Gastroenterology, Hepatology and Endoscopy



Research Article ISSN: 2398-3116

Autoimmune diseases associated with autoimmune hepatitis in a series of 21 cases

Bennani GK*, Benelbarhdadi I, Bourehma M, Berhili C, Lagdali N and Ajana FZ

Department of Diseases of the Digestive System, Medicine C, CHU IBN SINA- Souissi Med University V-Rabat, Morocco

Abstract

Autoimmune hepatitis (HAI) is a chronic inflammatory disease of the liver of dysimmune origin which is known by its coexistence with other autoimmune manifestations. The aim of our work is to determine the prevalence and the type of disorders HAI-associated auto-immune systems. Our study is focused on 21 consecutive cases of autoimmune hepatitis diagnosed in our department, Among the 86% were women, 18 out of 21 patients (78%) had an autoimmune disease associated with HAI Associated autoimmune diseases were predominant over autoimmune dysthyroiditis and overlap syndrome. The treatment was mainly based on a combined therapy (corticosteroid and immural) combined with urso deoxycholic acid if overlapping syndrome with specific treatment of the associated autoimmune disease.

Introduction

Autoimmune hepatitis (HAI) is a chronic inflammatory disease of the liver of dysimmune origin with spontaneous cirrhogenic evolution. The coexistence of autoimmune manifestations testifies to the existence of a predisposing genetic terrain.

Aim of study

The goal of our work is to determine the prevalence and type of autoimmune disorders associated with HAI.

Patients and methods

Mono-centric retrospective study of 21 consecutive cases of autoimmune hepatitis diagnosed in our department, over an 8-year period between January 2011 and July 2019.

All our patients are followed in a specialized consultation of HAI The diagnosis was only made after excluding other causes of chronic liver disease: viral B or C, drug, alcoholic, metabolic and genetic.

In fact, serologies for viral hepatitis B and C were carried out in all cases. The toxic and medicinal causes were eliminated on anamnestic criteria. There were 16 cases of isolated HAI and 5 cases of overlap syndrome (OS). The score used for the diagnosis of HAI is below the diagnosis of overlap syndrome was made when at least two criteria of HAI were combined with at least two other criteria of CBP:

Criteria for HAI: ALT>5 x ULN - IgG>2 x ULN

- 1. Presence of anti-smooth muscle antibodies (AML) $\geq 1/80$
- 2. Hepatitis of moderate or severe interface, this criterion being mandatory

CBP criteria: Unexplained cholestasis: alkaline phosphatases (PAL)> $1.5~\mathrm{x}$ ULN

- 1. or gamma-glutamyltransferase (GGT)> 3 x ULN
- 2. Presence of anti-mitochondria type 2 antibodies (AMA2) $\geq 1/40$.

After the diagnosis of HAI, the search for the other most frequently associated autoimmune diseases is systematic.

Results

Age and gender

There were 18 women (86%) and 3 men (14%) with a sex ratio of 0.16. The age at diagnosis was 39.4 years (16-76 years) on average.

Telltale signs

The condition was revealed by jaundice in 47%, asthenia in 3 cases 60%, isolated pruritus in 21.2% of patients and pain in the right hypochondrium in 21.1%.

Biological signs

Liver biology was characterized by the presence of a mixed syndrome combining cytolysis and cholestasis in 18 cases (86%). The level of transaminases was higher than 10 x ULN in 4 cases (21.1%), superior to 5 x ULN in 5 cases (26.3%). A hypergammaglobulinemia carrying on IgG was found in 14 cases (66%). A biological syndrome of hepatocellular insufficiency was already present at the time of diagnosis in patients (38%). Moderate pancytopenia, related to hypersplenism, was observed in 3 patients (14.2%).

Associated auto immune disease

18 out of 21 patients (78%) had autoimmune disease associated with HAI. 62.5% had a single associated autoimmune disease, 19%

*Correspondence to: Ghita Bennani, Department of Diseases of the Digestive System, Medicine C, CHU IBN SINA-Souissi Med University, V-Rabat, Morocco, Tel: +212 5376-76464; E-mail: ghita_med5@yahoo.fr

key words: auto immune hepatitis, related autoimmune disease, overlap syndrome, autoimmune thyroiditis

Received: November 04, 2019; **Accepted:** November 18, 2019; **Published:** November 21, 2019

Gastroenterol Hepatol Endosc, 2019 doi: 10.15761/GHE.1000191 Volume 4: 1-2

had two associated autoimmune diseases. The diagnosis of associated autoimmune diseases was concomitant with that of HAI in 13 cases (72.2%), preceded that of HAI in 2 cases (11.1%) and 3 cases (16.6%) were diagnosed at follow-up. of the HAI. The associated autoimmune diseases were; autoimmune dysthyroiditis (n=9), CBP-HAI overlap syndrome (n=5), CSP-HAI (n=1), dry syndrome (n=3), rheumatoid arthritis (n=1), insulin-dependent diabetes (n=1)

Discussion

Age

HAI is a condition seen particularly in young adults. The first manifestations of HAI can be observed between the age of 1 year and the 8th decade. A study carried out in France concluded that the average age at diagnosis was 43 years with extremes of age which varied between 16 years and 75 years (1), another study in Algeria had found an average age of 38 years with age extremes ranging from 17 years to 73 years. (2) In our series, the age of diagnosis agrees with the results of other studies and varies between 16 years and 74 years with an average of 39.4 years (Table 1).

