



BASIC SURVEILLANCE NETWORK (BSN)

www.eubsn.org



BASIC FACTS

- DG SANCO network project based at SMI, Sweden
- Project plans to move to ECDC in 2006
- Collects monthly data on approx. 50 notifiable diseases
- Collects only "minimal data" on case-level
- Uses EC case definitions
- All 25+3 EC member states participate



BACKGROUND

- Physicians and labs required to report notifications (40+) to community network
- Dedicated Surveillance Networks (DSN) exist for only a minority of notifiable diseases
- Several different datasets and data transfer protocols in use among DSNs
 - Considerable strain on national institutes



BSN OBJECTIVES

- Create a standardized system for rapid sharing of *basic* surveillance data
- Create standardized output to compare and monitor trends of communicable diseases
- Describe aspects of surveillance systems that might influence trends



PROJECT TIMELINE

BSN (SI2.303119)



BSN suppl. (SI2.326108)



BSN II (SPC.2002498)



BSN-28



2000

2001

2002

2003

2004

2005

2006



Number of disease reported by members

	Number of countries	Countries
44 diseases	1	LV
21-43	4	DE,IE,SI,ES
10-20	3	AT,GB,LT
<10	15	BE,CY,CZ,FI,FR, HU,IT,LU,MT,NL, NO,PL,SK,SE,CH



Countries reporting Hep A

- Austria
- Belgium
- Switzerland
- Czech republic
- Germany
- Spain
- Finland
- United Kingdom
- Hungary
- Ireland
- Italy
- Lithuania
- Latvia
- Netherlands
- Norway
- Poland
- Sweden
- Slovenia
- Slovakia



Countries reporting Hep B

- Germany
- Ireland
- Latvia
- Slovenia
- Spain



MINIMAL DATASET

- Case ID (not personal ID, unique)
- Reporting country
- Age
- Sex
- Case definition (disease specific)
 - confirmed
 - probable
 - possible
 - unknown
- Date of report
- Date of statistic



HEP A – EXTRA VARIABLES

- Immunization Status
 - fully immunized
 - not fully immunized
 - unknown
- Country of Infection
 - country
 - unknown



HEP B – EXTRA VARIABLES

- Immunization Status
 - fully immunized
 - not fully immunized
 - unknown
- Mode of Transmission
 - heterosexual
 - other
 - unknown



Hep A - EC case definition

- probable case: A case that meets the clinical case definition and has an epidemiological link
- confirmed case: A case that meets the clinical case definition and is laboratory confirmed



Hep B - EC case definition

- probable case: A case that is HbsAg positive and has a clinical picture compatible with an acute hepatitis
- confirmed case: A case that is laboratory confirmed



Format of transfer dataset

- Data is currently sent to BSN by mail each month
- Data is either sent in comma separated files, excel-files or in xml-format
- 3 files: basic dataset, additional dataset and yearly population grouped by age and sex
- Data is either sent as individual cases or aggregated



Age groups

Searchable age groups:

- single year
- five year intervals starting on 0-4
- ten year intervals starting on 0-9
- all ages combined

BSN collects all possible age groups.



CHOOSE:

Hepatitis A

SWEDEN

OK!

DATABASE CONTENTS



Welcome

In the **BSN** site you will find information about communicable diseases in the European Union. The information focus on trends but you can also find links to other informative sites and to contact points in the EU-countries.



THIS PROJECT RECEIVES FUNDING FROM THE EUROPEAN COMMISSION (DG SANCO). NEITHER THE EUROPEAN COMMISSION, NOR ANY PERSON ACTING ON ITS BEHALF IS LIABLE FOR ANY USE MADE OF THE INFORMATION PUBLISHED HERE.

HIGHLIGHTS

What is BSN?

Basic Surveillance Network collects data on communicable diseases in the EU-area. Existing surveillance data from national databases are transferred into a common EU-database.

[» Read more](#)

EU and the new member states.

Within short EU will have several new members. The new states and the EU commission are working hard to adapt the administration of the accessing countries to the directives from the commission.

[» Read more](#)

Countries are not comparable

The surveillance of communicable diseases are organised differently among the EU-member states. The diseases under surveillance, the information collected and the timelines for reporting are all country specific.

[» Read more](#)



Basic Surveillance Network - Microsoft Internet Explorer

File Edit View Favorites Tools Help



Address <https://www2.smittskyddsinstitutet.se/BSN/internal/index.jsp> Go Links >>

DOCUMENTS STATISTICS GRAPHS DATABASE CONTENTS DATA CHECK

Disease: Hepatitis A

Country

- GERMANY
- HUNGARY
- IRELAND
- ITALY

Incidence

From year, month or week

1995 01 ...

To year, month or week

2005 12 ...

