

Sumehr Validation Tool 1.1

User Guide

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1 Introduction

The '*Sumehr Validation Tool*' is a standalone small tool whose purpose is to perform an advanced syntactic validation of a 'sumehr transaction' (that is a specific KMEHR transaction). It additionally allows its users to visualise a sumehr in a simple HTML format. The tool is not intended to validate the quality of the medical content of the sumehr. Furthermore, it is not designed to allow its users to edit the sumehr.

The current version of his tool only performs validation of the sumehr messages. Future versions could be extended for other KMEHR transactions (if useful).

The tool follows the rules described at the url:

https://www.ehealth.fgov.be/standards/kmehr/en/transaction_detail/home/transactions/transaction_detail/Sumehr-1-1.xml

This first version of the tool:

- is only available in English;
- does not allow to integrate external 'reference tables' (for instance, the CNK codifications). Therefore :
 - the tool is not able to perform any validation that is related to the content of such tables;
 - Visualisation of messages containing only codified information without textual descriptions may become not 'human readable'.

The two main functionalities (validation and HTML visualisation) of the tool are available by:

- a very simple Java GUI interface;
- a Java library.

2 Glossary

Refer to the KMEHR site : <https://www.ehealth.fgov.be/standards/kmehr/en/home/home/index.xml>.

3 How to install the tool

3.1 Technical requirements

- The tool is known to work on all major operating systems (Windows, Mac OS X, Linux) with a correct java installation.
- The current version requires you to have a **working Java 6 installation**. Please refer to <http://java.sun.com> for more details on how to obtain java for your operating system.
- Each version of the tool is related to a specific version of the KMEHR schema and of the SUMEHR transaction. Please consult the [KMEHR site](#)¹ to check the tool adequacy.
- The visualisation functionality requires that your browser authorises the use of **javascript**.

3.2 Packaging

The Sumehr validation tool is distributed as a self-contained zip named '*EhValidation_<version>.zip*'. The EhValidationTool zip file can be extracted to any folder of your choice. Make sure to keep the folder structure intact when you extract the files.

Note: If you don't have a program to extract .zip files (like WinZip, WinRAR, 7-Zip ...) installed on your computer, you can find a free alternative here: <http://www.7-zip.org/>.

If your computer meets the requirements, click on file '*ehvalidator-gui-<version>.jar*' to launch the GUI tool. You do not need an internet connection to use it.

Folder structure:

- `cfg`: contains configuration files
- `demo`: contains sumehr examples
- `lib`: contains program libraries
- `licenses`: contains the licenses for external libraries
- `log`: contains log file
- `manual`: contains the application's manual
- `site`: contains javadoc

¹ <https://www.ehealth.fgov.be/standards/kmehr/en/home/home/index.xml>

4 How to use the tool

The tool allows you to perform three main operations in steps:

- Step 1 allows you to check that a file fulfills the Sumehr rules. This is the '**sumehr validation**' step.
- Step 2 allows you to perform a visual check on your sumehr file. This the '**sumehr visualisation**' step.
- Step 3: It allows you to export and/or visualise the results of the validation step (errors/warnings). Those errors and warnings are gathered in the '**validation report**'.

Those three operations are gathered in a single simple window.

