H-569

F. Raffi^{1*}, C. Allavena¹, J.F. Delfraissy², A. Lafeuillade³, M. Bentata⁴, C. Katlama⁵, P. Dellamonica⁶, I. Poizot-Martin⁷, C. Michelet⁸, J.M. Besnier⁹, V. Ferré¹ and the BIKS Study Team.

BACKGROUND

Recommended antiretroviral regimens include a nucleoside reverse transcriptase inhibitors (NRTI) component. Classcross resistance and mitochondrial toxicity are recognized as problems with the class of NRTIs. With the availability of potent drugs from the other classes, evaluation of NRTIsparing regimens is desirable.

antiretrovirals (ARVs) and are the preferred agents among their respective classes.

Combination of these 2 agents requires dose adaptation, i.e. increase by one third of LPV/r dose, due to an induction of lopinavir metabolism by EFV (reduction of lopinavir AUC by 40%).

STUDY DESIGN

Pilot, multicenter (16 centers), open label trial to evaluate the safety, immunological and virological activity of dual therapy with LPV/r (533/133 mg bid) and efavirenz (600 mg qd) in HIV-1 infected patients (Bitherapy of Kaletra and Sustiva)

Entry criteria :

- HIV-1 infected adults
- CD4 cell count \geq 100/mm³
- Plasma HIV-1 RNA ≥5000 copies/mL

AND

- ARV naïve

- Or ARV experienced, but NNRTI naïve and ≤ 1 documented failure to PI-containing ARTwith less than 5 lopinavir-associated resistance mutations on screening protease genotypic testing (including L10F/I/R/V, K20M/R, L24I, M46I/L, F53L, I54L/T/V, L63P, A71I/L/T/V, V82A/F/T, I84V, L90M)

Exclusion criteria :

- Recent HIV infection (< 6 months)
- Prior treatment with NNRTI, LPV/r
- Pregnancy
- Active drug abuse

- Significant biological abnormalities (Hemoglobin, Neutrophils, Platelets, ALAT, ASAT, creatinine)

Duration of the study : 48 weeks with a 24-month extension

Follow-up included at visit D0, W4, 8, 16, 24, 36, 48: Clinical examination, fasting lipids, standard laboratory tests, CD4 cell count, HIV-1 RNA (pVL)

Definition of

- Virological success : pVL< 400 copies/mL
- Virological failure :
 - 2 consecutive pVL>1,000 copies/mL x 2 if prior < 400
 - $< 2 \log reduction in pVL at W24,$
 - 2 consecutive pVL> 400 copies/mL at W24 or beyond

Analyses

- Virological response : intent-to-treat, discontinuation and/or missing equals failure (ITT) and on-treatment (AT) analyses.
- Immunological response : AT analysis.
- Safety : all patients who received at least 1 dose of study drugs.

Primary Endpoint : percentage of patients with ARN VIH< 400 copies/mL at W24</p>

48-Week Final Results of Lopinavir/r (LPV/r)-Efavirenz (EFV) Combination (BIKS Study)

Infectious Diseases Dept. of 1Nantes, 2Bicêtre Paris, 3Toulon, 4 Bobigny, 5Pitié Salpétrière Paris, 6Nice, 7Marseille, 8Rennes and 9Tours, France.

