Long-term Follow-up After a Switch to Bictegravir, Emtricitabine, and Tenofovir Alafenamide From Dolutegravir, Abacavir, and Lamivudine



Indira Brar,¹ Peter Ruane,² Douglas Ward,³ Jean-Michel Molina,⁴ Anthony Mills,⁵ Mezgebe Berhe,⁶ Cynthia Brinson,⁵ Meti Ramgopal,⁶ Paul Benson,⁶ Keith Henry,¹⁰ Hailin Huang,¹¹ Kristen Andreatta,¹¹ Hal Martin¹¹ Los Angeles, CA: 3Dupont Circle Physicians Group, Washington, DC; 4Hôpital Saint-Louis, Paris, France; 5Southern California Men's Medical Center, Berkeley, MI; 10Hennepin Healthcare, Minneapolis, MN; 11Gilead Sciences, Inc., Foster City, CA Sciences, Inc

Gilead Sciences, Inc 333 Lakeside Drive Foster City, CA 94404 800-445-3235

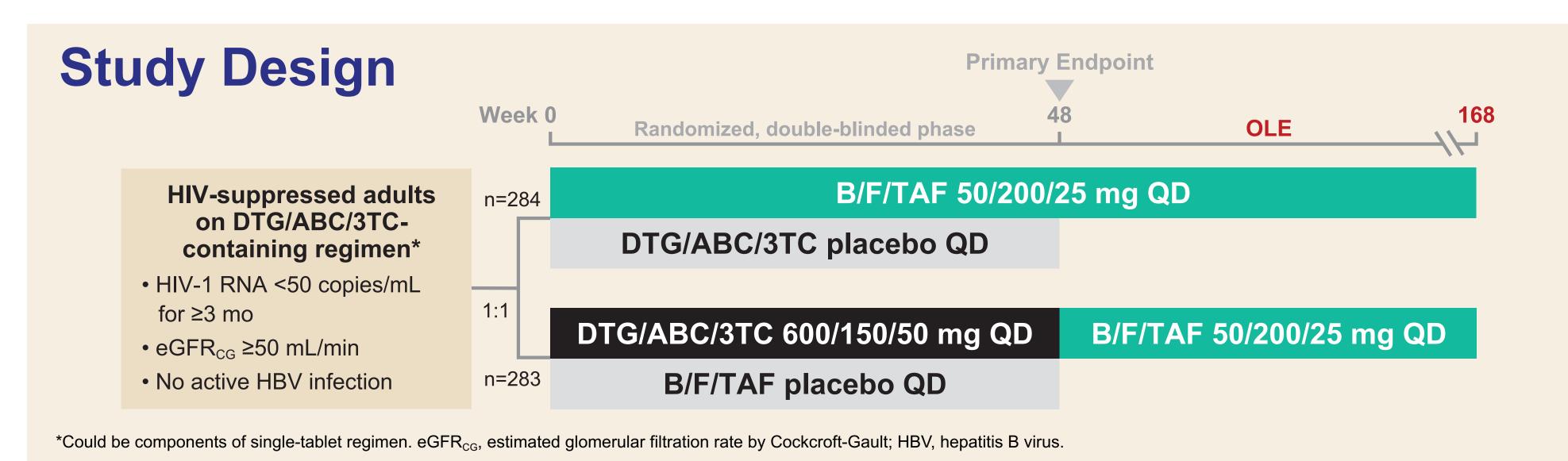
Introduction

- Modern antiretrovirals provide high HIV suppression rates; safety and tolerability often drive regimen choice
- ◆ The single-tablet regimen bictegravir (BIC; B), emtricitabine (FTC; F), and tenofovir alafenamide (TAF; B/F/TAF) is a US DHHS, EACS, and IAS-USA guidelines-recommended regimen, 1-3 with demonstrated safety and efficacy, and a high barrier to resistance
- Previously reported primary results from the present Phase 3 study (GS-US-380-1844; NCT02603120) demonstrated that switching to B/F/TAF was noninferior to continuing dolutegravir (DTG), abacavir (ABC), and lamivudine (3TC) in virologically suppressed adults at Week 484
- Both treatments were well tolerated
- No treatment-emergent viral resistance to B/F/TAF was observed

