World Journal of Clinical Cases

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Thrice Monthly Volume 9 Number 19 July 6, 2021

OPINION REVIEW

4881 Fear of missing out: A brief overview of origin, theoretical underpinnings and relationship with mental health

Gupta M, Sharma A

REVIEW

4890 Molecular pathways in viral hepatitis-associated liver carcinogenesis: An update

Elpek GO

4918 Gastroenterology and liver disease during COVID-19 and in anticipation of post-COVID-19 era: Current practice and future directions

Oikonomou KG, Papamichalis P, Zafeiridis T, Xanthoudaki M, Papapostolou E, Valsamaki A, Bouliaris K, Papamichalis M, Karvouniaris M, Vlachostergios PJ, Skoura AL, Komnos A

Enhancing oxygenation of patients with coronavirus disease 2019: Effects on immunity and other health-4939 related conditions

Mohamed A, Alawna M

MINIREVIEWS

4959 Clinical potentials of ginseng polysaccharide for treating gestational diabetes mellitus

Zhao XY, Zhang F, Pan W, Yang YF, Jiang XY

4969 Remarkable gastrointestinal and liver manifestations of COVID-19: A clinical and radiologic overview

Fang LG, Zhou Q

4980 Liver injury in COVID-19: Known and unknown

Zhou F, Xia J, Yuan HX, Sun Y, Zhang Y

4990 COVID-19 and gastroenteric manifestations

Chen ZR, Liu J, Liao ZG, Zhou J, Peng HW, Gong F, Hu JF, Zhou Y

4998 Role of epithelial-mesenchymal transition in chemoresistance in pancreatic ductal adenocarcinoma

Hu X, Chen W

Insights into the virologic and immunologic features of SARS-COV-2 5007

Polat C, Ergunay K

ORIGINAL ARTICLE

Basic Study

5019 SMAC exhibits anti-tumor effects in ECA109 cells by regulating expression of inhibitor of apoptosis protein family

Jiang N, Zhang WQ, Dong H, Hao YT, Zhang LM, Shan L, Yang XD, Peng CL

Case Control Study

5028 Efficacy of Solitaire AB stent-release angioplasty in acute middle cerebral artery atherosclerosis obliterative cerebral infarction

Wang XF, Wang M, Li G, Xu XY, Shen W, Liu J, Xiao SS, Zhou JH

Retrospective Study

5037 Diagnostic value of different color ultrasound diagnostic method in endometrial lesions

Lin XL, Zhang DS, Ju ZY, Li XM, Zhang YZ

5046 Clinical and pathological features and risk factors for primary breast cancer patients

Lei YY, Bai S, Chen QQ, Luo XJ, Li DM

5054 Outcomes of high-grade aneurysmal subarachnoid hemorrhage patients treated with coiling and ventricular intracranial pressure monitoring

Wen LL, Zhou XM, Lv SY, Shao J, Wang HD, Zhang X

- 5064 Microwave ablation combined with hepatectomy for treatment of neuroendocrine tumor liver metastases Zhang JZ, Li S, Zhu WH, Zhang DF
- 5073 Clinical application of individualized total arterial coronary artery bypass grafting in coronary artery surgery

Chen WG, Wang BC, Jiang YR, Wang YY, Lou Y

Observational Study

5082 Early diagnosis, treatment, and outcomes of five patients with acute thallium poisoning

Wang TT, Wen B, Yu XN, Ji ZG, Sun YY, Li Y, Zhu SL, Cao YL, Wang M, Jian XD, Wang T

5092 Sarcopenia in geriatric patients from the plateau region of Qinghai-Tibet: A cross-sectional study

Pan SQ, Li YM, Li XF, Xiong R

5102 Medium-term efficacy of arthroscopic debridement vs conservative treatment for knee osteoarthritis of Kellgren-Lawrence grades I-III

Lv B, Huang K, Chen J, Wu ZY, Wang H

Prospective Study

5112 Impact of continuous positive airway pressure therapy for nonalcoholic fatty liver disease in patients with obstructive sleep apnea

II

Hirono H, Watanabe K, Hasegawa K, Kohno M, Terai S, Ohkoshi S

Thrice Monthly Volume 9 Number 19 July 6, 2021

Randomized Controlled Trial

5126 Erector spinae plane block at lower thoracic level for analgesia in lumbar spine surgery: A randomized controlled trial

