CareSet Allergy

Test Cases – V1.0 EN

Document distribution

Version	Date	Distributed to
1.0	25-09-2025	All - Publication

Related documents

Version	Document name	Author
V1.9 NL	CareSet Allergy	Be-SafeShare
V 1.9 FR	CareSet Allergy	

Lexicon

Wording	Explication
SnomedCT ®	Systematized Nomenclature of Medicine Clinical Terms (world wide recognized nomenclature). As part of the eSanté plan, SNOMED-CT terminology has been chosen wherever it brings added value.

Contents

1. Introduction

1.1.　　Goal

The test cases in this document provide examples that will be available on the eHealth test server. During registration testing other test scenarios will be used.

Note: in its first version the test are only aimed at software for general practitioners. In the future we will extend the coverage.

1.2.　　Flow & Functionalities

The CareSets "Allergy" flow between the healthcare provider(s) and the vaults, as do all CareSets. We refer to the CareSet Specification document for further detail and discussion. (See "Related documents" above). A full-fledged life cycle run might encompass following functionalities:

Possible actions	Description
Record	The provider records information (e.g. about allergy) in his EHR
Send	The provider sends information (e.g. Allergy Care Set) regarding his patient in FHIR profile to the Health network (Regional Vault) which stores the Allergy information
Consult	A second provider checks if information about his patient already exists in the Health network (Regional Vaults) (e.g. allergy)
Verify	The vault controls access to information (Patient Consent, therapeutic link, access matrix) before dispatching the information to the provider
Dispatch	The vault sends the information about the allergy to the second provider
Download	The second provider downloads information (e.g. allergy) received into his HER
Update	The second provider updates information (1 or more item of the Care set) into his EHR and sends the new version of Care Set to the Health network (safe)
Delete	The second provider deletes information

1.3.　　Legend

This colour legend gives the possible data statuses before and during the test case execution.

Value	Description
	Data not managed yet.
	Data not updatable by the recorder.
	Data updatable by the recorder.
	Data that has been changed from a step to another (by the recorder or automatically).
	Does not contain a specific data. Link to a "one to many" relation with several instances.
Item	**Description**
RED font	Mandatory item, presence is required in all test cases.
GREEN font	Optional item, presence is required in the actual test case.
GREY font	Optional item, absent in the actual test case.

Note1: The cardinality indicates the mandatory (1..) or optional (0..) presence of an item in a Careset.
Note 2: "ValueSet list" refers to the list of values in the "Business Rules Allergy" document.
Note 3: Test cases include codes and label values in the "Value (example)" column, but users use only labels selected from lists.

2. Test Cases

2.1. "Allergy confirmed: causative agent identified"

2.1.1. Business case

Step	Description
1	On 2023-08-07, the patient visited the doctor for asthma after having eaten some peanuts earlier on 2023-08-02. Tests revealed indeed an allergy to peanuts. The doctor recorded the patient's allergy in the EHR after reviewing the test results.

Data managed by actor (Patient's Doctor)
Step1 *allergy to peanuts causing asthma – confirmed by tests*
new CS 123e4567-e89b-12d3-a456-265411

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-265411	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software
Asserter	0 .. 1	Not applicable in this test.	(not mandatory)
Patient	1 .. 1	YYMMDD-NNN.NN (NISS	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from code.
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *		Manual

(*) Although Category is not mandatory, it can be inferred from Code, and so should never be blank …
(**) IF there is a REACTION, the unique MANIFESTATION of that REACTION must be mentioned. The date of the manifestation can be left open.

2.2.   "Suspected Allergy: Agent Identified"

2.2.1. Business case

Step	Description
1	On 2023-08-07, a patient visited his doctor for asthma he had on 2023-08-02. The doctor suspected a peanut allergy after asking questions and conducted tests, but he still needs the test results to confirm the diagnosis. The doctor already registered the allergy.

2.2.2. Data managed by actor (Patient's Doctor)

Step 1 *Suspected peanut allergy causing asthma, test results not in yet*
new CS 123e4567-e89b-12d3-a456-265421

Item	Cardinality	Value (example)	Automatic / choice in list /
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-266554421	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Allergy to peanut suspected, still to be tested to be confirmed.	Manual

2.3.   "Identification of the causative agent in a suspected child allergy by his mother"

2.3.1. Business case

Step	Description
1	On 2023-08-07, a mother visited the doctor for her child's asthma from 2023-08-06. The doctor suspected a peanut allergy after questioning the mother and conducted tests. The doctor has recorded the allergy but needs the results to confirm the diagnosis, and put in a note to comment on the situation.
2	On 2023-08-13, test results confirmed the child is allergic to peanuts. The doctor updated the patient's file.

