

Measurement and reporting of burden of disease for Hepatitis B

Results of the EUROHEP.NET feasibility survey

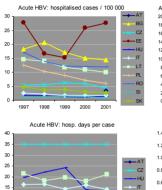
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Objectives

- To give an overall picture of the existing surveillance systems for burden of disease
- of hepatitis B in the participating countries. Two particular aspects were analysed: the type of surveillance systems and the numeric data of disease burden.
- To study the feasibility to formulate guidelines to enable uniform measurement and reporting of the burden of disease.

Available data on disease burden



0

35

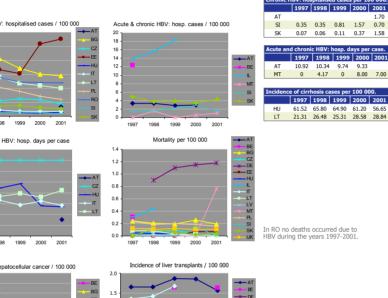
25 20

10

1997 1998 1999

nce of I

1998

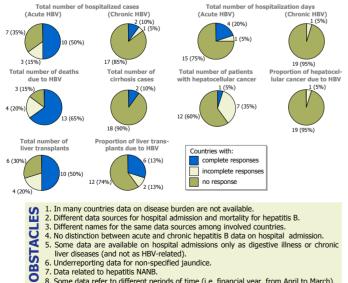


0.0 1999 2000 2001

Available responses on disease burden

1.0

0.5



8. Some data refer to different periods of time (i.e. financial year, from April to March).

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Methods

- 20 countries (AT, BE, BG, CZ, EE, DE, GR, HU, IL, IT, LV, LT, LU, MT, NL, PL, RO, SK, SL, UK) participated in the EUROHEP.NET survey (2003) for hepatitis B.
- Based on the results of this survey, an overview and comparison between different surveillance systems for burden of disease of hepatitis B was generated.
- An analysis was made of the data sources related to
- the national surveillance systems of disease burden: analysis/comparison of data sources on hospital admission for acute and chronic hepatitis B • analysis/comparison of data sources related to
- mortality due to hepatitis B An analysis was carried out of numeric data related to
- disease burden in each involved country for the years 1997-2001: total number of:
- hospitalized cases
 hospitalization days
- deaths
- cirrhosis cases
- hepatocellular cancer
- liver transplants
- The evolution of the burden of disease for hepatitis B during the years 1997-2001 is graphically presented.

Data sources

Hospital admissions sources	
Official notification	7 countries
Hospital Statistics	9 countries
Clinical records	1 countries
Not available	3 countries
Sources related to mortality due to hepatitis B	
Official notification	16 countries
Hospital Statistics	1 countries
Clinical records	0 countries
Unspecified	1 countries
Not available	2 countries

It is possible that the same data source has different names among involved countries or the same name represents different data source on hospital admission and mortality for hepatitis B

Discussion

In BG IT IV MT there no live

during the years 1997-2001.

1997 1998 1999 2000 2001

0.35 0.35 0.81 1.57 0.70

10.92 10.34 9.74 9.33 0 4.17 0 8.00 7.00

1997 1998 1999 20

0.07 0.06 0.11 0.37 1.58

- In some countries data on the total number of hospital admissions and deaths due to hepatitis B are not available. Sometimes the available data are not immediately accessible or complete.
- Many countries are able to measure and report total number of deaths and hospital admission. However, data on days of hospitalization, total number of cirrhosis cases, hepatocellular cancer, total number of liver transplants and their relation to hepatitis A, B and C often are not included in the surveillance systems.
- Data on hospital admission are gathered for remuneration reasons, not for epidemiological purposes in some countries. Sometimes only data from studies are available. In a number of countries the data are collected regionally and there is no centralised national data collection or the data aggregation at the central level is not timely.
- The disease burden of chronic hepatitis B is not quantifiable.
- There is not a unique adoption of ICD-10 to report the diagnosis for hospital admission or deaths.
- · Incidence of hospital admission: in five countries (BG, CZ, HU, RO, SK) the hospitalisation for hepatitis B is compulsory. All the suspected cases must be admitted in an infectious disease hospital: in reality some cases are treated at home. In addition the data reflect the number of hospital admissions: one patient might have been admitted several times a year with the same diagnosis.
- Total number of hospitalisation days for chronic hepatitis B: 875 days in AT during 2001 (hospitalisation days per case: 6). This is the unique available data
- Proportion of HBV-related hepatocellular cancer cases: 13,2% (1997) and 13,8% (1998) in IT. These are the unique available data.
- Proportion of liver transplants due to hepatitis B: 2 in SI during 2000 and 0 in the other years; 0 in SK in the five years 1997-2001; 4% (1997), 5,2% (1998), 4,2 (1999), 3,9 (2000) in UK.