

Rukobia and Immunologic Recovery in the BRIGHT E Study

Summary

- BRIGHT E is an ongoing, phase 3 study evaluating *Rukobia* (fostemsavir [FTR]) in heavily treatment-experienced (HTE) adults with multi-drug resistant HIV-1¹
 - To view the full MI letter and an overview of the BRIGHT E study, click [here](#).
- Change from baseline in CD4+ T-cell count through Week 240 in the randomized cohort is a secondary endpoint of the BRIGHT E study.²
 - CD4+ T-cell counts increased steadily over time, reaching a mean increase of 296 cells/mm³ at Week 240 in the randomized cohort.³
 - Patients with a baseline CD4+ T-cell count < 20 cells/mm³ experienced the greatest numerical increase through Week 240.³
- Important safety information is found in the attached Prescribing Information.

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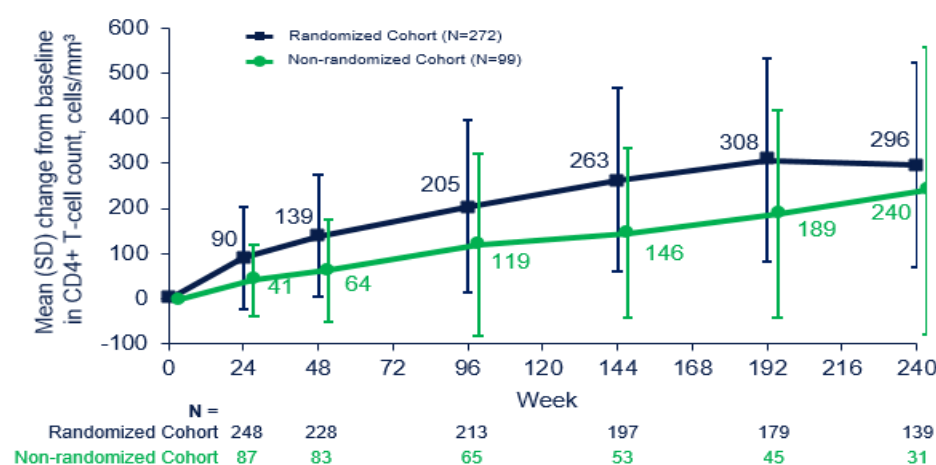
CHANGE IN CD4+ T-CELL COUNT AT DAY 8 (RANDOMIZED COHORT)

Increases in CD4+ T-cell count at Day 8 in the FTR and placebo groups over the blinded period were similar, with mean increases of 18.4 cells/mm³ and 19.0 cells/mm³, respectively.²

CHANGE IN CD4+ T-CELL COUNT OVER TIME

CD4+ T-cell counts increased steadily over time, reaching a mean increase of 296 cells/mm³ at Week 240 in the randomized cohort.³

Figure 1. CD4+ T-Cell Response through Week 240³



IMMUNOLOGIC RESPONSE BY SUBGROUP

In general, comparable immunologic improvements occurred across subgroups analyzed.² Patients within the randomized cohort who were most immunocompromised at baseline (CD4+ T-cell count < 20 cells/mm³) experienced the greatest numerical increases in CD4+ cell count through Week 240.

Figure 2. Change in CD4+ T-Cell Count From Baseline to Week 240 by Virologic Response at the Same Time Point (Randomized Cohort, Observed Analysis)³