Table 1 : Ba								
F		RV-experienced Patients (n=21)	All patients (n=86)		HIV-1	RNA levels		HIV-1 RNA levels
ale, (%)	55 (85)	15 (71)	70 (81)		<pre>< 400 N n</pre>	copies/mL % 95%	6 CI N	<pre>< 50 copies/mL</pre>
e, year Mean (± SD)	39.9 (± 9.9)	37.6 (± 8.6)	39.7 (± 9.6)	AT analysis				
4 cell count, cells/mm ³ Mean (± SD)	300 (± 172)	344 (± 325)	311 (± 218)	- 24 weeks	72 67 65 63	93 85 97 89		59 82 7 59 91 8
Median (range)	· · ·	308 (82-1612)	276 (71-1612)	- 48 weeks ITT analysis	65 63	31 09.	-99 65	Ja 31 8
1 RNA, log ₁₀ copies/mL Mean (± SD)	4.95 (± 0.52)	4.53 (± 0.58)	4.84 (± 0.57)	- 24 weeks	86 67		-85 86	59 69 5
· · ·	,	60 (3.53-5.40) 6 (28.6)	4.87 (3.48-5.87) 37 (43.0)	- 48 weeks	86 63 alysis; n : number of patient		-81 86	AT: on treatment ; ITT : intent to trea
				Table 5 :				
le 2 : ARV-Exp	perienced	Patients	s (n=21)	Event	Grade	Nb of patients	Nb of events	Possibly relat study drug(
				Body as a whole	_	~	~	VEC
				Asthenia Headache	3	2	2	YES YES
 Median ARV duration 		5.2 yea	rs (0.1-17.3)		-	1	- 1	NA**
 Median prior ARVs 		$2(2, \alpha)$	-	Myalgia	3		1	
		3 (2-6)		Dyspnea	3	1	1	NA
 PI naïve 		3 (2-6) n=12		Dyspnea Cutaneous reaction	3	1 2	1	
				Dyspnea		1 3 1	1 4 1	NA YES YES
 PI-experienced 	ase dene	n=12		Dyspnea Cutaneous reaction Rash Urticaria Prurit	3	1 3 1 1	1 4 1 1	YES
 PI-experienced Genotype of proteat 	ase gene	n=12 n=9		Dyspnea Cutaneous reaction Rash Urticaria Prurit CNS disorder	3 3 3	1 3 1 1 1	1 4 1 1 1	YES YES YES
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 PI-experienced Genotype of proteat No mutation L63P L63P+A71T/A L10V+L63P+A V82I Table 3 : Patient Patients enrolled Patients discontinuing by Week 48	ARV-naï patients 65 8 n (%) 18 (28) 1 nt 6	n=12 n=9 n=3 n=1 n=1 n=1 n=1 n=1 n=1 n=1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	All patients 86 21 (24) 1 7	DyspneaCutaneous reactionRashUrticariaPruritCNS disorderVertigoSleep disorderEmotional labilitySomnolenceDepressionParanoid reactionDigestive systemAbdominal painDiarrheaMetabolic disorderLipodystrophyWeight increaseGoutHyperamylasemiaSGOT elevationSGPT elevationHypercholesterolemia	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 4 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	1 1 4 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	YES YES YES YES YES YES YES YES YES YES
 PI-experienced Genotype of proteat No mutation L63P L63P+A71T/A L10V+L63P+A V82I Table 3 : Patient Patients enrolled Patients discontinuing by Week 44 Virological failure Drug-related clinical adverse ever CNS symptoms* 	ARV-naï patients 65 8 n (%) 18 (28)	n=12 n=9 n=3 n=1 n=1 n=1 n=1 n=1 n=1 n=1 1	All patients 86	DyspneaCutaneous reactionRashUrticariaPruritCNS disorderVertigoSleep disorderEmotional labilitySomnolenceDepressionParanoid reactionDigestive systemAbdominal painDiarrheaMetabolic disorderLipodystrophyWeight increaseGynecomastyaGoutHyperamylasemiaSGOT elevationSGPT elevationHypercholesterolemiaHypertriglyceridemia	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 4 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YES YES YES YES YES YES YES YES YES YES
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 PI-experienced Genotype of proteat No mutation L63P L63P+A71T/A L10V+L63P+A V82I Table 3 : Patient atients enrolled atients discontinuing by Week 44 irological failure rug-related clinical adverse ever CNS symptoms* Cutaneous rash* Grade 4 dyslipidemia** rotocol violation ost to follow-up 	ARV-naï patients 65 8 n (%) 18 (28) 1 nt 6	n=12 n=9 n=3 n=1 n=1 n=1 n=1 n=1 n=1 n=1 1	All patients 86 21 (24) 1 7	DyspneaCutaneous reactionRashUrticariaPruritCNS disorderVertigoSleep disorderEmotional labilitySomnolenceDepressionParanoid reactionDigestive systemAbdominal painDiarrheaMetabolic disorderLipodystrophyWeight increaseGynecomastyaGoutHyperamylasemiaSGOT elevationSGPT elevationSGPT elevationHypertriglyceridemiaHypertriglyceridemiaMeningitisPyelonephritis	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 4 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YES YES YES YES YES YES YES YES YES YES
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 PI-experienced Genotype of protea No mutation L63P L63P+A71T/A L10V+L63P+A V82I Table 3 : Patients Atients enrolled Atients discontinuing by Week 44 rological failure rug-related clinical adverse ever CNS symptoms* Cutaneous rash* Grade 4 dyslipidemia** Totocol violation	ARV-naï patients 65 8 n (%) 18 (28) 1 nt 6	n=12 n=9 n=3 n=1 n=1 n=1 n=1 n=1 n=1 n=1 1	All patients 86 21 (24) 1 7	DyspneaCutaneous reactionRashUrticariaPruritCNS disorderVertigoSleep disorderEmotional labilitySomnolenceDepressionParanoid reactionDigestive systemAbdominal painDiarrheaMetabolic disorderLipodystrophyWeight increaseGynecomastyaGoutHyperamylasemiaSGOT elevationSGPT elevationSGPT elevationHypertriglyceridemiaHypertriglyceridemiaMeningitisPyelonephritis	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 4 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YES YES YES YES YES YES YES YES YES YES

At W48, the mean change from baseline in CD4 cell count (fig. 1) and HIV-RNA was + 238 cells/mm³ and $-3.00 \log_{10}$ cp/mL, respectively.