Objectives

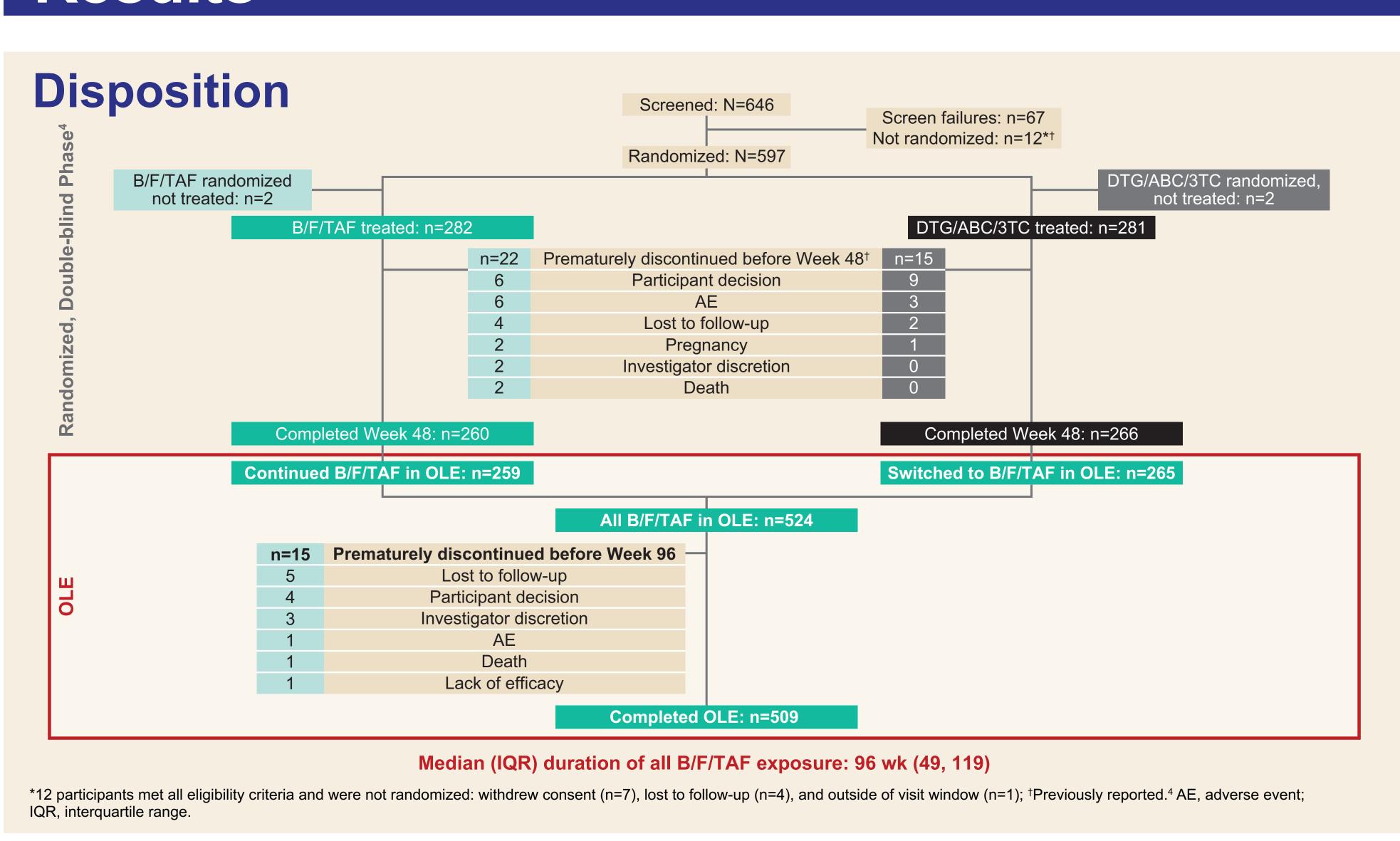
◆ To assess efficacy and safety data through Week 168 for study GS-US-380-1844 participants who enrolled in the open-label extension (OLE)

