

Supplementary Online Content

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Supplement. Trial Protocol of the Substudy

This supplementary material has been provided by the authors to give readers additional information about their work.

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A prospective, randomized, controlled, multi-center study to compare the efficacy of prophylactic entecavir and lamivudine in preventing hepatitis B reactivation in HBsAg-positive patients with untreated diffuse large B-cell lymphoma under R-CHOP chemotherapy

Applicant Institution: Sun Yat-Sen University Cancer Center

Principal institution: Sun Yat-Sen University Cancer Center

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Remark: this study is a branch study of the primary study which has been detailed in previous section. The subject population of this study comes from the primary study. The primary version of this protocol was in Chinese. We have translated it into English.

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113 **List Of Abbreviations**

ADCC	Antibody-Dependent Cell-mediated Cytotoxicity
AE	Adverse Event
ALT	Alanine aminotransferase
AST	Aspartate aminotransferase
CDCC	Complement-Dependent Cytotoxicity
CHOP	Cyclophosphamide, Doxorubicin, Vincristine, Prednisone
CRF	Case report form
CTCAE	Common Terminology Criteria for Adverse Events
DLBCL	Diffuse Large B-cell Lymphoma
HAV	Hepatitis A Virus
HBV	Hepatitis B Virus
HBcAg	Hepatitis B c-Antibody
HBsAb	Hepatitis B e-Antibody
HBsAg	Hepatitis B e-Antigen
HBsAb	Hepatitis B Surface Antibody
HBsAg	Hepatitis B Surface Antigen
HCV	Hepatitis C Virus
HDV	Hepatitis D Virus
HEV	Hepatitis E Virus
HIV	Human Immunodeficiency Virus
NHL	Non-Hodgkin Lymphoma
R-CHOP	Rituximab, Cyclophosphamide, Doxorubicin, Vincristine, Prednisone
SAE	Serious Adverse Event

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Protocol Summary

applicant	Sun Yat-Sen University Cancer Center
phase	Phase III
indication	HBsAg-positive subjects with untreated DLBCL under R-CHOP chemotherapy
objectives	compare the incidence of hepatitis B reactivation in HBsAg-positive patients with untreated DLBCL under R-CHOP chemotherapy between prophylactic entecavir and lamivudine group; compare the incidence of HBV reactivation, chemotherapy disruption due to hepatitis in HBsAg-positive patients with untreated DLBCL under R-CHOP chemotherapy between prophylactic entecavir and lamivudine group
study design	prospective, multi-center, controlled, open-label, randomized phase III study
required subject	108 subjects
Study sites	10 study sites (Sun Yat-Sen University Cancer Center, The First Affiliated Hospital of Sun Yat-sen University, The Third Affiliated Hospital of Sun Yat-sen University, The Fifth Affiliated Hospital of Sun Yat-sen University, Beijing Cancer Hospital, Southern Hospital of Southern Medical University, The First People's Hospital of Foshan, People's Hospital of Zhongshan, Shantou University Medical College and Kiang Wu Hospital)
Screening Criteria	HBsAg-positive subjects with untreated DLBCL without treatment contraindication
Control Group	Lamivudine (from 1 week before the initiation of R-CHOP chemotherapy to 6 months after the completion of chemotherapy)
Experimental Group	Entecavir (from 1 week before the initiation of R-CHOP chemotherapy to 6 months after the completion of chemotherapy)
Primary Endpoint	Incidence of hepatitis B reactivation
Secondary Endpoints	Incidence of HBV reactivation and chemotherapy disruption due to hepatitis
Study procedures	<p>This is a prospective, multi-center, controlled, open-label, randomized phase III study.</p> <p>A total of 108 HBsAg-positive subjects with untreated DLBCL meeting the inclusion criteria is required. After giving written informed consent, all subjects will be randomized to receive prophylactic entecavir or lamivudine, which will be initiated 1 week before R-CHOP chemotherapy and withdrawn 6 months after the completion of chemotherapy. HBV DNA copies and liver function will be performed at the end of every cycle of chemotherapy, every month after the cessation of chemotherapy, and every 3 to 6 months after the withdrawal of antiviral prophylaxis. Viral markers of HAV, HBV, HCV, HDV, HEV, and HIV will be evaluated when hepatitis occurs.</p>

Statistical analysis A total of 108 HBsAg-positive patients with untreated DLBCL will be randomized to two prophylactic antiviral treatment group at a 1:1 scheme. The incidence of hepatitis B reactivation, HBV reactivation and chemotherapy disruption due to hepatitis will be compared between the two groups. All adverse events related to antiviral drugs will be analyzed.

