), Unknown(2), Adverse reaction(4)},
  immunisationStatus [2] IMPLICIT ENUMERATED
    {Unspecified(0), First dose(1), Second dose(2), Third dose(3), Completed
course(4), Booster(5), Contra-indication(6), Not supported(9)},
  lastDateImmunised [3] IMPLICIT Date OPTIONAL,
  immunisationCodingStructure [4] IMPLICIT ClinicalCodingStructure OPTIONAL,
  immunisationText [5] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL,
  vaccinBatchNumber [9] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL,
  NextDateImmunised [A] IMPLICIT Date OPTIONAL
}
```

MedicationDetails ::= SET

```
{
  choicemedicationdetail ChoiceMedicationDetail,
  medicationEntryDate [8] IMPLICIT Date OPTIONAL,
  medicationAuthor [9] IMPLICIT Author OPTIONAL
}
```

ChoiceMedicationDetail ::= SET

```
{
  medicationemergencyrelated [E] IMPLICIT MedicationEmergencyRelated,
  IndexMedication [A] IMPLICIT Index,
  MoreMedication [D] IMPLICIT BOOLEAN
}
```

MedicationEmergencyRelated ::= SET

```
{
  medicationEmergencyCategory [0] IMPLICIT NUMERIC STRING (SIZE(2)),
  medicationIndicator [1] IMPLICIT ENUMERATED
    {Absent(0), One or more(1), Unknown(2), Past or short term(5), Intermittent(6)},
  medicationCodingStructure [2] IMPLICIT SET SIZE (0...6) OF ClinicalCodingStructure OPTIONAL,
  medicationDrugName [3] IMPLICIT OCTET STRING (SIZE (0...50)) OPTIONAL,
  medicationDosageCode [4] IMPLICIT SET SIZE (0...4) OF OCTET STRING (SIZE (0...2))
    OPTIONAL,
  medicationDosage [5] IMPLICIT OCTET STRING (SIZE (0...50)) OPTIONAL,
  medicationStartedDate [6] IMPLICIT Date OPTIONAL,
  medicationEndedDate [7] IMPLICIT Date OPTIONAL
  amountAuthorisedRenewals [B] IMPLICIT NUMERIC STRING (SIZE(2)) OPTIONAL,
  PrescriptionDate [C] IMPLICIT Date,
}
```

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ClinicalAddressDetails ::= SET

```
{
  clinicalAddressName      [0] IMPLICIT OCTET STRING (SIZE (0...30)),
  clinicalAddressRelationship [1] IMPLICIT OCTET STRING (SIZE (0...16)) OPTIONAL,
  clinicalAddressStructure   [2] IMPLICIT AddressStructure OPTIONAL,
  clinicalTelecomStructure    [3] IMPLICIT TelecomStructure OPTIONAL
}
```

OpticalPrescriptionDetails ::= SET

```
{
  opticalPrescription      [0] IMPLICIT OCTET STRING (SIZE (0...40)),
  opticalPrescriptionDate    [1] IMPLICIT Date OPTIONAL
}
```

UpdateDetails ::= SET

```
{
  dateOfLastClinicalUpdate [0] IMPLICIT Date,
  responsibleParty        [1] IMPLICIT Author OPTIONAL
}
```

Author ::= SET

```
{
  authorCountry            [0] IMPLICIT NUMERIC STRING (SIZE(3)) OPTIONAL, -- Coded according to
                           ISO 3166
  authorIdentifier         [1] IMPLICIT STRING (SIZE(0...12)),
  authorName               [2] IMPLICIT OCTET STRING (SIZE (0...20)) OPTIONAL,
}
```

Implants ::= SET

```
{
  choiceimplant           ChoiceImplant,
  implantEntryDate        [1] IMPLICIT Date OPTIONAL,
  implantAuthor            [2] IMPLICIT Author OPTIONAL
}
```

ChoiceImplant ::= SET

```
{
  implantCategory          [0] IMPLICIT NUMERIC STRING (SIZE(2)),
  IndexImplant             [3] IMPLICIT Index,
  MoreImplant              [4] IMPLICIT Boolean
}
```

Pregnancy ::= SET

```
{
  PregnancyDate            [0] IMPLICIT Date,
  PregnancyEntryDate       [2] IMPLICIT Date OPTIONAL,
  PregnancyAuthor          [1] IMPLICIT Author OPTIONAL
}
```

Allergy ::= SET

