## 2. Ambulant Visit

## Basic flow: Home medication EHR section is already in sync with Vitalink

•••	Hospital software					
ME	DICAL FILE • NAVIGATION					
			HOME			
						💎 🔉 sync with Vitalink
۲	List O Scheme	⊕ N	ew 🕼 Prescribe → Adm med	<ul> <li>Validate</li> </ul>	Patient scheme	Sort by 📃 🔻
Deselect	all PRODUCT V ADM	INISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	
୍ ଟ୍ର ପ	nronic					
V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	~ :
	(amlodipine EG 5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	~ :
V	(betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	~ :
₹	(lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	~ :
V	Burinex 1 mg (burnetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	~ :
•	(informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose	~ :
🗹 A	cute					
	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	× :
	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019 - 23.06.2019	Slaapmiddel	~ :
🗹 If	needed					
V	<b>Ibuprofen EG</b> (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn	~ :

Example when the system is still working on the sync with Vitalink.

- In this wireframe, the home medication of the local EHR is visible.
- It is visible that the system is **syncing** with **Vitalink** (upper right corner).
  - This is done automatically, without interference of the healthcare professional.
  - It is important that the automatic sync starts when opening the EHR of the patient (and not only when opening the medication module of the EHR).
  - The healthcare professional should be aware that the system is syncing with Vitalink. Therefore it is recommended to use an icon and/or textual label expressing what the system is doing.
  - The sync can only be done with Vitalink if IC & circle of trust are OK.
- While syncing, the healthcare professional can do all actions in the medication module of the hospital software (add new medication, represcribe, transfer to admission medication, ...).
- It is possible to validate the active medication list of the local EHR; but preferably this is only done when the Vitalink data are synced with the medication data of the local EHR.
- The automatic import and analysis of the information from the Vitalink medication scheme should take a minimum of time. Preferably 4 to 6 seconds or less; with a maximum of 10 seconds.

MEDICAL FILE • © List © Chronic © Omneprazol (omneprazol	NAVIGATION           Scheme           CT           ADMINISTRATION           le EG 20 mg e 14x20 mg)           tabl           EG 5 mg 56x5 mg)           tabl	HOME MEDICATION New	Validate & update Vita start date stop date 27.03.2019	Ink Patient scheme Incication & comment Maagzuurremmer 30 min, voor het ontbijt.	Updated: 2 Sort by	9.05.20	ri9, 19:30
List     Deselect all     PRODUC     Chronic     Omneprazol     (omneprazol	Comparison         Comparison           CT ∨         ADMINISTRATION           Ie EG 20 mg ie 14x20 mg)         tabl           EG 5 mg 56x5 mg)         tabl	HOME MEDICATION New	Validate & Validate & Validate & Vialidate & Stop Date START DATE STOP DATE 27.03.2019	NINK Patient scheme INCICATION & COMMENT Maagzuurremmer 30 min. voor het ontbijt.	Updated: 2 Sort by	9.05.20	r19, 19:30
List     Deselect all     PRODUC     Chronic     Omneprazol     (omneprazol	Scheme         Image: Complex	MEDICATION New	Validate & update Vita start date stop date 27.03.2019	Nink Patient scheme NOICATION & COMMENT Maagzuurremmer 30 min. voor het ontbijt.	Updated: : Sort by	9.05.20	▼
List     Deselect all     PRODUC     Chronic     Omneprazol     (omneprazol	Scheme         ●           tt         <         ADMINISTRATION           le         EG 20 mg         tabl           le         56x5 mg         tabl	New	Validate & update Vita start Date stop Date 27.03.2019	Ilink Patient scheme INDICATION & COMMENT Maagzuurremmer 30 min. voor het ontbijt.	Sort by		<b>v</b>
Deselect all PRODUC	ADMINISTRATION           le EG 20 mg         tabl           e 14x20 mg)         tabl           EG 5 mg         tabl	e posis 1x per dag	START DATE         STOP DATE           27.03.2019	INDICATION & COMMENT Maagzuurremmer 30 min. voor het ontbijt.	~		
Chronic Chronic Omneprazol (omneprazol	le EG 20 mg tabl EG 5 mg 56x5 mg) tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	<b>v</b>		
(omneprazol	Ie EG 20 mg         tabl           ie 14x20 mg)         tabl           EG 5 mg         tabl           56x5 mg)         tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	♥		
	EG 5 mg 56x5 mg) tabl	1/0x per dag voor opthijt 1x per dag voor ovendmooltijd				~	:
(amlodipine		1/2x per dag voor ontoijt, 1x per dag voor avondmaatijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	♥	~	:
(betahistine 8	EG 16 mg 84x16 mg) tabl	3x per dag	12.02.2016	Duizeligheid	♥	~	:
(lactulose 50	EVA I0 ml) siroop	15 ml per dag	27.03.2019	Stoelgang	♥	~	:
Burinex 1 m (burnetamide	e 30x1mg) tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	:
(informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:
🗹 Acute							
(informatie 10	tabl 0x250 mg)	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	V	~	:
(informatie 30	am EG 0x2 mg) tabl	1x per dag	09.06.2019	Slaapmiddel	♥	~	:
🗹 If needed							
(informatie 3	<b>:G</b> tabl I0x400 mg)	Tot 3x per dag, 1 tablet bij het elen. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn		~	:

Example when the sync with Vitalink is completed.