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156 **1. Background**

157 Hepatitis B virus (HBV) infection is a worldwide health problem and more than 350 million
158 individuals worldwide are infected with HBV. In endemic areas such as China, the prevalence of
159 positive hepatitis B surface antigen (HBsAg) is about 7%. For several decades, it has been
160 considered that there is no relationship between HBV infection and tumors deriving from
161 non-hepatobiliary system due to the hepatotropic characteristic of HBV. However, numerous
162 fundamental researches have indicated that HBV is lymphotropic. It was proposed by Heimann
163 R in 1970s that HBV infection might stimulate lymphatic system persistently, which would lead to
164 the development of malignant clone of lymphocytes. Several epidemiologic studies abroad have
165 demonstrated that there is a high prevalence of HBV infection in lymphoma, suggesting HBV may
166 be related to the pathogenesis of lymphoma. A case-control study in our center demonstrated
167 that there was a higher prevalence of HBV infection in patients with B-cell NHL (30.2%) than in
168 patients with other cancers; however, there was no statistical difference in HBV prevalence
169 between T-cell NHL and other cancers.

170 Cytotoxic drugs could increase the risk of hepatitis flare in HBV carriers with normal liver
171 function before chemotherapy. The reported incidence of HBV reactivation in patients with
172 malignancies is as high as 44% during chemotherapy. Young age, male, positive hepatitis B
173 e-antigen (HBeAg) and lymphoma are demonstrated as risk factors of HBV reactivation.

174 As the most frequent subtype of non-Hodgkin lymphoma (NHL), diffuse large B-cell
175 lymphoma (DLBCL) accounts for more than one fourth of all cases in Asia. For more than 25 years,
176 the CHOP (cyclophosphamide, doxorubicin, vincristine, and prednisone) regimen has been
177 standard care for DLBCL. As the addition of rituximab to traditional chemotherapy dramatically
178 improves the outcome of DLBCL, rituximab combined with CHOP regimen (R-CHOP) has become
179 the standard first-line treatment for DLBCL. Rituximab, a human-mouse chimeric monoclonal
180 antibody that binds specifically to the CD20 antigen located on B lymphocytes, can induce
181 CD20-positive B-cell depletion and secondary immunosuppression as a result of
182 antibody-dependent cell-mediated cytotoxicity (ADCC) and complement-dependent
183 cytotoxicity (CDCC). With the extensive use of rituximab-contained chemotherapy, the risk of
184 HBV reactivation has greatly increased in HBV carriers.

185 Available antiviral drugs for HBV infection are mainly nucleoside analogues including
186 lamivudine and entecavir. Lamivudine is the first approved nucleoside analogue and is
187 well-tolerated with minimal toxicity. But the high incidence of lamivudine-resistant mutations
188 limits its efficacy, which is as high as 70% after using for 5 years. For patients with concomitant
189 HIV and HBV infection, the incidence of drug-resistance is about 90% after using for 4 years.
190 Entecavir, the third generation of nucleoside analogues, displays superior liver histological
191 improvement and stronger inhibition of HBV DNA compared to lamivudine in both
192 HBeAg-positive and HBeAg-negative HBV carriers in two large randomized phase III studies.
193 Several guidelines on the management of chronic hepatitis B have recommended entecavir as the
194 first-line treatment for chronic HBV infection.

195 Prophylactic antiviral treatment with lamivudine in HBsAg-positive patients with
196 malignancies receiving chemotherapy can reduce the incidence of HBV reactivation, HBV-related
197 hepatitis and mortality in pre-rituximab era, which has been confirmed in several prospective
198 studies. However, in rituximab era, there are still cases who develop HBV reactivation despite
199 lamivudine prophylaxis. The optimal preventive antiviral protocol, including drugs and treatment
200 duration, is undetermined. We initiate this randomized study to compare the efficacy of
201 prophylactic lamivudine and entecavir in preventing HBV reactivation in HBV carriers with DLBCL
202 and investigate the optimal duration of antiviral treatment.

203 **2. Objectives**

204 **2.1. Primary Objective**

205 The primary objective of this study is to compare the incidence of hepatitis B reactivation
206 following prophylactic antiviral treatment with entecavir versus lamivudine in seropositive HBsAg
207 subjects with untreated CD20-positive DLBCL under R-CHOP chemotherapy.

