

# Recip-e

*Ambulant Elektronisch Voorschrijfsysteem  
Prescription électronique ambulatoire*

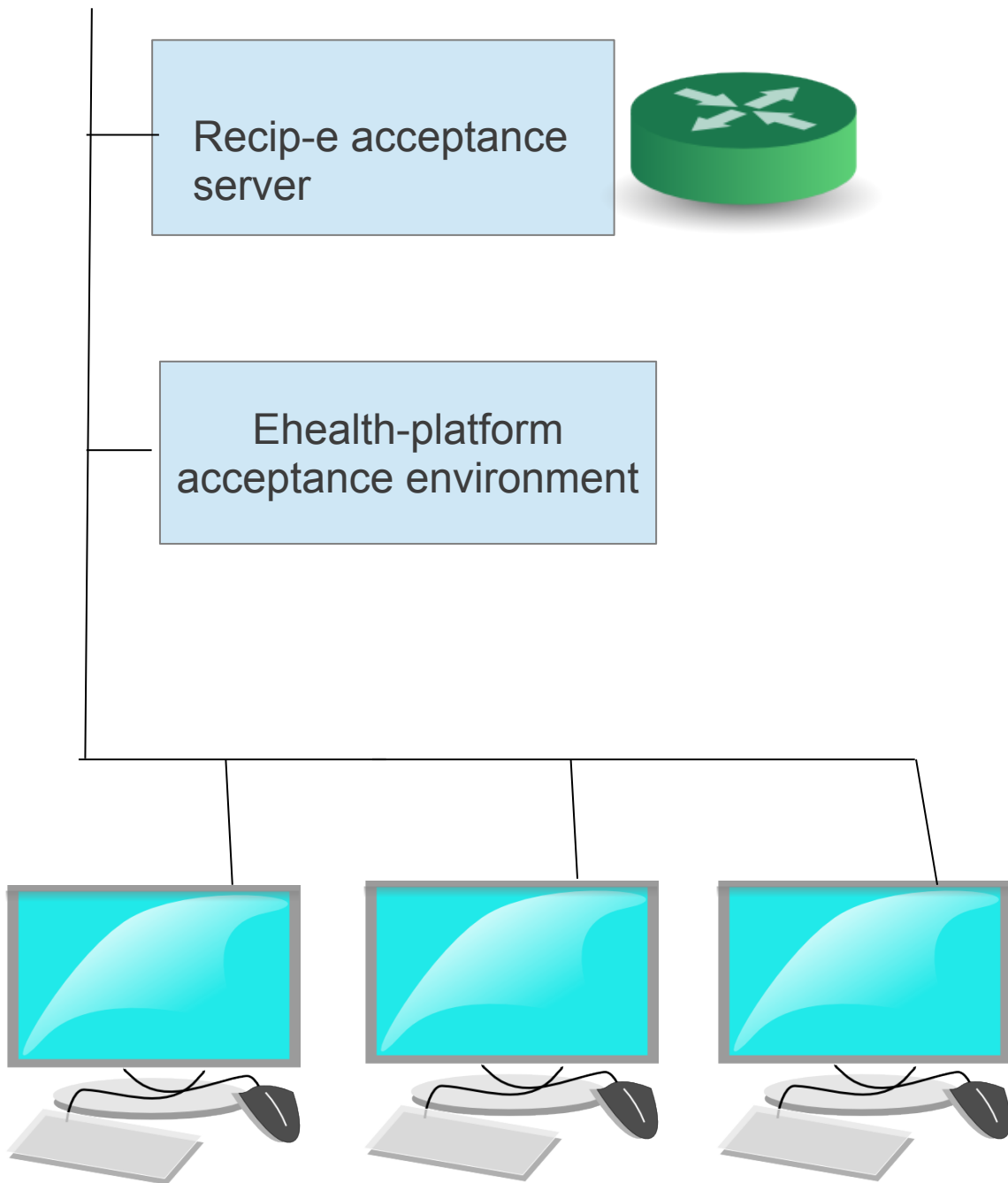
## Scenario Mini-lab Recip-e

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## 0 Set-Up



In the mini-lab room:

Concerning the vendors:

- per vendor a user with the identity of a physician registered in the eHealth acceptance environment, name of the tester, E-ID of this person, computer with E-ID reader and printer to print out the prescriptions produced

Concerning Recipe, in the room or accessible during the session:

- a machine, available to play the role of « pharmacist », to collect the prescriptions in acceptance environment, including E-ID reader and bar-code reader, configured and operational pharmacist package and/or Recip-e pharmacist package
- support team from the Recip-e developer (Accenture)
- support team from the Recip-e hosting vendor (Belgacom)
- support team from the Recip-e project management (Recip-e vzw-asbl)

# 1 Url overview

## 1.1 eHealth platform services

Here, we provide a summary of the service urls needed in the context of eHealth-platform connection and Recip-e

Service	Acceptance environment
Requestor	<a href="http://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor_nl.jnlp">http://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor_nl.jnlp</a> <a href="http://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor_fr.jnlp">http://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor_fr.jnlp</a>
STS	<a href="https://services-acpt.ehealth.fgov.be/IAM/Saml11TokenService/Legacy/v1">https://services-acpt.ehealth.fgov.be/IAM/Saml11TokenService/Legacy/v1</a>
ETK depot	<a href="https://services-acpt.ehealth.fgov.be/EtkDepot/v1">https://services-acpt.ehealth.fgov.be/EtkDepot/v1</a>
Recip-e	<a href="https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v2/Executor_v2">https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v2/Executor_v2</a> <a href="https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v1/Patient_v1">https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v1/Patient_v1</a> <a href="https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v1/Prescriber_v1">https://services-acpt.ehealth.fgov.be/pilot/Recip-e/v1/Prescriber_v1</a> <a href="https://services-acpt.ehealth.fgov.be/Recip-e/v1/Technical_v1">https://services-acpt.ehealth.fgov.be/Recip-e/v1/Technical_v1</a>

## **2 Test users**

### ***2.1 GP test end-users***

For the test period, each “Test GP Soft”,

- is recognized as ‘physician’ in test database of the eHealth platform,
  - has a fictive or real NIHIR number in the acceptance database of the eHealth platform, This does not prevent the software to request the required ‘test certificates’.
  - Required acceptance certificate(s) are installed properly on the GP system.

### ***2.2 Patient test end-user(s)***

- at least one patient, identified by his E-ID will be made available to the GP package, in order to identify a living person with valid E-ID to whom prescriptions can be delivered.

### ***2.3 Pharmacist end-user(s)***

For the test period, we dispose of at least one pharmacy test end-user, accessible in acceptance

### **3 General remarks**

The messages/formats are supposed to be compliant with the eHealth standards. This will be tested during the MiniLab.

In particular the prescription KMEHR format will be controlled.

eID Middleware (Latest version) must be installed on testing machines.

eID reader must be present in testing machines.

## 4 Test scenarios for GP and pharmacy softwares

**Note: this scenario concerns GP softwares that have not passed the Hub & MetaHubs tests or the eHealthBox tests, anyway, an eHealth-platform session must be initialized before Recip-e services can be accessed.**

### 4.1 Scenario 1 : «Opening an eHealth-platform session via e-id» Initialization of the GP session

This step is not really a “use case”. It is only introduced here to describe a step common to all eHealth-platform added value operations.<sup>1</sup> The initialization of the GP session is common to all the “services with added values” accessible for the GPs (eHealth box, Recip-e, Chapter IV, etc.).

#### 4.1.1 Conditions

1	GP	Has a valid eID, encryption & the certificate holder certificate is installed	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance

#### 4.1.2 Scenario

1. User (GP) starts his GP software (login/password)
2. User (GP) initiates a secured connection (based on the eHealth Certificate and his e-ID)
3. Get token from STS and open session for 5 hours !

#### 4.1.3 Verifications

1. Session open for 5 hours


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1

Please consult the note « Recip-e : Principes d' Identification, Authentification et Signature » available at the url <https://www.ehealth.fgov.be/fr/enregistrement-des-logiciels-medicaux> for more information.



