

Switch to Dolutegravir-Lamivudine versus Continued TAF-Based 3-Drug ART

TANGO

Switch to DTG-3TC versus Continued TAF-Based Baseline Regimen

TANGO: Design

- **Design:** Open-label, non-inferiority trial in adults with suppressed HIV RNA while taking a 3- or 4-drug tenofovir alafenamide (TAF)-based regimen, randomized to switch to fixed-dose dolutegravir-lamivudine (DTG-3TC) or continue the baseline regimen
- **Inclusion Criteria**
 - Adults with suppressed HIV RNA >6 months
 - Taking 3- or 4-drug TAF-based ART
 - No history of virologic failure
 - No major NRTI resistance; no INSTI resistance
 - No hepatitis B or C
- **Regimens**
 - Dolutegravir-lamivudine (50/300mg) daily
 - TAF-based 3- or 4-drug baseline regimen

Switch Group
Dolutegravir-Lamivudine
(n = 369)

Continue Baseline Regimen Group
TAF-Based 3- or 4-Drug Regimen
(n = 372)

Switch to DTG-3TC versus Continued TAF-Based Baseline Regimen

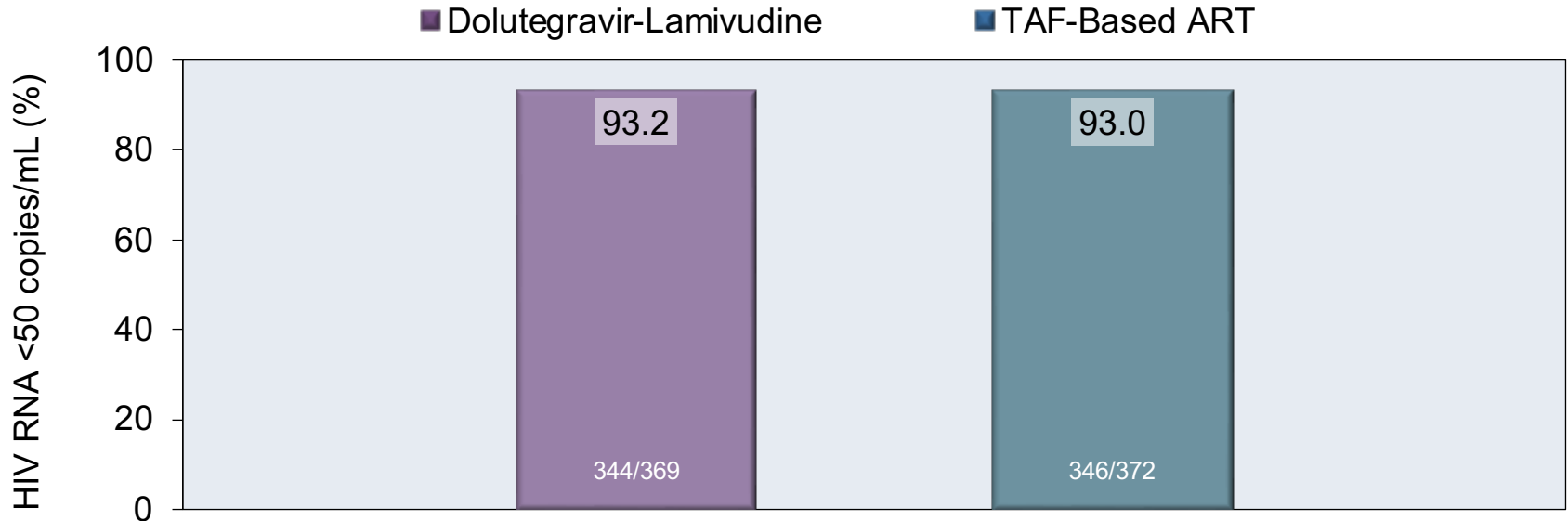
TANGO: Baseline Characteristics

Characteristic	Dolutegravir-Lamivudine (n = 369)	TAF-Based ART (n = 372)
Age, years, median (range)	40 (20-74)	39 (18-73)
Female, n (%)	25 (7)	33 (9)
White, n (%)	297 (81)	289 (78)
African American/African, n (%)	50 (14)	58 (16)
CD4 cell count <500, n (%)	98 (27)	74 (20)
CD4 cell count ≥500, n (%)	271 (73)	298 (80)
Months on ART, median (range)	33.8 (7.1-201.2)	35.1 (7.0-160.8)
Baseline third agent class		
INSTI	289 (78)	296 (80)
NNRTI	51 (14)	48 (13)
PI	29 (8)	28 (8)

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TANGO: Results at Week 48

Week 48 Virologic Response (Intention-to-Treat Snapshot Analysis)

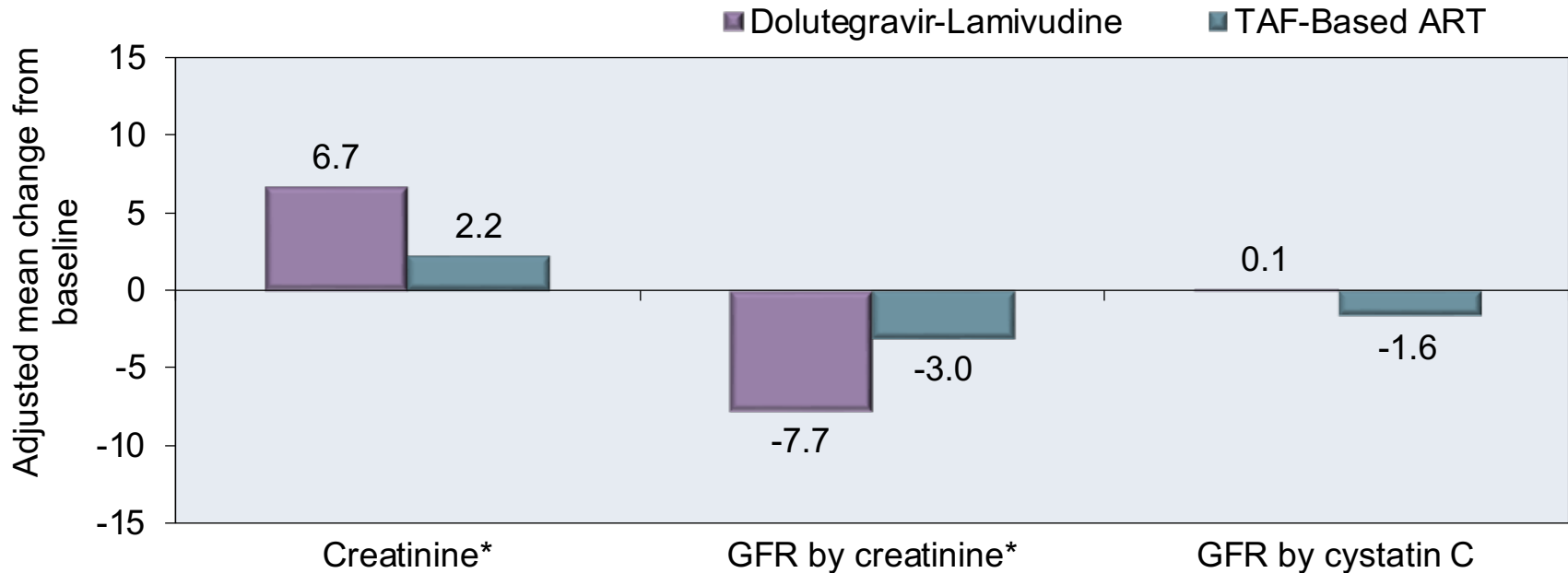


- Confirmed withdrawal for virologic failure: 0 in DTG/3TC arm, 1 in TAF-based ART arm
- No new resistance mutations occurred
- 4 with baseline M184V/I in DTG/3TC arm (by proviral genotype) suppressed at week 48