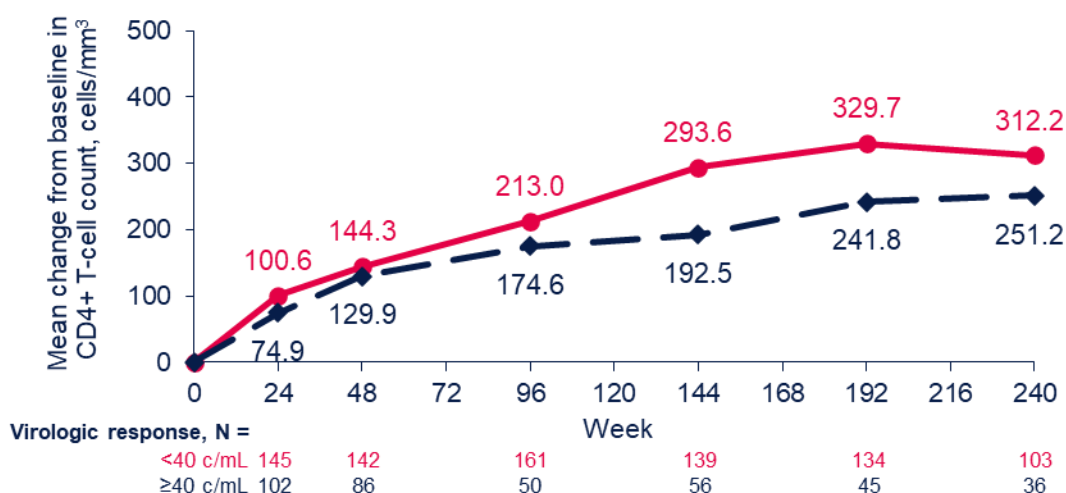
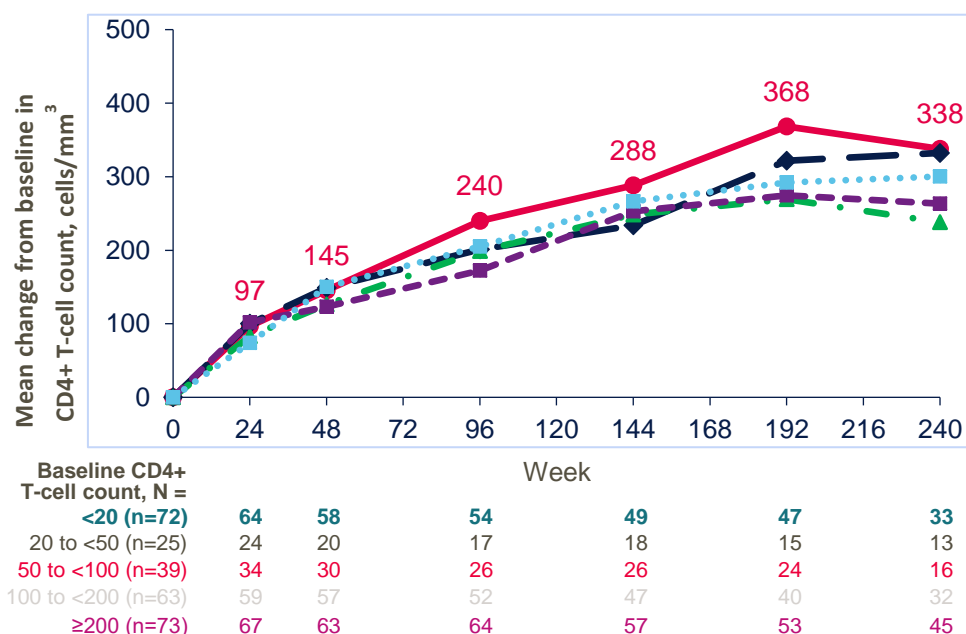


Figure 3. Change in CD4+ T-Cell Count Through Week 240 By Baseline CD4+ Category (Randomized Cohort)³



The overall proportion of patients with a CD4+ T-cell count ≥ 200 cells/mm³ at Week 96 was 76% and 48% in the randomized and non-randomized cohorts, respectively.² In the Randomized Cohort between baseline and Week 240, 73/94 (78%) participants had a change in CD4+ T-cell count from <200 to ≥ 200 cells/mm³, and 22/33 (67%) had a change from <20 to ≥ 200 cells/mm³.³

In both cohorts, patients with HIV-1 RNA < 400 copies/mL experienced immune recovery similar to patients with HIV-1 RNA < 40 copies/mL (see Table 1).² Of patients in the randomized cohort with HIV-1 RNA ≥ 40 copies/mL or ≥ 400 copies/mL, the mean increase in CD4+ T-cell count was 74.9 cells/mm³ and 50.3 cells/mm³, respectively, at Week 24 and 172.1 cells/mm³ and 130.2 cells/mm³, respectively, at Week 96.

Table 1. CD4+ T-Cell Count Change from Baseline Over Time by Snapshot Outcome - ITT-E²