#### 4.1.4 Happy flow : GP is in possession of a valid eID

	GP actions	Software actions	eHealth platform actions	Comments
1	User asks to start a secured connection.			
2		Instantiates the session (with encryption)		
3		Asks the user to insert his eID card.		
4		Asks the user to give his eID pin code		
5	Introduces his pin code			
6		Asks the user to give his encryption certificate password.		
7	Introduces his password			
8		Retrieves the holder-of-key certificate of the user.		In case of the GP software the certificate Holder-of-key will be same as the encryption certificate
9		Generates the SAML attribute query and send it to the SecureTokenService of the eHP.		
10			Verifies the incoming request and generates the SAML assertion as response	
11		Software stores the returned SAML assertion.		 Software may not alter the assertion. It must be stored exactly as retrieved.

## 4.2 Scenario 2 : «Sending six prescriptions»

### 4.2.1 Conditions

1	GP	Has a valid eID, encryption & certificate holder certificate is installed, connection made, prescription printer operational	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance

### 4.2.2 Scenario

1. User (GP) prepares a prescription containing no reimbursable items for patient XXXX and sends/prints it : *Aspirin*,
2. User (GP) prepares a prescription containing reimbursable items for patient XXXX and sends/prints it : *Clamoxyl*
3. User (GP) prepares a prescription containing reimbursable and items for patient XXXX and sends/prints it :
4. User (GP) prepares a prescription containing no reimbursable items for patient YYY and sends/prints it :
5. User (GP) prepares a prescription containing magistral reimbursable items for patient YYY and sends/prints it :
6. User (GP) prepares a prescription containing magistral non-reimbursable items for patient YYY and sends/prints it :

### 4.2.3 Verifications

1. Printed-out prescriptions
2. correct prescription name: taking into account the presence of a re-imbursable item (P0 or P1)
3. List of printed-out prescriptions, containing RID and RID bar-code
4. See next scenario

#### 4.2.4 Happy flow : GP can send requested prescriptions

	GP actions	Software actions	eHealth platform actions	Comments
1	GP records the patient; name, RR			
2		New patient record		
3	GP opens patient's record			
4	GP introduces prescription 1	Records and transforms into KMEHR		
5	GP sends/prints prescription			
6		Secure transfer to Recip-e server	Transfer via eHealth-pipe, RID	Received by Recip-e server
7	Printout with RID			
4,5,6,7	Cycle per prescription.			

### 4.3 Scenario 3 : «Pending & Revoke prescriptions made by GP for patient X, Y»

#### 4.3.1 Conditions

1	GP	Has a valid eID, encryption & certificate holder certificate is installed, connection made	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance

#### 4.3.2 Scenario

1. User (GP) requests a list of pending prescriptions, made by himself for patient XXXX
2. User (GP) revokes a pending prescription, made by himself for patient XXXX
3. User (GP) requests a list of pending prescriptions, made by himself for patient YYYY
4. User (GP) revokes a pending prescription, made by himself for patient YYYY

#### 4.3.3 Verifications

1. Printed-out prescriptions
2. remaining “pending” prescriptions on the Recip-e server

#### 4.3.4 Happy flow : GP can revoke a sent-in (pending) prescription

	GP actions	Software actions	eHealth platform actions	Comments
1	GP enters patient's ID and requests to revoke a “pending prescription”			
2		Builds web-service message	Data transfer	Recip-e revokes 1 prescription and builds answer message
3			Data transfer to GP system	
4		Receives Recip-e confirmation		
5	GP visualizes list			List corresponds to sent-in prescriptions – the revoked one

#### **4.4 Scenario 4: «Get prescriptions for patients XXXX and YYYY, deliver 2»**

**Note: This scenario does not concern GP software! The pseudo-patient and pharmacist interact with the Recip-e system, via the RID's on the printed-out prescriptions)**

##### **4.4.1 Conditions**

1	GP	Has a valid eID, encryption & certificate holder certificate is installed, connection made, prescriptions sent-in	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance
3	pharmacist	Connection made	Recip-e acceptance
4	bar-coded	Prescriptions available	

##### **4.4.2 Scenario :**

1. User (pharmacist) delivers prescription 1 for patient XXXX, sends feedback to GP
2. User (pharmacist) consults prescription 2 for patient XXXX but does not deliver sends feedback to GP
3. User (pharmacist) consults prescription 1 for patient YYYY but does not deliver
4. User (pharmacist)(GP) consults and delivers prescription 2 for patient YYYY and sends feedback to GP