```
{
  choiceallergy            ChoiceAllergy,
  AllergyEntryDate         [5] IMPLICIT Date OPTIONAL,
  AllergyAuthor             [6] IMPLICIT Author OPTIONAL
}
```

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ChoiceAllergy ::= CHOICE

```
{  
    Allergen          [0] IMPLICIT OCTET STRING,  
    IndexAllergy      [7] IMPLICIT Index,  
    MoreAllergy       [8] IMPLICIT BOOLEAN  
}
```

Index ::= SET

```
{  
    IndexAddress     [0] IMPLICIT OCTET STRING (SIZE(0..35))  
    IndexNumber      [1] IMPLICIT OCTET STRING (SIZE(0..40))  
}
```

AddressStructure ::= SET

```
{  
    addressText       [0] IMPLICIT SEQUENCE (SIZE (1..5)) OF OCTET STRING (SIZE (0..35))  
    addressPostcode   [1] IMPLICIT OCTET STRING (SIZE (0..8)) OPTIONAL,  
    addressCountry    [2] IMPLICIT NUMERIC STRING (SIZE (3)) OPTIONAL  
}
```

TelecomStructure ::= SET

```
{  
    telephoneNumber  [0] IMPLICIT SEQUENCE (SIZE (0...3)) OF NUMERIC STRING  
                      (SIZE(0...16)) OPTIONAL,  
    facsimileNumber  [1] IMPLICIT NUMERIC STRING (SIZE(0...16)) OPTIONAL,  
    networkAddress    [2] IMPLICIT OCTET STRING (SIZE (0...32)) OPTIONAL  
}
```

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6.2. Comparison between the NETLINK and French contributions

Single underlined elements have been added or updated in the NETLINK proposal (comparison between NETLINK and G7 clinical data sets), double underline elements have been added or updated in this French proposal ; crossed out elements have been deleted or moved.

Interoperability ASN.1 data set	Revision marks
<pre> <u>clinicalData ::= SET</u> { <u>CodedClinicalDetails</u> [0] <u>IMPLICIT SET OF SIZE (1...99)</u> CodedClinicalDetails <u>OPTIONAL</u>, <u>bloodGroupTransfusionDetails</u> [1] <u>IMPLICIT BloodGroupTransfusionDetails OPTIONAL</u>, <u>immunisationDetails</u> [2] <u>IMPLICIT SET OF SIZE (0...10)</u> ImmunisationDetails <u>OPTIONAL</u>, <u>medicationDetails</u> [3] <u>IMPLICIT SET OF SIZE (1...30)</u> MedicationDetails <u>OPTIONAL</u>, <u>clinicalAddressDetails</u> [4] <u>IMPLICIT SET OF SIZE (0...9)</u> ClinicalAddressDetails <u>OPTIONAL</u>, <u>opticalPrescriptionDetails</u> [5] <u>IMPLICIT OpticalPrescriptionDetails OPTIONAL</u>, <u>updateDetails</u> [6] <u>IMPLICIT UpdateDetails OPTIONAL</u>, <u>implants</u> [7] <u>IMPLICIT SET of Implants OPTIONAL</u>, <u>PregnancyDetails</u> [8] <u>IMPLICIT Pregnancy OPTIONAL</u> <u>Allergies</u> [9] <u>IMPLICIT SET OF Allergy OPTIONAL</u>. } </pre>	<p>Shall be optional because not used in France Added in the NETLINK proposal Added in the NETLINK proposal Added in the French proposal</p>
<pre> <u>CodedClinicalDetail ::= SET</u> { <u>choicecodedclinicaldetail</u> ChoiceCodedClinicalDetail, <u>clinicalEntryDate</u> [5] <u>IMPLICIT Date OPTIONAL</u>, <u>clinicalAuthor</u> [6] <u>IMPLICIT Author OPTIONAL</u> } </pre>	<p>Restructured data object using ASN.1 syntactical rules to implement management rules</p>

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Interoperability ASN.1 data set	Revision marks
<u>ChoiceCodedClinicalDetail ::= CHOICE</u> { <u>clinicalcategoryrelated</u> [D] IMPLICIT ClinicalCategoryRelated, <u>IndexClinicalDetail</u> [7] IMPLICIT Index, <u>MoreClinicalDetail</u> [8] IMPLICIT BOOLEAN }	Added in the French proposal
