SYSTEMATIC REVIEW OF NEVIRAPINE VERSUS EFAVIRENZ CONTAINING THREE DRUG REGIMENS FOR INITIAL TREATMENT OF HIV INFECTION

MD Neuwelt¹, O Bacon¹, GE Kennedy^{1,2}, GW Rutherford^{1,2}

¹University of California, San Francisco and ²Cochrane Collaborative Review Group on HIV Infection and AIDS, San Francisco, California, USA

ABSTRACT

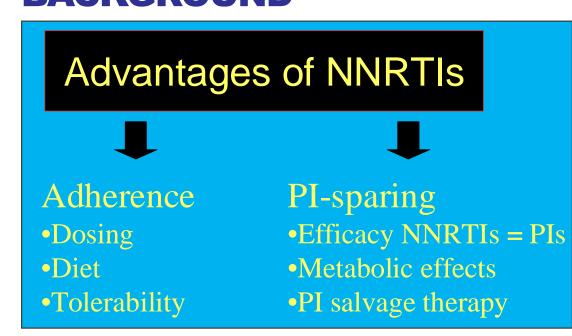
Background: Comparative trials have shown that 3-drug combination regimens containing a non-nucleoside reverse transcriptase inhibitor (NNRTI) are equivalent to or better than those containing a protease inhibitor. In this systematic review we compared the efficacy of a 3-drug initial regimen containing the NNRTI efavirenz (EFV). with one containing nevirapine (NVP) in antiretroviral-naïve patients.

Methods: We compared studies that included a 3-drug regimen comparing two nucleoside reverse transcriptase inhibitors (NRTI) plus EFV with 2 NRTIs plus NVP in separate arms. Our primary endpoint was the proportion of antiretroviral-naïve participants who achieved virologic suppression. We searched AIDSDRUGS, AIDSLINE, AIDSTRIALS, specialized Cochrane Collaboration registries, EMBASE, MEDLINE and MetaRegister of Controlled Trials for the years 1996-2001 and searched conference abstracts through March 2003. We compared efficacy using random-effects meta-analysis and computed Peto odds ratios with 95% confidence intervals.

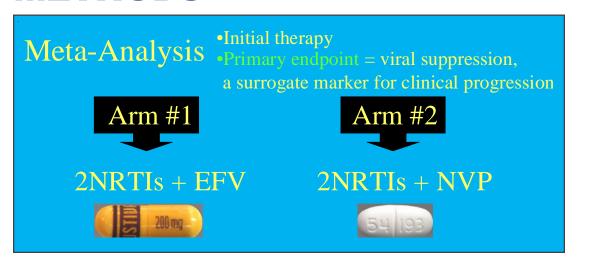
Results: We identified six completed studies with 3,205 antiretroviral-naïve participants, including two randomized controlled trials (RCT) and four cohort studies in which results were separately reported for antiretroviral-naïve subjects. EFV-containing regimens were equivalent to NVP-containing regimens at 24 and 48-52 weeks (OR=1.20, 95% CI=0.85, 1.69). The results from the RCTs (OR=1.17, 95% CI=0.90, 1.53) were similar to those from the cohort studies (OR=1.15, 95% CI=0.67, 1.97).

Conclusions: We conclude that the short-term efficacy of EFV-containing and NVP-containing regimens for treatment of antiretroviral-naïve patients is equivalent. Deciding which NNRTI to use for initial therapy should be based on differences in longer-term efficacy, adherence, toxicity, cost and availability

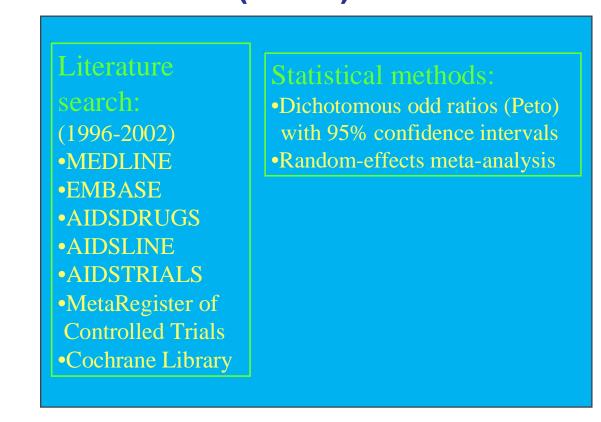
BACKGROUND



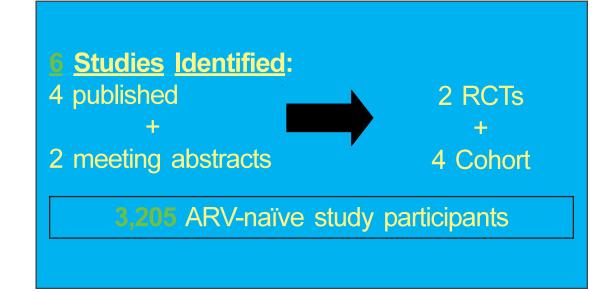
METHODS



METHODS (cont'd)



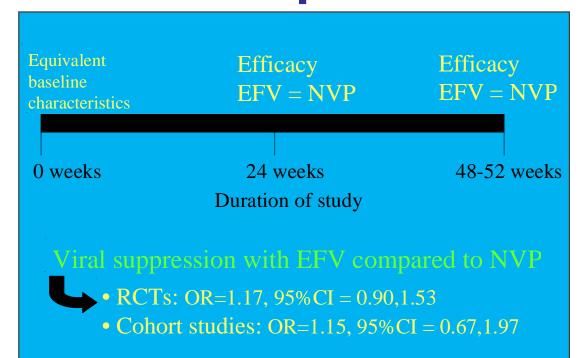
RESULTS: Studies Identified



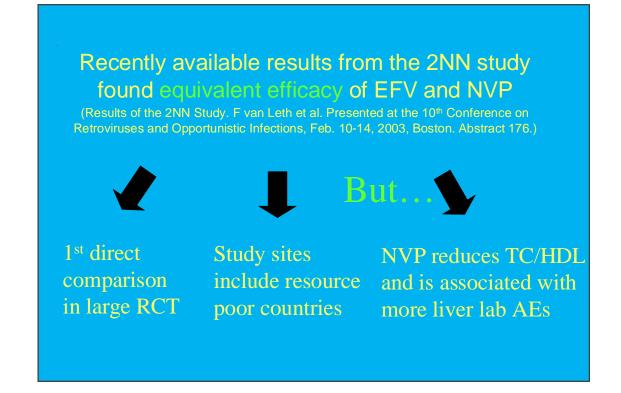




RESULTS: Study Arm Comparison



CONCLUSIONS





CONCLUSIONS (cont'd)

We conclude that the short-term efficacy of EFV-containing regimens and NVP-containing regimens for treatment of antiretroviral-naïve patients is equivalent.

Which NNRTI do you choose, EFV or NVP???

Longer-term efficacy Future RCT

Adherence Future studies

Toxicity NVP more liver, EFV more CNS

Availability/Cost Local considerations

SUMMARY