##### **4.4.3 Verifications**

1. Printed-out prescriptions
2. Electronic prescriptions as received by the “pharmacist” via Recip-e

#### 4.4.4 Happy flow : pseudo-patient and pseudo-pharmacist retrieve the prescriptions made (and not revoked by the GP)

	Pharmacist actions	Software actions	eHealth platform actions	Comments
1	Read in RID's (bar-codes)			
2		Builds web-service message	Data transfer	Recip-e finds prescription and builds answer message
3			Data transfer to pharmacist system	
4		Receives Recip-e prescription		
5	Clicks on items delivered			
6		Confirms delivered to Recip-e		
7			Data transfer to Recip-e	
8				Recip-e deletes prescription when item(s) delivered
9	Enters feedback message to GP			
10		Message formatted		
11			Transmitted to Recip-e	
12				Recip-e keeps feedback to MD and transmits to MD

## 4.5 Scenario 5 : «Get feedback»

### 4.5.1 Conditions

1	GP	Has a valid eID, encryption & certificate holder certificate is installed, connection made, prescriptions sent	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance
3	pharmacist	Connection made	Recip-e acceptance
4	bar-coded	Prescriptions available	

### 4.5.2 Scenario

1. User (GP) prepares a prescription 1 for patient XXXX, prints it out and sends it to the Recip-e server
2. User (GP) verifies incoming feedback by the pharmacist, both for patient XXXX and patient YYYY

### 4.5.3 Verifications

1. Printed-out prescriptions
2. Feedback messages for both patients

#### **4.6 Scenario 6 : «Start fall-back session»**

**Note: this scenario concerns GP software who have not passed the Hub & MetaHubs tests or the eHealthBox tests**

##### **4.6.1 Conditions**

1	GP	Has a valid encryption & certificate holder certificate installed	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance

##### **4.6.2 Scenario**

1. User (GP) starts a fall-back session via the GP software, by giving in the password corresponding to the certificate
2. User (GP) sends a prescription to the Recip-e server

##### **4.6.3 Verifications**

1. Session starts
2. Printed-out prescription with corresponding RID as a bar-code



## 4.7 Scenario 7 : «Send notification to a pharmacist»

### 4.7.1 Conditions

1	GP	Has a valid encryption & certificate holder certificate installed	Test GP soft
2	Recip-e	Acceptance environment	Recip-e acceptance

### 4.7.2 Scenario

- User (GP) sends a notification message to a pharmacist of whom he gets the identification in situ:  
*“Please prepare a pack of aspirins for patient XXX, who will pick it up just before closing time!  
By Dr. “Package ID”*
- Notification message is received in good order by the pharmacist

### 4.7.3 Verifications

- The software allows this function, message is captured and sent
- The pharmacist receives the correct message

## **8 TBT Voorschriften**

### ***8.1 TBT Voorschrift 1***

R/ DOXYCYCLINE EG

Tabl. 10 x 100 mg

S/ 1 tablet 2 x per dag

ged. d., daarna 1 tabl. p.d.

R/ METFORMINE MYLAN 850

Tabl. (omhuld) 100 x 850 mg

S/ 1 tablet 2 x per dag

's morgens en 's avonds,

tijdens of onmidd. na de mltd.

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### ***8.2 TBT Voorschrift 2***

LET OP: Pradaxa valt onder Hoofdstuk IV

R/ PRADAXA 75

Caps. 10 x 75 mg

S/ 1 capsule per dag

1-4 uur na de operatie

gedurende 1 dag

R/ RISPERDAL 1 mg

Tabl. (omhuld) 60 x 1 mg

S/ 1 tablet 2 x per dag

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### ***8.3 TBT Voorschrift 3***

R/ TICLID

Tabl. (omhuld) 60 x 250 mg

S/ 1 tablet 2 x per dag

's morgens en 's avonds,

tijdens de maaltijd

R/ LIPITOR 20

Tabl. (omhuld) 28 x 20 mg

S/ 1 tablet per dag

## **8.4 TBT Voorschrift 4**

R/ VOLTAREN 50  
Tabl. (maagsapersistent) 50 x 50 mg  
S/ 1 tablet 2 x per dag  
voor de maaltijd in te nemen

R/ AMOXICILLINE APOTEX  
Bruistabl. 20 x 1 g  
S/ 1 3 x per dag

## **9. OTC Voorschriften**

OTC Voorschrift "Over the counter" producten (OTC)  
LET OP: het 2de voorschrift bevat Imovane, niet terugbetaalbaar,  
maar WEL op voorschrift!

