Study Synopsis

1. Proprietary Drug Name	2. <u>Generic Drug Nam</u>	<u>ie</u>	3. Therapeutic Area/ Indication								
CRIXIVAN®	Indinavir Sulfate		Infectious Disease/HIV								
A Name of Grandond/Comment	Merck & Co. Inc. Wh	vitebouse St	ation New Jersey USA								
4. <u>Name of Sponsor/Company</u> :		intenouse st	auon, new sersey, OSA								
5. <u>Title of Study</u> : A Multicenter, Open-Label, Randomized Study to Compare the Efficacy and Safety of Indinavir 800 mg b.i.d. Plus Ritonavir 100 mg b.i.d. Plus Two NRTIs vs. Nelfinavir 1250 mg b.i.d. Plus Two NRTIs in HIV-1 Seropositive Patients Who Have Failed Or Are Intolerant to an NNRTI Containing Regimen (Protocol 112)											
6. <u>Study Investigators/Study cent</u>	re(s): A total of 38 center	s in the Unit	ed States participated in the study.								
Nu	umber of Patients Enter	ed by Invest	gator								
	IDV/RTV	NEV	-								
	800/100 mg bid	1250 mg	Total								
Site number	(N=48)	(N=49	(N=97)								
112002	2	0	2								
112004	1	0	1								
112007	1	1	2								
112009	2	1	3								
112012	1	1	2								
112014	1	0	1								
112016	1	2	3								
112019	1	1	2								
112020	1	0	1								
112023	0	1	1								
112026	2	2	4								
112027	0	1	1								
112029	0	1	1								
112037	1	1	2								
112038	1	1	2								
112042	1	0	1								
112043	1	2	3								
112044	1	0	1								
112049	1	1	2								
112051	0	1	1								
112052	7	8	15								

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112062	1	0	1	
112002	1	U	1	
112065	0	1	1	
112066	1	1	2	
112067	1	1	2	
112068	1	0	1	
112071	8	8	16	
112073	0	1	1	
112075	1	0	1	
112076	1	0	1	
112080	1	2	3	
112084	1	0	1	
112088	0	1	1	
112089	1	2	3	
112090	0	1	1	
112095	1	1	2	
112096	2	1	3	
112099	2	4	6	
7. Study period (years): 11-Jan-2	001 to 30-May-2003	8. Phase of dev	elopment : IIb	

9. <u>Primary Hypothesis</u>

In HIV-1 infected patients who have failed or are intolerant to an NNRTI-containing regimen, indinavir 800 mg plus ritonavir 100 mg b.i.d. plus 2 NRTIs will be at least as effective as nelfinavir 1250 mg b.i.d. plus 2 NRTIs with respect to the proportion of patients with plasma viral RNA < 400 copies/mL after 24 weeks of randomized therapy. Indinavir plus ritonavir will be considered at least as effective as nelfinavir if the lower bound of the 95% confidence interval for the difference in proportions (indinavir/ritonavir minus nelfinavir) excludes differences as large as -12 percentage points.

If the above can be established, the following will be evaluated:

In HIV-1 infected patients who have failed or are intolerant to an NNRTI-containing regimen, indinavir 800 mg plus ritonavir 100 mg b.i.d. plus 2 NRTIs will be superior to nelfinavir 1250 mg b.i.d. plus 2 NRTIs with respect to the proportion of patients with plasma viral RNA < 400 copies/mL after <u>24 weeks</u> of randomized therapy. Indinavir plus ritonavir will be considered superior to nelfinavir if the lower bound of the 95% confidence interval for the difference in proportions (indinavir/ritonavir minus nelfinavir) is greater than 0 and the upper bound of the confidence interval is greater than 12 percentage points.

Secondary Hypothesis

In HIV-1 infected patients who have failed or are intolerant to an NNRTI-containing regimen, indinavir 800 mg plus ritonavir 100 mg b.i.d. plus 2 NRTIs will be at least as effective as nelfinavir 1250 mg b.i.d. plus 2 NRTIs with respect to the proportion of patients with plasma viral RNA < 400 copies/mL after <u>48 weeks</u> of randomized therapy. Indinavir plus ritonavir will be considered at least as effective as nelfinavir if the lower bound of the 95% confidence interval for the difference in proportions (indinavir/ritonavir minus nelfinavir) excludes differences as large as -12 percentage points.