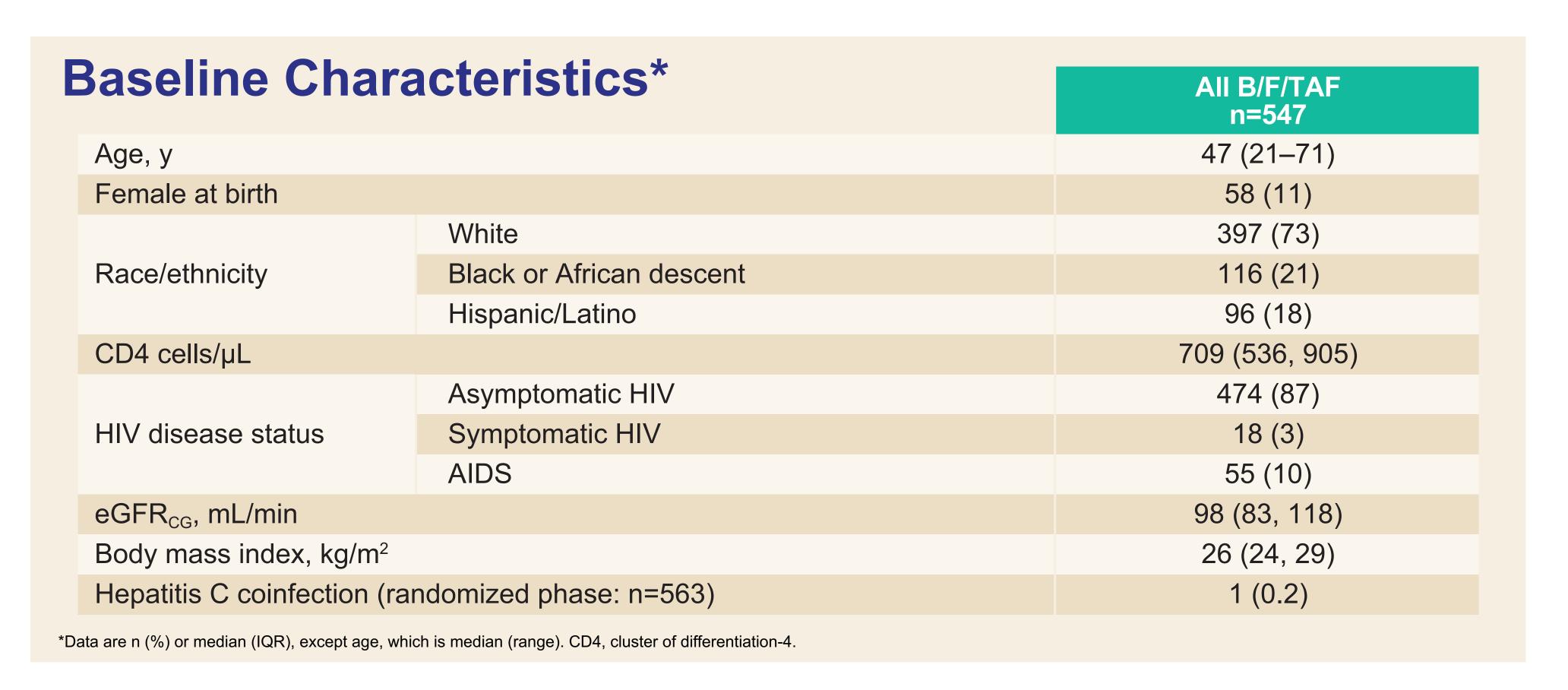
Methods

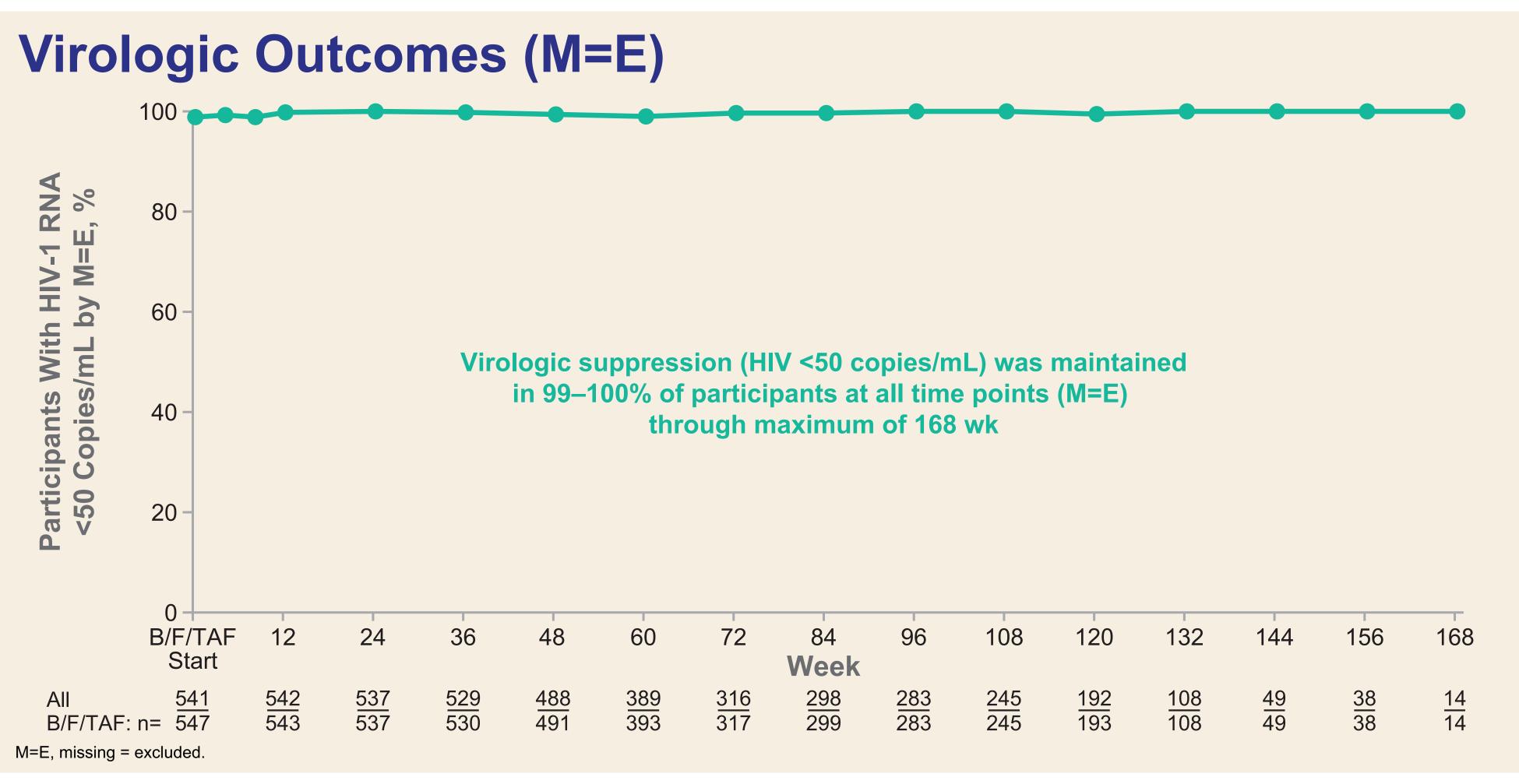


- ♦ Phase 3, randomized, double-blind, multicenter, active-controlled study
- Australia, Europe, and North America
- Primary endpoint: proportion with HIV-1 RNA ≥50 copies/mL at Week 48
- OLE objectives: to evaluate efficacy and safety after additional exposure to B/F/TAF
- All B/F/TAF group included all participants with ≥1 dose of B/F/TAF; baseline for DTG/ABC/3TC to B/F/TAF group was measured from start of B/F/TAF in OLE

