**Supplementary Materials**

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| HBVr in HBsAg +, anti-HBc + | HBsAg -, anti-HBc + | HBVr Associated Liver Failure |
| * 2 log increase in HBV DNA compared to the baseline level. | * HBV DNA is detectable | * Impaired synthetic function  1. Total bilirubin >3 mg/dL or 2. International normalized ratio >1.5 |
| * HBV DNA 3 log (1,000) IU/mL in a patient with previously undetectable level | * Reverse HBsAg seroconversion occurs (reappearance of HBsAg) | * Ascites |
| * HBV DNA ≥4 log if the baseline level is not available |  | * Hepatic Encephalopathy |
|  |  | * Death after HBVr results in liver failure |

Table S1. Definitions of HBVr based on the American Association for the Study of Liver Diseases Abbreviations: HBV: Hepatitis B; HBsAg: Hepatitis B Surface Antigen; anti-HBc: antibody to Hepatitis B core antigen; HBVr: Hepatitis B Reactivation; DNA: Deoxyribonucleic acid (23)