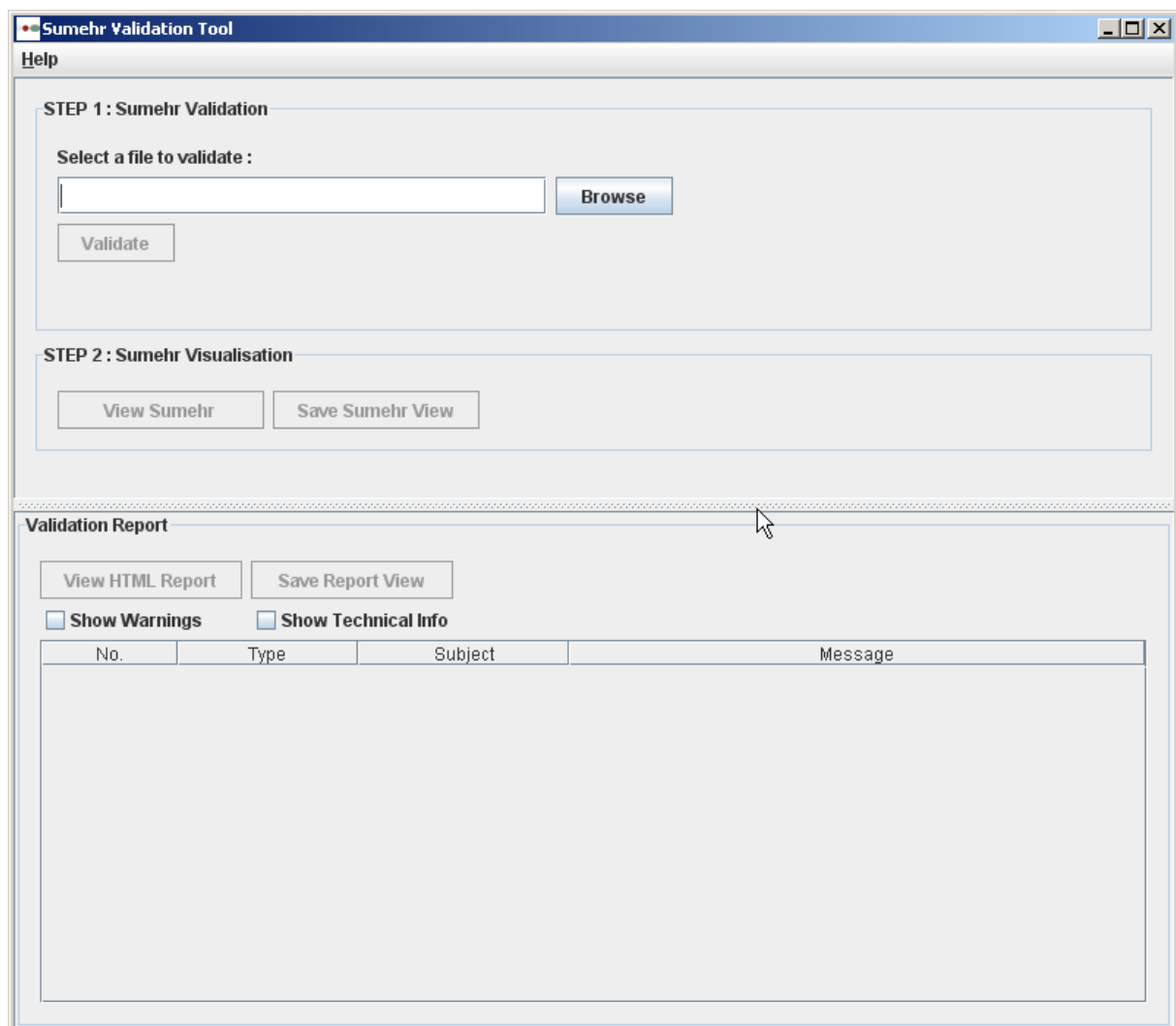


Figure 1: Sumehr Validation Tool main window

4.1 Step 1: Sumehr Validation

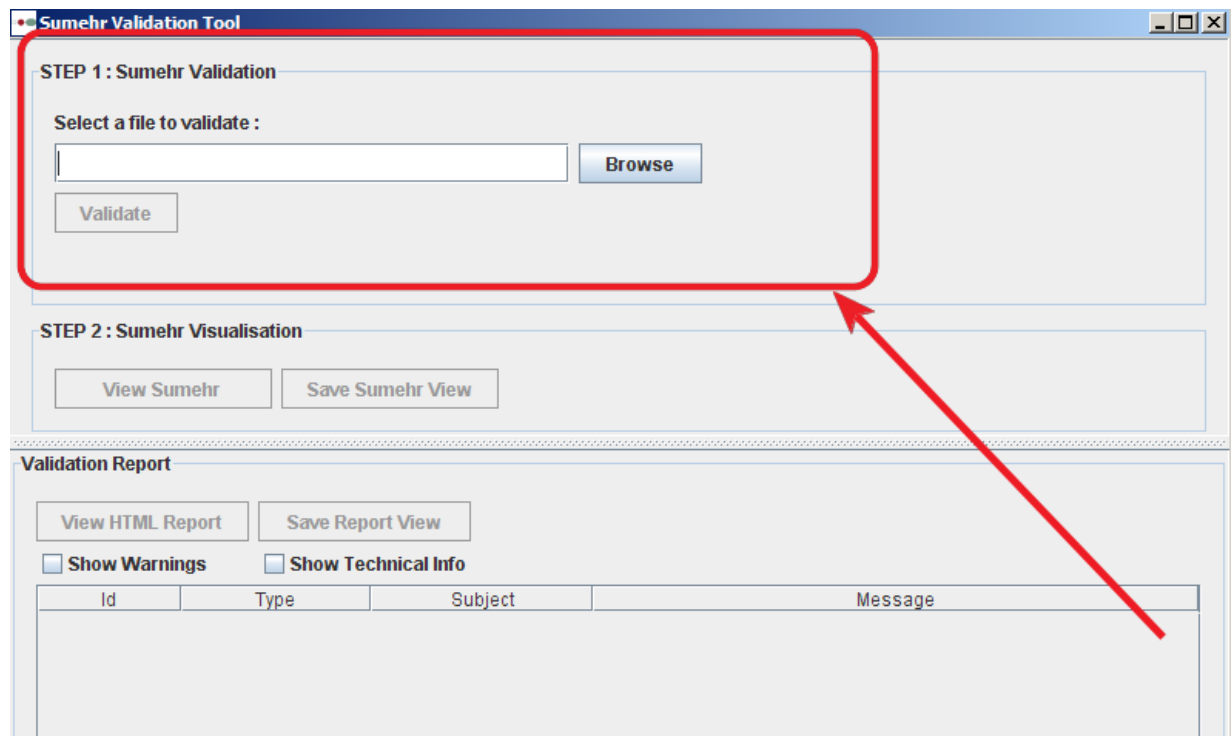


Figure 2: “STEP 1: Sumehr Validation” frame

Click on the [Browse] button and select the file to validate. It should be a XML file which fulfills the KMEHR schema. You can also enter the filename by hand and hit the [Enter] key to confirm the file name.

Then click on [Validate]. This button is activated after you selected a file.

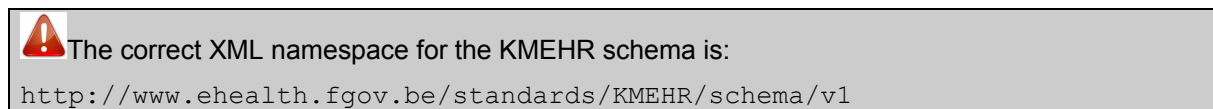
After clicking on [Validate], a message appears, showing the number of errors and warnings. There is a color code:

- Green: Sumehr file is correct, no errors and no warnings.
- Orange: Sumehr file is correct, with warnings.
- Red: Sumehr file is not correct, it has at least one error.

