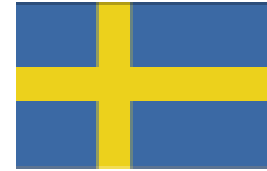


# List of licensed medicines and Drug Utilization data in Sweden

Presentation EuroMedstat, Rome, May 2005

**Björn Wettermark, MScPharm, PhD**  
**National Corporation of Swedish Pharmacies**  
*Clinical Pharmacology, Karolinska Institute*  
*Stockholm County Council*

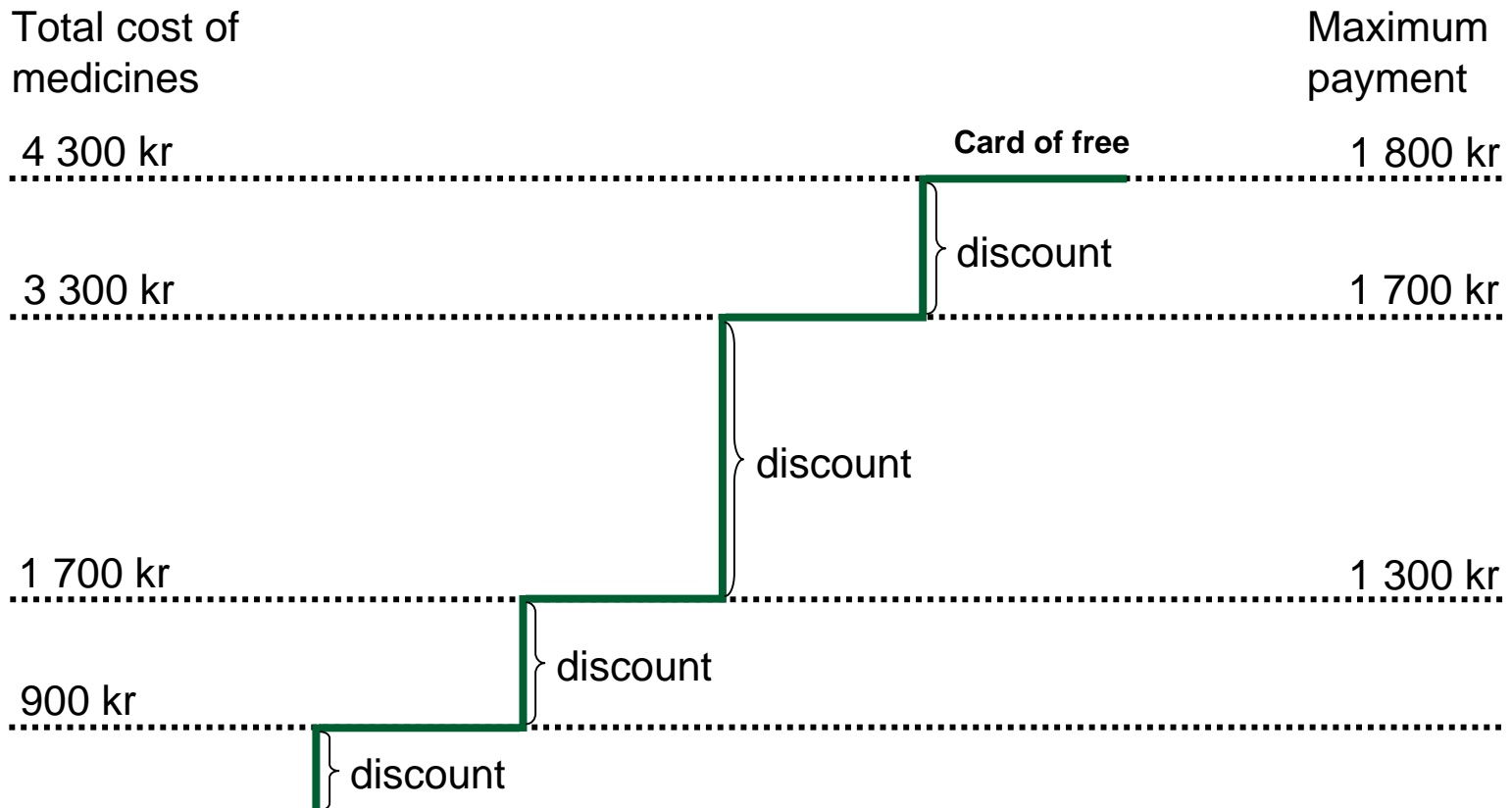
# The Swedish system



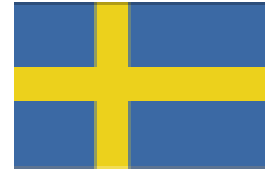
- 9 million inhabitants, 20 inhabitants/km<sup>2</sup>, 84% urban population
- 21 County councils under political government responsible for the provision of healthcare and pharmaceuticals to their population
- Free pricing of drugs, negotiations with
  - Pharmaceutical Benefits Board (LFN) - reimbursement (prescriptions)
  - Each county council for hospital use
- National reimbursement system with a "stair-case model" and a high-cost ceiling
- No concurrence in the wholesaler level
- A state owned pharmacy monopoly in outpatient care (Rx and OTC)  
Hospital pharmacy services provided by the same company in agreement with each county council

