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Safety and tolerability of etravirine in hepatitis B and/or C co-infected patients in DUET-1 and DUET-2: pooled 48-week results

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Abstract

The 48-week efficacy and safety analysis of the next-generation NNRTI etravirine (ETR; TMC125) in the DUET studies has recently been completed. We report safety results from a planned pooled analysis, according to baseline hepatitis co-infection status.

HIV-1-infected patients on stable, but virologically failing therapy were randomised to receive either ETR 200mg bid or placebo, both in combination with a background regimen (BR) consisting of darunavir with low-dose ritonavir (DRV/r), investigatorselected NRTIs and optional enfuvirtide (ENF). Hepatitis B and/or C virus (HBV and/or HCV) co-infection status was confirmed by hepatitis B surface antigen or HCV antibody and qualitative HCV RNA. Co-infected patients were eligible if they were clinically stable, with aspartate aminotransferase (AST) and alanine aminotransferase (ALT) levels <5 x the upper limit of normal and did not require antihepatitis treatment. Adverse events (AEs) and laboratory parameters were analysed.

At baseline, HBV and/or HCV status was known for 1,130 HIV-1-infected patients. Of these, 140 patients (12.3%) were co-infected with HBV and/or HCV; the sample size was too small to compare HBV and HCV groups separately. Median treatment duration for this analysis was 52.3 vs 51.0 weeks in the ETR + BR and placebo + BR groups, respectively. In co-infected patients, grade 3 or 4 AEs, serious AEs and deaths were less frequent with ETR than with placebo. Grade 3 or 4 AST/ALT elevations were more frequent in co-infected patients receiving ETR, however the differences between the ETR and placebo groups was small. The incidence of grade 3 or 4 hepatic AEs was similar in both treatment groups.

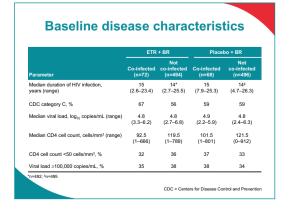
	HIV and HBV and/or HCV co-infected patients		Not co-infected patients	
	ETR + BR (n=72)	Placebo + BR (n=68)	ETR + BR (n=494)	Placebo + BR (n=496)
Any AEs	95.8	97.0	95.7	95.8
Grade 3 or 4 AEs	31.9	44.1	32.8	33.5
Discontinuation due to AEs	8.3	8.8	6.7	5.0
Serious AEs	26.4	33.8	18.2	21.8
Deaths	2.8	4.4	1.4	2.8
Hepatic AEs*	12.5	8.8	5.5	6.0
Grade 3 or 4 hepatic AEs	6.9	7.3	2.4	2.4
Discontinuation due to hepatic AE	1.4	2.9	0.8	0.4
Selected treatment-emergent g	rade 3 or 4	laboratory para	meters	
ALT	11.1	7.3	2.4	1.4
AST	9.7	5.8	2.2	1.4

HBV and/or HCV status was not recorded in 40 placebo- and 33 ETR-treated patients.

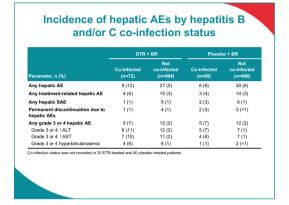
In general, the incidence and severity of AEs with ETR was similar to placebo, irrespective of co-infection status. The incidence of hepatic AEs and grade 3 or 4 AST/ALT elevations was higher in co-infected patients than in not co-infected patients in both treatment groups, consistent with the underlying chronic hepatitis condition. ETR did not increase hepatic toxicity in patients with hepatitis co-infection and was generally well tolerated in all patients.

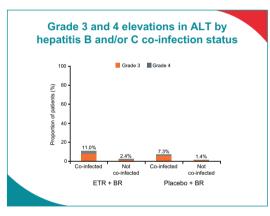
DUET study design and major inclusion criteria 48-week treatment period Follow-up with optional 48-week extension 4 weeks Plasma viral load >5,000 copies/mL and stable therapy for ≥8 weeks ≥1 NNRTI RAM, at screening or in documented historical genotype ≥3 primary PI mutations at screening 23 primary PI mutations at screening Hepatitis B and/or C co-infected patients were eligible for inclusion if they were clinically stable, with AST and AL Tievels 45 x the upper limit of normal, and did not require any anthepatitis treatment. Patient with acute viral hepatitis were excluded DUET-1 and DUET-2 differ only in geographical location

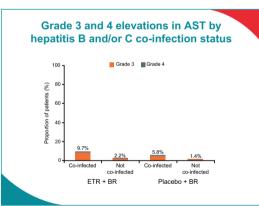
Baseline demographics (n=442) (n=443) and/or C co-infection status: 9 13% EIR TERVELE PROPERTY AND A positive HCV RNA results; foefined as having a positive attitis B antibody test and/or a known active HCV Infection; Sample size was too small to compare HBV and HCV groups separately

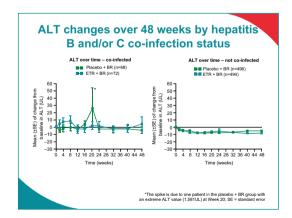


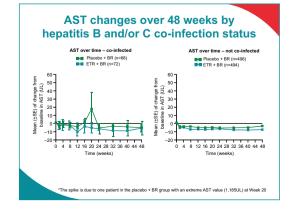
Overview of AEs (regardless of causality) by hepatitis B and/or C co-infection status Any AE (any cause) Grade 3 or 4 AE 475 (96) 166 (33) Serious AE (SAE) 108 (22) AEs of interest Hepatic AEs Rash (any type) Neuropsychiatric AEs



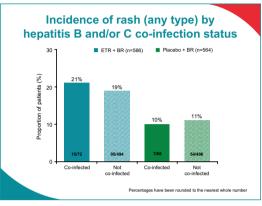


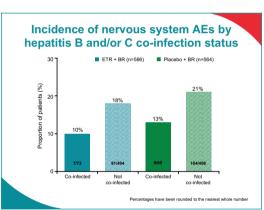


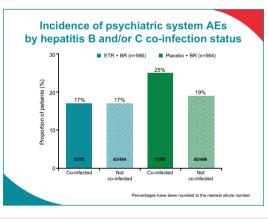




Hepatobiliary AEs by hepatitis B and/or C co-infection status







Conclusions

- In general, the incidence and severity of AEs with ETR + BR was similar to placebo
- + BR, irrespective of hepatitis co-infection status 96% of not co-infected patients reported any AE in both treatment groups
- 96% of co-infected patients reported any AE in the ETR group vs 97% in the
- In co-infected patients, grade 3 or 4 AEs and SAEs were less frequent with ETR + BR than with placebo + BR and discontinuations were low
- While hepatic AEs and elevated ALT/AST were most frequent in co-infected patients in the ETR group, the difference between ETR and placebo groups was small
- The incidence of rash, although higher in ETR- than placebo-treated patients, occurred with a similar incidence in co-infected and not co-infected patients in each treatment group
- The incidence of nervous and psychiatric system AEs was lower in patients receiving ETR + BR than those receiving placebo + BR, irrespective of co-infection status

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