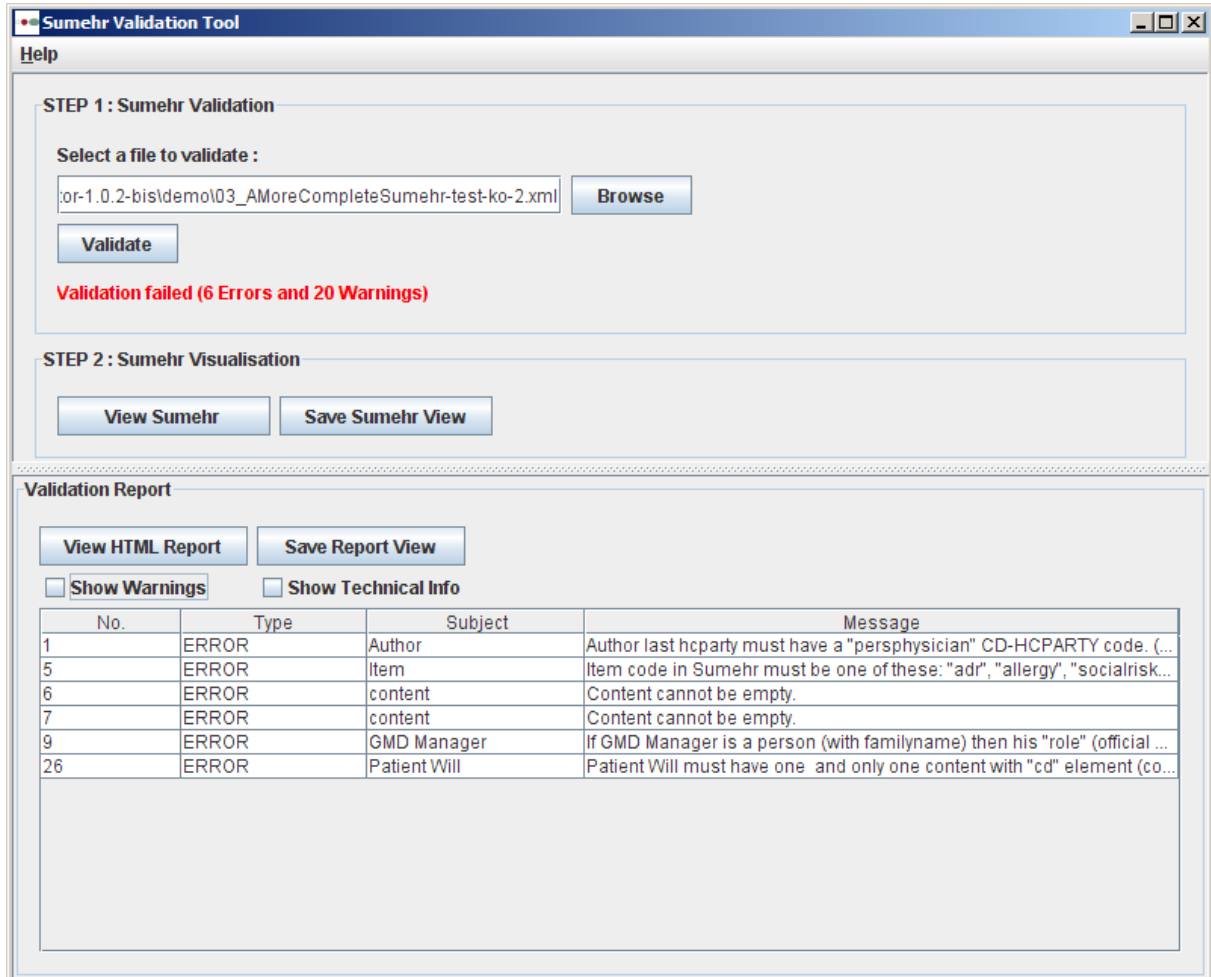
If the selected file is not a correct KMEHR file, you will get a pop up with an error message.



Figure 3: Incorrect KHMER file validation



After the validation step, the visualisation and report frames are activated. If the Sumehr is not correct (i.e the fail validates against the schema but does not fulfil the sumehr rules), the report frame displays the detected errors.



Sumehr Validation Tool

Help

STEP 1 : Sumehr Validation

Select a file to validate :

or-1.0.2-bis\demo\03_AMoreCompleteSumehr-test-ko-2.xml **Browse**

Validate

Validation failed (6 Errors and 20 Warnings)

STEP 2 : Sumehr Visualisation

View Sumehr **Save Sumehr View**

Validation Report

View HTML Report **Save Report View**

☐ **Show Warnings** ☐ **Show Technical Info**

No.	Type	Subject	Message
1	ERROR	Author	Author last hcparty must have a "persphysician" CD-HCPARTY code. (...)
5	ERROR	Item	Item code in Sumehr must be one of these: "adr", "allergy", "socialrisk..."
6	ERROR	content	Content cannot be empty.
7	ERROR	content	Content cannot be empty.
9	ERROR	GMD Manager	If GMD Manager is a person (with familyname) then his "role" (official ...)
26	ERROR	Patient Will	Patient Will must have one and only one content with "cd" element (co...)

Figure 4 : Incorrect SUMEHR file validation

4.2 Step 2: Sumehr visualisation

When the file is valid with respect to the schema, the validation step leads to the activation of the 'Sumehr Visualisation' frame.

4.2.1 Activation of the visualisation

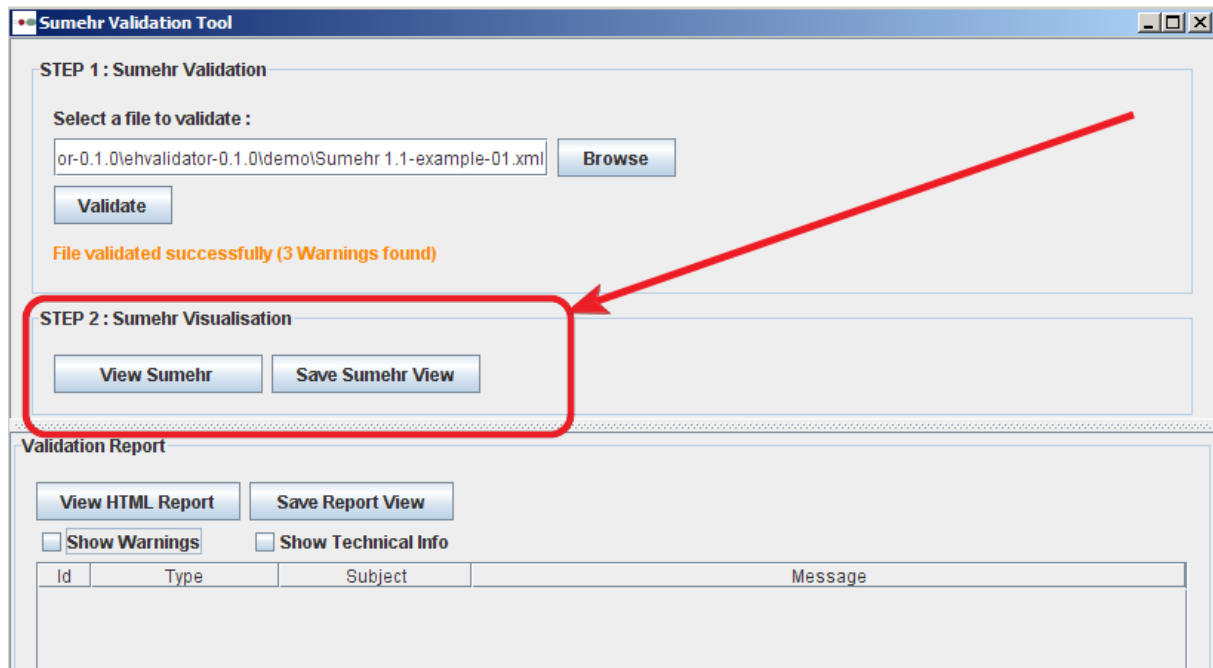


Figure 5 : 'Step 2 Sumehr Visualisation' frame

There are 2 buttons in this frame: the first to show directly the sumehr view, the second to save this Sumehr view on your computer

- [View Sumehr]: It opens a sumehr visualisation in a new page with your default web browser.
- [Save Sumehr view]: It allows you to save the Sumehr visualisation. Click on this button, select file location and name, then click on [save]. The file should be saved with an html extension, so you will be able to open it with any web browser.