# The High-cost staircase

## Expenditures within a 12-month period



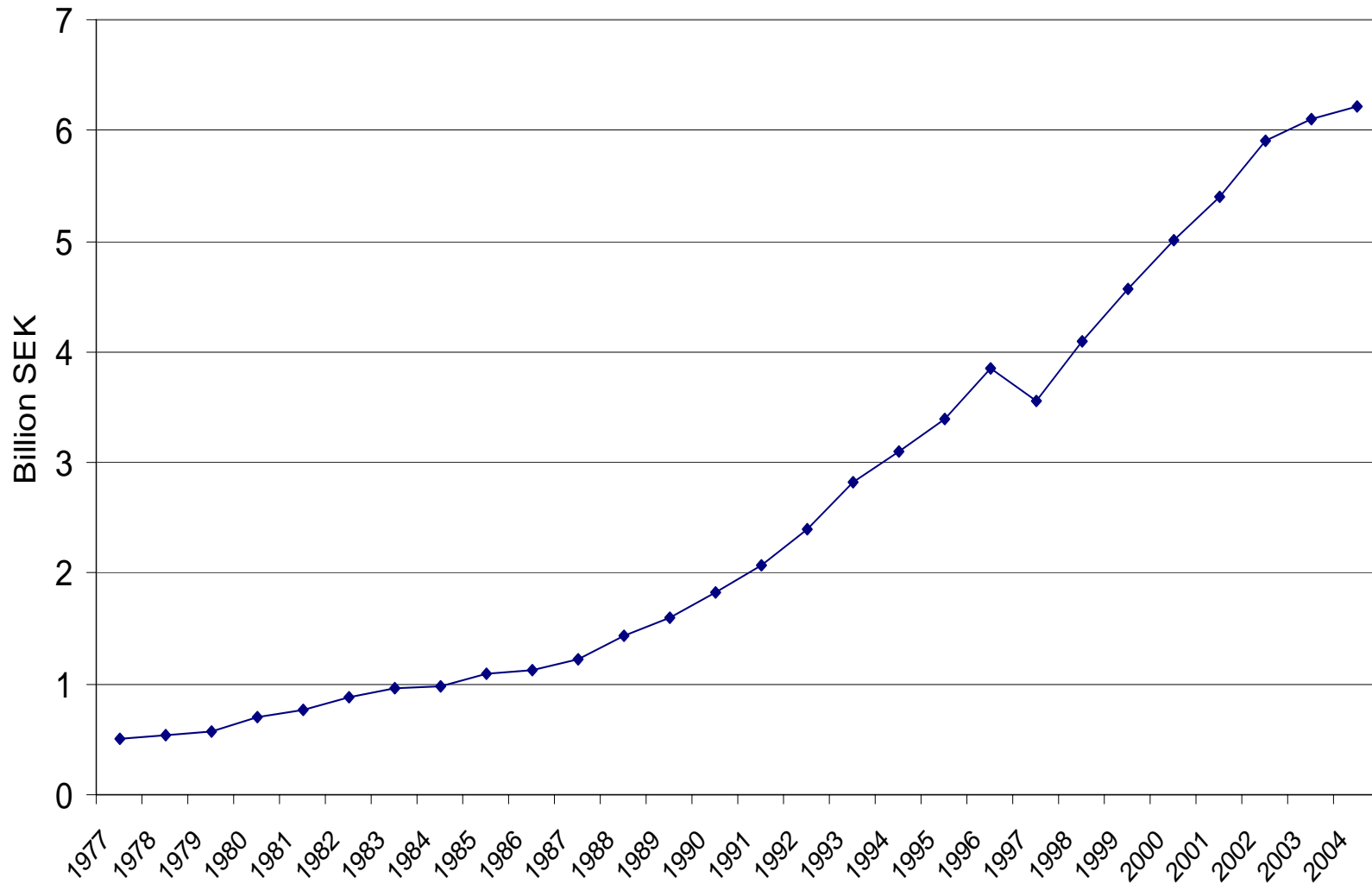