Results

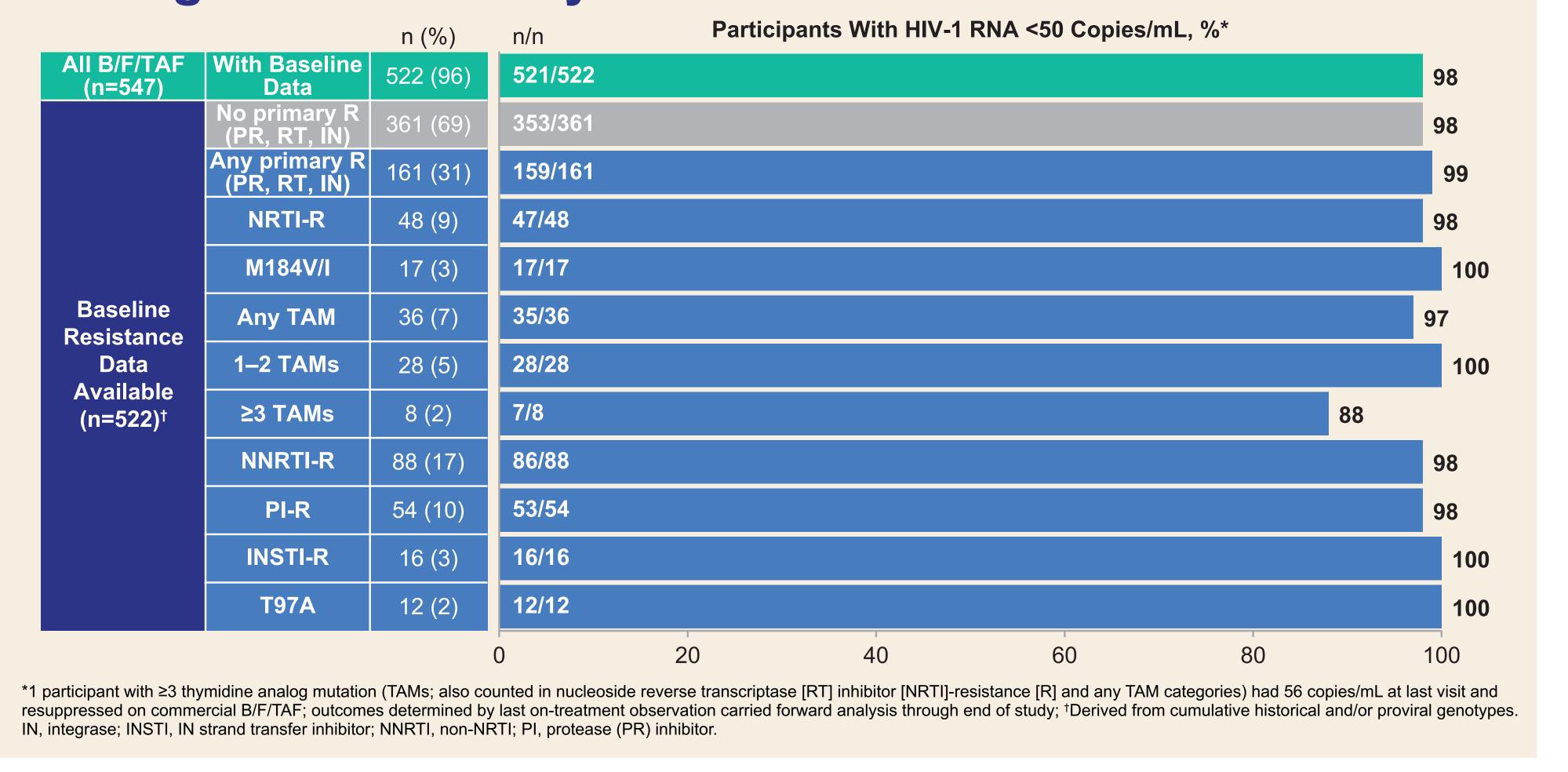




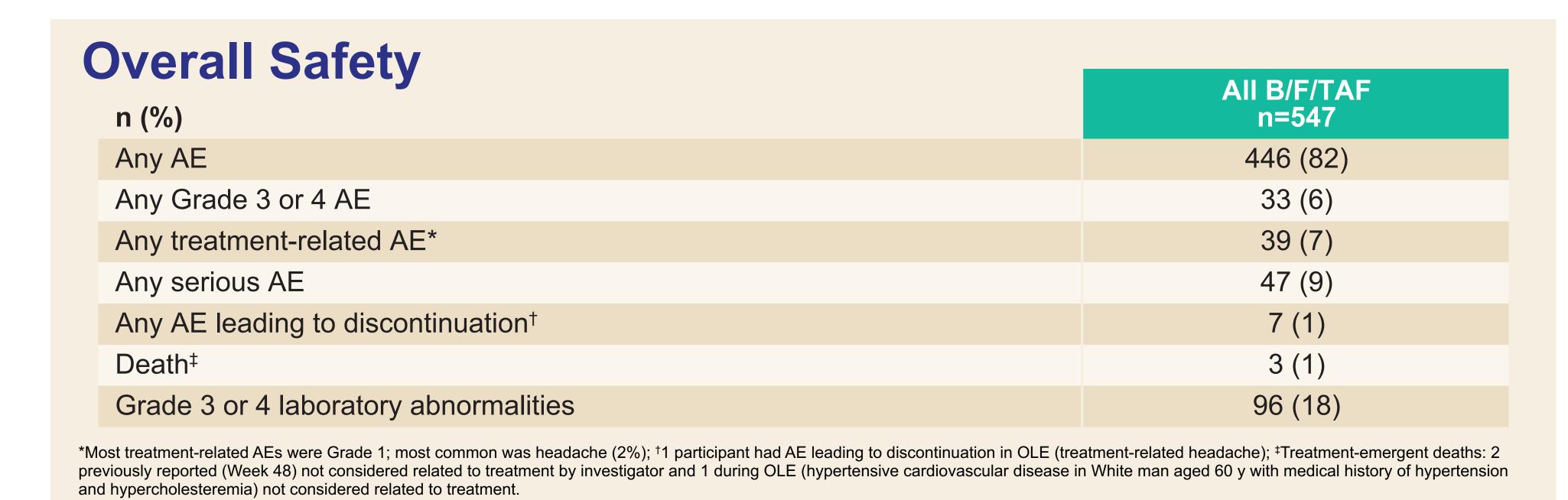


- Median (IQR) baseline CD4 cell count: 709 (536, 905) cells/μL; changes from baseline: -17 (-120, 65) at Week 48 (n=476) and -9 (-100, 108) at Week 96 (n=279)
- No participant developed resistance to B/F/TAF

