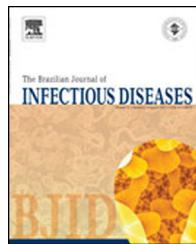




The Brazilian Journal of INFECTIOUS DISEASES

www.elsevier.com/locate/bjid



Letter to the Editor

Efficacy of Entecavir therapy in elderly patients with chronic hepatitis B infection



Dear Editor,

Chronic infection with hepatitis B virus (CHB) affects as many as 350–400 million people worldwide and 93 million people in China.¹ Moreover, elderly patients with CHB are increasing. Hence, the treatment of elderly patients with CHB is an important issue. However, to our knowledge, there is no report about the efficacy of Entecavir (ETV) treatment on elderly patients (≥ 60 years) with CHB.

A retrospective cohort study was conducted between February 2006 and March 2008; 40 consecutive Chinese patients aged ≥ 60 years were enrolled in this study at Zhenjiang No. 3 Hospital. We also selected 40 patients aged <60 years with CHB on ETV therapy at same time, who were matched to the ≥ 60 age group with respect to sex, alanine aminotransferase (ALT), HBV-DNA level, HBV genotype, and HBeAg status and duration of therapy. The study protocol was approved by the ethics committees of the hospital. All patients were treated with Entecavir at a dose of 0.5 mg/day peroral.

Table 1 shows the rates of normalization of ALT level and non-detection of HBV-DNA, among patients aged ≥ 60 years and <60 years after six months and three years on ETV therapy. The rates of ALT normalization of and of non-detection of HBV-DNA in the two groups were similar ($p > 0.05$ for the two comparisons). Thirteen aged ≥ 60 years and nine patients aged less than 60 years underwent long-term liver biopsy (median time: 23 months, range: 12–39 months). Histological improvement (over 2-point decrease in the Knodell necroinflammatory

score and no worsening of the Knodell fibrosis score) were 76.9% (10/13) versus 77.8% (7/9) and fibrosis improvement (the Ishak fibrosis score ≥ 1 -point decrease) were 38.5% (5/13) versus 44.4% (4/9) in two groups, respectively ($p > 0.05$ for the two comparisons).

The cumulative emergence rates of ETV resistance in patients aged ≥ 60 years and in those <60 years were 0% and 0% at one year, 2.5% and 0% at two years, and 2.5% and 2.5% at three years, respectively. The emergence rates of ETV resistance in patients aged ≥ 60 years were similar to those of patients aged <60 years at all three time intervals. The cumulative rates of breakthrough hepatitis in patients aged ≥ 60 and <60 years were 0% and 0% at one year, 2.5% and 0% at two years, and 2.5% and 2.5% at three years, respectively (not significant). The mutation clusters were rtI169T + rtL180M + rtM204V + rtM250V and rtL180M + rtT184G + rtS202I, and rtM204V, respectively. After emergence of the HBV mutant, we added adefovir dipivoxil (ADV) to ongoing ETV therapy.

The benefits of ETV in patients with compensated HBV-related liver disease have been suggested by several groups.^{2–5} Our study is the first to show long-term efficacy of ETV monotherapy in older patients. Our results suggest that the treatment with ETV is not only well tolerated but also effective in the elderly population with chronic HBV infection.

Further studies are needed to confirm the efficacy and safety of ETV among the elderly.

Table 1 – Rates of ALT normalization and of non-detection of HBV-DNA in patients aged ≥ 60 years and <60 years.

	n	ALT normalization rates (%)				HBV-DNA non-detection rates (%)			
		6 months	12 months	24 months	36 months	6 months	12 months	24 months	36 months
Age ≥ 60 years	40	87.5	87.5	90	87.5	82.5	87.5	87.5	92.5
Aged <60 years	40	85	87.5	85	82.5	80	90	85	90

Conflicts of interest

The authors declare no conflicts of interest.

REFERENCES

1. Chinese Society of Hepatology, Chinese Medical Association and Chinese Society of Infectious Diseases, Chinese Medical Association. The guidelines of prevention and treatment for chronic hepatitis B. Chin J Hepatol. 2011;19: 13-23.
2. Sherman M, Yurdaydin C, Simsek H, et al. Entecavir therapy for lamivudine-refractory chronic hepatitis B: improved virology, biochemical, and serology outcomes through 96 weeks. Hepatology. 2008;48:99-108.
3. Han SH, Chang TT, Chao YC, et al. Five years of continuous entecavir for nucleoside-naïve HBeAg(t) chronic hepatitis B: results from study ETV-901. Hepatology. 2008;48 Suppl. 1:705A-6A [Abstract].
4. Shovel D, Lai CL, Chang TT, et al. Three years of Entecavir re-treatment of HBeAg(-) entecavir patients who previously discontinued entecavir therapy: results from study ETV-901. Hepatology. 2008;48 Suppl. 1:722A-3A [Abstract].
5. Lai CL, Shouval D, Lok AS, et al. Entecavir versus lamivudine for patients with HBeAg negative chronic hepatitis B. N Engl J Med. 2006;354:1011-20.

You-wen Tan ^{a,b,*}

^a Department of Infectious Disease, The First Affiliated Hospital of Soochow University, Suzhou, Jiangsu Province, China

^b Department of Infectious Disease, The No. 3 People's Hospital of Zhenjiang, Zhenjiang, Jiangsu Province, China

Guo-hong Ge, Li Sun, Xing-bei Zhou, Pen-li Peng, Li Chen

Department of Infectious Disease, The No. 3 People's Hospital of Zhenjiang, Zhenjiang, Jiangsu Province, China

* Corresponding author.

E-mail address: tyw915@sina.com (Y.-w. Tan).

Received 13 April 2014

Accepted 27 May 2014

Available online 29 August 2014

<http://dx.doi.org/10.1016/j.bjid.2014.05.016>

1413-8670/© 2014 Elsevier Editora Ltda.

Este é um artigo Open Access sob a licença de CC BY-NC-ND