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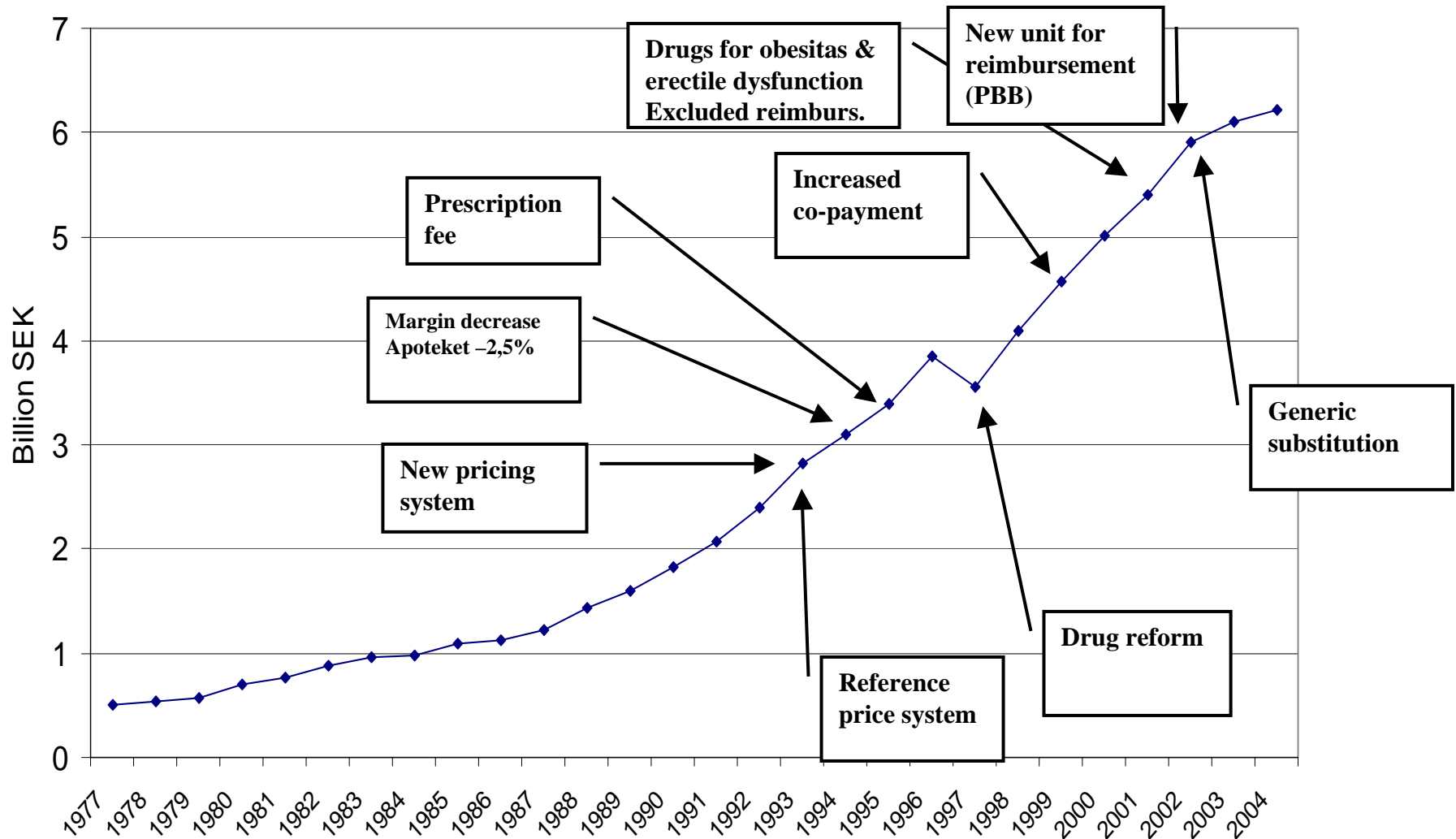
# TOTAL EXPENDITURES FOR PHARMACEUTICALS

