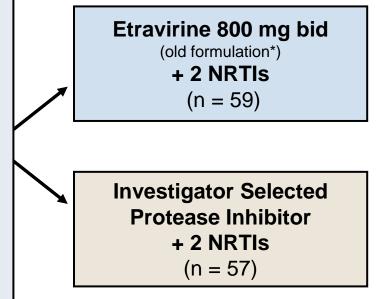
Etravirine versus Protease Inhibitor in ARV-Experienced **TMC 125-C227**



Etravirine *versus* Protease Inhibitor in ARV-Experienced TMC125-C227: Study Design

Study Design: TMC125-C227

- Background: Randomized, controlled, open-label phase 2 trial evaluating the safety and efficacy of etravirine (formerly TMC125) in PI-naïve patients with NNRTI resistance
- Inclusion Criteria (n = 116)
 - Age >18 years
 - HIV RNA >1,000 copies/mL
 - Documented genotypic NNRTI resistance
 - Pl naïve
- Treatment Arms
 - Etravirine 800 mg bid + 2NRTIs
 - Investigator-selected PI + 2NRTIs

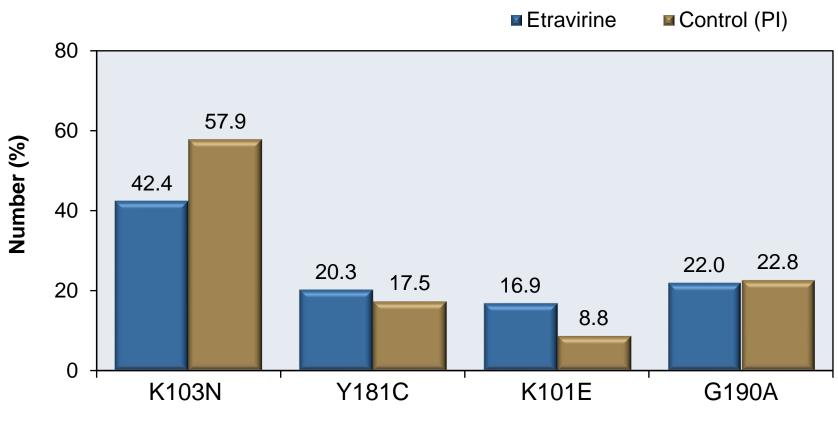


*Note: Old formulation of 800 mg bid equivalent to FDA-approved etravirine dose of 200 mg bid. Initial study planned for 48 weeks, but enrollment stopped prematurely and etravirine treatment discontinued after median 14.3 weeks due to suboptimal virologic response.



Etravirine *versus* Protease Inhibitor in ARV-Experienced TMC125-C227: Study Design