- Here, it is visible that the sync with Vitalinkis completed (upper right corner). The healthcare professional can be informed about this by:

  - Using a meaningful icon, combined with another icon expressing a status.
     Information about the latest validation date of the Vitalink medication scheme (in this case: 29.05. 2019, 19:30).



If the user wants to obtain more information (e.g. validated by, sync info, version number, ...) or wants to do manually a new sync with ٠ Vitalink, this information can be provided via a tooltip when moving over this status information. For example:



Example when the latest validation was done by a general practitioner.



Example when the latest validation was done by a specialist in an hospital (the hospital + name of the specialist will be visible).

- When the sync with Vitalink isn't possible, it should be indicated that the sync couldn't be done successfully (status information).
   When doing a mouse over, more information about the failure should be provided via a tooltip.
  - It should be possible to initiate a new sync with Vitalink.



- When there isn't a Vitalink medication scheme for the patient, this should be indicated.
  - ° It should be possible to create a Vitalink medication scheme for the patient via 1 click.
  - When checking the check box in the example below, the medication list that is validated by the healthcare professional will be uploaded to Vitalink at the end of the contact.



- In the examples above, each time Vitalink is addressed as external source.
- If Réseau Santé Wallon is addressed as external source, the RSW icon & textual label should be used.

#### blocked URL

• If Réseau Santé Bruxellois is addressed as external source, the RSB icon & textual label should be used.

blocked URL

•••	Hospital software					
ME	DICAL FILE • NAVIGATIO	N				
		Ø !	IOME			
						Updated: 31.05.2019, 14:30
۲	List O Scheme	() N	ew 💽 Prescribe → Adm med	Validate & update Vit	talink Patient scheme	Sort by 📃 📼 🔻
Deselect a	PRODUCT V	ADMINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	
🗹 Ch	ronic					
V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	😯 🔶 E
V	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	✓ ÷
V	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	✓ ÷
V	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	💙 🖌 E
V	Burinex 1 mg (burnetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	<b>v</b> :
V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose	<b>?</b> ~ :
🗹 Ac	ute					
V	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	<b>⊽</b> ∨ :
V	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019	Slaapmiddel	<b>?</b> * :
🗹 lfn	eeded					
V	Ibuprofen EG (informatie 30x400 mg)	tabi	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn	<b>?</b> ~ !

Example when the home medication of the EHR is in sync with the Vitalink medication scheme (Basic flow).

• When the sync with Vitalink is done, it is visible in the wireframe that there is **no difference** between the home medication of the local EHR and the medication on Vitalink.

° If there would be a difference, the medication lines coming from Vitalink would be highlighted & labeled (cfr. next wireframes).

## Variant 1: There is no Home Medication data in the EHR

	Hospital software					
ME	DICAL FILE • NAVIGATION					
		Ø !				
						Vpdated: 29.05.2019, 19:30
۲	List O Scheme	🕀 Ne	ew 📝 Prescribe → Adm med	validate & update Vita	alink Patient scheme	Sort by 📃 💌
Deselect a	all PRODUCT V ADM	INISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	
Chi	ronic					
V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	💙 🗸 : new
	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	v : new
	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	₩ v :
<b>S</b>	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	v : new
Ľ	Medication abc (informatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019		V i
V	Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	💙 🗸 : now
V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose	V : new
🗹 Ac	ute					
V	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	₩ × ÷
V	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019	Slaapmiddel	♥ v :
🗹 ifn	needed					
V	Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn	₩ v : new

Example when there is no home medication of the EHR. All medication lines are coming from Vitalink (variant 1).

- When the sync with Vitalink is done, it is visible in the wireframe that all medication lines are coming from Vitalink. There was **no home medication in the EHR**.
  - ° It is visible that the medication lines are coming from Vitalink due to the highlighting colour, the icon & the label 'new'.

# Variant 2: Home Medication in the EHR is outdated vs. Vitalink medication scheme

••	Hospi	ital software							
,	MEDICAL F	ILE • NAVIGATION							
			A He He	DME					
						<b></b>	Updated: 29.0	5.2019,	19:30
0	List	O Scheme	🕀 Nev	v 🕜 Prescribe 🔶 Adm med	update Vital	ink Patient scheme Sort by			Y
Desele	<u>ct all</u> P	PRODUCT V ADMIN	IISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT			
R	Chronic								
(	Omne (omne	eprazole EG 20 mg eprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	V	~	:
(	Amloo (amloo	dipine EG 5 mg dipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	V	~	:
(	Betah (betah	nistine EG 16 mg nistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	7	~	:
(	Lactur (lactur	lose TEVA lose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	7	~	:
	Medic (inform	<b>ation abc</b> natie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019		new	~	:
(	Burin (bume	<b>ex 1 mg</b> etamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	:
(	✓ D-CUI (inform	<b>RE</b> natie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:
লি	Acute								
(	Amox (inform	<b>ticlav</b> natie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	•	~	:
6	Cinform	etazepam EG natie 30x2 mg)	tabl	1x per dag	09.06.2019 - 23.06.2019	Slaapmiddel	•	~	:
	lf needed								
(	(inform	ofen EG matie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn		~	:

Example when the Vitalink data is displayed in a combined overview with the local EHR medication. Here it is visible that one new medication line is added via Vitalink (variant 2).