## PRESCRIPTIONS, HOSPITALS, OTC IN STOCKHOLM COUNTY



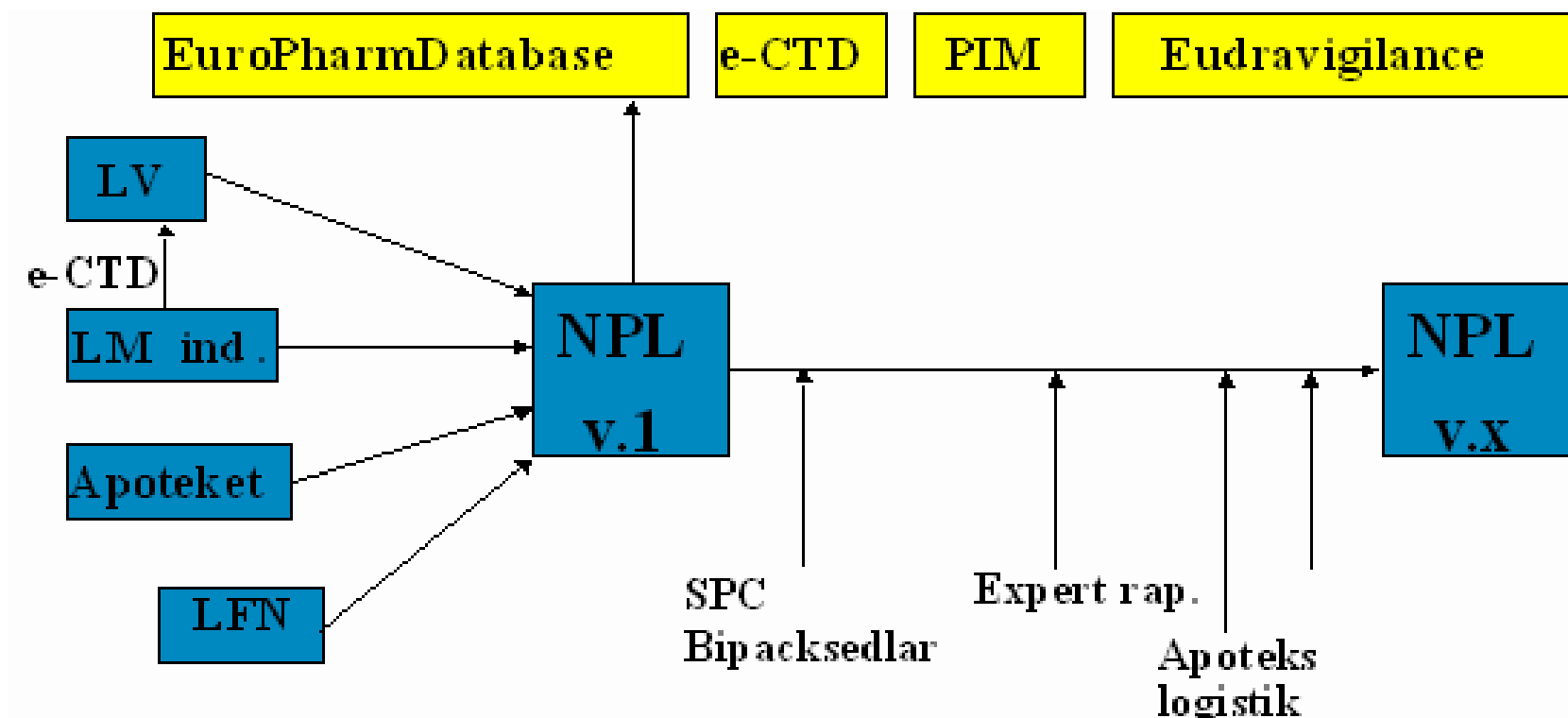
# TOTAL EXPENDITURES FOR PHARMACEUTICALS