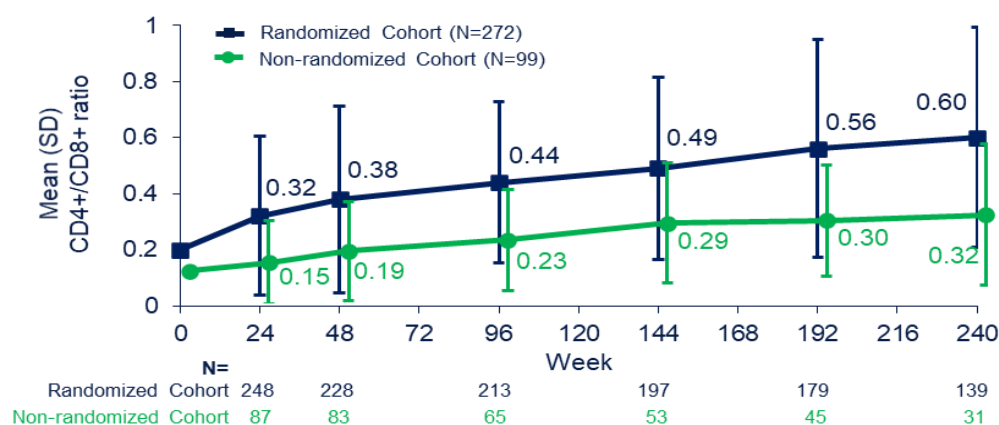
Timepoint/Outcome	Randomized Cohort				Non-Randomized Cohort			
	N	n	Mean (SD)	Median (Q1, Q3)	N	n	Mean (SD)	Median (Q1, Q3)
Week 24								
HIV-1 RNA <40 c/mL	144	144	101.0 (112.53)	80.5 (40.0 150.0)	37	35	62.5 (93.59)	38.0 (18.0 96.0)
HIV-1 RNA <200 c/mL	186	186	95.9 (118.27)	82.5 (36.0 144.0)	42	40	71.2 (91.88)	43.5 (22.5 115.5)
HIV-1 RNA <400 c/mL	203	203	98.6 (118.24)	85.0 (35.0 154.0)	44	42	73.8 (90.73)	48.5 (24.0 122.0)
Week 48								
HIV-1 RNA <40 c/mL	146	142	144.3 (133.17)	133.0 (67.0 213.0)	38	38	116.2 (124.85)	103.0 (31.0 176.0)
HIV-1 RNA <200 c/mL	187	183	150.1 (141.15)	141.0 (67.0 219.0)	43	43	116.4 (118.95)	110.0 (31.0 176.0)
HIV-1 RNA <400 c/mL	190	186	150.9 (140.75)	141.0 (68.0 219.0)	44	44	113.5 (119.22)	106.5 (30.5 175.5)
Week 96								
HIV-1 RNA <40 c/mL	163	160	214.1 (192.17)	190.5 (107.5 294.5)	37	36	200.5 (230.44)	147.5 (73.5 220.5)
HIV-1 RNA <200 c/mL	174	171	217.9 (196.04)	189.0 (109.0 300.0)	39	38	194.9 (225.87)	147.5 (72.0 219.0)
HIV-1 RNA <400 c/mL	175	172	220.7 (198.84)	190.5 (110.0 303.0)	40	39	189.7 (225.25)	144.0 (69.0 219.0)

c/mL = copies/mL; ITT-E = intent-to-treat exposed; SD = standard deviation.

CHANGE IN CD4+/CD8+ T-CELL COUNT RATIO OVER TIME

Both cohorts had extremely low CD4+/CD8+ mean ratios at the start of the BRIGHT-E study, with lower values in the non-randomized cohort.² Ratios increased over time in both cohorts. Among randomized patients, there was a steady increase in mean ratio at Week 240 (from 0.2 to 0.6).³

Figure 4. CD4+/CD8+ Ratio Through Week 240 (Observed Analysis)³



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In order for ViiV Healthcare to monitor the safety of our products, we encourage healthcare

professionals to report adverse events or suspected overdoses to the company at 877-844-8872. Please consult the attached Prescribing Information.

This response was developed according to the principles of evidence-based medicine and, therefore, references may not be all-inclusive.



REFERENCES

1. Kozal M, Aberg J, Pialoux G, et al. Fostemsavir in Adults with Multidrug-Resistant HIV-1 Infection. *New England Journal of Medicine*. 2020;382(13):1232-1243. doi:<http://dx.doi.org/10.1056/NEJMoa1902493>.
2. Data on File. Study 205888 (NCT02362503). ViiV Healthcare Study Register. Study entry at: <https://www.viiv-studyregister.com/en/study/?id=205888>.
3. Aberg J, et al. Efficacy and Safety of Fostemsavir Plus Optimized Background Therapy in Heavily Treatment-Experienced Adults With HIV-1: Week 240 Results of the Phase 3 BRIGHT Study. Presented at AIDS 2022, July 29-August 2, 2022, Montreal, Canada, and virtually. E-poster. EPB160.