ClinicalCategoryRelated ::= SET { <u>clinicalEmergencyCategory</u> [0] IMPLICIT NUMERIC STRING (SIZE(1..4)) (SIZE(2)), <u>clinicalIndicator</u> [1] IMPLICIT ENUMERATED {Absent(0), Present(1), Possible(2), <u>Index(7)</u> , <u>Not recorded(8)</u> , <u>Not supported(9)</u> }, <u>clinicalCodingStructure</u> [2] IMPLICIT ClinicalCodingStructure OPTIONAL, <u>clinicalDate</u> [3] IMPLICIT Date OPTIONAL, <u>clinicalText</u> [4] IMPLICIT OCTET STRING (SIZE (0...80)) OPTIONAL, <u>clinicalEntryDate</u> [5] IMPLICIT Date OPTIONAL, <u>clinicalAuthor</u> [6] IMPLICIT Author OPTIONAL <u>indexNumber</u> [7] IMPLICIT OCTET STRING (SIZE (0..40)) OPTIONAL }	This data object inherit the data attributes of the former ‘CodedClinicalDetail’ data object size change : Category shall be coded with ICD10, see table 7.1 « Index » is included in the « ChoiceCodedClinicalDetail » data object Should be deleted as ‘clinicalEmergencyCategory’ use ICD 10 Used at the upper level ‘CodedClinicalDetail’ Used at the upper level ‘CodedClinicalDetail’ Included in the « ChoiceCodedClinicalDetail » data object
ClinicalCodingStructure ::= SET { <u>codingSchemeIdentifier</u> [0] IMPLICIT OCTET STRING (SIZE (6)), <u>clinicalCode</u> [1] IMPLICIT OCTET STRING (SIZE (0...8))	Should to be deleted as ‘clinicalEmergencyCategory’ use ICD 10

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Interoperability ASN.1 data set	Revision marks
<pre>BloodGroupTransfusionDetails ::= SET { bloodGroup [0] IMPLICIT BloodGroup, bloodTransfusion [1] IMPLICIT BloodTransfusion OPTIONAL, <u>bloodGroupEntryDate</u> [2] IMPLICIT Date OPTIONAL, <u>bloodGroupAuthor</u> [3] IMPLICIT Author OPTIONAL, irregularantibodygroup [4] IMPLICIT IrregularAntiBodyGroup OPTIONAL, IndexBlood [7] IMPLICIT Index OPTIONAL }</pre>	<p>Optional as this data object is not used in France The entry date should be associated with each blood object The author should be associated with each blood object Added in the French proposal Added in the French proposal</p>
<pre>BloodGroup ::= SET { <u>ABOBloodGroup</u> [0] IMPLICIT OCTET STRING (SIZE (1...2)), <u>rhesusFactor</u> [1] IMPLICIT OCTET STRING (SIZE (1)), <u>bloodgroupchoice</u> BloodGroupChoice, dateOfLastBloodGrouping [2] IMPLICIT Date OPTIONAL, bloodGroupingText [3] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL, <u>bloodGroupEntryDate</u> [4] IMPLICIT Date OPTIONAL, <u>bloodGroupAuthor</u> [5] IMPLICIT Author OPTIONAL }</pre>	<p>Restructured data object using ASN.1 syntactical rules to implement management rules Move in the « ABOGroup » data object Move in the « ABOGroup » data object Added in the French proposal Added in the French proposal, date of this entry Added in the French proposal, author of this entry</p>
<pre>BloodGroupChoice ::= Choice { <u>abogroup</u> [0] IMPLICIT ABOGroup, <u>raregroup</u> [6] IMPLICIT RareGroup }</pre>	<p>Added in the French proposal</p>
<pre>ABOGroup ::= SET { ABOBloodGroup [0] IMPLICIT OCTET STRING (SIZE (1...2)), rhesusFactor [1] IMPLICIT OCTET STRING (SIZE (1)) }</pre>	<p>This data object inherit the data attributes of the former ‘BloodGroup’ data object that are not used in the new one. A, B, AB or U (unknown) +, -, or U (unknown)</p>

International Emergency data set – French Proposal

<i>Technical document</i>	Réf. : G8HC-EXT-001
<i>French proposal to G8 SP6 Health Card meeting</i>	

Interoperability ASN.1 data set	Revision marks
RareGroup ::= SET { <u>rarebloodgrouppointer</u> [0] IMPLICIT RareBloodGroupPointer }	Added in the French proposal Pointer to or address where the blood can be find. The type of this data object has to be agreed on.
BloodTransfusion ::= SET { <u>bloodTransfusionIndicator</u> [0] IMPLICIT ENUMERATED {Never(0), One or more (1), Unknown(2), Not recorded(8), Not supported(9)} <u>lastBloodTransfusionDate</u> [1] IMPLICIT Date OPTIONAL, <u>BloodTransfusionEntryDate</u> [2] IMPLICIT Date OPTIONAL, <u>BloodTransfusionAuthor</u> [4] IMPLICIT Author OPTIONAL }	Added in the French proposal, date of this entry Added in the French proposal, author of this entry