### **9.1 OTC Voorschrift 1**

R/ MOTILIUM INSTANT smelttabletten  
30 x 10 mg  
S/ 1-2 tabletten 3-4 x per dag  
1/2 uur voor de maaltijden

R/ PARACETAMOL EG Tabl. 30 x 500 mg  
S/ 1 tablet 1-4 x per dag  
min. 4 u. tussen 2 innames

R/ IMODIUM INSTANT smelttabl.  
20 x 2 mg  
S/ 1 tablet 1-6 x per dag  
beginnen met 2 tabl., daarna 1  
tabl. na elke losse stoelgang

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### **9.2 OTC Voorschrift 2**

R/ IMOVANE  
Tabl. 30 x 7,5 mg  
S/ 1 tablet per dag  
voor het slapengaan

R/ ISO-BETADINE GERMICIDE ZEEP  
Zeep (vloeibaar) 125 ml  
S/ gebruik gekend

R/ NESIVINE 0,025 % PEDIATRIE SINE CONSERVA  
Neusspray 10 ml  
S/ 1 verst. per neusgat 2-3 x per dag

## 10. Voorschriften op stofnaam

### 10.1 VOS Voorschrift 1

R/ Influenzavaccin  
1 dosis  
derdebetalersregeling van toepassing

R/ Doxycycline 100 mg (oraal)  
S/ eerste dag 2 capsulen, verder 1 per dag  
gedurende 9 dagen

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### 10.2 VOS Voorschrift 2

Betahistine 16 mg  
2 x 1/dag  
gedurende 21 dagen

R/ Hydrocortison butyraat  
Emulsie 0,1 %  
S/ 2 keer per dag gedurende een week

R/ Budesonide  
poeder voor inhalatie 200µ µg per dosis  
1 tot 2 inhalaties per dag gedurende 4 weken

## 11. Magistrale Voorschriften

### 11.1 MAG Voorschrift 1

R/ Saponine coaltar 2 g  
betamethasone dipropionaat 19 g  
cetomacrogol ad 30 g  
S/ 2 x per dag op de letsels aanbrengen

R/ Repetendum nr 123456  
Dr. XXXX  
patiënt yyy AAAA  
apotheker ZZZZ

R/ Acidi p-aminobenzoici 5 g  
Cholesteroli 0,350 g  
Alcoholi cetylici 1,5 g  
Vaselini 25 g  
Adipis Lanae 5 g  
Aquae ad 50 g  
S/ te gebruiken bij zonnebrand graad 1 als "after sun"

## 11.2 MAG Voorschrift 2

R/ Lipofiele crème met 0,1 % diflucortolon valeraat TMF

DT 100 gram

S/ breng 1 tot 2x/dag in een dunne laag aan op de letsels

opmerking voor de apotheker: de waterhoudende vaseline met sorbitanesequioleaat q.s.

zonder bewaarmiddel ex tempore bereiden. Per week dient dus niet meer afgeleverd te worden dan het wekelijks te verwachten verbruik.

Acidi salicylici 1 g

Aluminis 10 g

Bismuthi subgallatis 10 g

Talci ad 100 g

Trioxymethyleni 5 %

S/ gekend

## 12. Prescriptions remboursées (REMB)

### 12.1 Prescription REMB 1

R/ DOXYCYCLINE EG

comp. 10 x 100 mg

S/ 1 comp 2 x par jour

pdt 1 jour, suivi de 1 comp. p.j.