Age class/classes: 10, 5 or 1 years/year

- | | | |
|-------|-------|-----|
| ... | ... | ... |
| 0-09 | 0-04 | 0 |
| 10-19 | 05-09 | 000 |
| 20-29 | 10-14 | 001 |

Sex

- ...
- All
- Female
- Male

Case class

- Asymptomatic
- Confirmed
- Possible
- Probable

Immunisation status

- All
- fully immunised
- not fully immunised
- unknown

Country of infection

- Africa
- Americas
- Antarctica
- Asia



Welcome

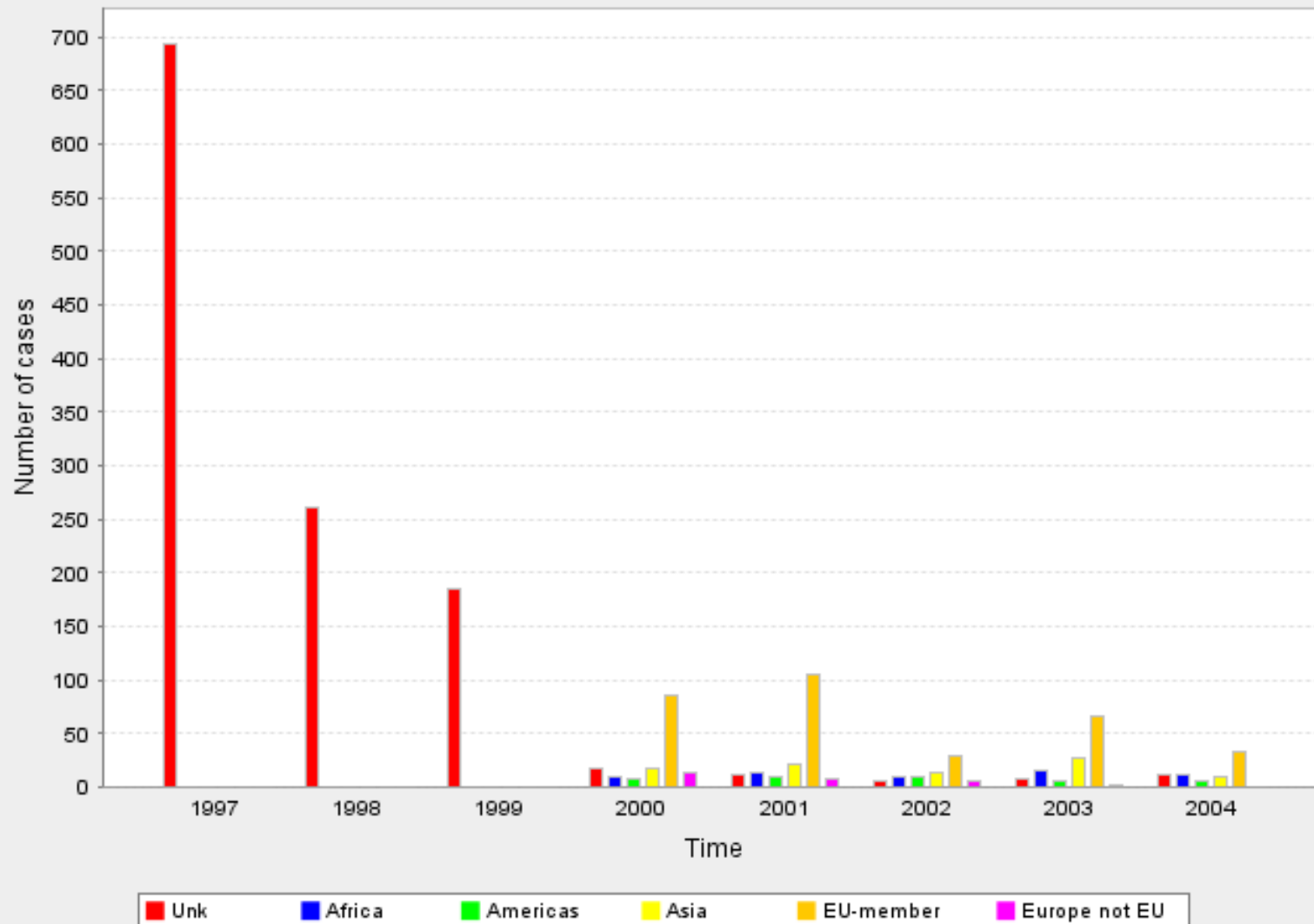
This is the internal part of the **BSN** web site.
 You can query the database, read BSN and EU **DOCUMENTS**, find **LINKS** to other web sites and the email address to **CONTACT** persons in the BSN member countries. Only authorised persons have access to this part.

To query the database please select a disease in the field to the left.