IrregularAntiBodyGroup ::= SET { <u>IrregularAntiBody</u> [0] IMPLICIT Boolean, <u>IrregularAntiBodyEntryDate</u> [1] IMPLICIT Date OPTIONAL, <u>AntiBodyAuthor</u> [2] IMPLICIT Author OPTIONAL }	Added in the French proposal Indicate if irregular antibody have been detected Date on which this entry was made (or changed). Author of this entry
ImmunisationDetails ::= SET { <u>choiceimmunisationdetail</u> ChoiceImmunisationDetail, <u>immunisationEntryDate</u> [6] IMPLICIT Date OPTIONAL, <u>ImmunisationAuthor</u> [7] IMPLICIT Author OPTIONAL }	Restructured data object using ASN.1 syntactical rules to implement management rules Date on which this entry was made (or changed). Author of this entry

International Emergency data set – French Proposal

Technical document

Réf. : G8HC-EXT-001

French proposal to G8 SP6 Health Card meeting

Interoperability ASN.1 data set	Revision marks
<u>ChoiceImmunisationDetail ::= CHOICE</u> { <u>antigenrelated</u> [D] IMPLICIT AntigenRelated, <u>IndexImmunisation</u> [8] IMPLICIT Index, <u>MoreImmunisation</u> [B] IMPLICIT BOOLEAN }	Added in the French proposal
<u>AntigenRelated ::= SET</u> { <u>immunisationEmergencyCategory</u> [0] IMPLICIT NUMERIC STRING (SIZE(2)), <u>immunisationIndicator</u> [1] IMPLICIT ENUMERATED {Never(0), One or more(1), Unknown(2), <u>Adverse reaction(4)</u> , <u>Index(7)</u> , <u>Not recorded(8)</u> , <u>Not supported(9)</u> }, <u>immunisationStatus</u> [2] IMPLICIT ENUMERATED {Unspecified(0), First dose(1), Second dose(2), Third dose(3), Completed course(4), Booster(5), <u>Contra-indication(6)</u> , Not supported(9)}, <u>lastDateImmunised</u> [3] IMPLICIT Date OPTIONAL, <u>immunisationCodingStructure</u> [4] IMPLICIT ClinicalCodingStructure OPTIONAL, <u>immunisationText</u> [5] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL <u>immunisationEntryDate</u> [6] IMPLICIT Date OPTIONAL, <u>immunisationAuthor</u> [7] IMPLICIT Author OPTIONAL <u>indexNumber</u> [8] IMPLICIT OCTET STRING (SIZE (0..40)) OPTIONAL <u>vaccinBatchNumber</u> [9] IMPLICIT OCTET STRING (SIZE (0...30)) OPTIONAL <u>NextDateImmunised</u> [A] IMPLICIT Date OPTIONAL }	This data object inherit the data attributes of the former ‘ImmunisationDetail’ data object coded as an antigen « Index » is included in the « ChoiceImmunisationDetail » data object ‘Contra-indication(6)’ added in the French proposal Should be mandatory Moved, data object use at ‘ImmunisationDetails’ level Moved, data object use at ‘ImmunisationDetails’ level Included in « ChoiceImmunisationDetail » data object
<u>MedicationDetails ::= SET</u> { <u>choicemedicationdetail</u> ChoiceMedicationDetail, <u>medicationEntryDate</u> [8] IMPLICIT Date OPTIONAL, <u>medicationAuthor</u> [9] IMPLICIT Author OPTIONAL }	Restructured data object using ASN.1 syntactical rules to implement management rules Date on which this entry was made (or changed). Author of this entry

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<i>Technical document</i>	Réf. : G8HC-EXT-001
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Interoperability ASN.1 data set	Revision marks
<p><u>ChoiceMedicationDetail ::= SET</u></p> <pre>{ medicationemergencyrelated [E] IMPLICIT MedicationEmergencyRelated, IndexMedication [A] IMPLICIT Index, MoreMedication [D] IMPLICIT BOOLEAN }</pre>	Added in the French proposal
