



# Surveillance, epidemiology and prevention of Hepatitis A in Romania

## Results of the EUROHEP.NET feasibility survey

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### COUNTRY CHARACTERISTICS<sup>1</sup>

- Total population: 22,387,000
- GDP per capita (Intl \$, 2001): 7,043
- Life expectancy at birth m/f (years): 68.0/75.0
- Health expenditure/capita (Intl \$, 2001): 460
- Health expenditure as % of GDP (2001): 6.5

### OBJECTIVES and METHODS

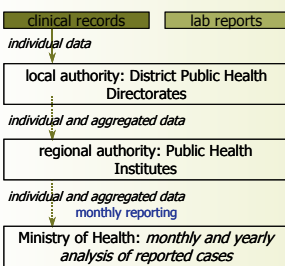
The EUROHEP.NET project is a EU concerted action, supported by the Quality of Life Programme of the fifth framework of the European Community for research. This project addresses issues related to surveillance and prevention of hepatitis A and B in the EU countries, Associated States and Israel. The overall goal is to study the feasibility of a future network on surveillance and prevention and to facilitate the progress of these countries towards enhanced control of hepatitis A and B.

Early 2003, EUROHEP.NET sent a feasibility survey to all participating countries to take stock of the country-specific surveillance and prevention activities for hepatitis A and B. The first achievement of this EU concerted action is to provide in a standardized/comparative way an overview of the different surveillance systems, epidemiology, burden of disease and prevention programmes for these infectious diseases.

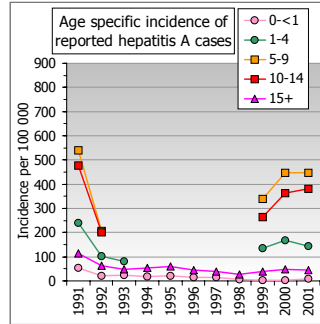
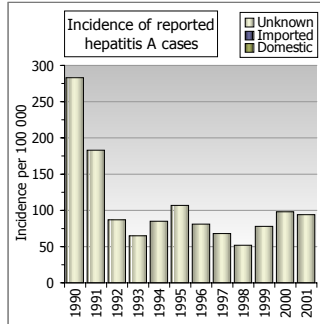
## SURVEILLANCE

Surveillance system	Since 1978	
mandatory reporting	yes	passive
voluntary reporting	no	
sentinel	no	
laboratory	no	

Flow chart of the surveillance system



## EPIDEMIOLOGY<sup>2</sup>



### CASE DEFINITION

EC case definition is used:

- Probable:** clinical picture compatible with hepatitis (e.g. discrete onset of symptoms and jaundice or elevated serum aminotransferase levels) and epidemiological link.
- Confirmed:** clinical case definition and laboratory confirmation (IgM antibody to hepatitis A or nucleic acid in serum or antigen in stool)

- Definition of an **outbreak:** less than 13 cases in one community or collectivity.

## BURDEN OF DISEASE<sup>2</sup>

Acute hepatitis A	1997	1998	1999	2000	2001
Hospitalised cases/100 000 inhabitants	68.2	52.1	78.0	97.8	94.2
Hospitalisation days per case					
Deaths	0	0	0	0	0
Mortality (total number of deaths per 100 000)	0	0	0	0	0
Total number of liver transplants	na	na	na	na	na
Proportion of liver transplants due to hepatitis A	na	na	na	na	na

na= not available

**Outbreaks of hepatitis A:** 1997-2001: three outbreaks were identified. <sup>3</sup>

## COMMENTS

- Surveillance for hepatitis A is hospital based and passive. By Law, all the suspected cases must be admitted in an infectious disease hospital.
- Hepatitis A is considered endemic in Romania because of the high incidence rates.
- A last seroepidemiological study is performed on a representative sample of the general population in 2002.
- Vaccination is only performed in high risk areas and for outbreak control as a public health action. It is not included in the EPI. Being a public action, the hepatitis A vaccination is totally supported by the state budget.
- By law, all suspected cases must be admitted into an infectious disease hospital. In reality, 10-20% are missing because they are treated at home.

## PREVENTION by active immunisation

Risk group programmes	Available since
injecting drug users	no
men who have sex with men	no
international travellers to endemic areas	no
chronic liver disease patients	no
clotting factors disorder patients	no
medical and paramedical personnel in hospitals including kitchen staff and cleaners	no
people residing in areas of extended community outbreaks	2000
pre-school children attending day care centres	no
day care centre personnel	no
residents and staff of closed communities (Psychiatric Institutions and Institutions for mentally disabled)	no
refugees residing in temporary camps	no
food-service establishment workers/food handlers	no
household contacts of infected persons	2003
children of migrants visiting an endemic country of origin	no
other risk groups	no

### FOOTNOTES

- Country characteristics: [www.who.int/country/en/](http://www.who.int/country/en/)  
Figures are for 2002 unless indicated. Source: The world health report 2003 (derived April 2004).
- Data source of hospital admission is Infectious disease Hospitals. The mortality data source is the NATIONAL Statistical Commission. Hepatitis is included in deaths caused by 'digestive illness'.
- The number of outbreaks was derived from the 2002 hepatitis A survey conducted by CEV, Antwerp.