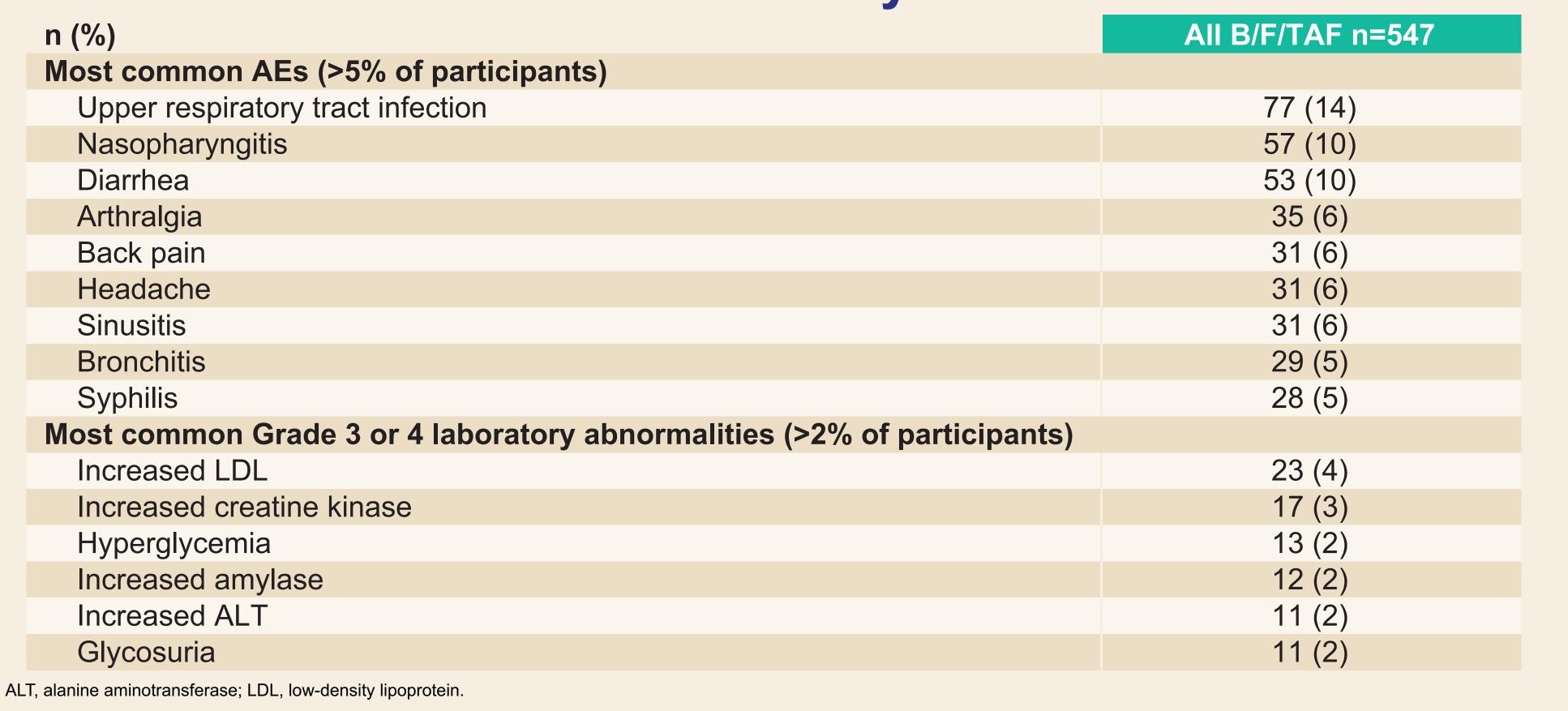
Virologic Outcomes by Archived Resistance