## PRESCRIPTIONS, HOSPITALS, OTC IN STOCKHOLM COUNTY



# List of licensed medicines

## National Repository for Medicinal Products (NPL - Nationellt Produktregister för Läkemedel)



# National Repository for Medicinal Products (NPL - Nationellt Produktregister för Läkemedel)

- In operation since 2004
- The **Medical Products Agency** is responsible for development, operation and maintenance, every organization is responsible for and owner of its own information.
- Review and verification of product information is performed in an application available over the Internet (with secure login).  
The application includes a user interface.
- Updated daily
- All information in Swedish and English
- Publicly available for free through the Internet



#### Review and verify product information

→ [Login](#)

This function is used by pharmaceutical companies to review and verify product information. You need to have a user account to access this function. Authorized users can log in and start reviewing product information. Your user account will only give you access to medicinal products that belong to your company.

#### NPL guidelines (MS Word in Swedish)

[Change Control](#)

[Access Control](#)

[Report Different Problems](#)

[Reviewing New Products and Packages](#)

#### User administration

→ [Login](#)

You can request a user account by contacting LIF. User accounts with administrative privileges can log in and create user accounts with review privileges. If you want to change your password for your user account, [click here](#).

#### What is NPL?

#### News

##### NPL will be shut down May 26 12:00 due to technical maintenance

##### 2.2 is now current version.

Includes new functionality in pricing of packages not within the benefits scheme. Companies can now enter new prices as "AIP" and NPL calculates the "AUP". The element "Mixing Addon" relating to prices has been removed from NPL due to new regulations.

##### DDD is excluded from the review

[Read more](#)

##### Information about

- Generic substitution
- CAS numbers
- Historical drug names
- Swedish authorisation number
- Parallel distribution

[Read more](#)

## Which products do you want to see?

 Not verified  Verified

Name / Id

Enter name or NPL Id, click Search.  
To search for all products, leave field empty.

[Select product for details](#)[Click on table headers to sort list.](#)

<a href="#">Trade name</a>	<a href="#">Dosage form</a>	<a href="#">Strength</a>	<a href="#">Status</a>	<a href="#">Last Modified</a>
<a href="#">Zocord@</a>	Film-coated tablet	10 mg	verified	2005-05-05 04:08:44
<a href="#">Zocord@</a>	Film-coated tablet	20 mg	verified	2005-05-05 04:08:49
<a href="#">Zocord@</a>	Film-coated tablet	40 mg	verified	2005-04-28 04:00:51
<a href="#">Zocord@</a>	Film-coated tablet	80 mg	verified	2005-05-02 05:26:37

&lt;&lt; First &lt; Prev Page 1 of 1 Next &gt; Last &gt;&gt;

# Product Report



Set language



[Print preview](#)

Changed 2005-05-05 04:08:49

**Trade name:** Zocord®  
Zocord (Historical name)  
**Dosage form:** Film-coated tablet  
**Strength alphanumeric:** 20 mg  
**Strength numeric with unit:** 20 mg  
**Product type:** Medicinal product  
**Approval date:** 1988-04-06  
**Withdrawal date:**  
**ATC code:** C10AA01  
**Parallel import country:**  
**Import deviation:**  
**Product note:**

**SWE approvalno:** 107730  
**NPL Id:** 19880406000044  
**Interchangeable:** Yes  
**Dose dispensing:** Yes  
**Traffic warning:** Read the Summary of Product Characteristics (SPC)  
**Sales stopped MPA:** No  
**Contains lactose:** Yes  
**Contains latex:** No  
**Available:** Yes  
**Prescription status:** Prescription only  
**Drug class:** Unspecified  
**Control class:** Not classified as a narcotic  
**Dose disp. shelf life:** 6 months  
**Notes about the pharmaceutical form**

## Properties of the pharmaceutical form

-

## Pharmaceutical product 1:

### Amounts given per basic pharmaceutical unit

Ingredient role	Substance	Quantity	Max.quantity	Quantity unit	Additional unit	CAS no.
Active ingredient	simvastatin	20.0		milligram	The amount given is the target amount	79902-63-9

## Package information

## Identities

Nr	NPL package-id	Nordic itemnumber	EAN-code
1	19980816100027	018929	7046260189294
2	19951001100078	430512	7046264305126
3	19880401100299	430520	7046264305201
4	19930401100178	559575	7046265595755

