THE LOPSAQ STUDY: 48-WEEK ANALYSIS OF A BOOSTED DOUBLE PROTEASE INHIBITOR (PI) REGIMEN CONTAINING LOPINAVIR/RITONAVIR (LPV/R) PLUS SAQUINAVIR (SQV) WITHOUT ADDITIONAL ANTIRETROVIRAL THERAPY

THPE 0135

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Background: The virological, immunological and clinical responses to the boosted double PI regimen combination of LPV/r (400/100 mg BID) and SQV (1000 mg BID) without reverse transcriptase inhibitors (RTI)

over 48 weeks in HIV-positive patients who have few viable RTI treatment options. Methods: Cohort study of 128 heavily pre-treated patients who were experiencing therapy failure on their current

regimen due to resistance or systemic toxicities. Patients with PI resistance mutations or RTI-toxicity underwent a structured treatment interruption (STI) (n=76) until virus reverted to genotypic susceptibility or until resolution of toxicity symptoms.

Response was defined as viral load <400 copies/ml at week 48.

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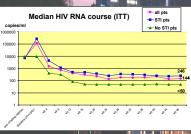
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Baseline Characteristics	Number (%a)
Total number	128 (100)
Female	24 (19)
Age at baseline (years) [median (range)]	41 (22–67)
CD4 count at baseline (cells/mm³) [median (range)]	172 (2–998)
HIV RNA at baseline log¹º (copies/ml) [median (range)]	5.06 (<1.3-6)
Reasons for switch to saquinavir/lopinavir/ritonavir:	Maria de la companya
Toxicity or non-virologic	49 (38.3)
Resistance, virologic failure	72 (56.2)
Both	7 (5.5)
Years of ART [mean (range)]	6.3 (0,1-14)
Number of previous antiretroviral drugs [median (range]	9 (2–15)
^a Unless otherwise specified; ^b start of SQV/LPV/r therapy	

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Week 48 Results, a	III pts. (1)	
	<u>N</u>	
On treatment at week 48:	78/128	
Discontinuation before week 48:	50/128	
Lost to follow up:	5	
. Thereas shows a	45	

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Therapy changes - 11 due to virologic failure - 5 due to both - 2 not document

Week 48 Results (3)		
Median CD4 change from baseline (OT):	118 cells/mm³	
Median VL change from baseline (OT):	-115856 copies/ml (-2,6 log)	
Median follow up:	62 weeks (range: 4-219)	
Median VL nadir:	<50 copies/ml	
Median time to VL nadir:	14 weeks	
Median time needed to <400 copies for pts >=400 copies (112/127) at BI	11 weeks (85/112)	
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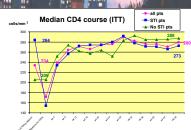
	< 400 copies at	≥ 400 copies at	
	week 48 ITT	week 48 ITT	P-value
	analysis (n=78)	analysis (n=50)	
	[median, (range)]	[median, (range)]	
HIV RNA at baseline (log10 copies/ml)	4.81, (1.28-6.00)	5.29, (1.28-6.00)	0.002
CD4 count at baseline (cells/mm³)	203, (15-998)	90, (2-555)	<0.001
No. of antiretroviral drugs previously taken	8, (3-14)	10, (2-15)	0.003
No. of PIs previously taken	2, (0-6)	3, (0-6)	0.006
No. of PI mutations at end of last regimen	1, (0-8)	2, (0-11)	0.043
Previous saquinavir exposure [n (%)]	23 (29%)	27 (54%)	0.009
Previous lopinavir exposure [n (%)]	8 (10%)	14 (28%)	0.015
Previous ritonavir exposure [n (%)]	42 (54%)	37 (74%)	0.026

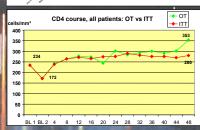
Baseline Characteristics (con't)	Number (%a)
Previous Pls taken	
Lopinavir/r	22 (17)
Saquinavir	50 (39)
Amprenavir	13 (10)
Indinavir	79 (62)
Nelfinavir	48 (38)
Ritonavir	79 (62)
PI-naive patients	22 (17)
Number of antiretroviral drugs in last regimen [median (range)]	3 (1–7)
Last regimen was PI-sparing	86 (67)
Pre-study STI > 4 weeks	76 (59)
Number of previous PIs [median (range)]	2 (0-6)

Week 48 Results (2)

Non-virologic reasons for DC Dose change

Therapy int	erruption > 4 weeks	2	
Gastrointes	stinal Disturbances	2	
Others		5	
Exitus		1	
Total		32	
MAKE			
	Week 48 Resu	<u>ılts (4)</u>	
		<u>N</u>	
VL rebound (1 log change from ned 2x):	<u>N</u> 14	
nadir confirm	ned 2x): above 5000 copies/ml from		





analysis, the only factors ultivariable a virological unt at baseline 176 – 0.594) and usly taken

Conclusions:

The combination of LPV/r and SQV without RTIs is a potential option as salvage therapy for patients experiencing therapy failure due to resistance or RTI toxicity.

This regimen may not be suitable for patients with very low baseline CD4 cell counts, very broad antiretroviral therapy experience or extensive PI resistance mutations.