208 **2.2. Secondary Objective**

209 The secondary objective is to compare the incidence of HBV reactivation and chemotherapy
210 disruption due to hepatitis and safety following prophylactic antiviral treatment with entecavir
211 versus lamivudine in seropositive HBsAg subjects with untreated CD20-positive DLBCL under
212 R-CHOP chemotherapy.

213 **3. Study Design**

214 This is a prospective, multi-center, controlled, open-label, randomized (1:1) phase III study of
215 prophylactic antiviral treatment with entecavir compared to lamivudine in seropositive HBsAg
216 subjects with untreated CD20-positive DLBCL under R-CHOP chemotherapy. Prophylactic antiviral
217 treatment will be initiated 1 week before R-CHOP chemotherapy and withdrawn 6 months after the
218 completion of chemotherapy.

219 **Screening:**

220 The subjects or their legally acceptable representative will provide written informed consent.
221 Besides all examinations detailed in the primary study, coagulation function, hepatitis B
222 surface-antigen/antibody (HBsAg/HBsAb), hepatitis B e-antigen/antibody (HBeAg/HBeAb), hepatitis B
223 core antibody (HBcAb), HBV DNA level, hepatitis A virus (HAV) antibody, hepatitis C virus (HCV)
224 antibody, hepatitis D virus (HDV) antibody, hepatitis E virus (HEV) antibody and human
225 immunodeficiency virus (HIV) antibody will be performed to determine baseline virus status and
226 study eligibility, all of which must be performed ≤ 14 days prior to randomization.

227 **Treatment:**

228 Based upon their assignment, subjects will receive prophylactic entecavir (0.5 mg/day) or
229 lamivudine (100 mg/day), which will be initiated 1 week before chemotherapy and withdrawn 6
230 months after the completion of chemotherapy. Antiviral treatment will be modified or resumed at the
231 investigator's discretion when HBV reactivation or HBV-related hepatitis occurs.

232 **4. Subject Selection Criteria**

233 **4.1. Subject Selection Criteria**

234 **4.1.1. Number Of Subjects**

235 A total of 108 subjects will be randomized to entecavir group or lamivudine group.

236 **4.1.2 Inclusion Criteria**

237 **Besides inclusion criteria detailed in the primary study, subjects eligible for enrolment in this**
238 **study must meet all of the following criteria at the same time:**

239 1. Normal liver function, including normal alanine aminotransferase (ALT), aspartate
240 aminotransferase (AST) and bilirubin

- 241 2. Seropositive HBsAg
242 3. Serum HBV DNA levels $<10^3$ copies/ml
243 4. No prior antiviral therapy

244 **4.1.3 Exclusion Criteria**

245 **Besides exclusion criteria detailed in the primary study, subjects meeting any of the following**
246 **criteria are ineligible for this study:**

- 247 1. Hepatic insufficiency for any reason
248 2. Positive viral markers for HAV, HCV, HDV, HEV, or HIV

249 **4.2. Removal Criteria**

250 Subjects who have participated in the study will be removed from statistical analysis for any of
251 the following:

- 252 1. Subjects who are ineligible for this study
253 2. Continuous study antiviral treatment less than 28 days
254 3. Deviation(s) from the protocol

255 **4.3. Withdrawal Criteria**

256 Subjects will be withdrawn from study antiviral treatment for any of the following:

- 257 1. Inability to fully comply with the study protocol
258 2. Occurrence of hepatitis B reactivation or HBV reactivation
259 3. Initiation of alternative antiviral treatment
260 4. Unacceptable toxicity
261 5. Best interest of the subject based upon the investigator's discretion
262 6. At the request of the study subject at any time for any reason

263 Subjects will be followed up unless the informed consent is withdrawn. The reason for
264 withdrawal from study participation and the date must be documented in the CRF. The
265 investigator must complete the last visit, including vital signs, physical examination, laboratory
266 tests including hematology, liver function, HBV DNA levels, viral markers of HAV, HCV, HDV, HEV,
267 HIV, and AE assessment, all of which must be documented in the CRF.

268 **5. Study Procedures**

269 **5.1. Antiviral Treatment Assignment**

270 Subjects will be identified by a unique subject number that will remain consistent for the
 271 duration of the study. Upon completion of all the required screening assessments, eligible
 272 subjects will be centrally randomized using a randomization schedule generated by Sun Yat-sen
 273 University Cancer Center statistical department, which will assign subjects in a 1:1 ratio to
 274 entecavir 0.5mg daily or lamivudine 100mg daily.

275 **5.2. Study Antiviral Treatment**

276 Study antiviral treatment will be modified at the investigator’s discretion when HBV reactivation or
 277 HBV-related hepatitis occurs.

