

SUPPLEMENTAL MATERIAL
TABLE OF CONTENTS

1. Supplemental tables 1-4
2. Supplemental figures 1-3

Supplemental Table 1: Adverse Events Reported for ≥5% of Subjects in Either Treatment Group

Adverse Events	TAF (n = 103) n (%)	TDF (n = 50) n (%)
Diarrhea	22 (21.4)	13 (26.0)
Nausea	13 (12.6)	5 (10.0)
Flatulence	5 (4.9)	6 (12.0)
Abdominal pain	6 (5.8)	3 (6.0)
Vomiting	4 (3.9)	5 (10.0)
Hemorrhoids	3 (2.9)	4 (8.0)
Fatigue	14 (13.6)	9 (18.0)
Pyrexia	7 (6.8)	2 (4.0)
Upper respiratory tract infection	16 (15.5)	7 (14.0)
Bronchitis	9 (8.7)	2 (4.0)
Sinusitis	7 (6.8)	4 (8.0)
Nasopharyngitis	5 (4.9)	3 (6.0)
Folliculitis	3 (2.9)	4 (8.0)
Influenza	2 (1.9)	3 (6.0)
Pharyngitis	1 (1.0)	3 (6.0)
Tooth abscess	0	3 (6.0)
Decreased appetite	4 (3.9)	3 (6.0)
Vitamin D deficiency	2 (1.9)	5 (10.0)
Pain in extremity	8 (7.8)	5 (10.0)
Arthralgia	9 (8.7)	0
Back pain	1 (1.0)	3 (6.0)
Anogenital warts	3 (2.9)	3 (6.0)
Headache	7 (6.8)	4 (8.0)
Insomnia	6 (5.8)	2 (4.0)
Cough	7 (6.8)	3 (6.0)
Oropharyngeal pain	5 (4.9)	4 (8.0)
Sinus congestion	6 (5.8)	3 (6.0)
Rash	12 (11.7)	4 (8.0)
Hypertension	2 (1.9)	3 (6.0)

TAF: Tenofovir alafenamide

TDF: Tenofovir disoproxil fumarate

Supplemental Table 2: Pharmacokinetic Parameters of darunavir (DRV), cobicistat (COBI), and emtricitabine (FTC)

	AUC_{tau} (ng.h/mL) Mean (%CV)	C_{max} (ng/mL) Mean (%CV)	C_{tau} (ng/mL) Mean (%CV)	T_{max} (h) Median (Q1, Q3)	T_½ (h) Median (Q1, Q3)
DRV	99301.8 (45.3)	8826.2 (33.3)	1651.0 (108.0)	3.00 (2.00, 4.00)	9.42 (6.31, 13.87)
COBI	8744.5 (43.9)	1128.7 (35.3)	30.5 (135.1).	3.03 (3.00, 4.00)	3.16 (2.77, 3.70)
FTC	11918.0 (35.9)	2056.4 (25.3)	93.1 (58.3)	1.52 (1.50, 2.00)	7.51 (6.40, 8.79)

Supplemental Table 3: Plasma Tenofovir (TFV) Pharmacokinetic Parameters

Parameter (Mean, %CV)	Units	TAF (n = 21)	TDF (n = 11)
AUC _{tau}	ng.h/mL	339.0 (37.1)	3737.0 (26.8)
C _{max}	ng/mL	18.8 (37.6)	413.2 (28.3)
T _{max} ^a	h	2.0 (1.5, 3.1)	1.0 (1.0, 3.0)
C _{tau}	ng/mL	11.7 (39.3)	75.4 (30.9)
t _½ ^a	h	43.8 (32.0, 59.2)	11.9 (11.4, 16.2)

^a Values are listed as mean (%CV) except T_{max} and t_{1/2}, which are listed as median (Q1, Q3)