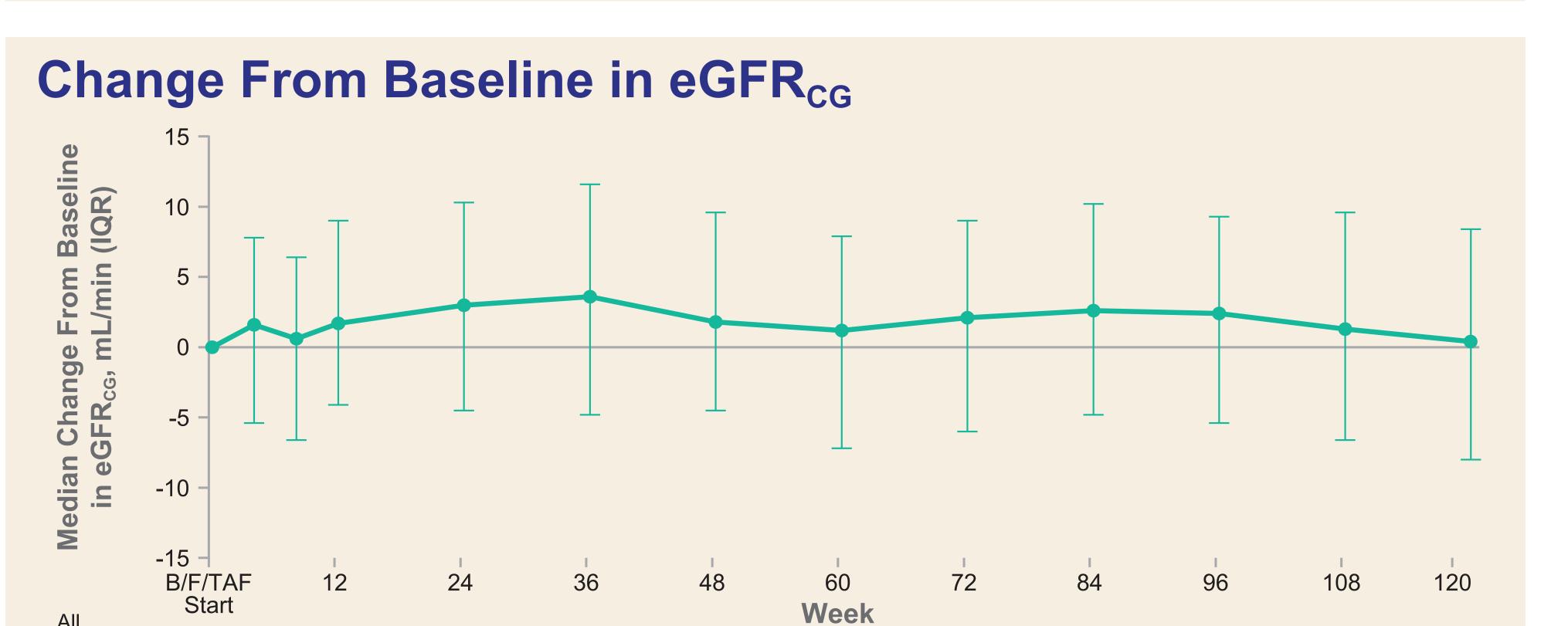


High efficacy was also achieved in participants with archived resistance



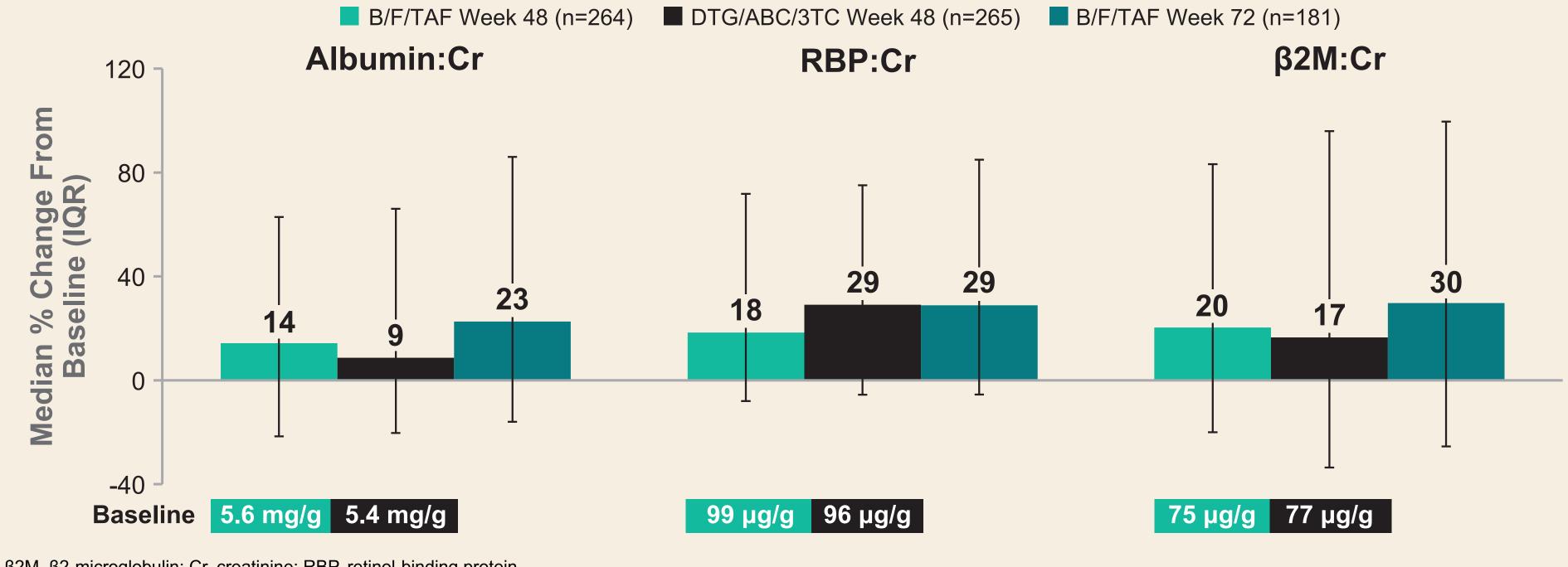
Most Common AEs and Laboratory Abnormalities