Switch to DTG-3TC versus Continued TAF-Based Baseline Regimen

TANGO: Results at Week 48

Week 48 Changes in Renal Function (Plasma/Serum Markers)

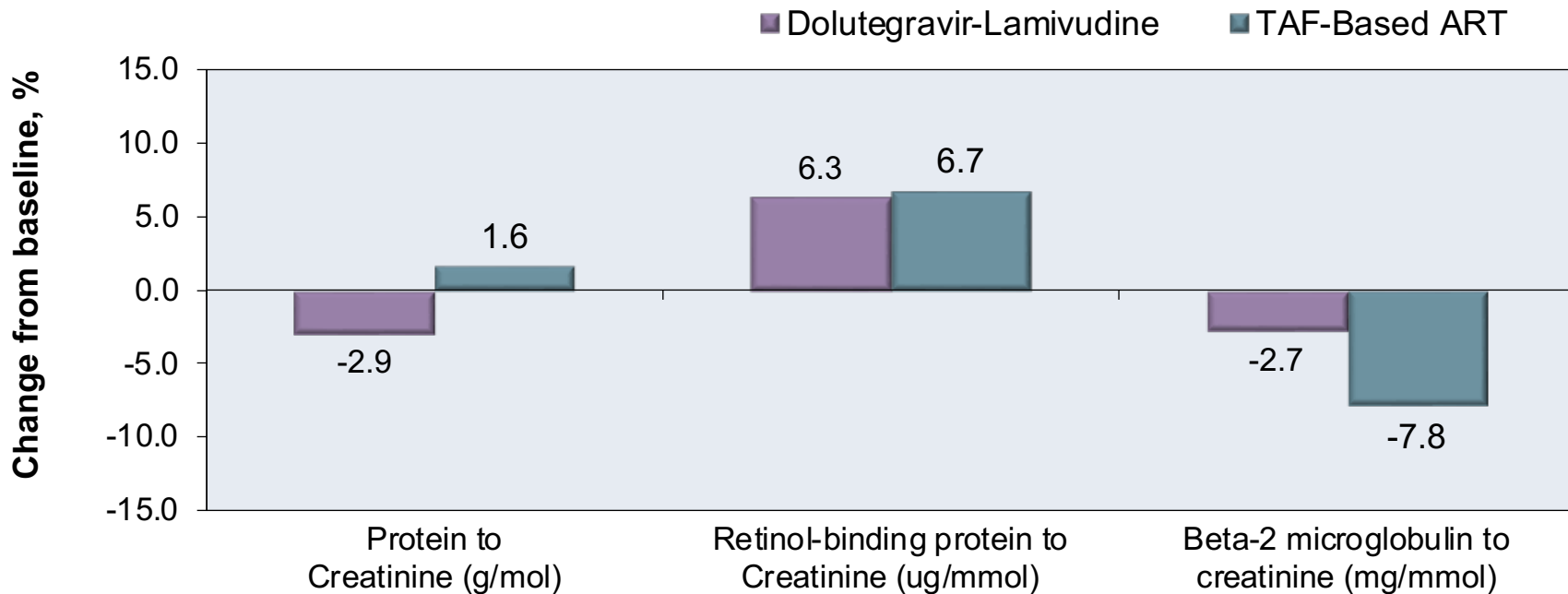


*Statistically significant difference

Switch to DTG/3TC vs Continued TAF-Based 3-Drug ART

TANGO: Results at Week 48

Week 48 Changes in Markers of Proximal Tubulopathy (Urine Tests)