## Notes

Package nr: 1

**Restriction:****Contents**

Nr	Package size	Mult 2	Mult 1	Size	Unit	DDD per package	Container
1	Plastburk, 100 tabletter			100	pieces	133.33	Jar
2	Blister, 28 tabletter			28	pieces	37.33	Blister
3	Blister, 98 tabletter			98	pieces	130.67	Blister
4	Blister, 49 x 1 tabletter (endos)	49	1		pieces	65.33	Blister

**Prices**

Nr	Not within the benefits scheme					Within the benefits scheme			
	AIP in effect	Next AIP	from date	AUP in effect excl VAT	AUP in effect incl VAT	AIP in effect	AUP in effect excl VAT	AUP in effect incl VAT	AUP-prescription, in effect
1						701.22			760.00
2						206.98			255.00
3						687.2			746.00
4						548.31			604.50

**Conditions**

Nr	Package condition	Conditions
1	General	2 Years No special temperature limitation required
2	General	2 Years No special temperature limitation required
3	General	2 Years No special temperature limitation required
4	General	2 Years No special temperature limitation required

**Miscellaneous**

Nr	OTC	Available	Available date	Out of stock	Withdrawal date
1	No	Yes		No	
2	No	Yes		No	
3	No	Yes		No	
4	No	Yes		No	

Nr	Package condition	Conditions
2	General	2 Years No special temperature limitation required
Nr	Package condition	Conditions
3	General	2 Years No special temperature limitation required
Nr	Package condition	Conditions
4	General	2 Years No special temperature limitation required

## Miscellaneous

Nr	OTC	Available	Available date	Out of stock	Withdrawal date
1	No	Yes		No	
2	No	Yes		No	
3	No	Yes		No	
4	No	Yes		No	

## Organizations

**Marketing Authorisation Holder:** Merck Sharp & Dohme BV, PO Box 581, NL-2003 PC Haarlem, Netherlands  
**Local representative:** Merck Sharp & Dohme (Sweden) AB, Box 7125, 192 07, Sollentuna, Sweden

## Interchangeability

Strength	Substance	Dosage form
20 mg	Simvastatin	Tablett

## Is the information correct?



or, do you want to write comments to other parties? Select recipient below.

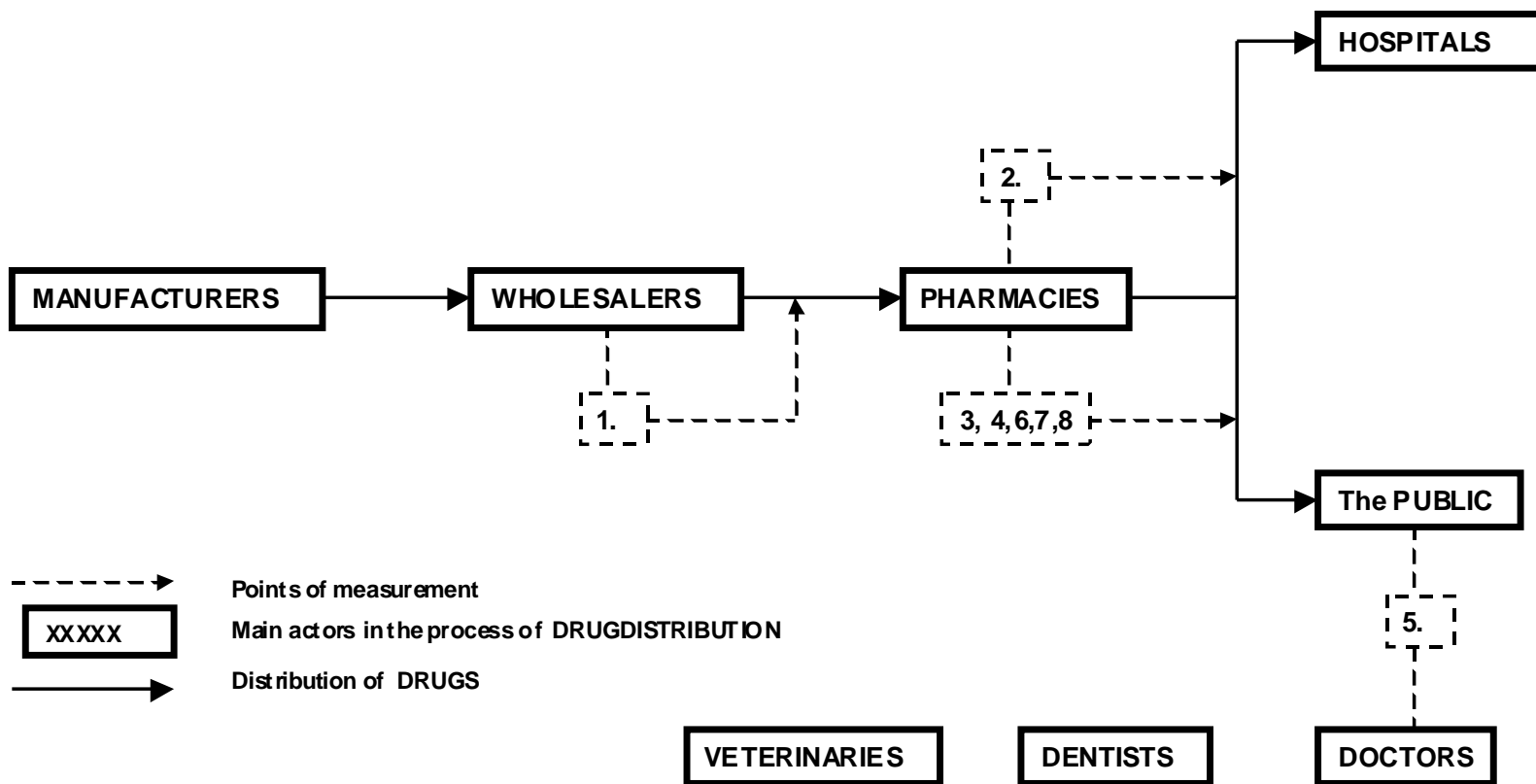
Industry	verified	<a href="#">send comment</a>
MPA	verified	<a href="#">send comment</a>
Apoteket AB	not verified	<a href="#">send comment</a>
LFN	verified	<a href="#">send comment</a>

