

Bictegravir/emtricitabine/tenofovir alafenamide (B/F/TAF) for the treatment of people living with HIV: 12-month effectiveness, persistence, and safety in a multi-country cohort study

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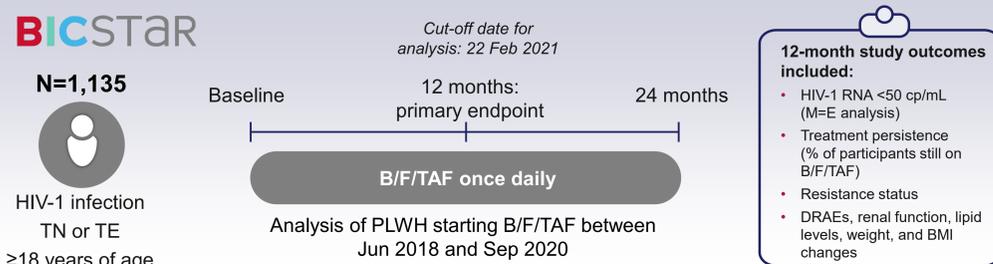
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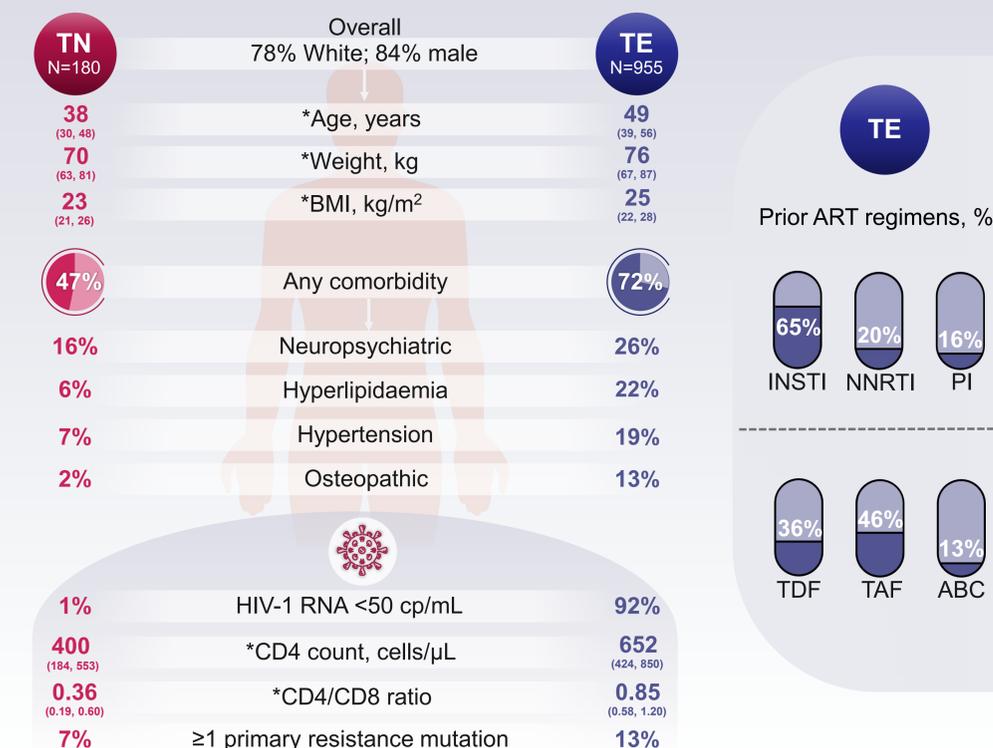
Introduction

- B/F/TAF is a guidelines-recommended single-tablet regimen for the treatment of HIV-1 infection and is widely used in clinical practice
- BICSTAR is a large, ongoing, multi-country, prospective, observational study that plans to enroll over 2,000 ARV treatment-naïve (TN) and treatment-experienced (TE) people living with HIV (PLWH) across Europe, Canada, Israel, Japan, Taiwan, South Korea, and Singapore
- Here we report pooled 12-month effectiveness and safety data for 1,135 PLWH receiving B/F/TAF in routine clinical care across Europe (France, Germany, Ireland, Italy, Netherlands, Spain, UK), Canada, and Israel