If the above can be established, the following will be evaluated:

In HIV-1 infected patients who have failed or are intolerant to an NNRTI-containing regimen, indinavir 800 mg plus ritonavir 100 mg b.i.d. plus 2 NRTIs will be superior to nelfinavir 1250 mg b.i.d. plus 2 NRTIs with respect to the proportion of patients with plasma viral RNA < 400 copies/mL after <u>48 weeks</u> of randomized therapy. Indinavir plus ritonavir will be considered superior to nelfinavir if the lower bound of the 95% confidence interval for the difference in proportions (indinavir/ritonavir minus nelfinavir) is greater than 0 and the upper bound of the 95% confidence interval is greater than 12 percentage points.

- 2. The proportion of patients with plasma viral RNA < 50 copies/mL in the indinavir 800 mg/ritonavir 100 mg b.i.d. treatment group will be similar to that observed in the nelfinavir 1250 mg b.i.d. treatment group.
- 3. The changes from baseline in CD4 cell counts in the indinavir 800 mg/ritonavir 100 mg b.i.d. treatment group will be similar to that observed in the nelfinavir 1250 mg b.i.d. treatment group.

4. The two regimens will have a similar safety/tolerability profile, as judged by (a) the incidence of patients with serious, drug-related adverse experiences and (b) the incidence of patients that discontinue study due to drug-related adverse experiences.

10. <u>Study Design/Methodology</u>: Multicenter, open-label, randomized, 48-week two-treatment, parallel study with non-inferiority (nested superiority) design. Patients were stratified based on NNRTI failure vs. intolerability to NNRTIs.

11. <u>Number of patients (planned and analyzed)</u>:

There were 330 patients planned and 97 patients enrolled. Enrollment was difficult as new therapies became available during the course of the study. The study was stopped after the 18-month planned enrollment period because of slow enrollment.

12. Diagnosis and main criteria for inclusion:

Adult patients must have been HIV-1 seropositive. Patients must have initially responded to, then subsequently failed, an NNRTI regimen, or they had never responded to an NNRTI regimen, or they were intolerant to an NNRTI. Patients who failed or had never responded to an NNRTI regimen must have had a pre-study viral load \geq 2,000 copies/mL. Patients who were intolerant to an NNRTI regimen could enroll with any viral load. Patients must have had a CD4 count \geq 50 cells/mm³.

13. Test and reference therapy (if applicable) product, dose and mode of administration, batch number:

Patients were stratified by NNRTI use and randomized to receive one of the following treatments:

Group 1: indinavir 800 mg plus ritonavir 100 mg b.i.d. plus 2 NRTIs*

Group 2: nelfinavir 1250 mg b.i.d. plus 2 NRTIs*

* The choice of NRTIs was determined by the investigator based on the results of the phenotypic and genotypic susceptibility or based on previous history of previous antiretroviral therapy. When using history to chose NRTI therapy, agent (s) were to be selected that had a different susceptibility pattern from other drugs to which the patient had been exposed, when possible.

14. <u>Duration of treatment</u>: 48 weeks

15<u>. Criteria for evaluation:</u>

Efficacy: CD4 cell counts and plasma viral RNA were measured at screen 1, Pre-treatment- Day 1, Weeks 2, 4, 8, 12, 16, 20, 24, 32, 40, and 48.

<u>Safety</u>: Physical examination and laboratory tests of blood and urine were performed at screen 2, Pretreatment – Day 1, Weeks 2, 4, 8, 12, 16, 20, 24, 32, 40, and 48. A chest x-ray was done before the study.

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Copyright © 2005 Merck & Co., Inc., Whitehouse Station, New Jersey, USA All Rights Reserved **16**. <u>Statistical methods</u>: The primary efficacy analysis was based on the intent-to-treat approach, which included all randomized patients in the groups to which they were randomly assigned, regardless of their adherence with the entry criteria, the treatment they actually received, and subsequent withdrawal from treatment or deviation from the protocol.