<p>MedicationEmergencyRelated ::= SET</p> <pre>{ medicationEmergencyCategory [0] IMPLICIT NUMERIC STRING (SIZE(2)), medicationIndicator [1] IMPLICIT ENUMERATED { Absent(0), One or more(1), Unknown(2), Past or short term(5), Intermittent(6), <u>Index(7)</u>, <u>Not recorded(8)</u>, <u>Not supported(9)</u> }, medicationCodingStructure [2] IMPLICIT SET SIZE (0...6) OF ClinicalCodingStructure OPTIONAL, medicationDrugName [3] IMPLICIT OCTET STRING (SIZE (0...50)) OPTIONAL, medicationDosageCode [4] IMPLICIT SET SIZE (0...4) OF OCTET STRING (SIZE (0...2)) OPTIONAL, medicationDosage [5] IMPLICIT OCTET STRING (SIZE (0...50)) OPTIONAL, medicationStartedDate [6] IMPLICIT Date OPTIONAL, medicationEndedDate [7] IMPLICIT Date OPTIONAL, <u>medicationEntryDate</u> [8] IMPLICIT Date OPTIONAL, <u>medicationAuthor</u> [9] IMPLICIT Author OPTIONAL, indexNumber [A] IMPLICIT OCTET STRING (SIZE (0..40)) OPTIONAL, amountAuthorisedRenewals [B] IMPLICIT NUMERIC STRING (SIZE(2)) OPTIONAL, PrescriptionDate [C] IMPLICIT Date }</pre>	<p>This data object inherit the data attributes of the former ‘MedicationDetails’ data object</p> <p>« Index » is included in the « ChoiceMedicationDetail » data object</p> <p>Moved, used at ‘MedicationDetails’ level</p> <p>Moved, used at ‘MedicationDetails’ level</p> <p>Included in « ChoiceMedicationDetail » data object</p> <p>Added in the NETLINK proposal</p> <p>Added in the NETLINK proposal</p>

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<i>Technical document</i>	Réf. : G8HC-EXT-001
<i>French proposal to G8 SP6 Health Card meeting</i>	

Interoperability ASN.1 data set	Revision marks
ClinicalAddressDetails ::= SET { clinicalAddressName [0] <u>IMPLICIT</u> OCTET STRING (SIZE (0...30)), clinicalAddressRelationship [1] <u>IMPLICIT</u> OCTET STRING (SIZE (0...16)) OPTIONAL, clinicalAddressStructure [2] <u>IMPLICIT</u> AddressStructure OPTIONAL, clinicalTelecomStructure [3] <u>IMPLICIT</u> TelecomStructure OPTIONAL }	
OpticalPrescriptionDetails ::= SET { opticalPrescription [0] <u>IMPLICIT</u> OCTET STRING (SIZE (0...40)), opticalPrescriptionDate [1] <u>IMPLICIT</u> Date OPTIONAL }	
UpdateDetails ::= SET { dateOfLastClinicalUpdate [0] <u>IMPLICIT</u> Date, responsibleParty [1] <u>IMPLICIT</u> Author OPTIONAL }	
Author ::= SET { authorCountry [0] <u>IMPLICIT</u> NUMERIC STRING (SIZE(3)) OPTIONAL, authorIdentifier [1] <u>IMPLICIT</u> <u>NUMERIC</u> STRING (SIZE(0...35)) <u>OPTIONAL</u> , authorName [2] <u>IMPLICIT</u> OCTET STRING (SIZE (0...20)) OPTIONAL, }	The id shall be a string as french HCP id is a string. At least, this data object shall be mandatory

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<i>Technical document</i>	Réf. : G8HC-EXT-001
<i>French proposal to G8 SP6 Health Card meeting</i>	

Interoperability ASN.1 data set	Revision marks
Implants ::= SET { <u>choiceimplant</u> [0] IMPLICIT ChoiceImplant, <u>implantEntryDate</u> [1] IMPLICIT Date OPTIONAL, <u>implantAuthor</u> [2] IMPLICIT Author OPTIONAL }	Added by NETLINK, restructured in this proposal using ASN.1 to implement management rules of ‘more’ and ‘index’ Added in the French proposal, date of this entry Added in the French proposal, author of this entry
ChoiceImplant ::= SET { <u>implantCategory</u> [0] IMPLICIT NUMERIC STRING (SIZE(1..4)), <u>IndexImplant</u> [3] IMPLICIT Index, <u>MoreImplant</u> [4] IMPLICIT Boolean }	Added in the French proposal Category shall be coded with ICD10, see table 9.2 Added in the French proposal Added in the French proposal
Pregnancy ::= SET { <u>PregnancyDate</u> [0] IMPLICIT Date, <u>PregnancyEntryDate</u> [2] IMPLICIT Date, <u>PregnancyAuthor</u> [1] IMPLICIT Author OPTIONAL }	Added in the NETLINK proposal Added in the French proposal, date of this entry Added in the French proposal, author of this entry
Allergy ::= SET { <u>choiceallergy</u> ChoiceAllergy, <u>AllergyEntryDate</u> [5] IMPLICIT Date OPTIONAL, <u>AllergyAuthor</u> [6] IMPLICIT Author OPTIONAL }	Added in the French proposal, tag scheme of the contained data object is based on the tag scheme of « CodedClinicalDetail ». Date on which this entry was made (or changed). Author of this entry