Switch to DTG-3TC versus Continued TAF-Based Baseline Regimen

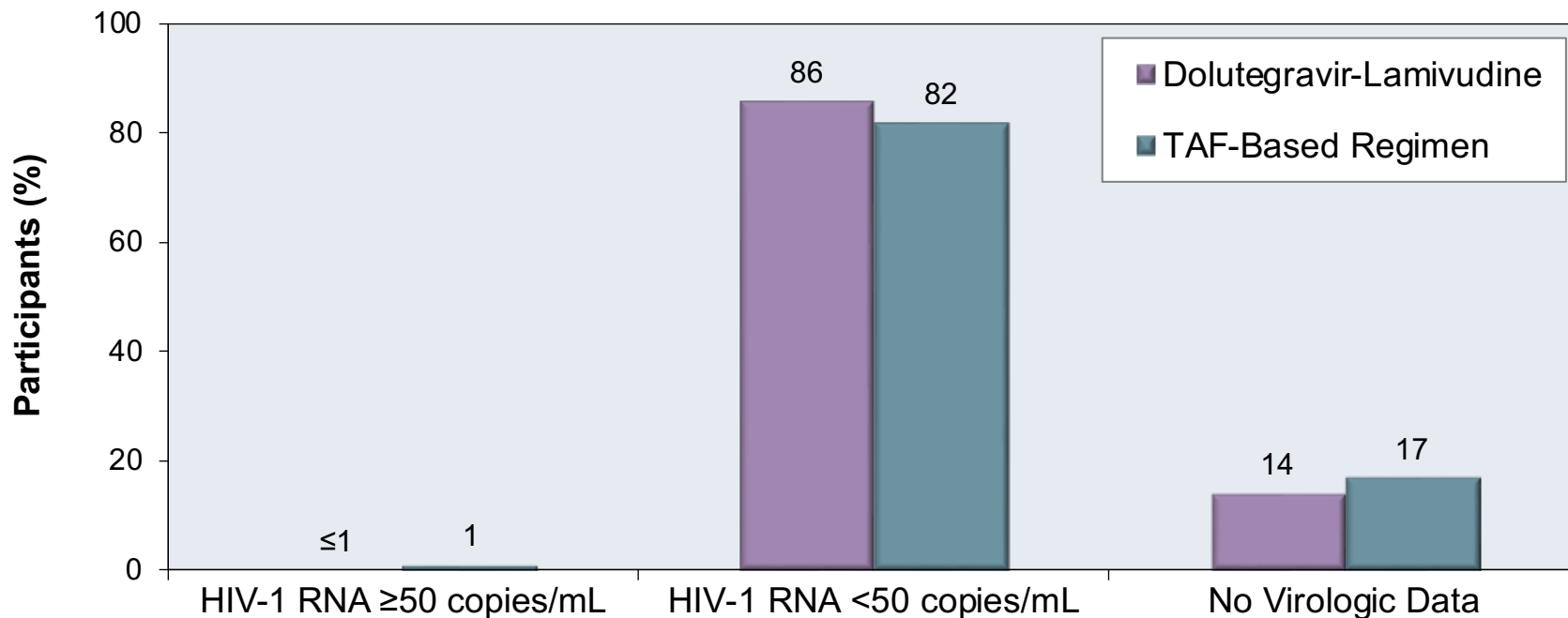
TANGO: Conclusions

Conclusion: “Dolutegravir-lamivudine was was noninferior in maintaining virologic suppression vs a TAF-based regimen at week 48, with no virologic failure or emergent resistance reported with DTG/3TC, supporting it as a simplification strategy for virologically suppressed people with HIV-1.”

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TANGO: 144 Week Results

Week 144 Virologic Response (ITT-Exposed)



Switch to DTG-3TC versus Continued TAF-Based Baseline Regimen

TANGO: Conclusions

Conclusion: “The 2-drug regimen dolutegravir-lamivudine was non-inferior in maintaining virologic suppression vs a tenofovir alafenamide-based regimen at Week 48, with no virologic failure or emergent resistance reported in the dolutegravir-lamivudine group, supporting its use as a simplification strategy for virologically suppressed people living with HIV-1.”

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