Zhang JJ, Zhang TJ, Qu ZY, Qiu Y, Hua Z

SYSTEMATIC REVIEWS

5135 Controversies' clarification regarding ribavirin efficacy in measles and coronaviruses: Comprehensive therapeutic approach strictly tailored to COVID-19 disease stages

Liatsos GD

5179 Systematic review and meta-analysis of trans-jugular intrahepatic portosystemic shunt for cirrhotic patients with portal vein thrombosis

Zhang JB, Chen J, Zhou J, Wang XM, Chen S, Chu JG, Liu P, Ye ZD

CASE REPORT

- 5191 Myelodysplastic syndrome transformed into B-lineage acute lymphoblastic leukemia: A case report Zhu YJ, Ma XY, Hao YL, Guan Y
- 5197 Imaging presentation and postoperative recurrence of peliosis hepatis: A case report Ren SX, Li PP, Shi HP, Chen JH, Deng ZP, Zhang XE
- 5203 Delayed retroperitoneal hemorrhage during extracorporeal membrane oxygenation in COVID-19 patients: A case report and literature review

Zhang JC, Li T

- 5211 Autologous tenon capsule packing to treat posterior exit wound of penetrating injury: A case report Yi QY, Wang SS, Gui Q, Chen LS, Li WD
- 5217 Treatment of leiomyomatosis peritonealis disseminata with goserelin acetate: A case report and review of the literature

Yang JW, Hua Y, Xu H, He L, Huo HZ, Zhu CF

5226 Homozygous deletion, c. 1114-1116del, in exon 8 of the CRPPA gene causes congenital muscular dystrophy in Chinese family: A case report

Yang M, Xing RX

5232 Successful diagnosis and treatment of jejunal diverticular haemorrhage by full-thickness enterotomy: A case report

Ma HC, Xiao H, Qu H, Wang ZJ

5238 Liver metastasis as the initial clinical manifestation of sublingual gland adenoid cystic carcinoma: A case report

Li XH, Zhang YT, Feng H

5245 Severe hyperbilirubinemia in a neonate with hereditary spherocytosis due to a de novo ankyrin mutation: A case report

III

Wang JF, Ma L, Gong XH, Cai C, Sun JJ

Thrice Monthly Volume 9 Number 19 July 6, 2021

5252 Long-term outcome of indwelling colon observed seven years after radical resection for rectosigmoid cancer: A case report

Zhuang ZX, Wei MT, Yang XY, Zhang Y, Zhuang W, Wang ZQ

5259 Diffuse xanthoma in early esophageal cancer: A case report

Yang XY, Fu KI, Chen YP, Chen ZW, Ding J

5266 COVID-19 or treatment associated immunosuppression may trigger hepatitis B virus reactivation: A case

Wu YF, Yu WJ, Jiang YH, Chen Y, Zhang B, Zhen RB, Zhang JT, Wang YP, Li Q, Xu F, Shi YJ, Li XP

5270 Maintenance treatment with infliximab for ulcerative ileitis after intestinal transplantation: A case report

Fujimura T, Yamada Y, Umeyama T, Kudo Y, Kanamori H, Mori T, Shimizu T, Kato M, Kawaida M, Hosoe N, Hasegawa Y, Matsubara K, Shimojima N, Shinoda M, Obara H, Naganuma M, Kitagawa Y, Hoshino K, Kuroda T

5280 Infliximab treatment of glycogenosis Ib with Crohn's-like enterocolitis: A case report

Gong YZ, Zhong XM, Zou JZ

5287 Hemichorea due to ipsilateral thalamic infarction: A case report

Li ZS, Fang JJ, Xiang XH, Zhao GH

5294 Intestinal gangrene secondary to congenital transmesenteric hernia in a child misdiagnosed with gastrointestinal bleeding: A case report

Zheng XX, Wang KP, Xiang CM, Jin C, Zhu PF, Jiang T, Li SH, Lin YZ

5302 Collagen VI-related myopathy with scoliosis alone: A case report and literature review

Li JY, Liu SZ, Zheng DF, Zhang YS, Yu M

5313 Neuromuscular electrical stimulation for a dysphagic stroke patient with cardiac pacemaker using magnet mode change: A case report