Opening the view in the tool, or opening a saved view offers the same view. (Currently, tested with **Internet Explorer 8** and **Mozilla Firefox 3**)

Note: The sumehr visualisation uses javascript. According to your browser's configuration, it is possible that displaying the view will be blocked by default. In this case, your browser will show a message to inform you. Please, click on this message and allow the blocked content.


 To help protect your security, Internet Explorer has restricted this webpage from running scripts or ActiveX controls that could access your computer. Click here for options...



Figure 7: Allow blocked content with Internet Explorer example

4.2.2 Sumehr visualisation: description

By default, Sumehr is displayed in a 'short view' where some information is hidden in order to a quick overview about the patient. By clicking on the [Expanded View] button, you get the full detailed view. By clicking on the [Short View] button, you get minimal view.

Expanded View

Short View

Show Warnings ☐

Creation date : 2010-05-05 09:30:00

[+] Author

GP ForTestingPurpose

[+] Patient

Patient ForTestingPurpose	
Sex	male
Birthdate	1991-12-25
Usual language	fr
"home" Address	Rue de La Gare 12 ; 5000 Namur / be

[+] Risks

Allergies :

hay fever

Adverse drug reactions :

Social risks :

Sociocultural problem

Other risks :

Social security problem

[+] Current problems

stomach ache

acute infectious rhinitis

[+] Relevant passive care element

epilepsy

[+] Active medication

Omeprazol Sandoz 20mg	
Name	Omeprazol Sandoz caps. EC 56x 20mg
Period	start: end:

Medrol 32mg	
Name	MEDROL COMP 20 X 32 MG
Period	start: end:

Figure 6 : Extract of Sumehr short view

☐ Show Warnings

Creation date : 2010-05-05 09:30:00

[-] Author

GP ForTestingPurpose	
NIHII No	11530231003
INSS No	49112002395
Role	persphysician
First names	GP
Family Name	ForTestingPurpose
"work" Address	Avenue de l'Ange 237 PB : B ; 5000 Namur / be
phone	081917125 (work)

[-] Patient

Patient ForTestingPurpose	
INSS No	7031966696
(local id) MyUsualSystem 2010-01-03	32190
First names	Patient
Family Name	ForTestingPurpose
Sex	male
Birthdate	1991-12-25
Usual language	fr
Phone	
"home" Address	Rue de La Gare 12 ; 5000 Namur / be

Figure 7 : Extract of Sumehr expanded view

To switch view for a specific paragraph, simply click on the [+] or [-] icon at the left of this paragraph.

Sumehr

Creation date : 2010-05-05 09:30:00

[+] Author

GP ForTestingPurpose

[-] Patient

Patient ForTestingPurpose	
INSS No	7031966696
(local id) MyUsualSystem 2010-01-03	32190
First names	Patient
Family name	ForTestingPurpose
Sex	male
Birthdate	1991-12-25
Usual language	fr
phone	
home address	Rue de La Gare 12 ; 5000 Namur / be

Figure 8 : Expanding/hiding paragraphs

Warnings are not displayed in the default visualization. Warning display can be activated by the use of the checkbox [Show warnings].

Expanded View
Short View
Show Warnings ☒

CORRECT SUMEHR WITH WARNINGS (Warnings: 8)

Creation date : 2010-05-05 09:30:00

[+] Author

GP ForTestingPurpose

[+] Patient

Patient ForTestingPurpose	
Sex	male
Birthdate	1991-12-25
Usual language	fr
"home" Address	Rue de La Gare 12 ; 5000 Namur / be

[+] Risks

Allergies :

hay fever	
WARNING	No. 1: "allergy" should have a content with codified informations (cd). (Label: "hay fever")

Adverse drug reactions :

Social risks :

Sociocultural problem

Figure 9 : Warning display activation

The sumehr visualisation is available for both incorrect and correct sumehr (valid with respect to the schema however). In the case of an incorrect sumehr, a message appears in red and errors are displayed in visualization.

Expanded View
Short View
Show Warnings ☐

THIS SUMEHR IS NOT CORRECT (Errors: 2 - Warnings: 3)

Creation date : 2010-05-05 09:30:00

ERROR	
	No. 1: All transactions in Sumehr must have official "sumehr" codification. (CD-TRANSACTION here: "result")

[+] Author

GP ForTestingPurpose

[+] Patient

Patient ForTestingPurpose	
Sex	male
Birthdate	1991-12-25
Usual language	fr
"home" Address	Rue de La Gare 12 ; 5000 Namur / be

Risks

Allergies :

Adverse drug reactions :

Social risks :

Other risks :

[+] Current problems

stomach ache
acute infectious rhinitis

[+] Relevant passive care element

epilepsy

[+] Active medication

Textual content not specified	
ERROR	No. 2: Medication must contain one (and only one) textual content corresponding to the medication label (Number: 0)
Name	Omeprazol Sandoz caps. EC 56x 20mg
Period	start: end:

Administrated vaccines

Figure 10 : Incorrect Sumehr visualization

4.3 Step 3: Validation Report

When a file is validated in the « Step 1: Sumehr Validation » frame, the validation report is automatically displayed in the validation table, bottom of the tool.

In addition, it is possible to view the report in a web browser with the [View HTML Report] button, and to save the report's visualisation with the [Save Report View] button. These two buttons are activated following a successful "step 1".

The report includes errors and warnings messages received during the validation process. An "error" is an important defect in the sumehr, which implies that the file does not contain a valid Sumehr. A "warning" shows a lack in the Sumehr, even if it doesn't involve the Sumehr is not correct.