2.3.2. Data managed by actor (Patient's Doctor)

Step 1 *suspected peanut allergy causing asthma, test results not yet in.*
New CS 123e4567-e89b-12d3-a456-265431

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07 09:05:13	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-265431	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1	**444301002** (Snomed code for Mother)	Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Child)	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-06	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Allergy to peanut suspected, still to be tested to be confirmed.	Manual

Step 2 *test confirmed suspected peanut allergy*
Modified *CS* 123e4567-e89b-12d3-a456-265431

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	**1 .. 1**	2023-08-13 11:12:15	Automatic
Identifier	**1 .. 1**	123e4567-e89b-12d3-a456-266554431	Automatic
Recorder	**1 .. 1**	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	**0 .. 1**	**444301002** (Snomed code for Mother)	Automatic or Manual
Patient	**1 .. 1**	YYMMDD-NNN.NN (NISS Child)	Automatic
Code	**1 .. 1**	762952008 (Peanut)	Choice in ValueSet list
Category (*)	**0 .. ***	Food	Automatic from selected code
Type	**0 .. 1**	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	**1 .. 1**	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	**0 .. 1**	2023-08-02	Manual
ClinicalStatus	**0 .. 1**	Active	Choice in ValueSet list
VerificationStatus	**0 .. 1**	Confirmed	Choice in ValueSet list
Note	**0 .. ***	Allergy to peanut confirmed as the test is positive	Manual

2.4. "Suspected Allergy: Causative Agent Unidentified"

2.4.1. Business case

Step	Description
1	On August 7, 2023, the patient visited his doctor due to recurring urticaria. After questioning him, the doctor suspected an allergy. While tests were inconclusive, the doctor assumes the cause may be related to the patient's bedding. The doctor registered the allergy for an unknown substance and noted his assumption.

2.4.2. Data managed by actor (Patient's Doctor)

Step 1 *Allergy with inconclusive test - unknown substance.*
NEW CS 123e4567-e89b-12d3-a456-266554441

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-266554441	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	64970000 (Unknown Substance)	Choice in ValueSet list
Category (*)	0 .. *	Environment	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	126458001 (Urticaria)	Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Textile (cotton ?)/House Dust Mites, … ?	Manual

2.5.   "A suspected allergy has been ruled out."

2.5.1. Business case

Step	Description
1	On 2023-08-07, the patient visited his doctor for asthma. The doctor suspects a peanut allergy after questioning the patient. Tests were conducted, but results are needed to confirm the diagnosis. (Clinical Status "Unconfirmed"). The doctor records this information in the EHR.
2	On 2023-09-15, test results showed that the patient is not allergic to peanuts. So, the doctor *refutes* the suspicion of the peanut allergy.
3	The doctor suspects a Hypersensitivity to another unknown substance ("Unknown Substance"- Code 409137002). He records that the patient has a Hypersensitivity to an unknow substance.

2.5.2. Data managed by actor (Patient's doctor)

Step1 asthma due to a *suspected peanut allergy, no test results in yet*
New CS 123e4567-e89b-12d3-a456-266554451

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-4266554451	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Still to be tested to be confirmed	Manual

Step2 *test results in: patient is **not** allergic to peanuts* – modified "previous" record

Modified CS 123e4567-e89b-12d3-a456-266554451

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-09-15	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-266554451	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1	Inactive	Choice in ValueSet list
VerificationStatus	0 .. 1	Refuted	Choice in ValueSet list
Note	0 .. *	After further tests, the allergy could be refuted.	Manual

Step 3 *Hypersensitivity to an unknown substance*

NEW CS 123e4567-e89b-12d3-a456-266554454

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-09-15	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-266554454	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	409137002 (unknown substance)	Choice in ValueSet list
Category (*)	0 .. *		Automatic from selected code
Type	0 .. 1	609433001 (hypersensitivity)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	There is an hypersensitivity to an unknown substance	Manual

2.6.   "Prolonged tolerance after desensitisation treatment"

2.6.1. Business case

Step	Description
1	On 2023-08-07, the patient consulted a doctor due to experiencing diarrhoea on 2023-08-02. After conducting several tests, it was determined that the patient has a gluten intolerance.
2	After desensitisation treatment on 2023-12-28, the patient appears tolerant to gluten.

2.6.2. Data managed by actor (Patient's Doctor)

Step1 *Gluten intolerance, confirmed by test, leads to diarrhoea.*
NEW CS - 123e4567-e89b-12d3-a456-2665561

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-2665561	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	89811004 (Gluten)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	782197009 (Intolerance)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	62315008 (Diarrhoea)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *		Manual

Step2 *Patient became tolerant for gluten*.
Modified CS 123e4567-e89b-12d3-a456-2665561

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-12-28	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-2665561	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	89811004 (Gluten)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	782197009 (Intolerance)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	62315008 (Diarrhoea)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Inactive	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *	No reaction anymore after desensitisation treatment	Manual

2.7. "A reaction to a causative agent is suspected, but it's unclear if it is intolerance, allergy, or non-allergic hypersensitivity."