International Emergency data set – French Proposal

Technical document

Réf. : G8HC-EXT-001

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Interoperability ASN.1 data set	Revision marks
<u>ChoiceAllergy ::= CHOICE</u> { <u>Allergen</u> [0] IMPLICIT OCTET STRING, <u>IndexAllergy</u> [7] IMPLICIT Index, <u>MoreAllergy</u> [8] IMPLICIT BOOLEAN }	Added in the French proposal See allergen table
<u>Index ::= SET</u> { <u>IndexAddress</u> [0] IMPLICIT OCTET STRING (SIZE(0..35)) <u>IndexNumber</u> [1] IMPLICIT OCTET STRING (SIZE(0..40)) }	Added in the French proposal to use ASN.1 syntactical rules to implement management rules address of the server in which the index is stored Binary number used as a reference to immunisation data or to another index(es)

International Emergency data set – French Proposal

Technical document

Réf. : G8HC-EXT-001

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6.3. G8 HC Clinical data structures

The following table is the revision of « table 42 International emergency data that can be stored in the PDC » of the NETLINK proposal [NETD2] included the French proposal as describe in the previous chapter. This table is helpful to show the API data structure.

Name	Tag	Data Type	Max L ¹	# ²	Note
ClinicalDetails	A0	Group		0,n	
> clinicalcategoryrelated	AD	Sub-group		0,1	Member of a choice type, do not use with « IndexClinicalDetail » or « MoreClinicalDetail »
>> clinicalEmergencyCategory	80	Numeric	4	1	Coded using an excerpt of the ICD 10
>> clinicalIndicator	81	Enumerated	1	1	Absent(0), Present(1), Possible(2)
>> clinicalCodingStructure	A2	Sub-group		0,1	
>>> codingSchemeIdentifier	80	String	6	1	
>>> clinicalCode	81	String	8	1	
>> clinicalDate	83	Date	8	0,1	
>> clinicalText	84	String	80	0,1	
> IndexClinicalDetail	A7	Sub-group		0,1	Member of a choice type, do not use with « clinicalcategoryrelated » or « MoreClinicalDetail »
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
> MoreClinicalDetail	88	Boolean	1	0,1	Member of a choice type, do not use with « clinicalcategoryrelated » or « IndexClinicalDetail »
> clinicalEntryDate	85	Date	8	0,1	Date on which this entry was made (or changed)
> clinicalAuthor	A6	Sub-Group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
bloodGroupTransfusionDetails	A1	Group		0,1	
> bloodGroup	A0	Sub-Group		1	
>> abogroup	A0	Sub-Group		0,1	Member of a choice type, do not use with « raregroup »
>>> ABOBloodGroup	80	String	2	1	
>>> rhesusFacto	81	String	1	1	
>> raregroup	A6	Sub-Group		0,1	Member of a choice type, do not use with « abogroup »
>>> rarebloodgrouppointer	x0			1	<i>The type of this data has to be agreed on.</i>
>> dateOfLastBloodGrouping	82	Date	8	0,1	
>> bloodGroupingText	83	String	30	0,1	
>> bloodGroupEntryDate	84	Date	8	0,1	Date on which this entry was made (or changed)

¹ Max length n bytes

² Number of occurrences, Min, Max

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Name	Tag	Data Type	Max L ¹	# ²	Note
>> bloodGroupAuthor	A5	Sub-group		0,1	Person responsible for the entry or change.
>>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>>> authorIdentifier	81	String	12	1	
>>> authorName	82	String	20	0,1	
> bloodTransfusion	A1	Sub-group		0,1	
>> bloodTransfusionIndicator	80	Enumerated	1	1	Never(0), One or more (1), Unknown(2)
>> lastBloodTransfusionDate	81	Date	8	0,1	
>> BloodTransfusionEntryDate	82	Date	8	0,1	Date on which this entry was made (or changed)
>> BloodTransfusionAuthor	A4	Sub-group		0,1	Person responsible for the entry or change.
>>> authorCountry	80	String	3	0,1	<i>Coded according to ISO 3166</i>
>>> authorIdentifier	81	String	12	1	
>>> authorName	82	String	20	0,1	