1)Percentage of Patients with Plasma Viral RNA Below Specified Levels

The proportion of patients with vRNA below the specified levels was to be estimated for each treatment group at each time point, along with corresponding 95% confidence intervals. Treatment differences and 95% confidence intervals were also estimated at each time point.

Estimation was done using three different approaches. The primary approach was "Model Based," which applied a simple generalized estimating equation (GEE) model. This GEE model-based approach estimated the proportions of patients responding based on the observed data, with the therapy-related withdrawals counted as failures (i.e., vRNA above specified level), missing completely at random assumed for other patients with missing data, and an assumed autoregressive AR(1) correlation among the repeated measurements over time. A second approach was "Data As Observed" and used all observed data, i.e., ignoring dropouts. A third approach was the "Dropout=Failure" approach, where all missing values due to dropouts were assumed to be failures.

2) Changes from Baseline in Plasma Viral RNA and CD4 Cell Counts

In the analysis of the changes from baseline in vRNA and absolute CD4 cell counts, changes were calculated for each patient, and routine summary statistics were provided at each time point. A "Model Based" approach was used, where values that were missing due to therapy-related discontinuations were imputed using the last observation carried forward (LOCF) method. Estimation was done using a generalization of analysis of covariance, which allows for correlation and non-constant variability in longitudinal data. An AR(1) covariance structure was used, and the model was fit to the data using the method of restricted maximum likelihood (REML).

Estimation was also done using data as observed, with an analysis of covariance model including terms for treatment and the baseline covariate. Ninety-five percent confidence intervals about the differences between treatment groups in the changes from baseline were calculated at each time point.

17. <u>SUMMARY</u>

Patient Accounting

Although expected to enroll approximately 330 patients, this study was discontinued early due to poor enrollment. Ninety-seven (97) patients were randomized, with 48 randomized to indinavir/ritonavir and 49 randomized to nelfinavir (Table 1).

Table 1

				C		
	IDV/R1	V 800/100 mg	NFV	1250 mg bid		Total
		bid				
	n	ଚ	n	8	n	8
SCREENING FAILURES					55	
RANDOMIZED	48		49		97	
Male (age range)	37	(28 to 73)	35	(21 to 62)	72	(21 to 73)
Female (age range)	11	(28 to 62)	14	(25 to 64)	25	(25 to 64)
COMPLETED	24	(50.0)	26	(53.0)	50	(51.5)
DISCONTINUED	24	(50.0)	23	(46.9)	47	(48.4)
clinical AE	9	(18.7)	3	(6.1)	12	(12.3)
laboratory AE	3	(6.2)	0	(0.0)	3	(3.1)
lack efficacy	1	(2.1)	4	(8.2)	5	(5.2)
lost to follow-up	5	(10.4)	5	(10.2)	10	(10.3)
pat. discont. for other	2	(4.2)	0	(0.0)	2	(2.1)
pat. Moved	0	(0.0)	3	(6.1)	3	(3.1)
pat. withdrew consent	2	(4.2)	6	(12.2)	8	(8.2)
protocol dev	2	(4.2)	2	(4.1)	4	(4.1)

Patient Accounting

EFFICACY RESULTS:

At baseline, 12.5% of indinavir/ritonavir patients and 16.3% of nelfinavir patients had vRNA < 400 copies/mL. From the model based approach at Week 24, 63.0% of indinavir/ritonavir patients and 60.9% of nelfinavir patients had vRNA < 400 (Table 2). The estimated treatment difference was 2.1% with a 95% confidence interval of -19.0 to 23.1. By Week 48, this treatment difference decreased to 0.6% (48.7% for indinavir/ritonavir versus 48.1% for nelfinavir, CI = -22.9% to 24.0%).