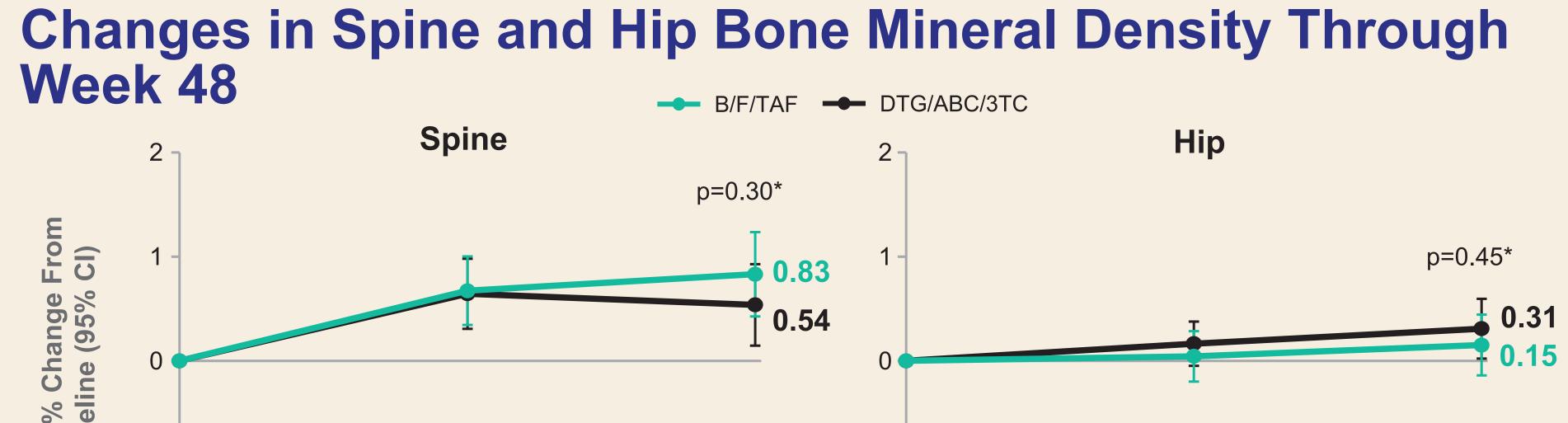


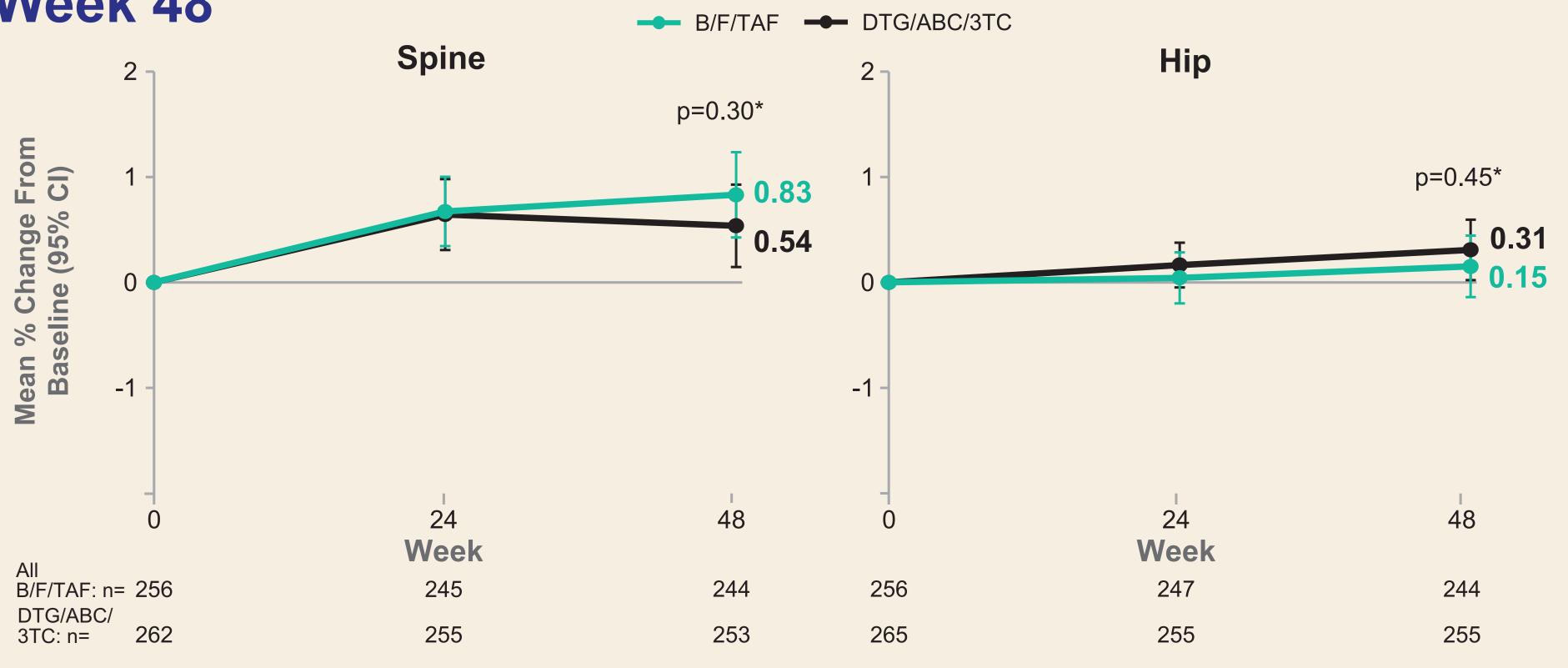
◆ No discontinuations due to renal-related AEs and no cases of renal proximal tubulopathy

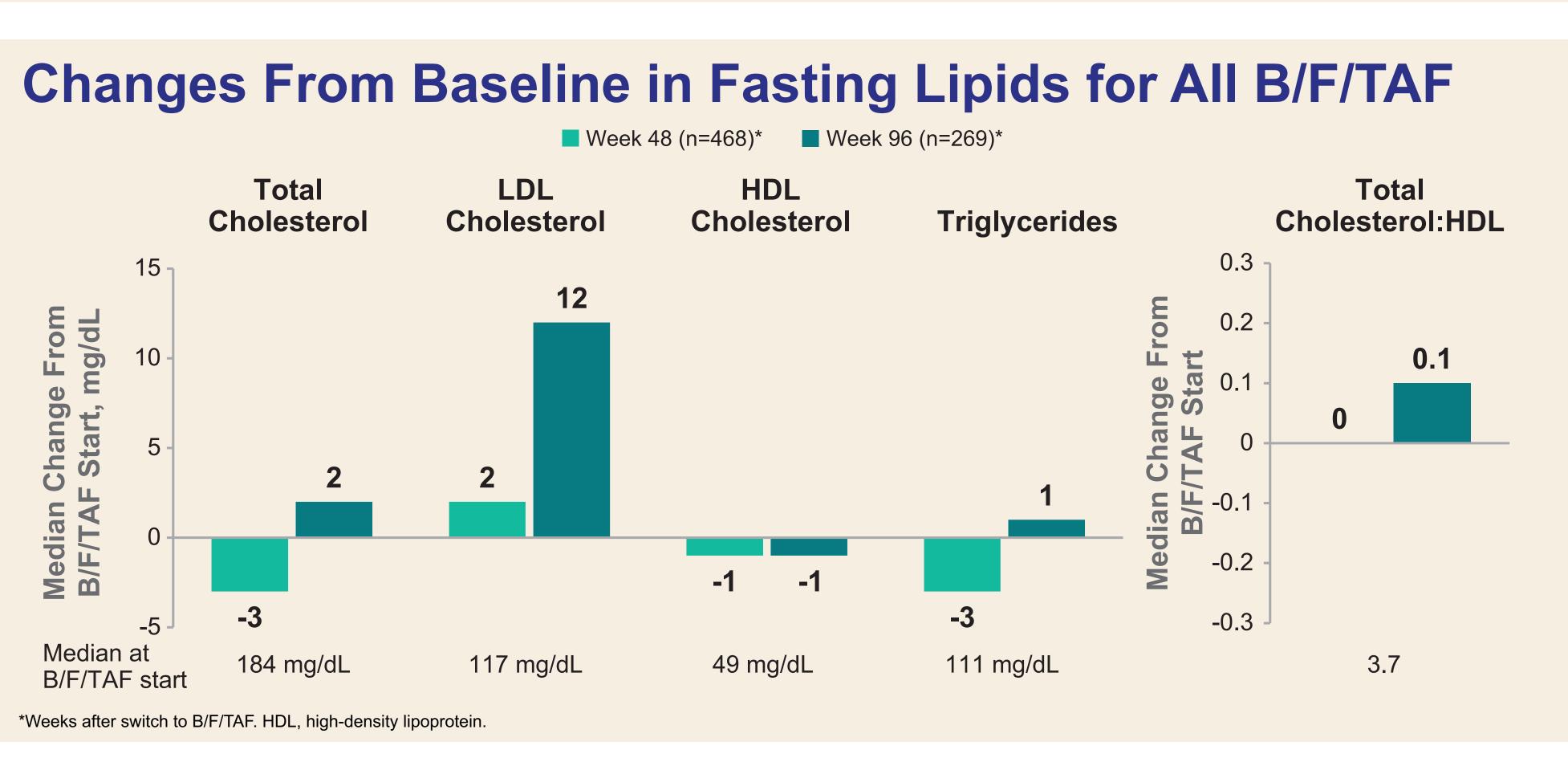
Changes in Quantitative Proteinuria at Weeks 48 and 72