278 **5.2.1. Entecavir Group**

drug	dose	frequency	route	time
entecavir	0.5 mg	Once daily	oral	From 1 week before R-CHOP chemotherapy to 6 months after the completion of chemotherapy

279 **5.2.2. Lamivudine Group**

drug	dose	frequency	route	time
lamivudine	100 mg	Once daily	oral	From 1 week before R-CHOP chemotherapy to 6 months after the completion of chemotherapy

280 **6. Efficacy Endpoints**

281 **6.1. Defination**

- 282 ● Hepatitis, defined as a 3-fold or greater increase in the serum ALT level that exceeded the
 283 reference range (>58 U/L) or as an absolute increase in ALT of >100 U/L compared with the
 284 baseline level.
- 285 ● HBV reactivation, defined as an increase in HBV DNA levels ≥10-fold or an absolute increase
 286 ≥10⁵ copies/mL when compared with the baseline value.
- 287 ● HBV-related hepatitis, defined as HBV reactivation preceding or accompanying hepatitis
 288 during and after chemotherapy in the absence of clinical or laboratory features of acute
 289 infection with other hepatitis viruses or systemic disease

- 290 ● Chemotherapy disruption, defined as either premature termination or a delay of at least 7
291 days between chemotherapy cycles
- 292 ● Delayed HBV-related hepatitis, defined as hepatitis related to HBV reactivation (an increase
293 in the DNA level of ≥ 10 -fold or an absolute increase of $\geq 10^5$ copies/mL when compared with
294 the baseline value) more than 6 months after the initiation of chemotherapy

295 **6.2. Primary Efficacy Endpoint**

296 Incidence of HBV-related hepatitis, defined as the percent of subjects who develop HBV-related
297 hepatitis during and after completion of chemotherapy

298 **6.3. Secondary Efficacy Endpoints**

- 299 ● Incidence of HBV reactivation, defined as the percent of subjects who develop HBV
300 reactivation during and after completion of chemotherapy
- 301 ● Incidence of chemotherapy disruption, defined as the percent of subjects whose
302 chemotherapy is prematurely terminated or delayed at least 7 days between two
303 continuous chemotherapy cycles
- 304 ● Incidence of delayed HBV-related hepatitis, defined as the percent of subjects who develop
305 HBV-related hepatitis more than 6 months after the initiation of chemotherapy

306 **6.4. Schedule Of Efficacy Assessments**

307 HBV DNA levels and liver function test including ALT, AST and bilirubin will be performed before
308 randomization, at the end of every cycle of R-CHOP chemotherapy, every month after the
309 cessation of chemotherapy for 6 months, and every 3 to 6 months after the withdrawal of
310 antiviral prophylaxis. Viral markers of HAV, HBV, HCV, HDV, HEV, and HIV will be evaluated when
311 hepatitis occurs.

312 **6.5. Methods of Efficacy Assessments**

313 HBV DNA assay, measured by real-time viral polymerase chain reaction (PCR) assays using the kit
314 made in Da An gene detection company of Sun Yat-Sen University. The lower limit of
315 quantification was 100 copies/mL.

316 **7. Safety (the same as the primary study)**

317 **8. Adverse Events (the same as the primary study)**

318 **9. Rules Of Withdrawal (the same as the primary study)**

319 **10. Rules Of Follow-Up**

320 **10.1. Follow-up Period**

321 Starting from randomization.

322 **10.2. Visit Scheduling**

323 At the end of every cycle of R-CHOP chemotherapy, every month after completion of
324 chemotherapy, every three months for one and a half year after withdrawal of antiviral
325 prophylaxis, and then then every six months until the primary study is completed. (After
326 withdrawal of antiviral prophylaxis, the visit scheduling of this study is the same as the primary
327 study.)

328 **10.3. Contents Of Follow-Up**

329 Besides of the contents detailed in the primary study, HBV DNA levels must be performed. All of
330 the results must be documented in the original medical record. The results of liver function test
331 and HBV DNA levels must be documented in the CRF.

332 **11. Data Analysis And Statistical Considerations**

333 **11.1. Hypotheses**

334 The primary endpoint is the incidence of HBV-related hepatitis. The null and alternative
335 hypotheses are designed with the goal of demonstrating the superiority of entecavir over
336 lamivudine. Superiority will be determined using the following hypothesis:

337 H0: incidences of HBV-related hepatitis for entecavir and lamivudine are the same.

338 H1: incidences of HBV-related hepatitis for entecavir and lamivudine are not the same.

339 **11.2. Study Design Considerations**

340 This prospective, multi-center, controlled, open-label, randomized (1:1) study compares the
341 efficacy of prophylactic entecavir and lamivudine for prevention hepatitis B reactivation in
342 seropositive HBsAg subjects with untreated CD20-positive DLBCL under R-CHOP chemotherapy.