BSN Statistics: Hepatitis A in Sweden

Country of infection: Multiple

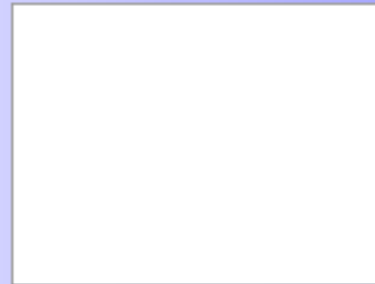




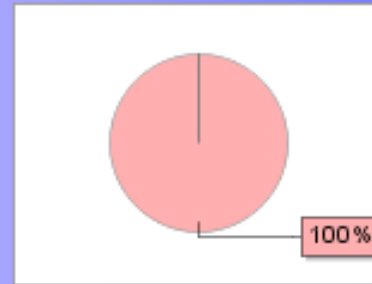
Hepatitis A_SE_Country of infection



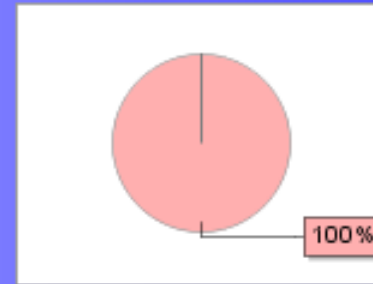
1995 (0 cases)



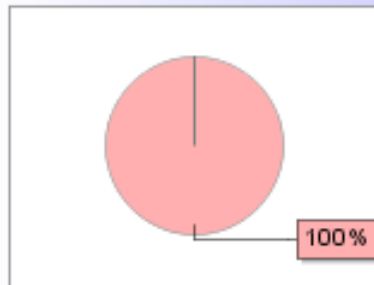
1996 (0 cases)



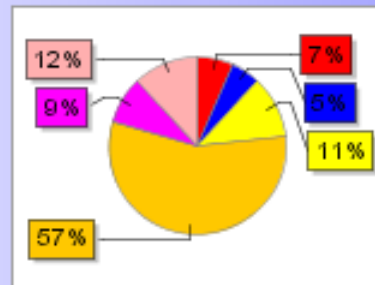
1997 (693 cases)



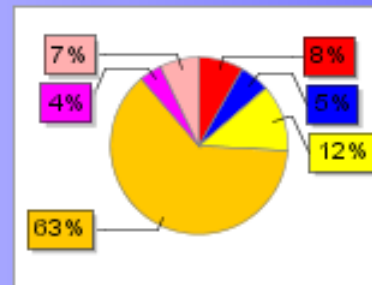
1998 (261 cases)



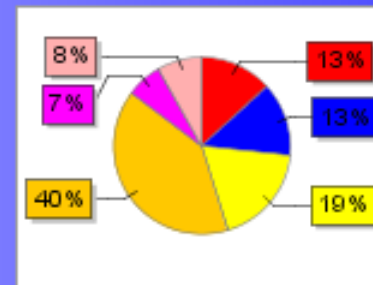
1999 (184 cases)



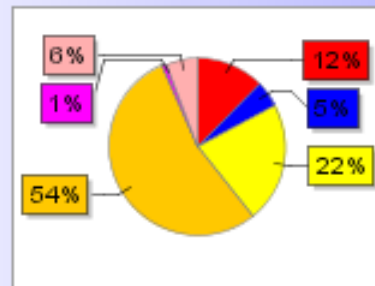
2000 (152 cases)



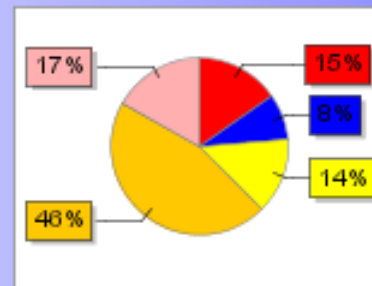
2001 (169 cases)



2002 (75 cases)



2003 (122 cases)



2004 (72 cases)



2005 (0 cases)

Legend: Africa (red), Americas (blue), Antarctica (green), Asia (yellow), EU-member (orange), Europe not EU (pink), Oceania (cyan), Unk (light red)



DSNs and BSN

- BSN a technical "backbone"
 - Standardized format
 - Efficient data transfers
 - Little disease-specific expertise
 - Full coverage of notifiable diseases
- DSNs provide disease specific expertise
 - Top-level disease expertise
 - Varying data transfer procedures and frequency
 - Covers a minority of notifiable diseases



DSNs and BSN

- BSN could provide data and infrastructure for DSNs
- The role of ECDC?



DSNs and BSN

- BSN could forward data to DSNs monthly or yearly
- Need approval from the countries sending data to BSN
- Need to have same case definitions



DSNs and BSN

- Additional case variables for various DSNs
 - Collected by BSN with rest of data
 - Collected separately by DSNs



www.eubsn.org

Questions and info:

bsn@smi.ki.se