- In this wireframe, the **combined overview** is visible. This means that the home medication of the local EHR is visualized together with the Vitalink medication data.
  - It is important that the user can see at a glance what is new (added), changed, stopped on Vitalink in comparison with the
    previous active medication in the local EHR that the healthcare professional has checked with the patient during a previous conta
    ct.
  - Medication lines that have no Vitalink icon are medication lines coming from the local EHR (in this case 3 medication lines).
- It is important that there is a visual difference between data from Vitalink vs. data from the local medication scheme of the EHR.
- In this example, it is visible that new medication was added on Vitalink.
  It is important that a changed medication, stopped medication, added medication is clearly indicated (here: the label 'new' is used in combination with the Vitalink icon) (cfr. next wireframe).
- List view vs. scheme view: the healthcare professional should be able to select the preferred view of the active medication list (combined overview).
  - The list view in the wireframe illustrates only an example. It should be adapted towards the needs of the healthcare professionals (extra columns, features, ...).
  - It is very important for healthcare professionals to have an **hour scheme** visualization. This means that the Vitalink data should be mapped on the hour scheme which will result in an hour medication scheme that the healthcare professional is used to.
- A 'Sort by' feature should provide sorting on alphabetical order, ATC class, CNK code, medication type (e.g. antibiotics), ...
   When using the sort feature, all items will be sorted in this way, each time within the section chronic, acute, if needed.



- There should be an action button/link to the print feature of the patient friendly medication scheme.
- Vitalink offers a central print functionality to print a medication scheme for the patient (cfr. guidelines about Vitalink print scheme).
   This combined overview should be enriched with features of the software (e.g. check on interactions, edit medication line, prescribe selection of medication, ...).
- Here, it is visible that a **new medication** line was added on Vitalink.
  - ° This medication line is visualized in a combined overview with the medication of the local EHR.
  - ° This new medication line is highlighted to indicate that this is data coming from outside the EHR.
  - $^{\circ}\;$  This new medication line receives an icon, indicating the source.
  - This new medication line receives a label (new), indicating that it concerns a new added medication line.
- When the healthcare professional agrees with the combined overview, he/she doesn't have to take any action.
- Only when the healthcare professional doesn't agree, action should be taken (cfr. next wireframe with drop down menu).

		Hospital software					
	ME	DICAL FILE • NAVIGATION					
			- P H				
					Validata 8		Vpdated: 29.05.2019, 19:30
	۲	List O Scheme	🕀 Ne	w	validate & update Vital	link Patient scheme	Sort by
Des	select a	all PRODUCT V ADMI	NISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	
☑	Chr	ronic					
	⊻	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	✓ ÷
	V	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	✓ :
	V	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x 1/2 per dag	29.05.2019	Duizeligheid	💙 🗸 E
		Botahistine EG 16 mg (betahistine 84x16 mg)	tabi	<del>3x 1 per dag</del>	<del>12.02.2016</del>	Duizeligheid	~ :
	V	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	<b>v</b> :
		Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	× :
	V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose	~ :
V	Acı	ute					
	2	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	✓ ÷
		Lormotazopam EG (informatio 30x2 mg)	tabi	<del>1x per dag</del>	<del>09.06.2019</del>	Slaapmiddel	v : stopped
V	lf n	eeded					
		Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn	~ :

The Vitalink data is displayed in a combined overview with the local EHR medication. Here it is visible that one medication line is changed via Vitalink. One medication line is stopped via Vitalink.

In this example, it is visible that one medication line has been changed on Vitalink. One medication line has been stopped.
 These medication lines are visualized in a combined overview with the medication of the local EHR.

#### • For the changed medication:

- This changed medication line is highlighted to indicate that this is data coming from outside the EHR.
- This medication line is visualized closely together with the related medication line(s) that already existed in the local EHR.
  - This can be done based on the unique URI that each medication line has.
  - This can be done based on the product name, substance name, ...
  - By doing so, it is easier for the healthcare professional to analyse and decide on the medication lines.
- ° This changed medication line receives an icon, indicating the source.
- This changed medication line receives a label (change), indicating that it concerns a changed medication line.
- The medication line that is changed becomes 'strike through'.
- For the **stopped medication**:
  - This stopped medication line is highlighted to indicate that this is data coming from outside the EHR.
    - The stopped medication line receives another colour to make sure this attracts the attention of the healthcare professional.
  - ° This stopped medication line receives an icon, indicating the source.
  - This stopped medication line receives a label (stopped), indicating that it concerns a stopped medication line.
  - The medication line that is stopped becomes 'strike through'.
- When the healthcare professional **agrees** with the combined overview (agreement with changed medication line & stopped medication), he/she doesn't have to take any action.
- Only when the healthcare professional doesn't agree, action should be taken (cfr. next wireframe with drop down menu).
- It is highly recommended to not use too many colour indications for highlighting data coming outside the EHR.
  - <sup>o</sup> Therefore, only one colour is used to indicated new medication & changed medication lines.
    - $^{\circ}~$  Another colour is used for highlighting stopped medication lines.

#### Actions possible on a medication line

	⊻	(amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Poge bloeddrak Vermijd pompelmoes.	<b>V</b>	~	:
	V	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x 1/2 per dag	29.05.2019	Duizeligheid	~	~	:
		Botahistine EG 16 mg (botahistine 84x16 mg)	tabl	<del>3x 1 per dag</del>	<del>12.02.2016</del>	Duizeligheid	<ul> <li>Edit</li> <li>Prescri</li> </ul>	be	-
	•	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	× Reject	change	_
		Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	History		-
	V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose			~
☑	Acı	ite							
		Amoxiclav	4-1-1		00.06.2010 15.06.2010	Hoest vastzittend	-		

Actions via drop down menu: possible to edit changed medication line, prescribe, reject change, check history, ...