Kim M, Park JK, Lee JY, Kim MJ

5319 Four-year-old anti-N-methyl-D-aspartate receptor encephalitis patient with ovarian teratoma: A case report

Xue CY, Dong H, Yang HX, Jiang YW, Yin L

5325 Glutamic acid decarboxylase 65-positive autoimmune encephalitis presenting with gelastic seizure, responsive to steroid: A case report

Yang CY, Tsai ST

5332 Ectopic opening of the common bile duct into the duodenal bulb with recurrent choledocholithiasis: A case report

Xu H, Li X, Zhu KX, Zhou WC

5339 Small bowel obstruction caused by secondary jejunal tumor from renal cell carcinoma: A case report

ΙX

Bai GC, Mi Y, Song Y, Hao JR, He ZS, Jin J

5345 Brugada syndrome associated with out-of-hospital cardiac arrest: A case report

Ni GH, Jiang H, Men L, Wei YY, A D, Ma X

Thrice Monthly Volume 9 Number 19 July 6, 2021

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CASE REPORT

COVID-19 or treatment associated immunosuppression may trigger hepatitis B virus reactivation: A case report

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Abstract

BACKGROUND

Since the initial recognition of coronavirus disease 2019 (COVID-19) in Wuhan, this infectious disease has spread to most areas of the world. The pathogenesis of COVID-19 is yet unclear. Hepatitis B virus (HBV) reactivation occurring in COVID-19 patients has not yet been reported.

CASE SUMMARY

A 45-year-old hepatitis B man with long-term use of adefovir dipivoxil and entecavir for antiviral therapy had HBV reactivation after being treated with methylprednisolone for COVID-19 for 6 d.

5266

the CARE Checklist.

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CONCLUSION

COVID-19 or treatment associated immunosuppression may trigger HBV

Key Words: COVID-19; Hepatitis B virus; Reactivation; Diagnose; Therapy; Case report

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Core Tip: In this study, the authors found that coronavirus disease 2019 or treatment associated immunosuppression may trigger hepatitis B virus reactivation.

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INTRODUCTION

Hepatitis B virus (HBV) reactivation occurs primarily when body immunity declines due to the use of chemotherapy, long-term glucocorticoids, or immunosuppressive therapy[1]. Coronavirus disease 2019 (COVID-19) is an emerging global viral infectious disease. The pathogenesis of COVID-19 is still unclear [2]. Whether HBV reactivation occurs in COVID-19 patients has not yet been reported.

CASE PRESENTATION

Chief complaints

A 45-year-old man was admitted to the hospital for fever and fatigue after his way back from Wuhan, China 2 d ago.

History of present illness

The patient had a history of HBV infection for over 20 years. He was initially treated with adefovir dipivoxil and entecavir since then. Adfovir was discontinued 5 years ago.

History of past illness

The patient had no history of high blood pressure, diabetes, heart disease, or tumor.

Personal and family history

The patient was married at the age of 25, with two sons. His wife was in good health and his family relations were harmonious. His parents were alive and healthy, and his two younger sisters were healthy.

Physical examination

Physical examination revealed no swelling of lymph nodes throughout the body, clear breath sounds in both lungs, and no rales.

Laboratory examinations

The patient was positive for nucleic acid test for COVID-19. The initial laboratory results included: His blood lymphocyte count was 1.61 × 109/L, the percentage of CD4+ T cells was 32.82%, and alanine aminotransferase (ALT) and aspartate transaminase (AST) were 56 U/L and 30 U/L, respectively. After that, ALT was increased to 102 U/L, and AST was slightly increased to 48 U/L. HBV DNA was lower than the detection limit (30 IU/mL). Hepatitis B surface antigen was 1356 cutoff index (COI; < 1.000), hepatitis B surface antibody 2 iu/L (2-10 iu/L), hepatitis B e-antigen 0.34 COI (< 1.000), hepatitis B e-antibody 0.563COI (> 1.000), and hepatitis B c-antibody 0.416 COI (> 1.000).

Imaging examinations

On day 6, a chest computed tomography scan showed progressive pneumonia.

FINAL DIAGNOSIS

COVID-19 and hepatitis B virus infection.

TREATMENT

After admission, the patient was treated with recombinant interferon-alpha-2b and lopinavir/ritonavir. Following this, he was treated with methylprednisolone (40 mg once daily). His lymphocyte count continued its downtrend to 0.89 × 10°/L, CD4+ T cells further declined to 27.14%, and liver enzymes ALT and AST showed no significant changes. HBV DNA was increased to 1.11 × 10² IU/mL, although it was actually negative before this admission (Figure 1). Hence, tenofovir fumarate was added for possible HBV reactivation.