Study design



Participants: baseline characteristics

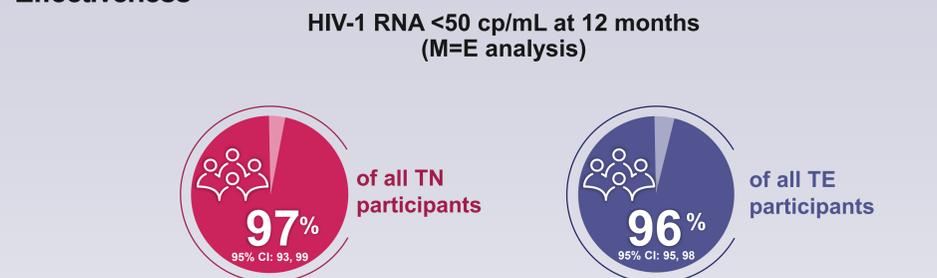


Conclusions

- B/F/TAF demonstrated effectiveness and persistence at 12 months in a large, real-world cohort of PLWH
 - Results were consistent across key populations (females, older individuals, and individuals presenting late for HIV care)
 - No emergence of resistance to the components of B/F/TAF
 - No new or unexpected safety findings
- These real-world data continue to support the use of B/F/TAF in clinical practice

Results

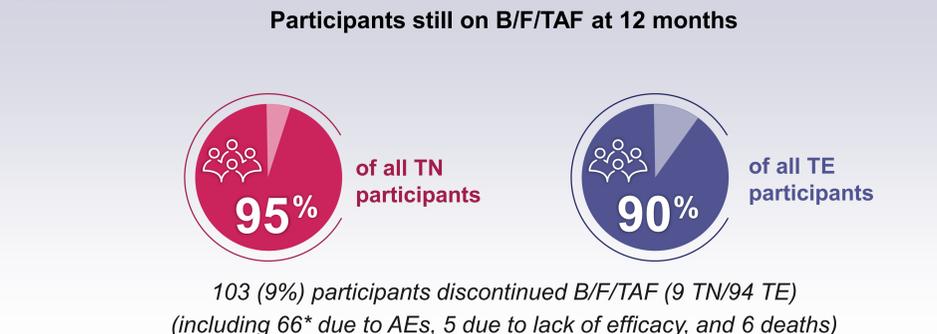
Effectiveness



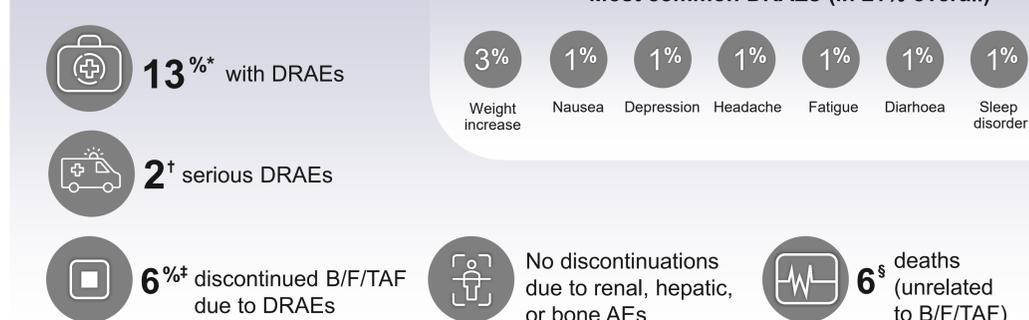
Subgroups: HIV-1 RNA <50 cp/mL at 12 months



Persistence



Safety



*TN: 12% (21/180), TE: 13% (127/955); [†]Both in the TE group (depression); [‡]TN: 4% (7/180), TE: 6% (55/955); [§]All in the TE group; causes: sudden death, sepsis, brain metastasis, lung cancer, heart failure, and unknown

Weight, lipid levels, and eGFR



[†]Population with weight and BMI data available at both baseline and 12 months; [‡]Calculated as changes from baseline to 12 months for each individual participant; [§]p-values calculated using the Sign test for the absolute change from baseline within TN or TE groups; [§]eGFR was calculated using the Cockcroft-Gault formula.

Abbreviations
ABC, abacavir; AE, adverse event; ARV, antiretroviral; ART, antiretroviral treatment; B/F/TAF, bictegravir/emtricitabine/tenofovir alafenamide; BMI, body mass index; CD, cluster of differentiation; CI, confidence interval; cp, copies; DRAE, drug-related adverse event; eGFR, estimated glomerular filtration rate; HDL, high-density lipoprotein; INSTI, integrase strand transfer inhibitor; LDL, low-density lipoprotein; LP-AD, late presenters with advanced disease; M=E, missing-excluded; NNRTI, non-nucleoside reverse transcriptase inhibitor; NS, not significant; PI, protease inhibitor; PLWH, people living with HIV; Q, quartile; TC, total cholesterol; TDF, tenofovir disoproxil fumarate; TE, treatment-experienced; TN, treatment-naïve

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