By default, the warnings are not displayed. To view them, select the corresponding checkbox.

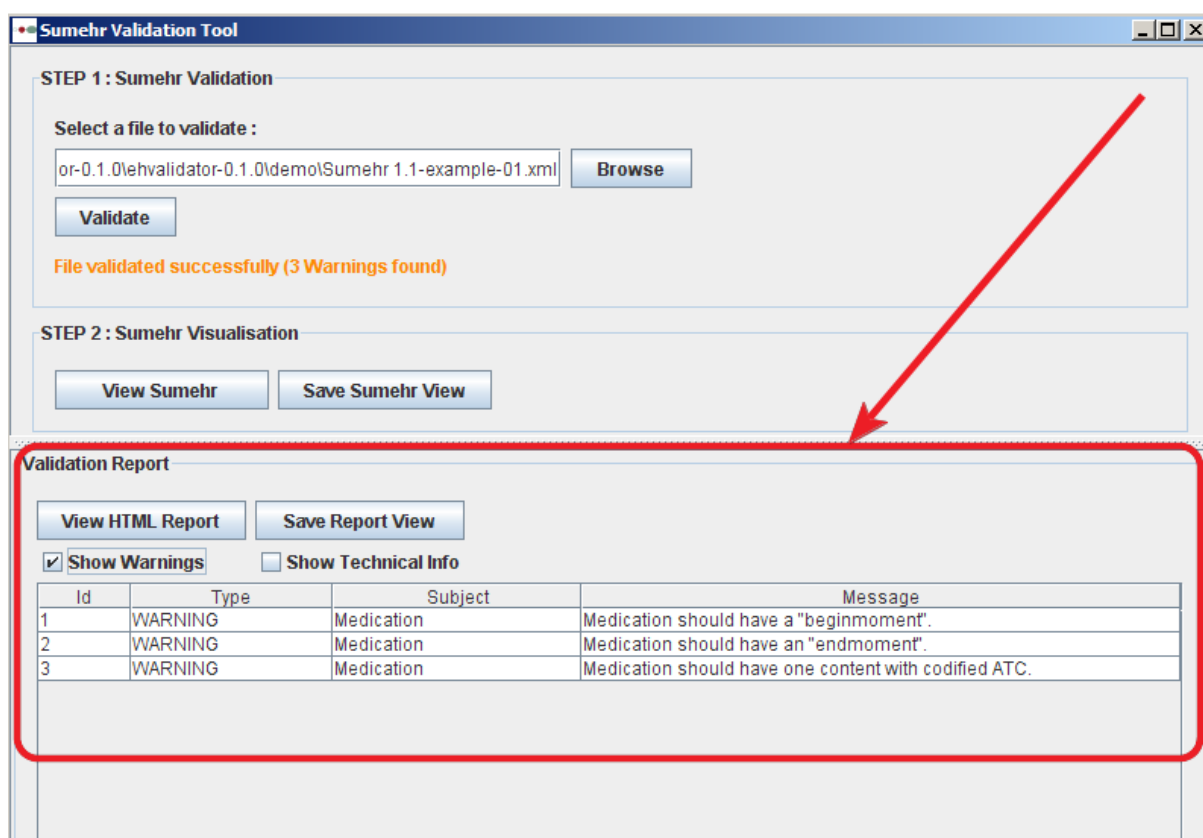


Figure 11 : Validation report frame

4.3.1 Activation of HTML report

- [View HTML Report] button: It opens the validation report in a new page of your default web browser.

- [Save Report View] button: It allows to save the Sumehr visualisation. Click on this button, select file's location and name, then click on [save]. Recorded file will be .html file, so you will be able to open it with any web browser.

4.3.2 Report description

This report view contains number of errors/warnings and a list about these errors/warnings. By default, only errors are displayed.

Sumehr validation report

Number of errors : 1

Number of warnings : 3 ([Click here to show / hide warnings](#))



No.	Type	Subject	Message	Line	Col	Location	Test
1	ERROR	Transaction	All transactions in Sumehr must have official "sumehr" codification. (CD-TRANSACTION here: "result")	66	36	/kmehr:kmehrmessage[1] /kmehr:folder[1]/kmehr:transaction[1] /kmehr:cd[1]	current() = 'sumehr'

Figure 12: Sumehr validation report example

Show / hide warnings:

You can show and hide warnings in the table by clicking on "Click here to show / hide warnings".

Sort by column:

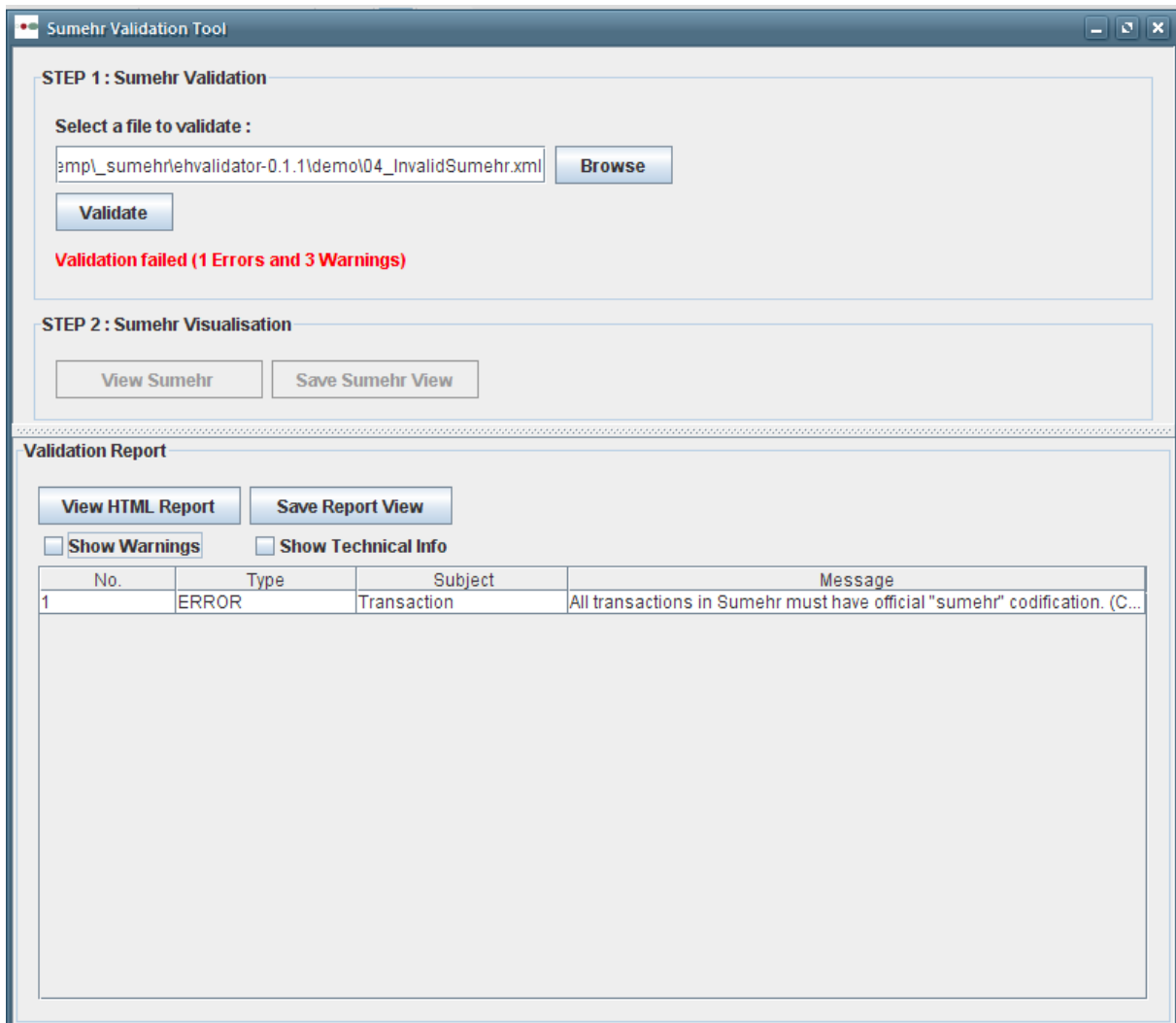
You can sort by column by clicking on column's title.

Columns description:

- **No:** incremental number for each message
- **Type:** shows if the problem is a « warning » or an « error »
- **Subject:** shows which section is involved. Examples: author, patient, medication, ...
- **Message:** description about error/warning
- **Line:** line in input file where mistake was encountered
- **Col:** column in the input file where mistake was encountered
- **Location:** XPath expression where the mistake was encountered
- **Test:** XPath test that fails

4.3.3 Report table

Messages appear automatically in this table during validation. By default, warnings and technical columns are not shown.



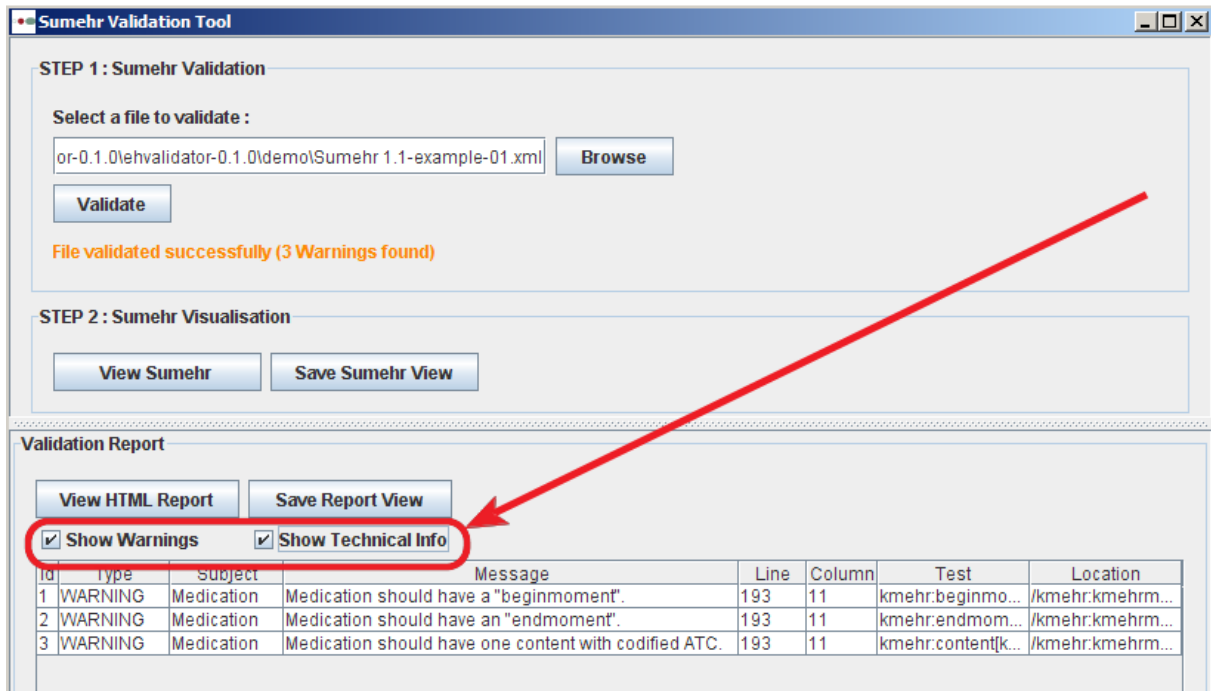
The screenshot shows the 'Sumehr Validation Tool' window. It has two main steps: 'STEP 1: Sumehr Validation' and 'STEP 2: Sumehr Visualisation'. In Step 1, a file path is entered in the 'Select a file to validate' field, and the 'Validate' button is clicked. Below this, a red message states 'Validation failed (1 Errors and 3 Warnings)'. Step 2 contains 'View Sumehr' and 'Save Sumehr View' buttons. The 'Validation Report' section at the bottom includes 'View HTML Report' and 'Save Report View' buttons, and checkboxes for 'Show Warnings' and 'Show Technical Info'. A table displays the validation results.

No.	Type	Subject	Message
1	ERROR	Transaction	All transactions in Sumehr must have official "sumehr" codification. (C...

Figure 13: Report Table

It is possible to resize this table height, resize columns width, move columns and sort columns by clicking on column's title.