Supplemental Table 4: Renal Parameters

Renal Parameters	TAF (n=103)	TDF (n=50)	p-value
Estimated Glomerular Filtration Rate (mL/min; Cockcroft Gault)	-2.9 mL/min	-10.6 mL/min	0.017
Treatment Emergent Dipstick Proteinuria**	33, (32%)	17, (34%)	0.98
Urinary Albumin/Creatinine (mg/g)+	-13.1%	-22.6%	0.17
Urinary Protein/Creatinine (mg/g)+	-8.22%	-27.52%	0.19
Fractional Excretion of Phosphate (%)^	2.4	1.8	0.85
Fractional Excretion of Uric Acid (%)^	0.2	-0.2	0.79

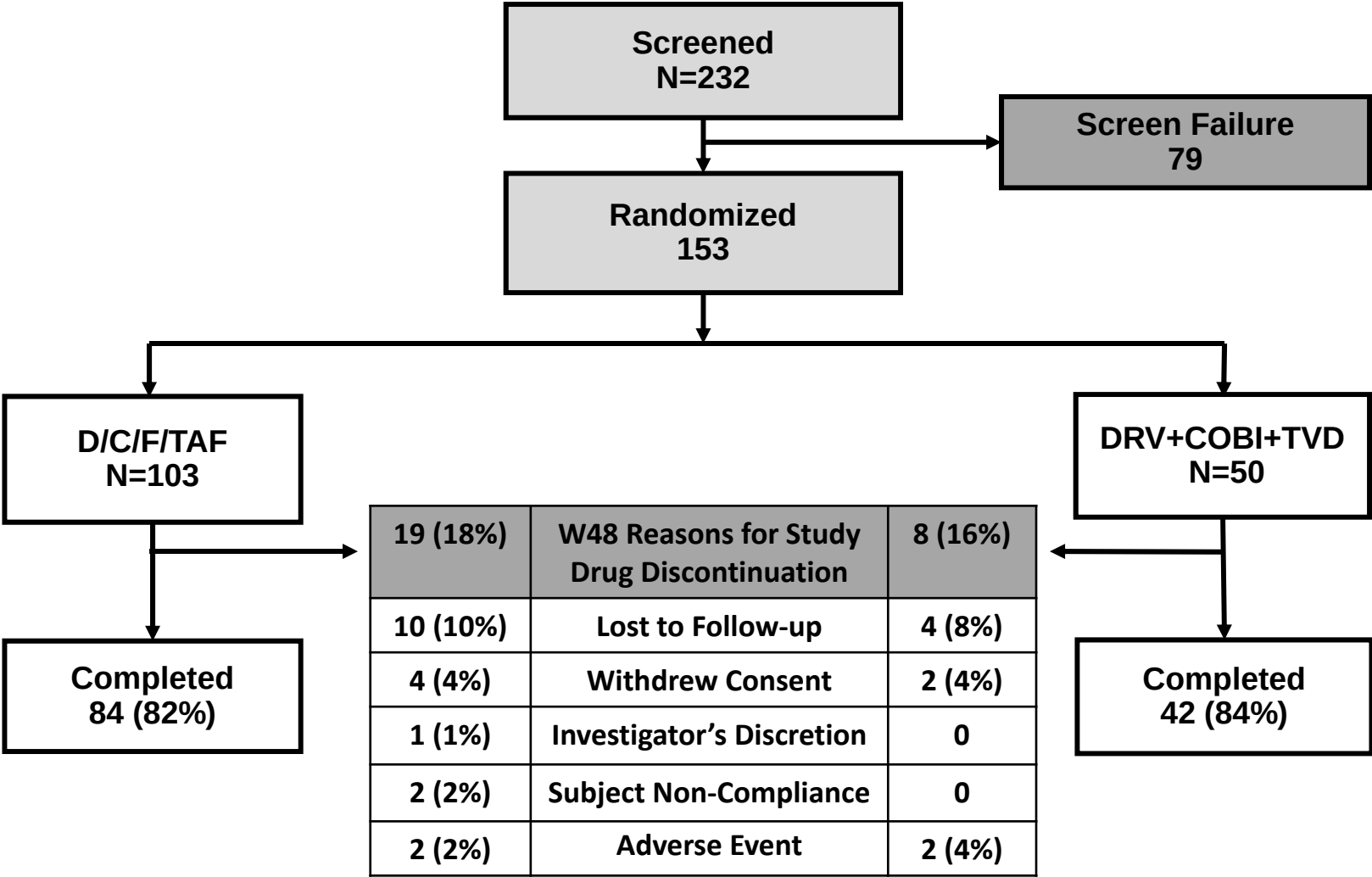
2-sided Wilcoxon rank sum test to compare % change in median from baseline between the 2 treatment groups.