Gender

HAI is mainly a disease of young women but its incidence in the male sex is increasing, in our study as in the others the sex ratio is 4 + 1 - 3 (Table 2).

Mode of clinical presentation

HAI can be in the form of acute or chronic liver disease with a wide variety of clinical presentations ranging from asymptomatic to fulminant hepatitis.

In our study 64% presented in a Table of chronic liver disease 22% in a table of acute hepatitis and in 14% of cases, the patients were asymptomatic. In the latter case, the diagnosis is evoked either before a disturbance of the hepatic balance or anomaly on the clinical examination. The HAI produces often heterogeneous tables of varying severity (Table 3).

Autoimmune diseases associated with HAI

HAI can be associated with other autoimmune diseases as

Table 1. Comparison of the age of diagnosis

Series	Number of cases	Average age	Extremes of age	
Hakem et al. [2]	50	38 Y	17-73 Y	
Nguyen et al. [1]	23	43 Y	16-75 Y	
Our series	21	39 Y	16-74 Y	

Table 2. Comparison of the gender of diagnosis

Series	Number of cases	Percentage of women	Sex – ratio	
Kchir et al. [3]	50	27	54%	
Nguyen et al. [1]	23	19	82.6%	
Notre series	21	18	86%	

Table 3. Clinical manifestations according to the different studies

series	jaundice	asthenia	Pain of the right hypochondrium	pruritus	Hepatomegaly
Chaouali	80%	66%	40%	43%	33%
Hakem	72%	96%	24%	22%	56%
Burgart	80%	85%	50%	-	80%
Our series	47%	68%	21.1%	21.1%	63%

Table 4. Comparison of autoimmune diseases associated with HAI between series

The associated autoimmune diseases	Gourdas	Nguyen	Chaouali	Notre series
autoimmune thyroiditis	7.8	17.4%		42%
insulin-dependent diabetes	10.5%	4.35%		
Syndrome sec			13.3%	
Overlap syndrome		4.35%	20%	28%
Polyarthritis rheumatoid	5.22%	4.35%		4.7%
coeliac disease			3.3%	

well as system diseases. This association has often been reported in the literature with a frequency varying from 26 to 40% such as autoimmune thyroiditis, celiac disease, Goujerot-Sjogren syndrome, rheumatoid arthritis and insulin-dependent diabetes. The coexistence of autoimmune manifestations testifies to the existence of a common predisposing genetic terrain thus constituting an important criterion for the diagnosis of this hepatopathy. In our study, 87% of patients had at least one autoimmune disease associated with HAI: 62.5% had a single associated autoimmune disease, 19% had two associated autoimmune diseases.

The associated autoimmune diseases were; autoimmune dysthyroiditis (n = 9), CBP-HAI overlap syndrome (n = 5), CSP-HAI (n = 1), dry syndrome (n = 3), rheumatoid arthritis (n = 1), insulindependent diabetes (n = 1). The study by Debbeche et al. [9] showed that 27 patients (31%) out of a total of 87 patients had at least one autoimmune disease associated with autoimmune hepatitis, mainly type 1 diabetes, auto-thyroiditis. immune system and Gougerot Sjögren's syndrome. A Tunisian study by Chaouali showed that 15 out of 30 patients had at least one autoimmune disease associated with liver disease, or 50% of the cases. These diseases were dominated by type 1 diabetes, primary biliary cirrhosis and autoimmune hemolytic anemia. The "CBP-HAI" overlap syndrome was retained in 6 patients, i.e. in 20% of the cases (Table 4).

Conclusion

HAI is frequently associated with other autoimmune diseases whose screening must be systematic. The associated autoimmune diseases mainly found in our series are overlap syndrome and autoimmune thyroiditis.

References

- Nguyen Y, Hillaire S, Marroun I, Roumier M, Sené T, et al. (2010) Autoimmune hepatitis: monocentric series of 23 cases followed in internal medicine, France. *Internal Med J*: A52.
- Hakem D, Berrah A, Berkane S, Asselah H, Aït-Younes S, et al. (2005) Autoimmune chronic active hepatitis: anatomoclinic's study of 50 patients. *Internal Rev Med* 26: 858-865. [Crossref]
- Kchir H, Maamouri N, Belkahla N, Ouerghi H, Ben F, et al. (2010) Autoimmune hepatitis in adults: about 32 cases, Tunisia. *Internal Med J*: S166-S167.

Copyright: ©2019 Bennani GK. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Gastroenterol Hepatol Endosc, 2019 doi: 10.15761/GHE.1000191 Volume 4: 2-2