

**ARV Therapies and Therapeutic Strategies**  
 INDEPENDENT REPORTING ON IAS 2017

**COMPREHENSIVE EXPERT REVIEW  
 AND DISCUSSION OF KEY PRESENTATIONS**

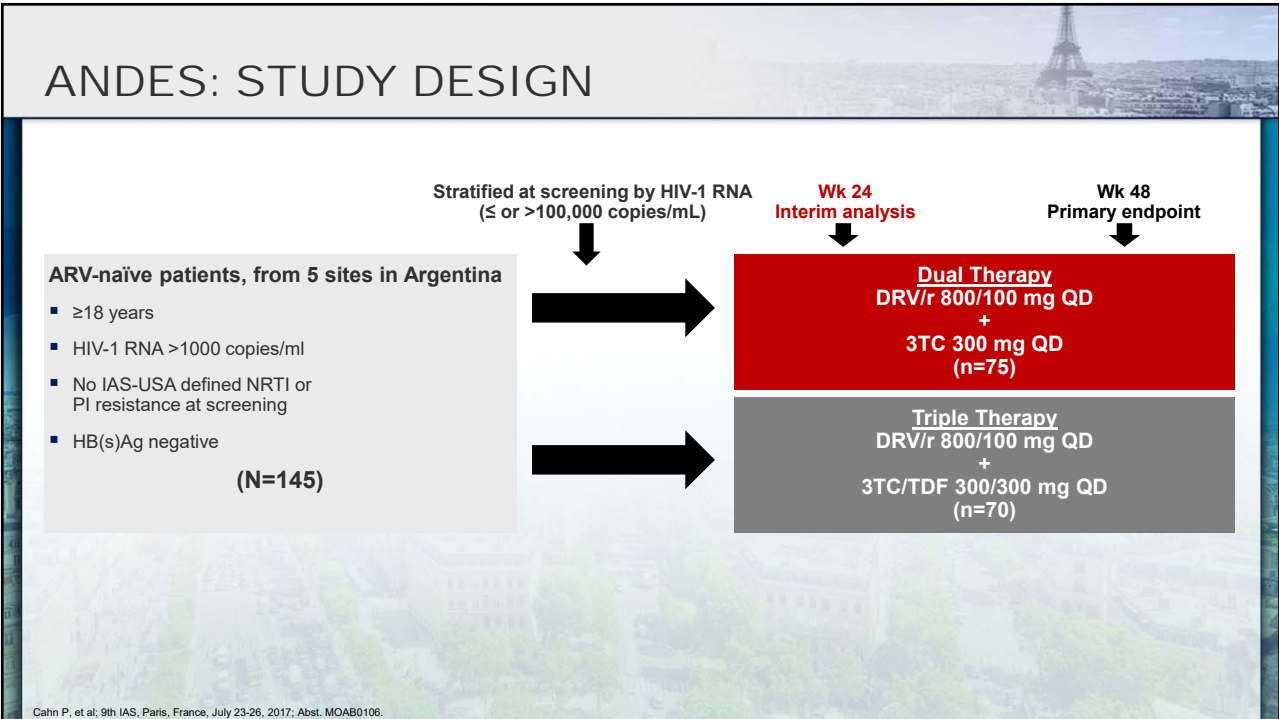
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**DUAL THERAPY WITH DARUNAVIR/RITONAVIR PLUS  
 LAMIVUDINE FOR HIV-1 TREATMENT INITIATION:  
 WEEK 24 RESULTS OF THE RANDOMIZED ANDES STUDY**

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Abstract MOAB0106



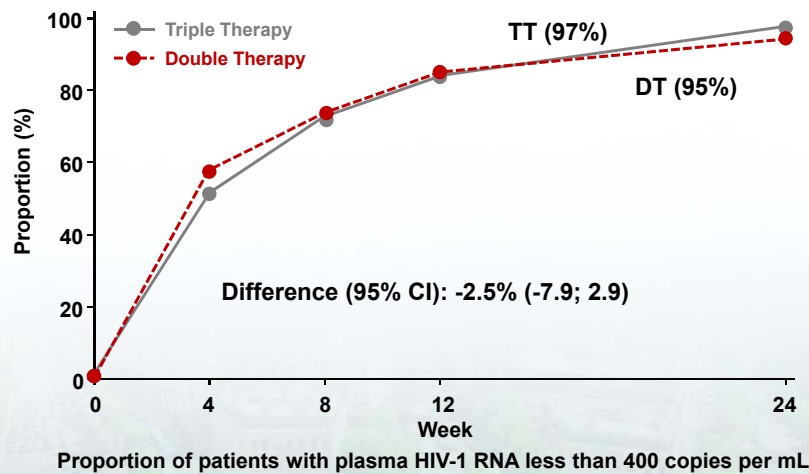
# ANDES STUDY: BASELINE CHARACTERISTICS

	Global (n=145)	DT (N=75)	TT (N=70)
Age	30 (25-39)	30 (24-42)	30 (26-38)
Males	131 (91%)	70 (93%)	61 (88%)
MSM/Bisexual	101 (73%)	53 (76%)	48 (71%)
CDC Stage B*	11 (8%)	6 (8%)	5 (7%)
Viral Load ( $\log_{10}$ )	4.5 (4.0-5.0)	4.6 (4.1-5.1)	4.5 (3.9-5.0)
VL >100,000 c/mL	35 (24%)	20 (27%)	15 (22%)
Median CD4 count (IQR 25-75)	383 (286-562)	419 (290-564)	366.5 (275-544)

Shown are medians (IQR 25-75) for continuous variables or n(%) for categorical variables.  
Comparisons were performed by chi-sq test or t-tests.  
\* No stage CDC C was enrolled

Cahn P, et al; 9th IAS, Paris, France, July 23-26, 2017; Abst. MOAB0106.