2.7.1. Business case

Step	Description
1	On 2023-08-07, a patient visited the doctor due to asthma symptoms. After asking several questions, the doctor suspected a reaction to peanuts but he was unsure if it was an intolerance, an allergy, or a non-allergic hypersensitivity. He will record the generic concept (hypersensitivity) Testing is needed to confirm to confirm the diagnosis.

2.7.2. Data managed by actor (Patient's Doctor)

Step 1 *suspected unsure reaction to peanut*.
NEW CS 123e4567-e89b-12d3-a456-2665571

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-2665571	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	762952008 (Peanut)	Choice in ValueSet list
Category (*)	0 .. *	Food	Automatic from selected code
Type	0 .. 1	609433001 (hypersensitivity)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Testing is needed to confirm. Reaction suspected, but unsure if it's an allergy, intolerance, or non-allergic hypersensitivity.	Manual

2.8. "The patient does not have any known or registered allergies."

2.8.1. Business case

Step	Description
1	On 2023-08-07, the patient visited his doctor for a minor issue. The doctor asked if he has any allergies, and the patient replied that to his knowledge, he does not have any allergies. The doctor decided to note this in his EHR without the need of any testing.

2.8.2. Data managed by actor (Patient's Doctor)

Step 1 *patient has no known allergies*.

New CS 123e4567-e89b-12d3-a456-2665591

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-12-28	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-2665591	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	716186003 (No Known allergy)	Choice in ValueSet list
Category (*)	0 .. *		Automatic from selected code
Type	0 .. 1		Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1		Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1		Choice in ValueSet list
VerificationStatus	0 .. 1		Choice in ValueSet list
Note	0 .. *		Manual

Recommendation: If Code = 716186003 "No known allergy", then Category = blank

2.9. "After testing, it appears the patient is allergic to a different substance than initially suspected."

2.9.1. Business case

Step	Description
1	On 2023-08-07, the patient visited the doctor due to asthma symptoms. After asking several questions, the doctor suspected an allergy to cat hair. Tests were performed, but results are still needed to confirm the diagnosis. The doctor adds a record for his suspected allergy to the EHR.
2	On 2023-08-12, the doctor receives the test results and
A	- discovers that the patient is not allergic to cat hair. The doctor notes that the suspected allergy isn't an "active" allergy.
B	- sees that the patient is allergic to house dust mites. The doctor records this allergy to a different substance.

2.9.2. Data managed by actor (Patient's Doctor)

Step1 *asthma due to a suspected cat hair allergy, test results not in yet*
NEW CS 123e4567-e89b-12d3-a456-26655101

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07 09:15	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655101	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic or Manual
Patient	1 .. 1		Automatic
Code	1 .. 1	276310004 (Animal Hair)	Choice in ValueSet list
Category (*)	0 .. *	Environment	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	A suspected allergy to cat hair is pending confirmation through testing. Additional tests have been conducted to ascertain other conditions.	Manual

Step2a *test for allergy shows "no cat hair allergy".*
Modified CS 123e4567-e89b-12d3-a456-26655101

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-12 09:02	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655101	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	276310004 (Animal Hair)	Choice in ValueSet list
Category (*)	0 .. *	Environment	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Inactive	Choice in ValueSet list
VerificationStatus	0 .. 1	Refuted	Choice in ValueSet list
Note	0 .. *	Initially allergy to cat hair suspected, after the tests, it appeared that the patient is allergic to dust mites instead.	Manual

Step 2b *test for allergy shows "house dust mites allergy"*
NEW CareSet - 123e4567-e89b-12d3-a456-26655102b

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-12 09:05	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655102b	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	260147004(House dust mites)	Choice in ValueSet list
Category (*)	0 .. *	Environment	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	195967001 (Asthma)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2023-08-02	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *	Cat hair allergy was suspected, but tests showed an allergy to dust mites.	Manual

2.10. "Causative Agent not in ValueSet: The patient has an allergy, and the GP confirms the allergy but is unable to specify the causative substance (code) in the predefined list "

2.10.1. Business case

Step	Description
1	On 2025-03-07, a patient consulted a doctor due to symptoms consistent with an allergy to Baobab pollen. After evaluating the patient, the doctor confirmed the allergy. The doctor attempted to record the allergy but was unable to find a specific code for "Baobab pollen." Consequently, the doctor selected the code 105590001 "Substance" and included comments indicating the causative substance.