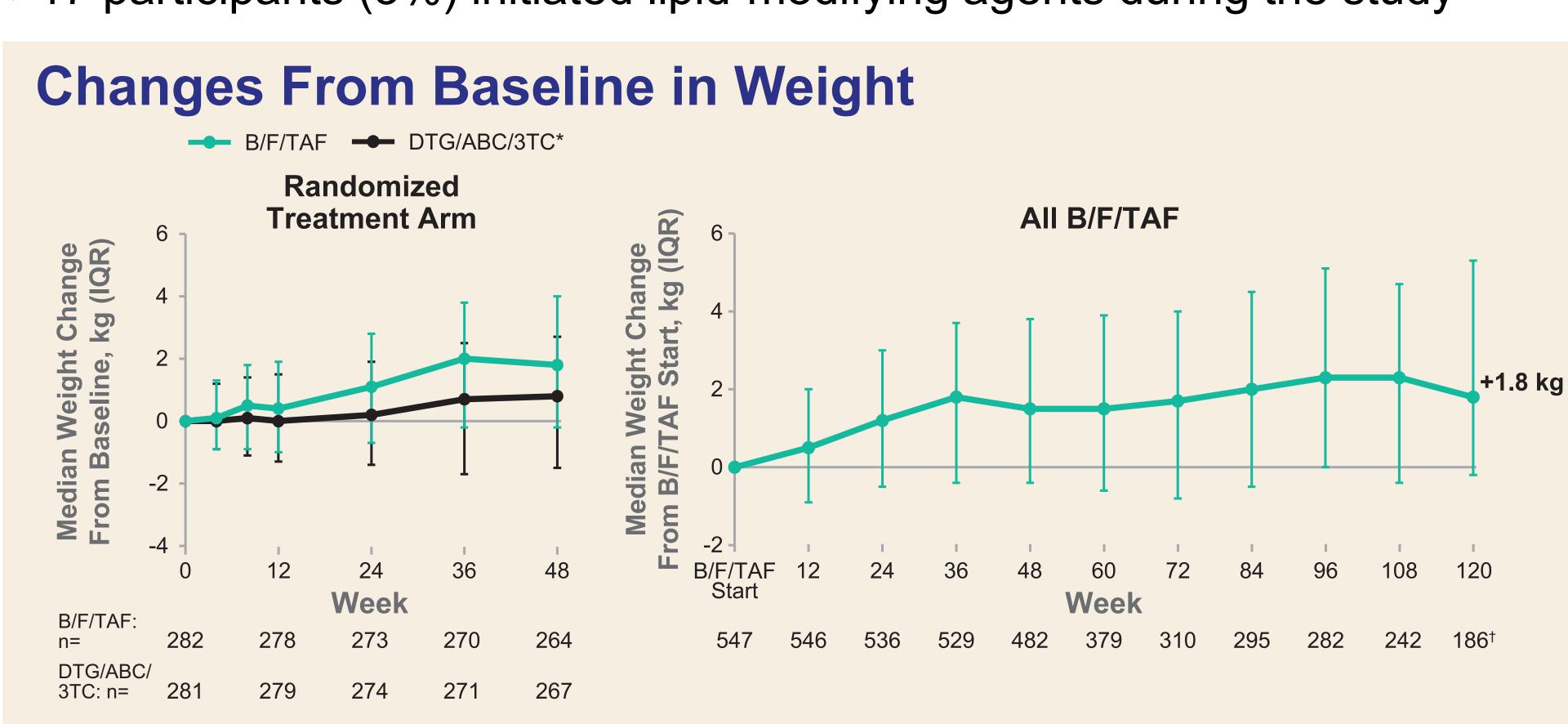
- ◆ No differences between B/F/TAF and DTG/ABC/3TC in quantitative measures of proteinuria or biomarkers of renal tubular dysfunction
- ♦ Week 48 previously presented; additional data at Week 72 were assessed for B/F/TAF participants not yet unblinded, but on study







- ♦ Fasting lipids were generally stable, with slight increases in LDL
- ◆ 17 participants (3%) initiated lipid-modifying agents during the study



 Weight increased, with median changes from baseline ranging from +0.5 to +2.3 kg

Conclusions

- ◆ In the long-term OLE of this Phase 3 study, people living with HIV who switched to B/F/TAF from DTG/ABC/3TC demonstrated:
- Continued high rates of virologic suppression, with no emergent resistance
- High efficacy in participants with archived resistance
- Safety and tolerability of B/F/TAF through 168 wk
- Changes from baseline in body weight in the all B/F/TAF group were consistent with the Week-48 data
- No discontinuations due to renal-related AEs and no cases of renal proximal tubulopathy

References: 1. Clinical Info HIV.gov. Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV; 7/10/19; 2. EACS Guidelines Version 10.1 October 2020; 3. Saag MS, et al., JAMA 2018;320:379-96; 4. Molina JM, et al. Lancet HIV 2018;5:e357-65. Acknowledgments: We extend our thanks to the participants, their families, and all participating study investigators and st Australia: D Baker, M Bloch, D Smith; Belgium: L. Vandekerckhove; Canada: L Charest, J de Wet, K Kasper, RP LeBlanc, B LeBouche; France: J-M Molina, G Pialoux, P Pugliese, F Raffi; Germany: K Arastéh, A Baumgarten, M Bickel, J Bogner, S Esser, H Jäger, J Rockstroh, H-S Stellbrink; Italy: A Antinori; Spain: A Antela, B Clotet Sala, M Gutierrez, LF Lopez-Cortes, MJ Pérez, D Podzamczer, A Rivero Roman; UK: AE Clark, MA Johnson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, I Brar, C Brinson, J Ross, G Schembri, AP Ustianowski; USA: H Albrecht, J Bartczak, P Benson, D Berger, M Berne, J Brar, L Brar Kinder, D. Klein, A. LaMarca, K. Lichtenstein, N. Lin, C.T. Martorelli, A. Mills, JO. Morales Ramirez, K. Mounzer, C.L. Newman, G. Osiyemi, C. Parspns, P. Peyrani, G. Pierone Jr., D.J. Prelutsky, M. Ramgopal, B. Rashbaum, G.J. Richmond, P.J. Ruane, L. Santiago, A.J. Scarsella, S.R. Schrader, A. Scribner, P. Shalit, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wade, M.B. Wohlfeil, C. Shikuma, ASO Shon, J. Stephens, W.J. Towner, T.J. Vaniq, B.H. Wade, M.B. Wade, M.B.