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# **Reduction in AIDS-defining events/death with etravirine compared to placebo:** pooled DUET 48-week results

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## Abstract

#### Background

The clinical benefit of newer regimens for treatment-experienced patients is unknown.

### Methods

AIDS-defining events (ADEs) were adjudicated by an independent panel (confirmed or probable) from two placebo-controlled studies of etravirine (ETR; TMC125) administered with a background regimen (BR) of darunavir (DRV) + NRTI(s) and optional enfuvirtide (ENF). Prespecified analyses were done using all patients and stratified by de-novo or not de-novo (including recycled ENF or not used) ENF use.

#### Results

One thousand, two hundred and three patients had a baseline median CD4 cell count of 105, log<sub>10</sub> HIV RNA of 4.8 and 59% had a Centers for Disease Control and Prevention (CDC) C classification. Overall, 59 (9.8%) of placebo and 35 (5.8%) of ETR patients had an ADE/death (ADE/D) (p=0.0408). Twenty-two ADE/D occurred in the first 30 days (16 in the placebo group). Time to ADE/D was significantly shorter for placebo than ETR (see figure). The most common ADEs were candida esophagitis (10), pneumocystis jiroveci pneumonia (9), herpes simplex virus (HSV) (8), mycobacterium avium complex (MAC) (7), cytomegalovirus (CMV) retinitis (6) and kaposi's sarcoma (KS) (6). During the treatment period, death was the first event in seven of 20 placebo and eight of 12 ETR patients.

In the sub-group on de-novo ENF (n=312), events were similar. However, in those not on de-novo ENF (n=891), placebo had more events than ETR (10.1% vs 5.4%; p=0.0086).



### Conclusions

In addition to virologic and immunologic benefits, use of ETR was associated with a significant longer time to ADE/D compared to placebo in treatment-experienced patients.



Parameter, % or median (range)	ETR + BR (n=599)	Placebo + BR (n=604)	
reatment duration at time of analysis (weeks)	52.3 (1.6-85)	51.0 (3.4-80)	
ratient demographics Male	90	89	
Caucasian	70	70	
Age (years)	46 (18–77)	45 (18–72)	
Viral load (log <sub>10</sub> copies/mL)	4.8 (2.7-6.8)	4.8 (2.2-6.5)	
Viral load ≥100,000 copies/mL	38	36	
CD4 cells <50 cells/mm <sup>3</sup>	36	35	
aseline CDC category			
CDC category A CDC category B	21 21	21 19	
CDC category C	58	59	
ADEs were reviewed, certified and validate adjudication panel blinded to treatment allo – events adjudicated as confirmed or pro considered as ADEs – events adjudicated as not category C ( pot complement and DEs	ed by an independer ocation obable category C ev events or not enough	nt expert vents were n information were	
Primary analysis: all confirmed or probable	ADEs or deaths		
At the time of this analysis, all patients wer discontinued	re treated for ≥48 we	eeks or had	
Statistical analyses were performed on the to ENF use (re-use/no use [not de novo], c	overall ITT population use for the first time	ion and according ne [de novo])	
AFT 11 40000 1 1 1 7 77 7	ystem for HIV issued by the l	US CDC; ITT = intent-to-treat ngl J Med 2006;355:2283–96	
*From the 1993 revised classification s *Emery S, et al. Control Clin Trials 2002;23:198–220;	<sup>2</sup> SMART Study Group. N Er		
*Ernery S. et al. Control Clin Trais 2002/23/196-220 Pooled 48-week I efficacy and saf	DUET ana fety over	alysis: view	
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tolerability profile when compared to placebo<sup>1,2</sup> rash was mild-to-moderate, occurred within the first few weeks of treatment, resolved with continued use and infrequently led to discontinuation

1Trottier B. et al. CAHR 2008. Poster P167: 2Cheret A. ISHEID 2008. Oral presentation





#### **Description of deaths**

- related to treatmen
- possibly related to treatment (acute renal failure)
- 1% [n=6]; placebo + BR, 2% [n=12])









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4 (0.7)

5 (0.8)

5 (0.8)

4 (0 7)

4 (0.7)

2 (0.3)

1 (0.2)

2 (1.3) 1 (0.6) 0

\*In ≥6 patients in the pooled overall ETR + BR and placebo + BR group

0 0

4 (0.9) 2 (0.4) 1 (0.2) 1 (0.2)

2 (0.4) 4 (0.9)

5 (1.1)

4 (0.9)

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