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Long-term safety profile of etravirine in treatment-experienced, HIV-I-infected patients: pooled 96-week results from the Phase III DUET trials

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Abstract

Background

Etravirine (ETR; TMC125) is a next-generation NNRTI with superior efficacy versus placebo in treatment-experienced, HIV-I-infected patients in the DUET-I and DUET-2 trials. Previous analyses of 48-week data from DUET showed that, except for rash, the incidence/severity of adverse events (AEs) with ETR were similar to placebo. We report the safety profile of ETR at 96 weeks.

Methods

Patients with documented NNRTI resistance and ≥ 3 primary protease inhibitor (PI) mutations were randomised to ETR 200mg or placebo bid with a background regimen (BR) of darunavir (DRV) with low-dose ritonavir (DRV/r), investigator-selected NRTI(s) \pm enfuvirtide (ENF). Safety data from DUET-I and DUET-2 were pooled and the frequency, severity and type of AEs were compared between arms by Fisher's exact test.

Results

One thousand, two hundred and three patients were randomised to ETR or placebo (599 and 604, respectively). Overall median age was 45 years; 10.7% were female. Median duration of treatment was 96 vs 70 weeks. The most common reasons for treatment discontinuation were virological endpoints (16% vs 40%) and AEs (9% vs 7%). Serious AEs occurred in 26% of both arms, death in 3% vs 4%.

Clinical and laboratory AEs

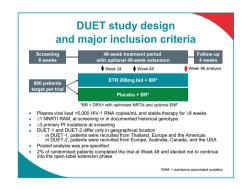
Parameter	ETR + BR (n=599)	Placebo + BR (n=604)
Rash, any, %	21*	12
Grade 3	1	0
Grade 4	0	0
Median time to rash onset, days (range)	15 (1-666)	64 (1-660)
Median duration of rash, days (range)	15 (1-672)	26 (1-687)
Discontinuation due to rash, %	2	0
Rash by gender, %		
Males (n=539 vs 535, ETR vs placebo)	19	12
Females (n=60 vs 69, ETR vs placebo)	32**	12
Rash by previous history of NNRTI-related rash, %		
With previous history (n=46 vs 82, ETR vs placebo)	22	15
Without previous history (n=553 vs 522, ETR vs placebo) 20	- 11
Any nervous system event of interest, %	19***	21
Any psychiatric event, %	20****	21
Any hepatic event, %	9****	7
Treatment-emergent laboratory abnormalities, %		
Grade 3	42	40
Grade 4	11	11

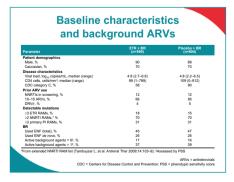
*p<0.0001 vs placebo; **p=0.0290 vs males; ***p=0.3140 vs placebo; ****p=0.7204 vs placebo; *****p=0.3370 vs placebo (all p-values from Fisher's exact test)

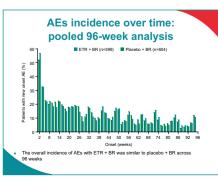
Rash in the ETR + BR group was mild-to-moderate, occurred early with 2 weeks median duration and led to discontinuation in 2.2% of patients. The occurrence of nervous system, psychiatric and hepatic AEs was low in both arms. Grade 3/4 treatment-emergent laboratory abnormalities were similar between groups.

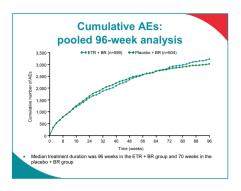
Conclusions

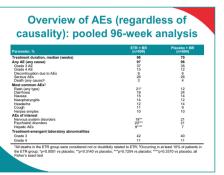
ETR was well tolerated in treatment-experienced, HIV-I-infected adults over 96 weeks and continues to demonstrate a tolerability profile similar to placebo. Rash, which was mostly mild-to-moderate and occurred early, was the only AE associated with ETR treatment.

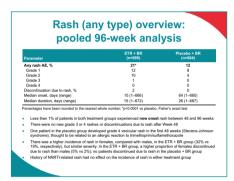


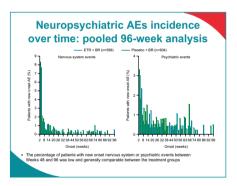


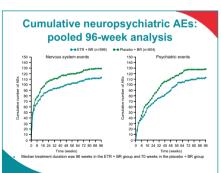


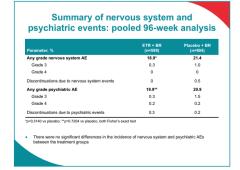


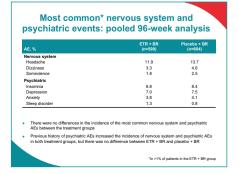


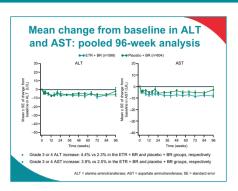


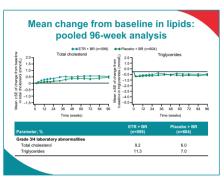


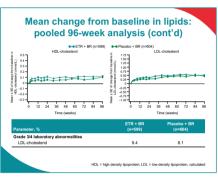












Conclusions

- No new safety signals were identified between 48 and 96 weeks in either treatment group
- Less than 1% of patients in both treatment groups experienced new onset of rash between 48 and 96 weeks
- Discontinuation due to rash between 48 and 96 weeks remained low
- The incidence of nervous system, psychiatric and hepatic AEs was low and comparable between the ETR + BR and placebo
 + BR groups
 - the proportion of patients experiencing these AEs did not increase between 48 and 96 weeks
- Apart from rash, ETR + BR continues to demonstrate a safety and tolerability profile generally similar to placebo + BR in treatment-experienced, HIV-I-infected patients

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DUET-2

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