

## Surveillance of Drug-resistance of Newly Diagnosed HIV-1 Infected Patients in Taiwan, 2010-2012

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### Abstract

Human immunodeficiency virus type-1 (HIV-1) is the pathogen causes the acquired immune deficiency syndrome (AIDS). The HIV-1 virus of drug-resistance might produce widespread transmission of primary HIV-1 virus of drug-resistance, and could discount and influence the efficiency of therapy. By monitoring the naive patients and build database, these are the important references for not only examination of drugs used in Taiwan but also a recommendation for clinicians to consider drugs. We studied the prevalence of transmitted HIV-1 drug resistance in Taiwan between 2010 and 2012, and revealed that the mutation rate of ARV drug-resistance from newly diagnosed patients with HIV-1 was 9.8%, 6.6% and 7.4%, respectively. The results of this study will improve understand of serious situation of HIV-1 drug-resistance and realize its impact. In conclusion, we will obtain more complete blueprint of epidemiology of HIV-1 drug-resistance and provide a reference for policy making by government institutions and medical units.

**Keywords :** Human Immunodeficiency Virus type-1 (HIV-1) 、 Acquired Immune Deficiency Syndrome (AIDS) 、 Drug-resistance

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