# Data sources on utilization



1. Wholesale statistics (inleveransstatistik)	1977-	Apoteket
2. Hospital sales	1985-	Apoteket
3. National prescription register	1998-	Apoteket
4. OTC sales	1996-	Apoteket
5. <i>Diagnosis and prescription survey</i>	1978-2002	<i>Apoteket...</i>
6. <i>The Jamtland study</i>	1970-	<i>Apoteket...</i>
7. <i>The Tierp project</i>	1972-	<i>Uppsala univ.</i>
8. National patient identity drug register	2005-	Nat. Board of health & welfare

# Where data on deliveries and prescription of drugs are caught in the distribution network



# Data collection for the Swedish National Prescription Register

**Personal identific.  
number**

-age & sex

-residential area

**Prescriber code**

**Workplace code**

-clinic/practice

-organisation

**RECEPT**

Receptutfärdaren intygar genom signum att villkoren för Kormån enligt lagen (1981:49) om begränsning av receptförmåner är uppfyllda.

Patient (födelseår och namn) 19121212-1212

Förmånstyp:  
**R** = Prisnedsatta läkemedel  
**F** = Kostnadsfria läkemedel  
**P** = Medel för födelsekontroll

Doseringsanvisning på språket

**1** Läkemedelsnamn Provförp. Sign R  
Läkemedelsform | styrka | mängd/behandlingstid F  
Doserering, användning, ändamål | Prissättning P

För expedieras | ggr (bokst) | Exp- | interval | (bokst)

**2** Läkemedelsnamn Provförp. Sign R  
Läkemedelsform | styrka | mängd/behandlingstid F  
Doserering, användning, ändamål | Prissättning P

För expedieras | ggr (bokst) | Exp- | interval | (bokst)

Receptutfärdarens namn/förtydligande, yrke, adress, tel.nr. Sjukvårdsinrättning, klinik | Bilagor R  
21241880111002881 F  
Ö Ulf Bergman 08-58581196 Huddinge Sjukhus klin.farm 141 86 P  
Huddinge P