2.10.2. Data managed by actor (Patient's Doctor)

Step 1 *sneezing due to a tested allergy for "Baobab pollen"*
NEW CareSet - 123e4567-e89b-12d3-a456-26655111

Item	Cardinality	Value (Example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2025-03-07	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655111	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	105590001 (Substance) (*)	Choice in ValueSet list
Category (*)	0 .. *	Environment	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	76067001 (Sneezing)	Choice in ValueSet list
Reaction.Onset	0 .. 1	2025-03-01	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *	Baobab pollen allergy.(*)	Manual

(*) A note is mandatory in case of using 105590001 "Substance" as causative agent (cf. Code), which is only in case the causative agent does not appear in the ValueSet.

2.11.   "Manifestation unknown: The patient has an allergy but cannot clearly recall the manifestation provoked by the allergy. As precaution, the GP takes note of the allergy."

2.11.1.   Business case

Step	Description
1	On 2025-02-27, accompanied by his informal caregiver, the patient visits the doctor for a pre-operative check-up. The informal caregiver suspects the patient's allergy for penicilline but does not remember the details of the last manifestation of a reaction. The doctor records the allergy in the EHR. To make sure his diagnosis is correct, the GP refers the patient to an allergist.
2	On 2025-03-15 the patient visits an allergist. After running some tests the allergist notes that the patient is allergic to Penicilline G. The allergist updates the EHR consequently.

2.11.2.   Data managed by actor 1 (Patient's GP)

Step 1 *Unconfirmed penicillin allergy, no details of last manifestation available*.
New CareSet - 123e4567-e89b-12d3-a456-26655121

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2025-02-27	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655121	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS GP)	Automatic via software initialization
Asserter	0 .. 1	Not Applicable	Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	J01CE01 (Penicilline G)	ATC in SAMV2
Category (*)	0 .. *	Medication	Automatic from selected code
Type	0 .. 1	609433001 (Hypersensitivity)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	404684003 (Clinical Finding)(*)	Choice in ValueSet
Reaction.Onset	0 .. 1	(empty)	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *	Informal caregiver did not know details of last reaction.	Manual

(*) A note is mandatory in case of using "Clinical finding" as manifestation, which is in case the manifestation is unknown or not in the ValueSet.

2.11.3. Data managed by actor 2 (Patient's Allergist)

Step *2 Confirmed penicilline **G** allergy, no details of last manifestation available*.
Modified CareSet - 123e4567-e89b-12d3-a456-26655121

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2025-03-15	Automatic
Identifier	1 .. 1	123e4567-e89b-12d3-a456-26655121	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN$_2$ (NISS Allergist)	Automatic via software initialization
Asserter	0 .. 1	Not Applicable	Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	J01CE01 (Penicilline G)	ATC in SAMV2
Category (*)	0 .. *	Medication	Automatic from selected code
Type	0 .. 1	609328004 (Allergy)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1	404684003 (Clinical Finding) (*)	Choice in ValueSet
Reaction.Onset	0 .. 1	(empty)	Manual
ClinicalStatus	0 .. 1	Active	Choice in ValueSet list
VerificationStatus	0 .. 1	Confirmed	Choice in ValueSet list
Note	0 .. *	Caretaker did not know details of last reaction. Test confirmed allergy for Penicilline G.	Manual

(*) A note is mandatory in case of using "Clinical finding" as manifestation, which is in case the manifestation is unknown or not in the ValueSet.

2.12. "An allergy has been ruled out."

2.12.1. Business case

Step	Description
1	On 2023-08-07, the patient visited his doctor. The doctor asks the patient whether he has any known intolerance or allergy. The patient mentions that he has no allergy. The doctor records that the patient has no allergy.

2.12.2. Data managed by actor (Patient's doctor)

Step1 has no known allergy

New CS 123e4567-e89b-12d3-a456-266554451

Item	Cardinality	Value (example)	Automatic / choice in list / manual
RecordedDate	1 .. 1	2023-08-07	Automatic
Identifier	1 .. 1	CS 123e4567-e89b-12d3-a456-4266554451	Automatic
Recorder	1 .. 1	YYMMDD-NNN.NN (NISS Doctor)	Automatic via software initialization
Asserter	0 .. 1		Automatic or Manual
Patient	1 .. 1	YYMMDD-NNN.NN (NISS Patient)	Automatic
Code	1 .. 1	716186003 (no allergy)	Choice in ValueSet list
Category (*)	0 .. *	Environmental	Automatic from selected code
Type	0 .. 1	609433001 (Hypersensitivity)	Choice in ValueSet list
Reaction.Manifestation(**)	1 .. 1		Choice in ValueSet list
Reaction.Onset	0 .. 1		Manual
ClinicalStatus	0 .. 1		Choice in ValueSet list
VerificationStatus	0 .. 1	Unconfirmed	Choice in ValueSet list
Note	0 .. *		Manual