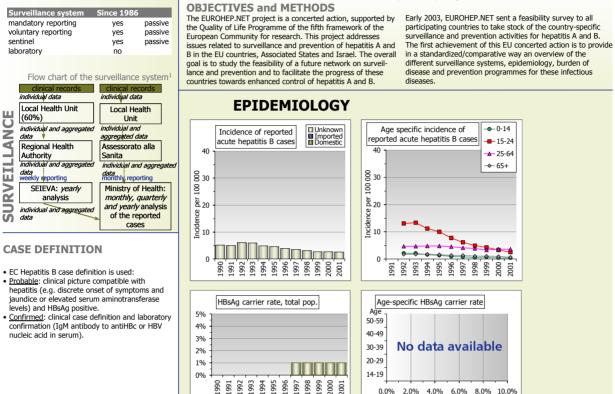
# Surveillance, epidemiology and prevention of Hepatitis B in Italy

Results of the EUROHEP.NET feasibility survey

- L. Vellucci<sup>1</sup> T. Stroffolini<sup>2</sup> Eurohep.net team<sup>2</sup>
- <sup>1</sup> Ministry of Health, Rome



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

Hepatitis B	1997	1998	1999	2000	2001
Acute hepatitis B: Hospitalised cases/100000		2.78	2.43	2.35	2.23
Acute hepatitis B: Hospitalisation days per case					
Chronic hepatitis B: Hospitalised cases/100000					
Chronic hepatitis B: Hospitalisation days per case					
Total: Hospitalised cases/100000					
Total: Hospitalisation days per case					
Deaths	2	5	6	3	2
Mortality (total number of deaths per 100 000)	0.01	0.01	0.02	0.01	0.01
Cirrhosis cases					
Total number of patients with hepatocellular cancer	11898	10905			
Total number of liver transplants not hep B specific	425	478	564		
Proportion of liver transplants due to hepatitis B					

## **PREVENTION** by active immunisation

Universal programme	starting	starting	schedule	coverage
	in	at age		rate (2001)
universal screening policy for pregnant women	1985			
vaccination of infants*	1991	3 months	0,2,6	96%
vaccination of adolescents*	1991	12 years	0,1,6	70%
* mandatory vaccination				

Risk group programmes	available (since)	booster	reimbursed	
injecting drug users	1988		yes	
men who have sex with men	1988		yes	
attendees of STI clinics				
dialysis patients	1988	yes	yes	
groups with occupational risk	1988		yes	
household contacts of known hepatitis B carriers	1988		yes	
hospitalised patients				
neonates born to HBsAg positive mothers*	1988			
other				
* mandatory vaccination				

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#### COMMENTS

- There are two surveillance systems in Italy, one by the Ministry of Health, which is passive, and one by SEIEVA (Sistema Epidemiologico Integrato Epatiti Virali Acute) which is a sentinel based surveillance system for acute viral hepatitis set in Italy since 1985. The systems re clinical report-based, with clinical cases that are laboratory confirmed
- EC case definition is used for surveillance purposes.

0.0% 2.0% 4.0% 6.0% 8.0% 10.0%

- Hepatitis B is considered a low endemic disease with carrier rates of <2%. There is underreporting of <5%.
- A universal vaccination programme is performed for infants and adolescents, the latter until 2003.
- Specific programmes for risk groups are in place.
- Cost for hepatitis B vaccines: private pediatric use: 19.50€ (Engerix B) and 19.63€ (Hbvaxpro).

#### FOOTNOTES

- 1. SEIEVA surveillance system is a sample based system, collecting the reports from a (relevant) part of the local health units spread all over Italy( approximately 60%).
- 2. Source for hospital admission data is MOH notification: DRG (Diseases Related Groups: used in the system for the surveillance of hospital admission to classify, on the basis of final diagnosis, all the patients discharged by the hospitals) and Communicable Disease Reporting  $% \left( {{\rm Dis}_{\rm cl}} \right)$ System from the MOH. The mortality data, carrier rates, HCC data and transplantation data are originated from SEIEVA. Seieva does not include chronic hepatitis B cases.

<sup>2</sup> Istituto Superiore di Sanità, Rome <sup>2</sup> University of Antwerp, Belgium