	- IO:
Analysis of pVL>400 copies/mL at Week 24 or Week 48	- vii
At Week 24	Adve
- Poor adherence n=1*	
- Slow responder n=1	com
(pVL<400 cp/mL at W28 and all subsequent controls; NB: baseline pVL>6 log ₁₀ cp/mL, pVL: 424 cp/mL at W24)	Of the
- Confirmed virologic failure (genotype: at screening: wild type virus ; at Week 16: K103N)	Adhe
- Blip n=2	- 5 c
(pVL at W24 : 885 and 1,472 cp/mL, respectively ; both patients with pVL < 50 cp/mL at W16 and W28)	- 2 0
At Week 48	(pre
- Poor adherence n=2**	Lipo
*genotype: wild type virus **genotype: wild type virus in 1 patient, K103N in the other one	• Rep
	- (

% patients with p	VL<400 cp/mL at W	eek 48 (ITT)	
- Naïve patients vs	pretreated patients (I	TT, NC/D/M=F)	-
71%	81%	p=0.359	-
- Baseline pVL> 100,00	0 cp/mL vs Baseline pVL	. ≤ 100,000 cp/mL	+No
78%	69%	p=0.351	48 co

SULTS

ek 28 weeks



Discontinuations : 21(24%) patients. Main reasons were :

- emerging adverse events (n=7)
- loss to follow-up (n=6),
- virological failure (at W24) (n=1).

erse event-related discontinuations occurred more frequently in the first 4 weeks (n=6) mpared to Week 4-24 (n=1) and to Week 24-48 (n=0)

e 7 events requiring discontinuations, 6 were attributed to EFV.

erence (patients' self-report) < 80% : at least one episode during follow-up, n= 43 (50%) did not complete the initial 24-week period for lost to follow-up or non adherence

2 discontinued the study between Week 24 and Week 48 for reasons unrelated to study drugs

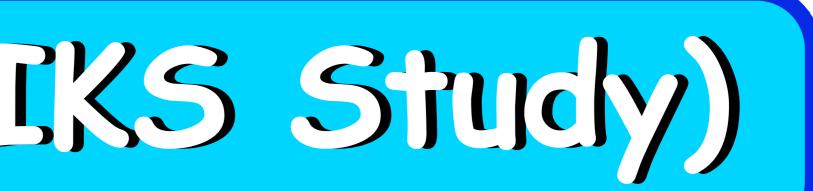
regnancy in one case and tuberculosis in the other case)

odystrophy assessment

eported during the study in 6 patients (5 were ARV-experienced at baseline)

- · 3 had a prior history of lipodystrophy and experienced subjective self-reported worsening of body changes,
- 2 developed lipodystrophy after 4 and 16 weeks of therapy, respectively.
- 1 naïve patient developed mild cheek lipoatrophy after 36 weeks of treatment

significant modification in waist/hip ratio of the total study population at Week 24 or Week 48 compared with baseline



DISCUSSION

	Virological success was achieved in a high proportion of patients continuing the study (table 4): At W24 + p)(1 < 400 cp/ml + 02% (AT) cpd 78% (ITT)
	- At W24 : pVL < 400 cp/mL : 93% (AT) and 78% (ITT) - At W48 : pVL < 50 cp/mL $$: 91% (AT) and 69% (ITT)
	Virological failure was documented in 4 patients, of whom 3 were non adherent.
	 Among patients with detectable pVL at W24 or W48, genotypic testing showed : Absence of emergence of protease resistance mutations Emergence of K103N resistance mutation in 2 cases
	Most of discontinuations were not related to drug-related adverse events nor virological failure (table 3).
	AE-related discontinuations occurred in 8% of the patients, mostly early.
	Most common treatment-related clinical grade 3 adverse events were CNS symptoms and cutaneous reactions, all related to EFV (table 5).
	Incidence of Grade 3 gastro-intestinal intolerance was low (3.4 %).
	♦After an initial increase at W4, fasting triglycerides and total cholesterol remained stable (mean change from baseline +1.25 and +0.58 g/L at W48, respectively) (<i>fig. 2</i>).
	CONCLUSION
	CONCLUSION This pilot study has proven the concept of a NRTI- sparing regimen combining LPV/r and EFV.
	 This pilot study has proven the concept of a NRTI-sparing regimen combining LPV/r and EFV. At Week 48, LPV/r 533/133 mg bid + EFV 600 mg qd was associated with a high rate of virological success
S	 This pilot study has proven the concept of a NRTI-sparing regimen combining LPV/r and EFV. At Week 48, LPV/r 533/133 mg bid + EFV 600 mg qd was associated with a high rate of virological success and sustained immunological response. Comparative studies are needed to assess the role of NNRTI-PI/r dual combination in today's ARV