> irregularantibodygroup	A4	Sub-group		0,1	
>> IrregularAntiBody	80	Boolean	1	1	
>> IrregularAntiBodyEntryDate	81	Date	8	0,1	Date on which this entry was made (or changed)
>> AntiBodyAuthor	A2	Sub-group		0,1	Person responsible for the entry or change.
>>> authorCountry	80	String	3	0,1	<i>Coded according to ISO 3166</i>
>>> authorIdentifier	81	String	12	1	
>>> authorName	82	String	20	0,1	
> IndexBlood	A7	Sub-Group		0,1	
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
immunisationDetails	A2	Group		0,n	
> antigenrelated	AD	Sub-group		0,1	Member of a choice type, do not use with « IndexImmunisation » or « MoreImmunisation »
>> immunisationEmergencyCategory	80	Numeric	2	1	Shall be an antigen - See antigen table
>> immunisationIndicator	81	Enumerated	1	1	Never(0), One or more(1), Unknown(2), Adverse reaction(4)
>> immunisationStatus	82	Enumerated	1	1	Unspecified(0), First dose(1), Second dose(2), Third dose(3), Completed course(4), Booster(5), Contra-indication(6), Not supported(9)
>> lastDateImmunised	83	Date	8	0,1	
>> immunisationCodingStructure	A4	Sub-group		0,1	
>>> codingSchemeIdentifier	80	String	6	1	
>>> clinicalCode	81	String	8	1	
>> immunisationText	85	String	30	0,1	
>> vaccinBatchNumber	89	String	30	0,1	
>> NextDateImmunised	8A	Date	8	0,1	
> IndexImmunisation	A8	Sub-group		0,1	Member of a choice type, do not use with « antigenrelated » or « MoreImmunisation »
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
> MoreImmunisation	AB	Boolean	1	0,1	Member of a choice type, do not use with « antigenrelated » or « IndexImmunisation »

International Emergency data set – French Proposal

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Name	Tag	Data Type	Max L ¹	# ²	Note
> immunisationEntryDate	86	Date	8	0,1	Date on which this entry was made (or changed)
> ImmunisationAuthor	A7	Sub-group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
medicationDetails	A3	Group		0,n	
> medicationEmergencyrelated	AE	Sub-Group		0,1	Member of a choice type, do not use with « IndexMedication » or « MoreMedication »
>> medicationEmergencyCategory	80	Numeric	2	1	
>> medicationIndicator	81	Enumerated	1	1	Absent(0), One or more(1), Unknown(2), Past or short term(5), Intermittent(6)
>> medicationCodingStructure	A2	Sub-Group		0,6	
>>> codingSchemeIdentifier	80	String	6	1	
>>> clinicalCode	81	String	8	1	
>> medicationDrugName	83	String	50	0,1	
>> medicationDosageCode	84	String	2	0,4	
>> medicationDosage	85	String	50	0,1	
>> medicationStartedDate	86	Date	8	0,1	
>> medicationEndedDate	87	Date	8	0,1	
>> amountAuthorisedRenewals	8B	Numeric	2	0,1	
>> PrescriptionDate	8C	Date	8	1	Last date on which this medication has been prescribed
> IndexMedication	AA	Sub-Group		0,1	Member of a choice type, do not use with « medicationEmergencyrelated » or « MoreMedication »
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
> MoreMedication	8D	Boolean	1	0,1	Member of a choice type, do not use with « medicationEmergencyrelated » or « IndexMedication »
> medicationEntryDate	88	Date	8	0,1	Date on which this entry was made (or changed)
> medicationAuthor	A9	Sub-Group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
clinicalAddressDetails	A4	Group		0,n	
> clinicalAddressName	80	String	30	1	
> clinicalAddressRelationship	81	String	16	0,1	
> clinicalAddressStructure	A2	Sub-Group		0,1	
>> addressText	80	String	35	1,5	
>> addressPostcode	81	String	8	0,1	
>> addressCountry	82	Numeric	3	0,1	According to ISO 3166

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Name	Tag	Data Type	Max L ¹	# ²	Note
> clinicalTelecomStructure	A3	Sub-Group		0,1	
>> telephoneNumber	80	Numeric	16	0,3	
>> facsimileNumber	81	Numeric	16	0,1	
>> networkAddress	82	String	32	0,1	
