Resistance among Hepatitis B and HIV Co-infected Patients Starting Lamivudine, Stavudine and Nevirapine in Kenya

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Abstract:

Widespread use of lamivudine in antiretroviral therapy may lead to hepatitis B virus resistance in HIV-HBV co-infected patients from endemic settings where tenofovir is not readily available. We evaluated 389 Kenyan HIV-infected adults before and for 18 months after starting highly-active antiretroviral therapy with stavudine, lamivudine and nevirapine. Twenty-seven (6.9%) were HBsAg(+) and anti-HBs negative: 24 were HBeAg-negative, 18 had HBV DNA ≤10,000 IU/ml. Sustained HBV suppression to <100 IU/ml occurred in 89% of 19 evaluable patients. Resistance occurred in only 2 subjects, both with high baseline HBV DNA levels. Lamivudine resistance can emerge in the setting of incomplete HBV suppression but was infrequently observed among HIV-HBV co-infected patients with low baseline HBV DNA levels.