Table 2 Percentage Of Patients with viral RNA < 400 Copies/mL (Amplicor Assay) Model Based Approach

				Trea	atment					
Time	Ind	inavir	+Ritonavir		Nelf:	inavir	Estimate	Bstimated		
Point	N*	do	(95% CI)	N*	dia No	(95% CI)		95% CI)+		
Week 0	48	12.5	(5.7,25.2)	49	16.3	(8.4,29.4)	-3.8	(-17.8,10.		
Week 2	43	38.9	(25.9,53.6)	44	31.3	(19.8,45.7)	7.5	(-11.8,26.		
Week 4	44	55.4	(41.0,69.0)	44	51.8	(37.8,65.6)	3.6	(-16.7,23.		
Week 8	45	65.7	(51.0,77.9)	45	54.2	(39.8,67.9)	11.5	(-8.4,31.		
Week 12	43	64.1	(49.2,76.7)	41	61.5	(46.8,74.3)	2.6	(-17.3,22.		
Week 16	39	55.8	(40.5,70.1)	39	60.0	(45.2,73.3)	-4.3	(-25.3,16.		
Week 20	38	64.8	(49.1,77.8)	37	63.8	(48.4,76.8)	1.0	(-19.7,21.		
Week 24	39	63.0	(47.4,76.3)	35	60.9	(45.5,74.5)	2.1	(-19.0,23.		
Week 32	38	44.6	(30.0,60.2)	33	59.9	(44.1, 73.9)	-15	(-37.1,6.6		
Week 40	37	52.3	(36.7,67.4)	34	49.5	(33.7,65.4)	2.8	(-20.0,25.		
Week 48	36	48.7	(33.3,64.3)	30	48.1	(31.8,64.8)	0.6	(-22.9,24.		

 $\mathbb{N}^\star\colon$ Number of patients with available data at indicated time point. CI=Confidence Interval

(95% CI)+: The 95% CI interval for estimated difference of proportions is generated from the delta method applied to GEE estimates.

Using the data-as-observed approach, the Week 24 estimates were 80.6% for indinavir/ritonavir and 66.7% for nelfinavir (Table 3). The treatment difference was 14.0% (CI = -7.7% to 33.8%).

Table 3 Percentage of Patients with viral RNA < 400 Copies/mL (Amplicor Assay) Data As Observed

_								
	Indina	avir+P	Ritonavir	N	elfina	avir		
Point _	n / N1*	8	(95% CI)	n / N2*	ş	(95% CI)	Difference	(95% CI)+
Week O	6/48	12.5	(4.7,25.2)	8/49	16.3	(7.3,29.7)	-3.8	(-18.2,10.7)
leek 2	17/39	43.6	(27.B,60.4)	13/41	31.7	(18.1,48.1)	11.9	(-9.0, 31.5)
leek 4	24/42	57.1	(41.0, 72.3)	23/43	53.5	(37.7,68.8)	3.7	(-16.8,23.7)
leek B	30/43	69.B	(53.9,82.8)	25/44	56.8	(41.0, 71.7)	12.9	(-7.1, 31.6)
leek 12	28/39	71.B	(55.1, 85.0)	25/38	65.8	(48.6,80.4)	6.0	(-14.3,25.7)
leek 16	23/33	69.7	(51.3, 84.4)	23/36	63.9	(46.2,79.2)	5.8	(-16.0, 26.6)
eek 20	24/30	80.0	(61.4, 92.3)	22/32	68.8	(50.0,83.9)	11.3	(-10.6, 31.5)
eek 24	25/31	80.6	(62.5, 92.5)	22/33	66.7	(48.2,82.0)	14.0	(-7.7, 33.8)
leek 32	17/26	65.4	(44.3, 82.8)	20/30	66.7	(47.2, 82.7)	-1.3	(-25.1, 22.2)
leek 40	19/23	82.6	(61.2,95.0)	18/30	60.0	(40.6, 77.3)	22.6 (-2.4, 43.1
leek 48	17/23	73.9	(51.6,89.8)	16/23	69.6	(47.1, 86.8)	4.3	(-20.9, 28.9)
I*: Numb !I=Confi (95% CI) Vilson's	er of pat dence In +: The 9 Score M	ients erval 5% CI ethod.	s with availabl I interval for e	e data at stimated d	indic: iffer(ated time point ence of proport	t. tions is gen	erated by th

Page 6 of 14 Copyright © 2005 Merck & Co., Inc., Whitehouse Station, New Jersey, USA All Rights Reserved From the dropout=failure approach, the estimates were 52.1% for indinavir/ritonavir and 44.9% for nelfinavir, with a treatment difference of 7.2% (CI = -12.3% to 25.9%) (Table 4).