- For all medication lines, it is possible to do some actions per medication line.
  - This can be done by clicking on the ... indication which is positioned in a vertical way at the end of the medication line.
     Next, a drop down list with actions will appear.
- Possible actions for a new / changed medication line are:
  - Edit (edit posology, comment, ...)
  - Prescribe (make new prescription for patient)
  - Reject change (reject the change that was done on Vitalink, the previous medication line (this is now striked through) will become active again)
  - History (check history of posology and other related information)
    - In this case, the medication line can fold open, displaying an overview of all changes over xx time.
      - Another option is displaying a screen overlay with all changes over xx time.
      - Keep in mind, this is a software feature; this means that the software provides the feature to display the history of all changes that has been made towards a medication line).

	•	(informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	THUSE PUBLICITY	V	~	:
		Lormotazopam EG (informatio 30x2 mg)	tabi	<del>1x per dag</del>	<del>09.06.2019</del>	<del>Slaapmiddel</del>	💎	✓ ate	:
☑	lfn	eeded					A History		-
	•	Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn			-

Actions via drop down menu: possible to re-activate stopped medication line, check history, ...

- Possible actions for a stopped medication line are:
  - Re-activate (make medication line active again)
  - History (check history of posology etc, this is a software feature, no Vitalink feature, cfr. explanation above)
- When a medication line is stopped, the software still shows the medication line until a healthcare professional removes this medication line manually.
- By default, this medication line is not selected when transferring all medication lines to Vitalink.
- The drop down list with actions visualised in the wireframe is only an illustration and is not restrictive.
- This can be enriched with existing features within the hospital software (e.g. substitute, stop medication, instructions of use, ...).

•	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.		V	~	:
	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x 1/2 per dag	29.05.2019	Duizeligheid	Edit <u>Edit</u>	<b>v</b> change	~	:
	Betahistine EG 16 mg (betahistine 84x16 mg)	tabi	<del>3x 1 por dag</del>	<del>12.02.2016</del>	Duizeligheid			~	:
	(lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang		V	~	÷

Quick access to most important features when validating, e.g. edit or reject changed medication line. More features are available via drop down menu.

	⊻	Amoxiciav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	moest vastzitteno	•	~	:
		Lormetazopam EG (informatic 30x2 mg)	tabl	<del>1x per dag</del>	<del>09.06.2019</del>	<del>Slaapmiddel</del>	Arr Re-activate Stopped	~	:
V	lf n	eeded							
		Ibuprofen EG	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen.	27.03.2019	Pijn		~	:

Quick access to most important features when validating, e.g. re-activate stopped medication line. More features are available via drop down menu.

- When validating medication and when confronted with several changes from Vitalink towards the local medication in the EHR, it can also be useful to have a very quick access to the most important features:
  - · Edit & reject (in case of new/changed medication line coming from Vitalink)
  - Re-activate (in case of stopped medication line coming from Vitalink).
    - This means that de healthcare professional can reinitiate the previous state of the medication line (cfr. previous medication state in history overview of that medication).

V	(amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bioeddruk Vermijd pompelmoes.	V	~	:
•	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x 1/2 per dag	29.05.2019	Duizeligheid	<b>v</b> change	~	:
	Botahistine EG 16 mg (botahistine 84x16 mg)	tabl	<del>3x 1 per dag</del>	<del>12.02.2016</del>	<del>Duizolighoid</del>		~	:
	(lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	•	^	:
	Additional details like creator	of medicati	on line,					
•	Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	:
	D-CURE	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:

Example when medication line is folded out to see more details.

- It is also possible to fold out a medication line to see more details like creator of the medication line, ...
- This action can be done by clicking on the arrow pointing down. Next, the section with details will fold out.

#### Validating at the end of the ambulant visit

•••	Hospital software										
ME	MEDICAL FILE • NAVIGATION										
		- 🖌 H									
						<b>V</b> pdated: 29.05.	2019, 1	9:30			
۲	List 🔘 Scheme	🕀 Ne	w 🕜 Prescribe 🔶 Adm med	Validate & update Vital	ink Patient scheme	Sort by		T			
Deselect a	II PRODUCT V ADMIN	NISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT						
🗹 Chi	ronic										
V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	•	~	:			
V	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	•	~	:			
	Betahistine EG 16 mg	te bi	2. non des	40.00.0040	Duizeligheid	_					

Example of 'Validate & update Vitalink' button on top of the list of the combined overview of the active medication.

- After checking the active medication with the patient, updating medication and / or prescribing medication, the healthcare professional will **validate** the medication scheme (the combined overview).
- Like already indicated:
  - When the healthcare professional **agrees** with the combined overview (agreement with changed medication line & stopped medication), he/she doesn't have to take any action.
  - When the healthcare professional **doesn't agree**, action should be taken to edit, reject, re-activate, ...the medication lines until correct.
- Validating the combined overview will work the same as validating the active medication in the local EHR: the healthcare professional will have to validate the medication scheme and at the same time, the information will be uploaded to Vitalink.
  - By default all medication lines would be selected (check boxes will be checked) to upload to Vitalink.
    - The healthcare professional can de-select medication lines in the exceptional cases they would not wish to share those with other healthcare professionals.
    - This action entails a big risk and thus a specific confirmation should be asked if the healthcare professional is sure he/she does not want to update medication line X to Vitalink.

