

中文題目：雞尾酒抗病毒藥物治療增加愛滋病人短期之伺機性感染風險

英文題目：Highly active antiretroviral treatment increases the short-term risk of incident opportunistic infections among People Living with HIV/AIDS

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Background: Highly active antiretroviral therapy (HAART) causes a rapid increase of CD4⁺ T cells during the first three to six months of treatment and may enhance the development of opportunistic infections (OIs). However, the short-term and long-term effects of HAART exposure on incident OIs has not been extensively studied. This nationwide population-based cohort study aimed to determine the short-term and long-term effects of HAART on incident OIs in people living with HIV/AIDS (PLWHA) in Taiwan.

Methods. From Jan. 1, 2000, we identified adult PLWHA from Taiwan CDC HIV Surveillance System. HIV-infected individuals were defined as positive HIV-1 Western blot. All PLWHA were followed until Dec. 31, 2014, and observed for occurrence of OIs. The time-dependent Cox proportional hazards model was used to determine the short-term (≤ 180 days) and long-term (> 180 days) effects of HAART on incident OIs among PLWHA, while considering death as a competing risk event.

Results. Of the 26,258 PLWHA, 6413 (24.4%) had incident OIs during a mean follow-up period of 5.09 years. After adjusting for age, sex, comorbidities, and AIDS status, PLWHA receiving HAART were more likely to develop new onset of OIs than those not receiving HAART, including tuberculosis (AHR 1.88; 95% CI 1.44-2.44), disseminated mycobacterium avium complex infection (AHR 11.7; 95% CI 5.39-25.5), cytomegalovirus infection (AHR 7.42; 95% CI 5.65-9.74), Pneumocystis jirovecii pneumonia (AHR 3.41; 95% CI 2.94-3.94), cryptococcal meningitis (AHR 5.13; 95% CI 3.26-8.09), candidiasis (AHR 2.14; 95% CI 1.86-2.46), penicillium marneffeii infection (AHR 2.97; 95% CI 1.79-4.93), and toxoplasma encephalitis (AHR 2.84; 95% CI 1.31-6.13). While short-term and long-term effects of HAART on incident OIs considered, HAART was a risk factor for OIs development in the short-term, but was a protective factor for OIs development in the long-term.

Conclusion. HAART increased the risk of OIs development in the short-term. PLWHA receiving HAART should be monitored carefully for OIs development during the early phase of treatment.

Keywords: tuberculosis, HIV, highly active antiretroviral treatment