**ANCOVA adjusting for baseline toxicity grade of proteinuria

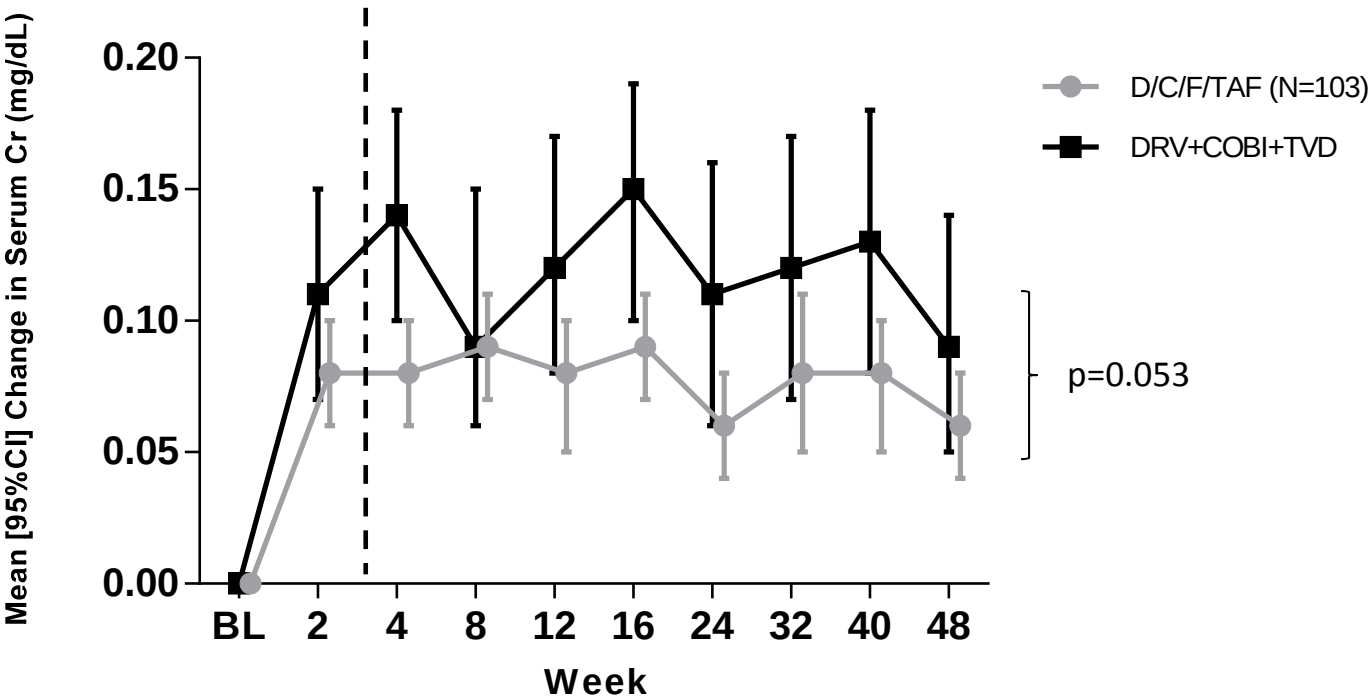
+ Median % change

^Median change;

Supplemental Figure 1: Participant Flow Diagram and Week 48 Reasons for Study Drug Discontinuation



Supplemental Figure 2: Changes in Serum Creatinine



Supplemental Figure 3: Median Percent Change (Q1, Q3) from Baseline in Renal Tubular Proteinuria: Retinol Binding Protein (RBP)/Cr and Beta-2 Microglobulin (β -2M)/Cr