MEDICA	L FILE • NAVIGATIO	DN					
		- MEDICATION					💎 😅 sync with Vitalink
List	O Scheme	🕀 New 📝 Pro	escribe 🔶 Adm med		Validate	Patient scheme	Sort by
Deselect all	PRODUCT V	ADMINISTRATION	DOSIS	START DAT	E STOP DATE	INDICATION & COMMENT	
C. Observice							

Example when the system is still working on the sync with Vitalink. The healthcare professional can already validate (without sending data to Vitalink).

- When the sync with Vitalink is not yet done, and when the healthcare professional would like to validate already, it is possible to validate & continue. This means that no update to Vitalink is send for this patient.
  - But normally this shouldn't be this case since the sync & analysis of the combined overview should be done in 4 to 6 seconds or less; with a maximum of 10 seconds.

••• Hos	spital software			
MEDICAL	FILE • NAVIGATIO	ИС		
				No Vitalink medication scheme available
List	O Scheme	⊕ New  Prescribe → Adm med	Validate & create Vitalink 🖶 Patient scheme	Create Vitalink medication scheme when validating medication list Sort by
Deselect all	PRODUCT V	ADMINISTRATION DOSIS	START DATE STOP DATE INDICATION & COMMENT	

Example when there is no Vitalink medication scheme for the patient. By default it is indicated that a Vitalink medication scheme will be created when validating the active medication.

The healthcare professional can uncheck this option and continue with only (internal) validating.

• When there isn't yet a Vitalink medication scheme for the patient, this is indicated via status information.

- Next, the healthcare professional can validate and create a Vitalink medication scheme at the same time.
- It should be set by default that if there not no Vitalink medication scheme, a new one will be created when validating the medication.
- ° The healthcare professional can uncheck this option and can continue with only internal validating the active medication.

#### Partial upload of the medication scheme to Vitalink

		🔊 НОМЕ						
	complete	MEDICATION	litalink					
t ()	complete	valuation of medication to v	/Italifik					
C PRI								
apprazole F	A	You are not transferring all activ	e medication to	wards Vitalink. Please select all medication.				
eprazole 1								
odipine EG				Close patient record Validate &	update Vitalink			
odipine 56>								
histine EG	Deselect al		MINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT		
ulose TEV	🗹 Chr	onic						
llose 500 n		Ompenrazole EG 20 mg				Maagzuurrommor	_	
cation abo	S	(omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	30 min. voor het ontbijt.	V	~
matie 56x2	V	Amlodipine EG 5 mg	tabl	1/2x per dag voor onthijt 1x per dag voor avondmaaltij	d 15.05.2016	Hoge bloeddruk		~
nex 1 mg		(amlodipine 56x5 mg)	tabi	nzx per dag voor ontbijt, ix per dag voor avondmaanij	u 15.65.2010	Vermijd pompelmoes.	-	
etamide 30	V	Betahistine EG 16 mg	tabl	3x per dag	12.02.2016	Duizeligheid	7	~
IRE matie)		Lactulose TEVA				Stoelgang	_	
mado)	0	(lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Closigung	V	~
		Medication abc	tabl	2v per dag veer maghiid	29.05.2019 -		_	
xiclav	0	(informatie 56x2 mg)	tabi	zx per dag voor maaruju	23.03.2013		V	~
matie 10x2		Burinex 1 mg	tabl	tu per der me une ur	21.02.2018	Vochtafdrijvend		~
netazepam		(bumetamide 30x1mg)	labi	ix per dag illa, woe, vi	21.03.2010			-
made 30A		D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		$\sim$
ed		,						
rofen EG	🗹 Αςι	ite						
matie 30x4		Amoxiclav	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	•	~
		(informatie 10x250 mg)						
	1	Lormetazepam EG	tabl	1x per dag	09.06.2019	Slaapmiddel	7	~
		(mormatie soxz mg)						
	🗹 lfn	eeded						

Example of notification when the healthcare professional validates the medication scheme without selecting all medication.

- If validating the active medication list / scheme without selecting all medication lines:
  - A notification appears with the message to select all medication lines.
  - ° Below the action buttons, the medication list / scheme should be visualized.
    - In this way, the healthcare professional can easily check / select & validate towards Vitalink.

### No Vitalink update when closing patient record

• • •	Hosp	ital softwa	re										
м	EDICAL I	ILE • N	AVIGATION										
			ме	DICATION									
		No Vitali	nk update								×		
	List										-	V	
Deselect	<u>al</u> hronic		No			_							
			Tou are closing the patier	n record without t	poaung the medication towards the vitalink medication schemi	Β.							
2	(omn				Close patient record	Indate Vitalink						~	
	Amle											~	,
	(amic	Deselect a	I PRODUCT V A	DMINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT						
	(beta	🗹 Ch	ronic									~	
2	Lact	V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	V	~	:		~	
	Medi (infor	⊻	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	V	~	:		~	
	Buri (bum	2	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	V	~	:		~	-
	D-CL (infor	8	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	V	~	:		~	-
<b></b>	cute	V	Medication abc (informatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019		V	~	:			
•	Amo (infor	2	Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	÷		~	
•	Lorn (infor	V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:		~	
🗹 If	needed	🗹 Aci	ute										
	lbup (info	V	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	V	~	:		~	,
		8	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019	Slaapmiddel	V	~	:			
		🗹 lfn	eeded										
		V	Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn		~	:			

Example of notification when the healthcare professional closes the medical record without validating & updating the medication scheme towards Vitalink.