# ANDES STUDY: INTERIM 24-WEEK RESULTS



No virologic failure in dual therapy arm; all patients with baseline HIV RNA >100,000 responded to therapy

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## ANDES STUDY: PATIENTS WITH VL<400 C/ML AT WEEK 24

	<b>DT</b>	<b>TT</b>	<b>Difference (95% CI)</b>
ITT Snapshot (n=145)	71/75 (95%)	68/70 (97%)	-2.5% (-7.9; 2.9)
<b>On Treatment (n=140)</b>	<b>71/71 (100%)</b>	<b>68/69 (99%)</b>	<b>1.4% (-0.9, 3.8)</b>
Discontinuations	4*	1**	
<b>Virological Failure</b>	<b>0</b>	<b>1</b>	

\*Withdraw consent (1), SAE (1), LTFU (1), RASH (1)  
\*\* LTFU

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ACTG A5353: A PILOT STUDY OF DOLUTEGRAVIR (DTG) +  
LAMIVUDINE (3TC) FOR INITIAL TREATMENT OF HIV-1-INFECTED  
PARTICIPANTS WITH HIV-1 RNA <500,000 COPIES/ML

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Abstract TULBPEB21

## ACTG 5353: STUDY DESIGN

Phase II, single-arm, 52-week, study of **DTG 50 mg + 3TC 300 mg** in treatment-naïve participants with **VL  $\geq 1000$  and  $< 500,000$  cpm**

### Primary Objective

- To estimate the virologic success rate at week 24

### Key Secondary Objectives

- Compare efficacy with baseline VL  $\leq 100,000$  vs  $> 100,000$  cpm
- Describe emergent integrase and RT resistance during virologic failure
- Evaluate safety and tolerability
- Explore impact of minority drug-resistant variants and drug exposure/adherence on observed outcomes

Taiwo B, et al; 9th IAS, Paris, France, July 23-26, 2017; Abst. MOAB0107LB.

## ACTG 5353: BASELINE CHARACTERISTICS

		Baseline HIV-1 RNA Category	
		>100,000 cpm (N=37)	$\leq 100,000$ cpm (N=83)
<b>Age (years)</b>	Median (Q1, Q3)	30 (25, 40)	30 (24, 42)
<b>Sex</b>	Male	89%	86%
<b>Race/Ethnicity</b>	White Non-Hispanic	27%	29%
	Black Non-Hispanic	32%	43%
	Hispanic	35%	23%
<b>CD Count (cells/mm<sup>3</sup>)</b>	Median (Q1, Q3)	350 (173, 458)	413 (328, 671)
	<200	30%	6%
<b>HIV-1 RNA (log<sub>10</sub> cpm) (cpm)</b>	Median (Q1, Q3)	5.23 (5.09, 5.46)	4.23 (3.82, 4.65)
	<10,000	--	42%
	10,000 -99,999	--	58%
	100,000 – 200,000	62%	--
	>200,000	38%	--

Taiwo B, et al; 9th IAS, Paris, France, July 23-26, 2017; Abst. MOAB0107LB.

## ACTG 5353: RESULTS AT 24 WEEKS

	Baseline HIV-1 RNA		Total N=120
	>100,000 cpm N=37	≤100,000 cpm N=83	
<b>Virologic success</b> HIV-1 RNA <50 cpm [95% CI]	33 (89%) [75%, 97%]	75 (90%) [82%, 96%]	108 (90%) [83%, 95%]
<b>Virologic non-success</b> HIV-1 RNA ≥50 cpm	3 (8%) 3	2 (2%)* 0	5 (4%) 3
Discontinued study treatment for other reasons while HIV RNA ≥50	0	2	2
<b>No virologic data in window</b> Discontinued study treatment for other reasons	1 (3%) 1	6 (7%) 5	7 (6%) 6
On study but missing data in window	0	1	1

\*One study subject with poor adherence developed M184V, and R263RK mixture

Taiwo B, et al; 9th IAS, Paris, France, July 23-26, 2017; Abst. MOAB0107LB.

## ACTG 5353: CONCLUSIONS

- In this pilot study, DTG+3TC demonstrated potent virologic efficacy with study entry VL up to 500,000 copies/mL
- Virologic failure was uncommon and associated with suboptimal adherence
  - 3 patients met PDVF, one of whom had emergent R263RK mixture and M184V
- Future work in A5353:
  - Investigate baseline and on-treatment RT and INI minority variants in the participants with virologic failure and a matched control group
  - Perform phenotyping on the participant with emergent R263K/R mixture
  - Analysis of pharmacogenetics associations
- Two large randomized studies (GEMINI-1 and GEMINI-2) are underway and will provide more data on the resistance barrier of DTG+3TC

Taiwo B, et al; 9th IAS, Paris, France, July 23-26, 2017; Abst. TULBPB21.