OUTCOME AND FOLLOW-UP

The patient started to be afebrile, and liver enzymes ALT and AST decreased to 42 U/L and 17 U/L, respectively. The nucleic acid test for COVID-19 became negative twice then. HBV DNA became lower than the detection limit (30 IU/mL). HBV drug resistance gene of the HBV P region was negative too. Then, the patient was discharged. Both liver enzymes and HBV DNA were within normal range after discharge from hospital.

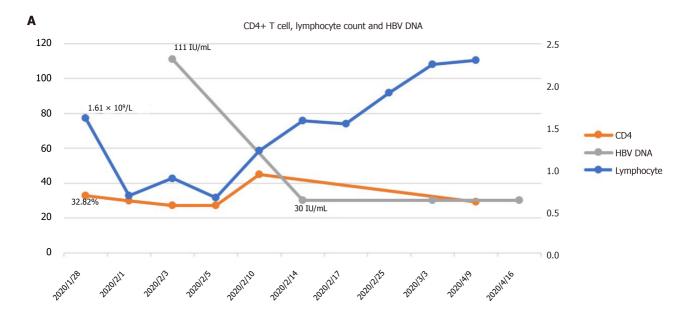
DISCUSSION

As we know, unstandardized administration of nucleos(t)ide analog, glucocorticoids, chemotherapy drugs, and new biological agents such as monoclonal antibodies and antiviral drugs of hepatitis B virus can cause HBV reactivation[1]. This patient had used adefovir dipivoxil and entecavir for antiviral therapy for a long time. His HBV DNA was negative before the development of COVID-19. He had elevated liver enzymes and increased HBV DNA during the treatment of COVID-19. Thus, according to American Association for the Study of Liver Diseases guideline about the definition of HBV reactivation, he met the criteria for HBV reactivation. Besides, the long term usage of antiviral drugs that may cause HBV resistance to NAs is also possible[3]. However, his HBV resistance gene was tested and negative for entecavir and adefovir dipivoxil. Noncompliance is another reason that causes HBV reactivation[3], but our patient was followed in the clinic regularly, and he did not discontinue or reduce dose without physician's advice. Therefore, it could be possible that HBV reactivation in this patient was caused by COVID-19 or related treatment. The mechanism of HBV reactivation is not yet fully understood. Once the immune homeostasis between the virus and the body is disturbed, HBV reactivation may occur[4]. Previous studies have shown that COVID-19 patients may have impaired immune function and lower lymphocyte count, especially CD4+ T lymphocytes[2]. And glucocorticoid usage may decrease cellular immune function sharply. As a novel infectious disease, the pathogenesis of COVID-19 is yet unclear. This is the first case report of COVID-19 complicated with HBV reactivation.

CONCLUSION

For COVID-19 patients complicated with hepatitis B, HBV reactivation may happen, and glucocorticoids need to be used cautiously.

5268



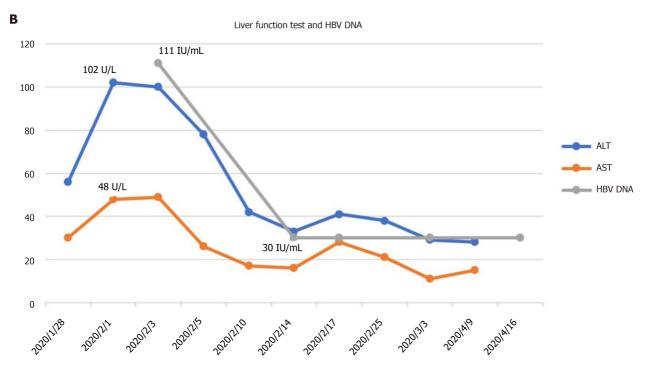


Figure 1 Time-course of CD4+ T cells, lymphocyte count, alanine aminotransferase, aspartate transaminase, and hepatitis B virus DNA. A: CD4+ T cells, lymphocyte count, and hepatitis B virus (HBV) DNA; B: Alanine aminotransferase, aspartate transaminase, and HBV DNA. ALT: Alanine aminotransferase; AST: Aspartate transaminase; HBV: Hepatitis B virus.

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