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Surveillance, epidemiology and prevention of Hepatitis A in Bulgaria

Results of the EUROHEP.NET feasibility survey

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M. Kojouharova¹, A. Kurchatova¹, EUROHEP.NET team² ¹ National Centre for Infectious and Parasitic Diseases, Sofia ² University of Antwerp, Belgium

COUNTRY CHARACTERISTICS¹ 7845841

- Total population:
 GDP per capita (Intl \$, 2001):
- 68.5/75.3): 303
- Unit and a state of the state of th

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 1983					
mandatory reporting	yes	passive				
voluntary reporting	no					
laboratory	yes	passive				
Flow chart of the surveillance system						
lab reports ->	clinical rep	oorts				
individual data						
Regional level: Hygiene and Epidemiology Inspectorates						
aggregated	data 🚺 🤉	outbreaks				
Central level: National Center						

of Health Information monthly and yearly reporting National Center of infectious and parasitic Diseases

feedback Ministry of Health

EPIDEMIOLOGY



CASE DEFINITION EC case definition is used:

- · Probable: clinical picture compatible with hepatitis (e.g. discrete onset of symptoms and jaundice or elevated serum
- <u>Confirmed</u>: clinical case definition and laboratory confirmation (IgM antibody to hepatitis A or nucleic acid in serum or antigen in stool)
- Definition of an outbreak: 2 and more cases in a household (day care center, class room...) and/or data for epidemiological link between cases in a certain period on a certain territory, or presence of a common source.

BURDEN OF DISEASE 1997 1998 1999 2000 2001 Acute hepatitis A lospitalised cases/100 000 inhabitants² 81.1 72.0 88.7 87.4 82.2

Hospitalisation days per case	7 to 14				
Deaths ³	2	1	2	2	2
Mortality (total number of deaths per 100 000)	0.02	0.01	0.02	0.02	0.03
Total number of liver transplants	0	0	0	0	0

Outbreaks of hepatitis A: 1997-2001:

The five largest outbreaks were investigated at a central level during the last 5 years (1997-2001).

PREVENTION by active immunisation⁴

Risk group programmes	Available since	
injecting drug users	2000	
men who have sex with men	2000	
international travellers to endemic areas	2000	
chronic liver disease patients	2000	
clotting factors disorder patients	2000	
medical and paramedical personnel in hospitals including kitchen staff	no	
and cleaners	110	
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	tric Institutions and 2000	
Institutions for mentally disabled)		
refugees residing in temporary camps	no	
food-service establishment workers/food handlers	2000	
household contacts of infected persons	no	
children of migrants visiting an endemic country of origin	no	
other risk groups ⁴	no	

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COMMENTS

- Surveillance for hepatitis A is passive in Bulgaria.
- All clinically manifested acute cases with jaundice are subject to compulsory hospitalisation for 7 to 14 days in an infectious disease unit subsequent laboratory confirmation and mandatory notification and registration.
- EC case definition is used for surveillance purposes.
- Hepatitis A is considered to be endemic in Bulgaria because of the high incidence rates.
- There is no universal vaccination programme, there is only recommendation for risk groups to be vaccinated, without any reimbursement.

FOOTNOTES

- 1. Country characteristics: National Statistics Institute, 2003.
- 2. The number of hospitalised cases coincides with the total number of The number of nospitalised cases coincides with the total number of acute cases because hospitalisation is compulsory in Bulgaria for 7 to 14 days. Considering that there are specialised hospital wards for communicable diseases who work in close contact with regional epidemiologists, the National Surveillance system is informed timely and precisely about the number of cases and the outcome.
- 3. The specialised communicable disease hospital wards have to fill in an official reporting form for cases with lethal outcome.
- 4. Other risk groups: laboratory personnel working with HAV; dustmen, particularly who are directly involved in waste handling