Prevalence of Baseline NNRTI Resistance Mutations

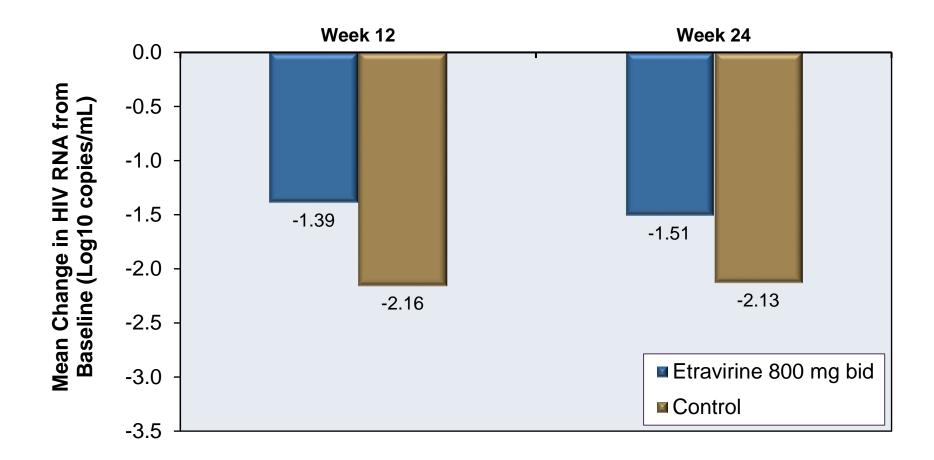


Baseline NNRTI Resistance Associated Mutations



Etravirine in Patients with Highly Resistant HIV TMC125-C223: Results

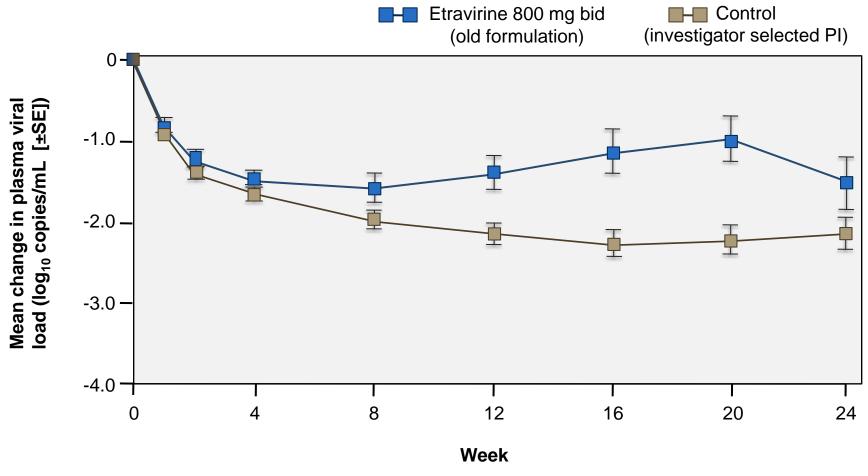
Weeks 12 and 24: Change in HIV RNA





Etravirine *versus* Protease Inhibitor in ARV-Experienced TMC125-C227: Results

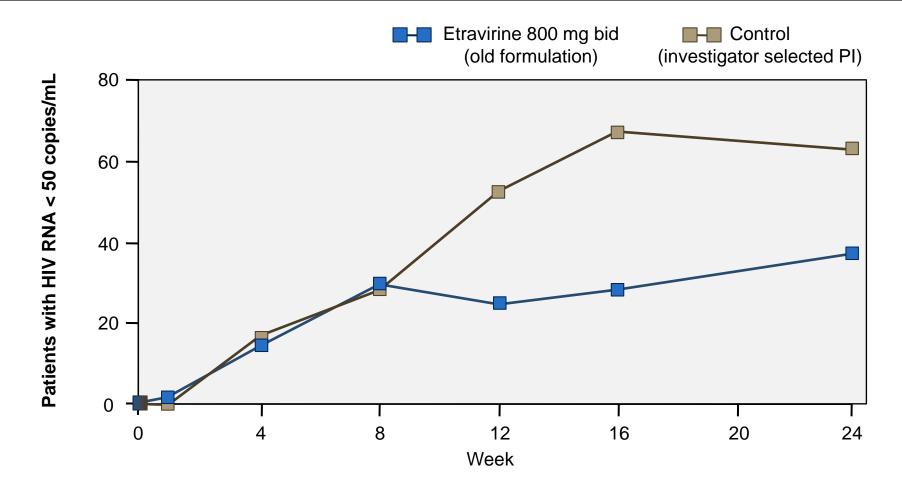
Week 24: Mean Change of HIV RNA From Baseline (observed data)





Etravirine *versus* Protease Inhibitor in ARV-Experienced TMC125-C227: Results

Week 24: Proportion of Patients with HIV RNA Less than 50 copies/mL





Etravirine *versus* Protease Inhibitor in ARV-Experienced TMC125-C227: Conclusions

Conclusions: "In a PI-naive population, with baseline NRTI and NNRTI resistance and NRTI recycling, TMC125 (etravirine) was not as effective as first use of a PI. Therefore the use of TMC125 (etravirine) plus NRTIs alone may not be optimal in PI naive patients with first-line virological failure on an NNRTI-based regimen. Baseline two-class resistance, rather than pharmacokinetics or other factors, was the most likely reason for suboptimal responses."



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