Predictive Factors of Advanced Fibrosis on Liver Biopsy in Hepatitis C in Vietnam

Ngo Van Huy¹, José M Bengoa^{2,3}, Ho Hoang Thao Quyen¹, Pierre Jean Malè^{2,3}, Emiliano Giostra³

1. Bênh Viên FV, D-7, Ho Chi Minh City, Vietnam 2. Geneva Foundation for Medical Education and Research

3. Service de Gastroentérologie et Hépatologie, Hôpitaux Universitaires de Genève

BACKGROUND

Very few published studies are available on hepatitis C in Vietnam, and results of liver biopsy are lacking. Advanced stages of fibrosis on liver biopsy are considered as a requisite for starting therapy. In this high prevalence area we aimed to identify clinical and epidemiological factors predictive of advanced fibrosis on liver biopsy.

Methods: a series of 100 consecutive liver biopsies in HCV patients attending an outpatient clinic was correlated with epidemiology, laboratory, histology and APRI score (AST-to-platelet index).

Table 1:patient characteristics			
Gender	M/F %	50/50	
Age	years (sd)	47.5 (10.4)	
Weight	kg (sd)	51.2 (27.1)	
BMI	kg/m2 (sd)	22.9 (3.1)	
ALAT	IU/I* (sd)	75.0 (76.0)	
ASAT	IU/I* (sd)	59.9 (54.1)	
GGT	IU/I* (sd)	84.2 (125.6)	
HCV-RN	AIU/m 13.	.9 .10 ⁵ (16.9 .10 ⁵)	

Table	Table 2: genotypes and Metavir				
Gend	Genotypes		r score		
1	66%	F0	51%		
2	7%	F1	18%		
3	1%	F2 :	16%		
6	23%	F3	5%		
no	3%	F4	10%		
110	570	Γ4	10%		

Table	3: risk 1	factors foi	hepatitis C
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	yes	no	not known
Invasive procedure	48% 4	7%	5%
Blood transfusion	25%	62%	13%
Acupuncture	18%	64%	23%
iv drug injection	2% 85	5%	13%
HCV partner	2%	57%	41%

Table Er analysis	of prodictive	a rick factors f	or advanced fibrosis
Table 5: analysis	s of predictive	e risk tactors t	or advanced fibrosis

	F2/F3/F4	p value
32/38	19/12	ns
49/18	18/6	0.013
34/31	14/17	ns
20/42	5/21	ns
9/61	8/23	ns
12/33	1/17	ns
nly APRI score	and ALT were significant	cantly predictors of
	49/18 34/31 20/42 9/61 12/33	49/18 18/6 34/31 14/17 20/42 5/21 9/61 8/23

Table 4: analysis	Table 4: analysis of predictive factors for advanced fibrosis				
Continuous varial	ole F0/F1	F2/F3/F4	p value		
Age y (sd) BMI kg/m2 (sd)	47.5 (11.0) 23.3 (3.2)	51.3 (9.5) 23.1(3.8)	ns ns		
ALAT IU/I (sd) ASAT IU/I (sd) GGT IU/I (sd) APRI (sd)	66.6 (72.6) 47.6 (40.1) 61.6 (115.8) 0.57 (0.60)	142.1(119.2) 117.7(84.6) 110.8 (79.5) 1.69 (1.23)	0.012 <0.01 0.03 <0.01		
HCV RNA (IU/ml)	10.6 10 ⁵	15.3 10 ⁵	ns		

Conclusions

HCV genotype 1 and genotype 6 were the most frequent.

On liver biopsy benign histological forms were predominant, two times more frequent than advanced stages of fibrosis.

APRI score may be used as a biomarker for screening of advanced fibrosis in this setting. Neither age, sex, BMI, nor viral load were predictive of advanced fibrosis in hepatitis C in the south of Vietnam.