Checkboxes:



STEP 1 : Sumehr Validation

Select a file to validate :

or-0.1.0\ehvalidator-0.1.0\demo\Sumehr 1.1-example-01.xml **Browse**

Validate

File validated successfully (3 Warnings found)

STEP 2 : Sumehr Visualisation

View Sumehr **Save Sumehr View**

Validation Report

View HTML Report **Save Report View**

☒ **Show Warnings** ☒ **Show Technical Info**

Id	Type	Subject	Message	Line	Column	Test	Location
1	WARNING	Medication	Medication should have a "beginmoment".	193	11	kmehr:beginmo...	/kmehr:kmehrm...
2	WARNING	Medication	Medication should have an "endmoment".	193	11	kmehr:endmom...	/kmehr:kmehrm...
3	WARNING	Medication	Medication should have one content with codified ATC.	193	11	kmehr:content[k...	/kmehr:kmehrm...

Figure 14: Report Table Checkboxes

- [Show Warnings] checkbox: When checked, warning lines are displayed in the report table.
- [Show Technical Info] checkbox: When checked, technical columns are displayed in the report table. By default, you can see columns: "No", "Type", "Subject" and "Message". Technical columns are: "Line", "Col", "Location" and "Test".

4.4 Error and warning messages

4.4.1 Technical errors

These messages appear in pop-up when a particular technical error is encountered.

Message	Meaning	What can I do ?
Failed to validate against the schema	<p>This message occurs when trying to:</p> <ul style="list-style-type: none"> validate a file that's not an XML file validate an XML file, but it's not a correct KMEHR file according to the KMEHR schema validate a KMEHR-like file, but there is no namespace declared <p>or when trying to</p> <ul style="list-style-type: none"> view a Sumehr or save a sumehr view, but selected file was modified after the validation step view an HTML Report or save a report view, but selected file was modified after the validation step 	<ul style="list-style-type: none"> check that you selected the correct file verify that the namespace is well declared in the selected file verify your selected file is a correct KMEHR file <p>start again the sumehr validation at step 1</p>
Bad command or file name	<p>This message occurs when you try to validate an input file that doesn't exist :</p> <ul style="list-style-type: none"> The file was deleted before you clicked on the [Validate] button You manually entered the file path and the file does not exist 	Select an existing file.
Failed schematron validation	This message occurs when a bug is encountered during validation step.	Please contact the eHealth platform Contact Center

4.4.2 Log file

This file logs technical information when technical problem occurs. You can find it in the "log" directory of the Sumehr Validation Tool installation directory.

You can change log severity by modifying the options in the configuration file `EhValidator.properties` located in the `cfg` directory.

4.4.3 Error / warning descriptions

These messages appear in the validation Report (report table and report HTML view) when a sumehr rule is violated.

Note: Variable fields in messages are not displayed here.

Subject	Type	Message
Namespace	ERROR	The correct kmehr namespace must be referenced: xmlns="http://www.ehealth.fgov.be/standards/kmehr/schema/v1".
Identification	ERROR	"" element can be identified by maximum one 'official' id element (ID-KMEHR).
Codification	ERROR	A local cd must have a "DN" attribute to describe. (Code: "")
Identification	ERROR	"" element must have maximum one INSS code. (Number:)
Identification	ERROR	INSS number must be correct - INSS:
Identification	ERROR	"" element must have maximum one INAMI/RIZIV code. (Number:)
Identification	ERROR	INAMI/RIZIV number must be correct. (id:)
Codification	ERROR	"" element must have maximum one code with official CD-HCPARTY. (Number: , Codes: "")
Identification	WARNING	"" element should be identified by one 'official' id element (ID-KMEHR).
Identification	WARNING	Official id (ID-KMEHR) for "" element must be correct. (ID's start with 1 and are sequential.) Actual id: . Preceding id: . Following id: .
Folder	ERROR	A Sumehr must have only one folder. (Number:)
Folder	ERROR	A "folder" element must have one transaction and only one. (Number:)
Transaction	ERROR	A Sumehr transaction must contain one cd value from CD-TRANSACTION and only one.
Transaction	ERROR	All transactions in Sumehr must have official "sumehr" codification. (CD-TRANSACTION here: "")
Transaction	ERROR	Sumehr transaction must be Complete.
Transaction	ERROR	Sumehr transaction must be Validated.
Patient	ERROR	Patient must have one INSS and only one. (Number:)
Patient	ERROR	Patient must have a birthdate.
Patient	WARNING	Patient should have an usual language.
Author	ERROR	Author last hcparty must have one INAMI/RIZIV and only one. (Number:)
Author	ERROR	Author last hcparty must have a familyname (and firstnames).
Author	ERROR	Author last hcparty must have a "persphysician" CD-HCPARTY code. (Codes: "")
Author	WARNING	Author last hcparty should have a INSS.
Author	WARNING	Author last hcparty should have at least one address.
Author	WARNING	Author last hcparty should have at least one telecom.
Item	ERROR	All items in Sumehr must be codified by one code CD-ITEM and only one. (Number:)
Item	ERROR	Item code in Sumehr must be one of these: "adr", "allergy", "socialrisk", "risk", "contactperson", "contacthcparty", "gmdmanager", "healthcareelement", "vaccine", "medication" . (CD-ITEM: "")
Content	ERROR	A content cannot be empty.
Risk	ERROR	"" must have one content and only one with "text" element (label). (Number:)
Risk	ERROR	"" must have maximum one content with "cd" elements (codification). (Number:)
Risk	ERROR	A "" content can contain only elements "text" or "cd". (Element: "")
Risk	WARNING	"" should have a content with codified informations (cd). (Label: "")

