



Antiretroviral (Arv) Drug Resistance in the Developing World: Evidence Report/Technology Assessment Number 156 (Paperback)

By U S Department of Health Human Services, Agency for Healthcare Research and Quality

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The clinical management of HIV infection has greatly improved through the use of highly active antiretroviral therapy (HAART), which comprises the following classes of agents: nucleoside or nucleotide reverse transcriptase inhibitors (NRTIs), non-nucleoside reverse transcriptase inhibitors (NNRTIs), protease inhibitors (PIs), and fusion inhibitors. The clinical effectiveness of these therapies is mediated by treatment-induced reduction of HIV viral replication as demonstrated by measurements of the amount of HIV RNA in the blood (the plasma viral load). However, successful suppression of HIV replication is influenced by the intrinsic potency of the prescribed regimen, patient adherence to treatment, and pre-existing or emerging resistance to antiretroviral (ARV) agents. Resistance of HIV to ARV agents was first reported within 2 years of the approval of the NRTI zidovudine (ZDV) for the treatment of persons with late-stage HIV infection. Subsequently, transmission of a ZDV-resistant isolate was first reported in 1992. The development of ARV resistance has since been reported with all other commercially available ARV agents within all classes.⁵ Because drug resistance mutations often decrease the activity of many ARV agents within an individual class, the emergence of a...



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