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# Regional differences in hepatitis testing, 🔰 @JVLazarus vaccination and treatment in the EuroSIDA study

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#### **BACKGROUND**

Hepatitis screening is a crucial step to timely care. We explored regional variability in self-reported hepatitis B and C management and linked it to liver fibrosis across Europe.

## **METHODS**

A survey was conducted in 2014 in active EuroSIDA clinics. Separate HBV and HCV scores (Table 1) were developed based on screening, linked to the clinical database to vaccination and treatment and determine the odds of HBV or HCV score of 3 and of liver fibrosis (≥F2).

#### **RESULTS**

80/97 (82%) clinics completed the survey. There were no differences between eastern European (EE) and non-EE for routine screening of HBV or HCV but HBV vaccination (Figure 1) and HCV treatment with DAAs (Figure 2) varied significantly (Table 2). 9,304 patients were enrolled in EuroSIDA from clinics participating in the survey. Among these, those from EE had lower odds of an HBV or HCV score of 3 (aOR 0.21 [95% CI 0.18–0.56 and 0.65; 0.55–0.77 respectively]). Patients from larger clinics (n>200) were more likely to have an HBV score of 3 (aOR 1.38 [1.23-1.55]) but less likely to have an HCV score of 3 (aOR 0.86 [0.79–0.94]).

Among 7,976 patients with fibrosis data, 498 (6.2%) had ≥F2 fibrosis. Gradually lower HBV scores related to a gradually higher risk of ≥F2 fibrosis; this trend was not observed for HCV (Figure 3). The relationship between HBV or HCV score for developing ≥F2 fibrosis was similar between regions.

## **CONCLUSIONS**

This study found that EuroSIDA clinics outside of EE were more likely to vaccinate for HBV than those in EE and to use DAAs to treat HCV. Also, a novel simple measure of quality of HBV care at the clinics was found to be inversely correlated with fibrosis-staging among patients followed in the clinic, suggesting concrete steps to improve care in clinics with a low HBV score. However, a high hepatitis management score for both HBV and HCV would always be something to aim for.

### The EuroSIDA Study Group

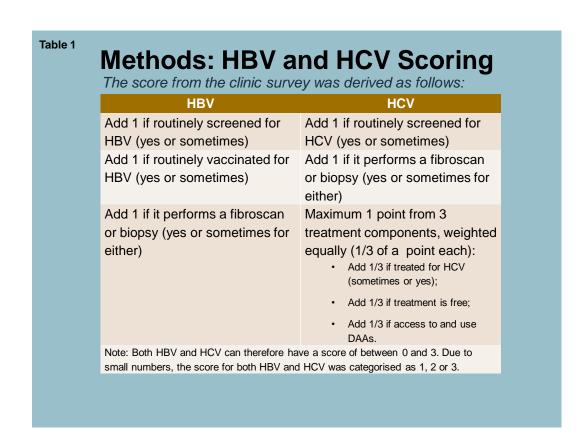
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Funding: Primary support for EuroSIDA is provided by the European Commission BIOMED 1 (CT94-1637), BIOMED 2 (CT97-2713), the 5th Framework (QLK2-2000-00773), the 6th Framework (LSHP-CT-2006-018632), and the 7th Framework (FP7/2007-2013, EuroCoord n 260694) programmes. Current support also includes unrestricted grants by Janssen R&D, Merck and Co. Inc., Pfizer Inc., GlaxoSmithKline LLC. The participation of centres from Switzerland was supported by The Swiss National Science Foundation (Grant 108787).



		All of Europe		Western Europe <sup>2</sup>		East Europe <sup>3</sup>		
		N centres	%	N centres	%	N centres	%	p-valu
N		80	100	68	85.0	12	15.0	
N patients	Total	133,532	100	102,794	77.0	30,738	23.0	
HBV routine screening	No Yes/sometimes	5 75	6.2 93.8	5 63	7.4 92.7	0 12	0 100	0.99
HCV routine	No Yes	12 67	15.0 83.8	10 57	14.7 83.8	2 10	16.7 83.3	0.99
Screening	Do not know	1	1.2	1	1.5	0	0	
HBV vaccination	No Yes/sometimes	16 64	20.0 80.0	8 60	11.8 <b>88.2</b>	8	66.7 33.3	<0.000
HCV treatment	No Yes/sometimes	4 76	5.0 95.0	2 66	2.9 97.1	2	16.7 83.3	0.10
HCV treatment with direct acting antivirals <sup>1</sup>	No Yes/sometimes Don't know	14 63 1	18.0 80.8 1.3	8 57 1	12.1 <b>86.4</b> 1.5	6 6 0	50.0 50.0 0	0.0090