- If closing the patient record without validating & updating the medication scheme towards Vitalink:
  - $^{\circ}\;$  A notification appears with the question to update Vitalink or not.
  - Below the action buttons, the medication list / scheme should be visualized.
  - $^{\circ}~$  In this way, the user can easily check & validate towards Vitalink.
- When a change or other action is necessary, the healthcare professional can start from here (using the drop down list with actions).

#### Patient Print



•••	Hospital sof	tware		
ME	DICAL FILE	NAVIGATION		
		MEDICATION	5.2019,	19:30
۲	List O			v
Deselect a		Print 🖨 🎽 Print & update Vitalink		
Ch	ronic			
V	Omneprazo (omneprazo		~	
1	Amlodipine		~	
	Betahistine			
			~	:
	Lactulose 5		~	
	Medication			
		Visualisation of patient medication scheme	~	
V	Burinex 1 r		~	
V	D-CURE (informatie)		~	
🗹 Ac	ute			
V	Amoxiclav (informatie		~	
	Lormetaze		~	
🗹 lfr	leeded			
	Ibuprofen I (informatie		~	
			]	

Example of screen overlay with visualization of patient friendly medication scheme. As from here, it is also possible to validate & update the medication scheme towards Vitalink.

- An alternative for validating & updating to Vitalink at the end of a contact is doing so when having the patient friendly medication screen open. Often this is one of the last actions the healthcare professional does when working in the patient file.
  - The healthcare professional can choose if he/she wants to print or wants to print & immediately validate the medication scheme towards Vitalink.
  - <sup>o</sup> In this way, the healthcare professional doesn't need to validate anymore before closing the patient file in the EHR.
- As an alternative, it is also possible to use the Patient medication scheme that is provided by Vitalink. This will be offered in pdf format.

#### Support staffs prepares patient visit

		Hospital software					
N	ие	DICAL FILE • NAVIGATION					NURSE / SECR / PHARMA ASSIST
			ا <u>م</u>	IOME			
			· ·				💙 🔉 sync with Vitalink
0	۲	List O Scheme	() N	ew	<ul> <li>Register</li> <li>internal che</li> </ul>	eck Patient scheme	Sort by
Desele	oct a	all PRODUCT V A	ADMINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	
	Chi	ronic					
6	₹	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	~ :
6	₹	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	× :
6	₹	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	v :
6	3	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	~ :
6	¥	Burinex 1 mg (burnetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend	~ :
6	¥	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose	~ :
<b>.</b>	Асі	ute					
6	<b>3</b>	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	~ :
6	¥	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019 - 23.06.2019	Slaapmiddel	~ :
<b>I</b>	lf n	eeded					
6	2	Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn	× :

Example when a nurse, pharmacist assistant or medical secretary opens the medication module of the EHR.

- Often a nurse, hospital pharmacist assistant or a medical secretary prepares an ambulant visit.
- This healthcare professional checks for example upfront the active medication of a patient.
- This type of healthcare professionals have **no validation rights** related to the active medication, but they indicate in the local EHR that the medication is checked.
  - Therefore they use the action button 'register internal check'.
  - In this wireframe, this button is active but not highlighted since the Vitalink sync is not yet done.
- This type of healthcare professionals can add / edit / stop / ... medication in the local home medication of the EHR, just in an informative way (to inform the healthcare professional with validation rights).
- When a nurse, pharmacist assistant or medical secretary would open the patient record in the EHR, the system will start automatically c hecking if there is a Vitalink medication scheme for this patient. If yes, there will be a sync with Vitalink.
- Here, it is visible that the system is syncing the local EHR home medication list with the Vitalink medication scheme.

	Hospital software							
ME	DICAL FILE • NAVIGATION						IRSE / IARMA	SECR / ASSIST
		Ø <sup>H</sup>	OME					
		M	EDICATION			<b>U</b> pdated: 29.0	5.2019,	19:30
۲	List O Scheme	🕀 Ne	w	<ul> <li>Register</li> <li>internal ch</li> </ul>	eck Patient scheme	Sort by		T
Deselect a	ADMIN	ISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT			
Ch	ironic							
V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	•	~	:
	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	♥	~	:
	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	♥	~	:
Ľ	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	V	~	:
	Medication abc (informatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019		<b>T</b> new	~	:
V	Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	÷
V	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:
🗹 Ad	ute							
V	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	~	~	:
V	(informatie 30x2 mg)	tabl	1x per dag	09.06.2019 - 23.06.2019	Slaapmiddel	•	~	:
🗹 if ı	needed							
V	(informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn		~	:

Example when a nurse, pharmacist assistant or medical secretary can add/edit/stop medication and register internal check (once Vitalink is synced).