opticalPrescriptionDetails	A5	Group		0,1	
> opticalPrescription	80	String	40	1	
> opticalPrescriptionDate	81	Date	8	0,1	
updateDetails	A6	Group		1	
> dateOfLastClinicalUpdate	80	Date	8	1	
> responsibleParty	A1	Sub-Group		1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
implants	A7	Group		0,n	
> implantCategory	80	Numeric	4	0,1	Member of a choice type, do not use with « IndexImplant » or « MoreImplant », coded using an excerpt of the ICD 10.
> IndexImplant	A3	Sub-Group		0,1	Member of a choice type, do not use with « implantCategory » or « MoreImplant »
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
> MoreImplant	84	Boolean	1	0,1	Member of a choice type Member of a choice type, do not use with « implantCategory » or « IndexImplant »
> implantEntryDate	81	Date	8	0,1	Date on which this entry was made (or changed)
> implantAuthor	A2	Sub-Group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
PregnancyDetails	A8	Group		1	
> PregnancyDate	80	Date	8	1	Date of last menstruation before the pregnancy diagnosis
> PregnancyEntryDate	82	Date	8	0,1	Date on which this entry was made (or changed)
> PregnancyAuthor	A1	Sub-Group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	
> IndexPregnancy	A3	Sub-Group		0,1	
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	

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Name	Tag	Data Type	Max L ¹	# ²	Note
Allergies	A9	Group		0,n	
> Allergen	80	String		0,1	Member of a choice type, do not use with « IndexAllergy » or « MoreAllergy » - Size of the code value has to be defined
> IndexAllergy	A7	Sub-Group		0,1	Member of a choice type, do not use with « Allergen » or « MoreAllergy »
>> IndexAddress	80	String	35	1	
>> IndexNumber	81	String	40	1	
> MoreAllergy	88	Boolean	1	0,1	Member of a choice type, do not use with « Allergen » or « IndexAllergy »
> AllergyEntryDate	85	Date	8	0,1	Date on which this entry was made (or changed)
> AllergyAuthor	A6	Sub-Group		0,1	Person responsible for the entry or change.
>> authorCountry	80	String	3	0,1	Coded according to ISO 3166
>> authorIdentifier	81	String	12	1	
>> authorName	82	String	20	0,1	

7. Code tables

All codes used in the G7 HC data set should be based on international codes. If new code are needed, there should be managed by the appropriated international organisation (medical code should be managed by WHO).

7.1. Clinical emergency categories

This table is an excerpt of the ICD10

Meaning (French)	Meaning (English)	Code ICD 10
Asthme	Asthma	J45
Diabète	Diabetes	
Diabète Sucré	Diabetes mellitus	E10
Diabète Sucré insiluno dépendant	insulin-dependent diabetes	E11
Diabète Sucré Non insulino dépendant	noninsulin-dependent diabetes	E14
Glaucome	Glaucoma	H40
Hémophilie	Coagulation deficiency	D66
Maladies cardiaques	Heart Disease	
Maladie cardiovasculaire	Cardiovascular Disease	I516
Cardiopathie ischémique chronique	ischaemic heart disease	I25
Myocardiopathie	cardiomyopathy	I42
Troubles du rythme cardiaque	Cardiac dysrhythmias	I49
Insuffisance cardiaque	Heart failure	I50
Maladie cérébro-vasculaire	cerebrovascular disease	I67
Maladie neurologique	Neurological disorders	
Maladie de Parkinson	Parkinson's disease	G20
Maladie d'Alzheimer	Alzheimer's disease	G30
Sclérose en plaque	Multiple sclerosis	G35
Épilepsie	Epilepsy	G40
Hémiplégie	Hemiplegia	G81
Paraplégie, tétraplégie	paraplegia, quadriplegia	G82
Stimulateur cardiaque	Pacemaker	Z450

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Meaning (French)	Meaning (English)	Code ICD 10
Dialyse rénale	Dialysis Treatment	Z49

7.2. Implants

This table is an excerpt of the ICD10

Meaning (French)	Meaning (English)	Code ICD 10
Rein	Kidney	Z940
Cœur	Heart	Z941
Foie	Liver	Z944
Poumon	Lung	Z942
Autre	Other	Z948