R/ METFORMINE MYLAN 850

Comp. (enveloppés) 100 x 850 mg

S/ 1 comp 2 x par jour

le matin et le soir,

pendant ou immédiatement après le repas

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### 12.2 Prescription REMB 2

ATTENTION: Pradaxa tombe sous le Chapitre IV

R/ PRADAXA 75

Caps. 10 x 75 mg

S/ 1 capsule par jour

1-4 uur après l'opération

pendant 1 jour

R/ RISPERDAL 1 mg

Comp (enveloppés) 60 x 1 mg

S/ 1 comp 2 x par jour

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### ***12.3 Prescription REMB 3***

R/ TICLID

Comp. (envel.) 60 x 250 mg

S/ 1 comp 2 x par jour

matin et soir,

pendant le repas

R/ LIPITOR 20

comp. (envel.) 28 x 20 mg

S/ 1 comp. par jour

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### ***12.4 Prescription REMB 4***

R/ VOLTAREN 50

Comp. (entérosoluble) 50 x 50 mg

S/ 1 comp. 2 x par jour

avant le repas

R/ AMOXICILLINE APOTEX

Comp. efferv. 20 x 1 g

S/ 3 x 1 par jour

## **13. Prescriptions OTC**

Prescriptions de produits OTC ("Over the counter" = libres)

ATTENTION: la prescription 2 contient "Imovane", un somnifère non remboursable, mais sous prescription obligatoire!

### ***13.1 Prescription 1***

R/ MOTILIUM INSTANT orodispersible

30 x 10 mg

S/ 1-2 comp. 3-4 x par jour

1/2 heure avant les repas

R/ PARACETAMOL EG comp. 30 x 500 mg

S/ 1 comp 1-4 x par jour

laissez au moins 4 heures entre 2 prises

R/ IMODIUM INSTANT orodispersible

20 x 2 mg

S/ 1 comp 1-6 x par jour

commencer avec 2 comp., puis 1 comp.

après chaque selle liquide suivante

## ***13.2 Prescription 2***

R/ IMOVANE  
Comp. 30 x 7,5 mg  
S/ 1 comp. par jour  
avant le coucher

R/ ISO-BETADINE GERMICIDE (SAVON LIQUIDE)  
Flacon de 125 ml  
S/ utilisation connue

R/ NESIVINE 0,025 % PEDIATRIE SINE CONSERVA  
Spray nasal 10 ml  
S/ 1 pulv. dans chaque narine 2-3 x par jour

## **14. Prescriptions DCI**

### ***14.1 Prescription DCI 1***

R/ vaccin contre la grippe  
1 dose  
modalités de tiers payant

R/ Doxycycline 100 mg (orale)  
S/ 2 capsules le premier jour, puis 1 par jour  
durant 9 jours

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### ***14.2 Prescription DCI 2***

Betahistine 16 mg  
2 x 1/ jour  
durant 21 jours

R/ Butyrate de hydrocortisone  
Emulsion 0,1 %  
S/ 2 fois par jour durant une semaine

R/ Budesonide  
poudre pour inhalation 200 µg par dose  
1 à 2 inhalations par jour durant 4 semaines



## 15. Prescriptions Magistrales

### 15.1 Prescription MAG 1

R/ Saponine coaltar 2 g  
dipropionate de betamethasone 19 g  
cetomacrogol ad 30 g  
S/ appliquer 2 x par jour sur les lésions

R/ Repetendum nr 123456  
Dr. XXXX  
patient yyy AAAA  
pharmacien ZZZZ

R/ Acidi p-aminobenzoici 5 g  
Cholesteroli 0,350 g  
Alcoholi cetylici 1,5 g  
Vaselini 25 g  
Adipis Lanae 5 g  
Aquae ad 50 g  
S/ utiliser en cas de coup de soleil comme "after sun"

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### 15.2 Prescription MAG 2

R/ Crème Lipophile avec 0,1 % de valerate de diflucortolon TMF  
DT 100 gram  
S/ appliquer une couche mince 1 à 2x/jour sur les lésions.  
Remarque pour le pharmacien: préparer la vaseline aqueuse avec le sequioleat de sorbitane q.s.  
ex tempore sans conservateur. Ne délivrer chaque semaine que la quantité à prévoir nécessaire pour une semaine

R/ Acidi salicylici 1 g  
Aluminis 10 g  
Bismuthi subgallatis 10 g  
Talci ad 100 g  
Trioxymethyleni 5 %  
S/ connue