Table 4

Percentage of Patients with viral RNA < 400 Copies/mL (Amplicor Assay) Dropout=Failure Approach

Treatment

Tima		Indinav	/ir+Rit	onavir	1	Melfina	vir	Votimated	
Poin	t –	n / N1*	8	(95% CI)	n / N2	2* 동	(95% CI)	Difference	(95% CI)+
Week	D	6/4B	12.5	(4.7,25.2)	8/49	16.3	(7.3,29.7)	-3.8	(-18.2,10.
Week	2	17/4B	35.4	(22.2, 50.5)	13/48	27.1	(15.3,41.B)	8.3	(-10.0,26.0
Week	4	24/47	51.1	(36.1,65.9)	23/49	46.9	(32.5,61.7)	4.1	(-15.3,23.3
Week	в	30/4B	62.5	(47.4, 76.0)	25/49	51.0	(36.3,65.6)	11.5	(-8.0,29.6
Week	12	28/47	59.6	(44.3, 73.6)	25/48	52.1	(37.2,66.7)	7.5	(-12.1,26.3
Week	16	23/47	48.9	(34.1,63.9)	23/48	47.9	(33.3,62.B)	1.0	(-18.4,20.3
Week	20	24/46	52.2	(36.9,67.1)	22/46	47.8	(32.9,63.1)	4.3	(-15.5,23.3
Week	24	25/4B	52.1	(37.2,66.7)	22/49	44.9	(30.7,59.B)	7.2	(-12.3,25.9
Week	32	17/4B	35.4	(22.2, 50.5)	20/48	41.7	(27.6,56.B)	-6.2	(-24.7,12.8
Week	40	19/4B	39.6	(25.8,54.7)	18/49	36.7	(23.4, 51.7)	2.8	(-16.0,21.4
Nook	4 B	17/4B	35.4	(22.2, 50.5)	16/49	32.7	(19.9, 47.5)	2.8	(-15.6, 21.0)

The three approaches are compared graphically in Figure 1



At baseline, 6.2% of indinavir/ritonavir patients and 10.2% of nelfinavir patients had vRNA < 50 copies/mL. From the model based approach at Week 24, 50.3% of indinavir/ritonavir patients and 46.4% of nelfinavir patients had vRNA < 50 (Table 5). The estimated treatment difference was 3.9% with a 95% confidence interval of -18.4% to 26.1%

Table 5

Percentage of Patients with viral RNA < 50 Copies/mL (Ultra-Sensitive Assay) Model Based Approach

T d ma		Ind	linavir	+Ritonavir		N	elfinavir	Estimated	
Point		N*	8	(95% CI)	N*	8	(95% CI)	Difference	(95% CI)+
Week (D	48	6.2	(2.0,17.7)	49	10.2	(4.3,22.3)	-4.0	(-14.9,6.9)
Week 2	2	45	8.5	(3.2,20.7)	45	15.6	(7.9,28.5)	-7.1	(-20.0,5.9)
Week 4	4	44	15.7	(7.7,29.3)	45	22.5	(12.B,36.5)	-6.8	(-22.7,9.1)
Week B	В	45	37.4	(24.7,52.1)	45	28.2	(17.1,42.8)	9.1	(-10.0,28.3
Week 1	12	43	45.4	(31.4,60.1)	41	39.4	(26.3,54.2)	6.0	(-14.6,26.6
Week 1	16	39	41.9	(27.9,57.3)	39	50.0	(35.2,64.8)	-8.1	(-29.6,13.4
Week 2	20	38	43.6	(29.3,59.1)	37	47.2	(32.4,62.6)	-3.6	(-25.5, 18.3)
Week 2	24	39	50.3	(35.2,65.2)	35	46.4	(31.2,62.2)	3.9	(-18.4,26.1
Week 3	32	38	31.7	(19.1, 47.8)	33	41.7	(27.1, 57.9)	-10	(-31.6,11.7
Week 4	40	37	40.1	(26.0,56.1)	34	28.1	(15.6,45.2)	12.0	(-9.7,33.6
Week 4	4В	36	39.6	(25.3,55.9)	30	32.0	(18.2,50.0)	7.6	(-15.2,30.3
N*: Ni CI-Cot	umbe	er of	patien Interv	ts with availa	ble dat	a at in	dicated time p	oint.	
(95% (CI) 4	: The	95% C	I interval for	estima	ted dir	ference of pro	portions is a	enerated fr
the de	e1ta	meth	nd are	lied to GEE es	timates		researce or proj		
		i ure cu	iou app	TTER CO OPP 69	crimacea				