343 The primary outcome is the incidence of HBV-related hepatitis, and the study is designed to
344 determine if entecavir is superior to lamivudine in the study population. Based on the reported

345 incidence of HBV-related hepatitis of 25% for lamivudine in subjects with NHL under CHOP
346 chemotherapy, a clinically meaningful reduction in HBV-related hepatitis rate would be 20% for
347 entecavir.

348 **11.2.1. Sample Size Assumptions**

349 The sample size calculation is based on the primary endpoint, incidence of HBV-related hepatitis,
350 with the following assumptions:

- 351 ● Incidence of HBV-related hepatitis for entecavir group: 5%
- 352 ● incidence of HBV-related hepatitis for lamivudine group: 25%
- 353 ● a 1:1 randomization scheme
- 354 ● a 5% two-sided risk of erroneously claiming a difference in the presence of no true
355 underlying difference by Chi-square test or Fisher's exact test
- 356 ● a 80% chance of successfully declaring a difference in the presence of a true
357 underlying difference (power)
- 358 ● 10% percent of cases drop

359 Under the above assumptions, a total sample size of 108 subjects is required.

360 **11.2.2. Primary Efficacy Endpoint**

361 The primary efficacy endpoint of this study is the incidence of HBV-related hepatitis.

362 **11.2.3. Secondary Efficacy Endpoints**

363 The secondary efficacy endpoints of this study include incidence of HBV reactivation, incidence of
364 chemotherapy disruption due to hepatitis, incidence of delayed HBV-related hepatitis and safety.

365 **11.3. Data Analysis Considerations**

366 **11.3.1. Analysis Data Sets**

367 The primary data set for efficacy will be based on the incidence of HBV-related hepatitis and
368 incidence of HBV reactivation. The primary data set for safety will be the adverse events and the
369 laboratory data sets.

370 The efficacy will be assessed by the investigators and by the independent reviewers. Data
371 will be summarized for investigators assessed efficacy as well as for independent reviewers
372 assessed efficacy. Statistical inference for efficacy claims will be based on the incidence of

373 HBV-related hepatitis and incidence of HBV reactivation data assessed by the independent
374 reviewers.

375 **11.3.2. Analysis Plan**

376 **11.3.2.1. Baseline Data**

377 Baseline characteristics will be summarized and described in a frequency list.

378 **11.3.2.2. Analysis of Efficacy**

379 The definition of efficacy endpoints has been detailed in previous section. Incidences of
380 HBV-related hepatitis, HBV reactivation, chemotherapy disruption and delayed HBV-related
381 hepatitis will be tested based on a two-sided test, with a significance level of 0.05.

382 The number and proportion of subjects who develop hepatitis, HBV-related hepatitis, HBV
383 reactivation, chemotherapy disruption, delayed HBV-related hepatitis will be provided. Pearson
384 chi-square test or Fisher's exact test will be used to compare the proportion of subjects with
385 HBV-related hepatitis, HBV reactivation, chemotherapy disruption, delayed HBV-related hepatitis
386 for entecavir vs. lamivudine.

387 **11.3.2.3. Analysis of Safety**

388 Values of laboratory tests, vital signs and results of physical examination before antiviral
389 treatment, during antiviral treatment and after antiviral treatment must be documented in
390 original medical record and the CRF. The definition of AEs and SAEs has been detailed in the
391 primary study. Data of clinical symptoms, signs and laboratory tests will be summarized according
392 to NCI CTCAE grade (version 3.0).

393 Categorical data such as AEs and SAEs will be summarized by frequency and proportion of
394 total subjects, which will be compared using Pearson chi-square test or Fisher's exact test
395 between entecavir group and lamivudine group. Quantitative data such as laboratory tests will be
396 described using arithmetic average or median for central tendency and standard deviation or
397 interquartile range for distribution range, which will be compared using t test or non-parametric
398 test between the two groups.

399 **12. Materials For the Study (the same as the primary study)**

400 **13. Ethical Considerations (the same as the primary study)**

401 **14. Administrative Requirements (the same as the primary study)**

402 **15. Quality Control Of Data (the same as the primary study)**