Ort Datum

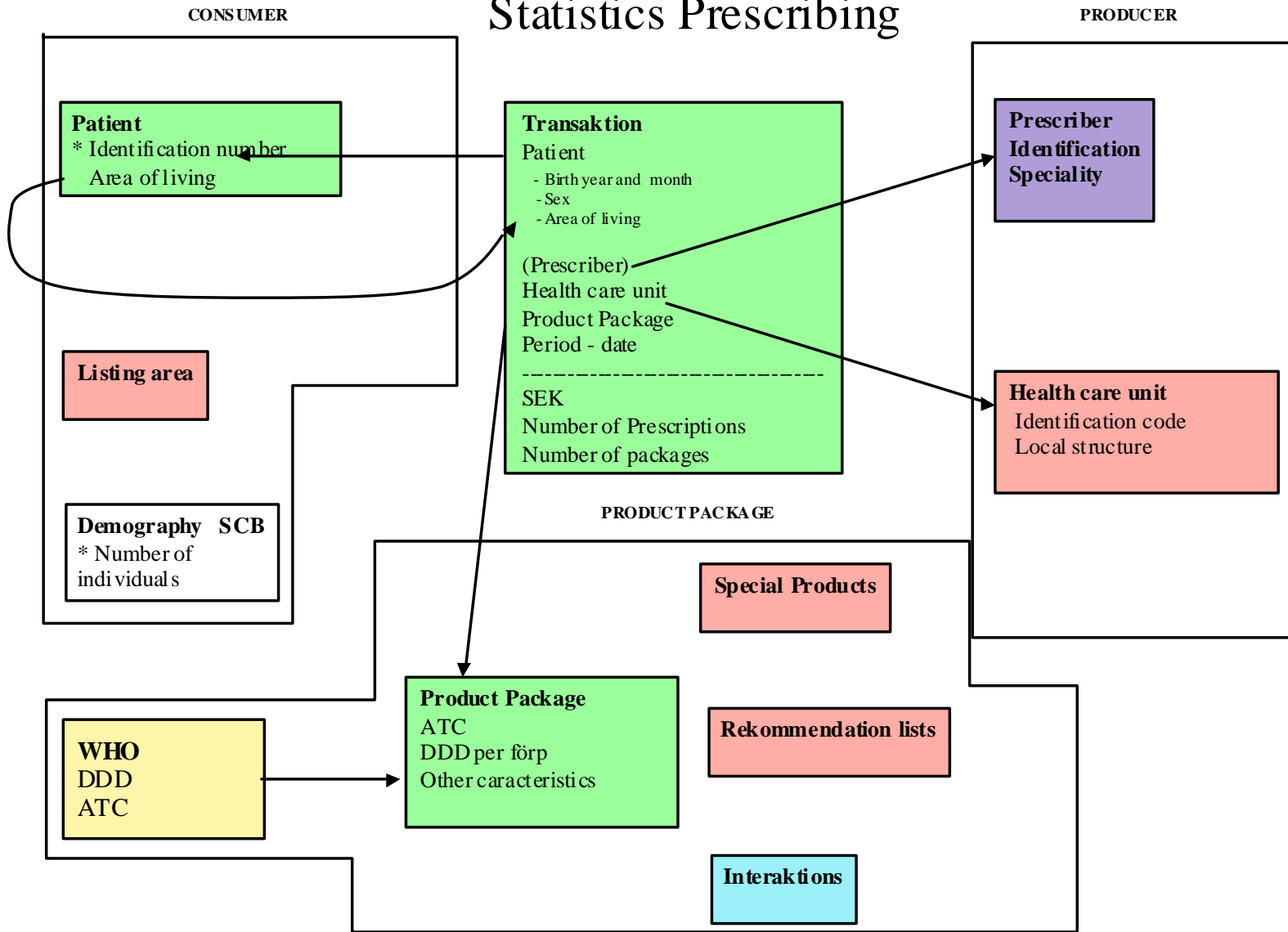
Receptutfärdarens namnteckning

Gäller ... mån. från detta datum.

Receptet gäller 1 år från utfärdandet om ej annat anges.

P-43 - KOMMENTIS BLANKETTER

# Statistics Prescribing



# The future



## Positive signs

- The new national register with patient-identity data for all prescription drugs dispensed
- National healthcare quality registers with diagnostic information
- The construction of databases derived from electronic medical records

## Risks

- The breakdown of the Swedish pharmacy monopoly
- The struggle between the state and regional healthcare authorities
- shifting drug supply from prescriptions to hospital use