Codification	ERROR	A content must have maximum one ICPC code. (Number:)
Codification	ERROR	A content must have maximum one ICD code. (Number:)
Codification	ERROR	A content must have maximum one IBUI code (CD-CLINICAL). (Number:)
Codification	ERROR	"Codification / Version" used in "content" elements must be one of these: "ICPC 2", "ICD 10", "CD-CLINICAL 1.0", "CD-ATC 1.0", "CD-VACCINEINDICATION 1.0". (S="" and SV="")
Contact Person	ERROR	Contact Person must have one content person and only one. (Number:)
Contact Person	ERROR	A "Contact Person" content can contain only element "person". (Element: "")
Contact Person	WARNING	Contact Person should have a code (CD-CONTACT-PERSON) to describe the family tie.
Contact Person	WARNING	Contact Person should have at least one address.
Contact Person	WARNING	Contact Person should have at least one telecom.
Contact Hcparty	ERROR	A "Contact Hcparty" content can contain only element "hcparty". (Element: "")
Contact Hcparty	ERROR	Contact Hcparty must have one content with "hcparty" element and only one. (Number:)
Contact Hcparty	ERROR	Contact Hcparty must have maximum one INAMI/RIZIV number. (Number:)
Contact Hcparty	ERROR	Contact Hcparty must have a familyname (and firstnames).
Contact Hcparty	ERROR	A Contact Hcparty "role" (official CD-HCPARTY) must start with "pers". (Code: "")
Contact Hcparty	WARNING	Contact Hcparty should have one "role" with official CD-HCPARTY codification.
Contact Hcparty	WARNING	Contact Hcparty should have one INAMI/RIZIV number.
Contact Hcparty	WARNING	Contact Hcparty should have at least one address.
Contact Hcparty	WARNING	Contact Hcparty should have at least one telecom.
GMD Manager	ERROR	A "GMD Manager" content can contain only element "hcparty". (Element: "")
GMD Manager	ERROR	It must be maximum one GMD Manager in the Sumehr. (Number:)
GMD Manager	ERROR	GMD Manager must have one content hcparty and only one. (Number:)
GMD Manager	ERROR	GMD Manager must have one INAMI/RIZIV number and only one. (Number:)
GMD Manager	ERROR	If GMD Manager is a person (with familyname) then his "role" (official CD-HCPARTY) must be "persphysician". (Code: "")
GMD Manager	WARNING	GMD Manager should have at least one address.
GMD Manager	WARNING	GMD Manager should have at least one telecom.
Healthcare Element	ERROR	Healthcare Element must have one and only one content with "text" element (label). (Number:)
Healthcare Element	ERROR	Healthcare Element must have maximum one content with "cd" elements (codification). (Number:)
Healthcare Element	ERROR	Healthcare Element must have one element "lifecycle", either "active" or "inactive". (Number: , Value: "")
Healthcare Element	ERROR	A "" content can contain only elements "text" or "cd". (Element: "")
Healthcare Element	WARNING	Healthcare Element should have a content with codified informations (cd). (Label: "")
Healthcare Element	ERROR	Current Problem must have a "beginmoment".
Healthcare Element	WARNING	Relevant Passive Care Element should have an "endmoment".
Medication	ERROR	Medication must contain one (and only one) textual content corresponding to the medication label (Number:)
Medication	ERROR	Medication must have maximum one content with codified ATC. (Number:)
Medication	ERROR	Medication content must have maximum one codified ATC. (Number:)

Medication	ERROR	A "" content can contain only elements "text", "medicinalproduct", "substanceproduct", "compoundprescription" or "cd ATC". (Element: "")
Medication	WARNING	Medication should contain one and only one content "medicinalproduct" or "substanceproduct" or "compoundprescription". (Number:)
Medication	WARNING	Medication should have a "beginmoment".
Medication	WARNING	Medication should have an "endmoment".
Medication	WARNING	Medication should have one content with codified ATC.
Patientwill	ERROR	Patient Will must have one and only one content with "cd" element (code). (Number:)
Patientwill	ERROR	Patient Will must have maximum one content with "text" element. (Number:)
Patientwill	ERROR	A "" content can contain only elements "text" or "cd" with CD-PATIENTWILL codification. (Element:)
Vaccine	ERROR	Vaccine must have at least one content code CD-VACCINEINDICATION".
Vaccine	ERROR	Vaccine must have maximum one content with codified ATC. (Number:)
Vaccine	ERROR	Vaccine content must have maximum one codified ATC. (Number:)
Vaccine	ERROR	A "" content can contain only elements "medicinalproduct", "substanceproduct", "cd VACCINEINDICATION" or "cd ATC". (Element: "")
Vaccine	WARNING	Vaccine should contain one (and only one) content "medicinalproduct" or "substanceproduct". (Number:)
Vaccine	WARNING	Vaccine should have a "beginmoment".
Vaccine	WARNING	Vaccine should have one content with codified ATC.

5 How to use the library

This section is intended for advanced users / developers.

The ehValidator library is a Java library that is designed in order to be easily integrated into a Java application. It also features a command-line mode for debugging purposes.

For more details about the library, please refer to the bundled javadoc located in the `site` folder of the application.

This application depends mainly on the following libraries :

- probatron4j a schematron implementation for Java you can find on <http://code.google.com/p/probatron4j/>
- log4j a logging framework developed by the Apache Foundation you can find on <http://logging.apache.org/log4j/1.2/index.html>

To run the command-line application, open the command prompt or terminal for your operating system, go to the folder where you extracted the application and run the following command²:

```
<PROMPT> cd lib
<PROMPT> java -jar ehvalidator-core-XX.jar <FILENAME>
```

By default, this will tell you whether the file is valid or not.

To display command line usage :

```
<PROMPT> java -jar ehvalidator-core-XX.jar -h
```

If you prefer an XML report and do not want to output everything on the command-prompt window, you can redirect the output to a file using the following syntax :

```
<PROMPT> java -jar lib\ehvalidator-core-XX.jar -request xmlreport
<FILENAME> > report.xml
```

The error messages (if any) will still be displayed on screen. If the report could not be produced, the XML file will be empty.

If you prefer an HTML output, you may use the `htmlreport` command-line option :

```
<PROMPT> java -jar lib\ehvalidator-core-XX.jar -request htmlreport
<FILENAME> > report.html
```

A description of the available command-line switches is available when you launch the command without any arguments. You can use any of the provided demo files for validation purposes.

² Please note that the commands shown here are for the windows platform. On Linux and MacOS you'll need to replace the backslash with a forward slash :

```
<PROMPT> java -jar lib/ehvalidator-core-XX.jar <FILENAME>
```

6 What to do in case of trouble

In case of trouble, please contact the eHealth platform contact center :

- by phone (Monday – Friday, 07:00 – 20:00) : **02/788.51.55.**
- or by the contact form of the eHealth platform website:

French version:

<https://www.ehealth.fgov.be/fr/contactform/website/home/contactform.html>

Dutch version:

<https://www.ehealth.fgov.be/nl/contactform/website/home/contactform.html>