#### -- Nurse, hospital pharmacist assistant or a medical secretary checks medication list and this list is correct

- After syncing with Vitalink, it is visible that one new medication line is added from Vitalink to the local EHR medication list.
- 3 medication lines are only available in the local EHR (they have no Vitalink icon).
   Since the sync with Vitalink is done, the button to register that the medication is checked becomes highlighted.
- The nurse, pharmacist assistant or medical secretary will check with the patient if all medication listed is still relevant (= actively taken).
- If the patient indicates that the listed medication is correct (= combined overview of local medication list of the EHR and the medication on Vitalink), the nurse / pharmacist assistant / medical secretary will do what he/she normally does: click on 'Register internal check'.
- This will result in an additional date, which would be the internal check date (visible on the next wireframe).

#### -- Nurse, hospital pharmacist assistant or a medical secretary checks medication list and this list is not correct

- When the nurse / pharmacist assistant / medical secretary is changing a medication line of the home medication of the EHR, the medication line becomes highlighted (+ icon + textual label).
  - $^{\circ}~$  The same for adding, stopping, ... home medication from the EHR.
- When the nurse / pharmacist assistant / medical secretary should change / stop a **medication line from Vitalink** (according to the information the patient is providing), this **isn't possible** due to the access rights to Vitalink.
  - Since the nurse / pharmacist assistant / medical secretary can't change a Vitalink medication line, the EHR allows for **duplication of a medication line**. In this way, the healthcare professional can report the changes stated by the patient.
    - This action will result in a duplicated medication line that is only available in the local EHR.
    - It is important that the URI of the medication line is copied when duplicating !
    - These two medication lines (original medication line coming from Vitalink & medication line that is duplicated and changed) are grouped / visualized together.
    - These two medication lines can never be both validated towards Vitalink.
  - <sup>o</sup> Duplicating a medication line will be done via an action on the drop down menu.
- Next, the nurse / pharmacist assistant / medical secretary clicks on 'Register internal check'.
- This will result in an additional date, which would be the internal check date (visible on the next wireframe).

•••	Hospital software							
м	EDICAL FILE • NAVIGATION					e	) sp	ECIALIST
		л н	ОМЕ					
						<b>Updated:</b> 29.	35.2019	19:30
۲	List O Scheme	🕀 New		Validate & update Vita	link Patient scheme	Sort by -	16.2019	v 10:05
Deselect	all PRODUCT V AI	DMINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT			
l ⊂ c	hronic							
۲	Omneprazole EG 20 mg     (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.	♥	~	:
•	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.	♥	~	:
•	Betahistine EG 16 mg (betahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid	♥	~	:
	(lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang	7	~	:
6	Medication abc (informatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019		<b>v</b> new	~	:
	Burinex 1 mg (burnetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend		~	:
•	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose		~	:
🗹 A	cute							
e	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend	♥	~	:
۲	(informatie 30x2 mg)	tabl	1x per dag	09.06.2019 - 23.06.2019	Slaapmiddel	♥	~	:
🗹 lf	needed							
۲	(informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn		~	:

Example when a specialist is logged in and checks the internal check done by the nurse, pharmacist assistant or medical secretary. There are no changes.

	Hospital software								
ME	EDICAL FILE • NAVIGATION						0	) sp	ECIALIST
			OME						
۲	List O Scheme	🕀 New		Validate & update Vitali	ink Patient scheme	Upda Cher	ited: 29.0 cked: 10.0 cation so	5.2019 6.2019 heme	19:30 10:05
Deselect	all PRODUCT V AD	MINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	Date: 10.06.2019	traeten (i 10:05	nurse)	
⊡ c	hronic								
•	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.		V	~	:
•	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.		V	~	:
•	Betahistine EG 16 mg (hetahistine 84v16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid		V	~	:

Example of tooltip when mouse over on the date that the internal check was done. In this way it is visible who the internal check of the medication scheme has done.

- On this screen, the **specialist** is logged in while in consultation with the patient.
- The specialist can see the internal check date by the nurse / pharmacist assistant / medical secretary in the right upper corner (10.06.2019, 10:05).
  - Since the internal check date is more recent than the Vitalink medication scheme date, the specialist will know that the Vitalink medication line is checked by the nurse / pharmacist assistant / medical secretary and is reported as 'actively taken by the patient'.
  - When the Vitalink validation date would be more recent than the internal check date, the specialist will know that in the meantime another healthcare professional has updated the Vitalink medication scheme.
- When seeing this medication list, the specialist can assume that this is the correct active medication of the patient.
- If the specialist wants to see more information on who has checked the medication scheme, this can be retrieved by doing a mouse over on the internal check date. Next a tooltip with the name appears.
- The specialist can continue with the ambulant visit.

	Но	ospital software								
м	IEDICA	L FILE • NAVIGATION						6	SPE	CIALIST
			H€	DME						
			• м	EDICATION			20	Updated: 29.	05.2019,	19:30
۲	) List	O Scheme	🕀 New	$\bigcirc$ Prescribe $\rightarrow$ Adm med	Validate & update Vita	link Patient scheme	Sort by	Checked: 10.	06.2019,	10:05
Deselec	t all	PRODUCT V A	DMINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	INTERNAL NOTE			
[ <b>⊻</b> ¢	Chronic	c								
5	<b>Or</b> (or	mneprazole EG 20 mg mneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.		V	~	:
٦	Ar (ar	mlodipine EG 5 mg mlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.		V	~	:
•	Be (be	etahistine EG 16 mg etahistine 84x16 mg)	tabl	3x per dag	12.02.2016	Duizeligheid		V	~	:
•	La (la	actulose TEVA actulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang		V	~	:
0	Me (in	edication abc formatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019			<b>v</b> new	~	:
0	Me (ini	edication abc formatie 56x2 mg)	tabi	1x per dag voor maaltijd	29.05.2019		Patient says that	internal	~	:
	Bu	u <b>rinex 1 mg</b> umetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend			~	:
٦	C (in	CURE Iformatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose			~	:
🗹 A	Acute									
•	☑ Ar (in	<b>moxiclav</b> formatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend		♥	~	:
•	€ Lo (in	ormetazepam EG offormatie 30x2 mg)	tabl	1x per dag	09.06.2019	Slaapmiddel		V	~	:
🗹 If	f neede	ed								
	☑ <sup>Ib</sup>	uprofen EG nformatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn			~	:

Example when a specialist is logged in and checks the internal check done by the nurse, pharmacist assistant or medical secretary. There are changes.

- On this screen, the **specialist** is logged in while in consultation with the patient.
- The specialist can see the **internal check date** by the nurse / pharmacist assistant / medical secretary in the right upper corner (10.06.2019, 10:05).
  - Since the internal check date is more recent than the Vitalink medication scheme date, the specialist will know that the Vitalink
    medication line is checked by the nurse / pharmacist assistant / medical secretary and is reported as 'actively taken by the
    patient'.
  - When the Vitalink validation date would be more recent than the internal check date, the specialist will know that in the meantime another healthcare professional has updated the Vitalink medication scheme.
- When seeing this medication list, the specialist sees that there are two medication lines that are grouped since they are (almost) the same.
  - The specialist will see that the posology is different for the Vitalink medication line vs. local EHR medication line.
  - The specialist will see that the local EHR medication line is added by a nurse / pharmacist assistant / medical secretary and has the most recent update date.
- If needed, the specialist can **check with the patient** the change the nurse / pharmacist assistant / medical secretary has made. Next, the specialist can decide to remove the Vitalink medication line.
- When validating the home medication, it will be the medication line that was created by the nurse / pharmacist assistant / medical secretary that will be uploaded to Vitalink.
- The specialist can continue with the ambulant visit.

## Variant 3: Vitalink medication scheme changes

		Hospital software								
	MEDI	ICAL FILE • NAVIGATION						6	SPE	CIALIST
			∩ H	OME						
			• й	EDICATION			<b>1</b>	Updated: 12.0	06.2019,	13:40
0	Li	ist 🔿 Scheme	+ New		Validate &	link Patient scheme	Sort by	Checked: 10.0	06.2019,	10:05
Desele	ect all	PRODUCT V AD	MINISTRATION	DOSIS	START DATE STOP DATE	INDICATION & COMMENT	INTERNAL NOTE			
☑	Chro	onic								
	V	Omneprazole EG 20 mg (omneprazole 14x20 mg)	tabl	1x per dag	27.03.2019	Maagzuurremmer 30 min. voor het ontbijt.		•	~	:
	⊻	Amlodipine EG 5 mg (amlodipine 56x5 mg)	tabl	1/2x per dag voor ontbijt, 1x per dag voor avondmaaltijd	15.05.2016	Hoge bloeddruk Vermijd pompelmoes.		♥	~	:
	V	Betahistine EG 16 mg (betahistine 84x16 mg)	tabi	<del>3x per dag</del>	<del>12.02.2016</del>	Duizeligheid		stopped	~	:
	2	Lactulose TEVA (lactulose 500 ml)	siroop	15 ml per dag	27.03.2019	Stoelgang		•	~	:
	V	Medication abc (informatie 56x2 mg)	tabl	2x per dag voor maaltijd	29.05.2019			new	~	:
	V	Medication abc (informatie 56x2 mg)	tabl	1x per dag voor maaltijd	29.05.2019		Patient says that	✓ Internal	~	:
	≤	Burinex 1 mg (bumetamide 30x1mg)	tabl	1x per dag ma, woe, vr	21.03.2018	Vochtafdrijvend			~	:
	<b>S</b>	D-CURE (informatie)	ampulle	1x op 15e, 1x op 30e	17.06.2017	Osteoporose			~	:
☑	Acut	te								
	V	Amoxiclav (informatie 10x250 mg)	tabl	2x per dag	09.06.2019 - 15.06.2019	Hoest vastzittend		•	~	:
	2	Lormetazepam EG (informatie 30x2 mg)	tabl	1x per dag	09.06.2019	Slaapmiddel		•	~	:
⊻	lf ne	eded								
	V	Ibuprofen EG (informatie 30x400 mg)	tabl	Tot 3x per dag, 1 tablet bij het eten. Max. 3 dagen. Minstens 4u tussen 2 innames.	27.03.2019	Pijn			~	:

Example when a specialist is logged in and checks the internal check done by the nurse, pharmacist assistant or medical secretary. There are changes.

The specialist notices new changes that are made on Vitalink after the internal check.

- In this example, Vitalink is updated by another healthcare professional (e.g. general practitioner) after the internal check of the nurse / pharmacist assistant / medical secretary.
- The specialist can see this via the Vitalink validation date. Since this date is 12.06.2019, 13:10 he/she can see that this date is more recent that the internal check date (10.06.2019, 10:05).
- The specialist will **check with the patient** the change the nurse / pharmacist assistant / medical secretary has made and the new Vitalink updates.
- The specialist can continue with the ambulant visit.