Page 8 of 14 Copyright © 2005 Merck & Co., Inc., Whitehouse Station, New Jersey, USA All Rights Reserved Using the data-as-observed approach, the Week 24 estimates were 64.5% for indinavir/ritonavir and 48.5% for nelfinavir (Table 6). The treatment difference was 16.0% (CI = -7.9% to 37.5%).

Table 6

Percentage of Patients with viral RNA < 50 Copies/mL (Ultra-Sensitive Assay) Data As Observed

Treatment

Time	Indinavir+Ritonavir ime			onavir		Nelfin	avir	Ratimated	
Point	_	n / N1	1* %	(95% CI)	n / N2	2* %	(95% CI)	Difference	(95% CI)+
Week 0)	3/48	6.3	(1.3,17.2)	5/49	10.2	(3.4,22.2)	-4.0	(-16.2,8.1)
Week 2	2	4/39	10.3	(2.9, 24.2)	7/41	17.1	(7.2, 32.1)	-6.8	(-22.3,9.0)
Week 4		7/42	16.7	(7.0,31.4)	10/43	23.3	(11.8,38.6)	-6.6	(-23.3,10.6)
Week B	8	17/43	39.5	(25.0,55.6)	13/44	29.5	(16.8, 45.2)	10.0	(-9.7, 28.7)
Week 1	2	20/39	51.3	(34.8,67.6)	16/38	42.1	(26.3,59.2)	9.2	(-12.6,29.B)
Week 1	.6	17/33	51.5	(33.5,69.2)	19/36	52.8	(35.5,69.6)	-1.3	(-23.6, 21.2)
Week 2	20	16/30	53.3	(34.3, 71.7)	15/32	46.9	(29.1, 65.3)	6.5	(-17.5, 29.4)
Week 2	4	20/31	64.5	(45.4,BO.B)	16/33	48.5	(30.8,66.5)	16.0	(-7.9, 37.5)
Week 3	2	12/26	46.2	(26.6,66.6)	13/30	43.3	(25.5, 62.6)	2.8	(-21.8, 27.2)
Week 4	0	15/23	65.2	(42.7,83.6)	10/30	33.3	(17.3, 52.8)	31.9	(4.8, 53.2)
Week 4	в	14/23	60.9	(38.5,80.3)	10/23	43.5	(23.2,65.5)	17.4	(-10.7,42.0)

N*: Number of patients with available data at indicated time point.

CI-Confidence Interval

(95% CI)+: The 95% CI interval for estimated difference of proportions is generated by the Wilson's Score Method.

From the dropout=failure approach, the estimates were 41.7% for indinavir/ritonavir and 32.7% for nelfinavir, with a treatment difference of 9.0% (CI = -9.9 to 27.1) (Table 7).

Table 7

Percentage of Patients with viral RNA < 50 Copies/mL (Ultra-Sensitive Assay) Dropout=Failure Approach

		Tradic		<u></u>					
ľime		Indir	avir+R	itonavir	Nel	rinavi	r	Rstimated	
Point		n / N1*	ł	(95% CI)	n / N2*	8	(95% CI)	Difference	(95% CI)+
Week (D	3/48	6.3	(1.3,17.2)	5/49	10.2	(3.4,22.2)	-4.0	(-16.2,8.1)
Neek 2	2	4/48	в.3	(2.3, 20.0)	7/49	14.3	(5.9, 27.2)	-6.0	(-19.3, 7.4)
Week 4	4	7/48	14.6	(6.1,27.B)	10/49	20.4	(10.2, 34.3)	-5.8	(-21.0, 9.6)
Week R	в	17/48	35.4	(22.2, 50.5)	13/49	26.5	(14.9, 41.1)	8.9	(-9.3,26.4
Week 1	12	20/48	41.7	(27.6,56.B)	16/49	32.7	(19.9, 47.5)	9.0	(-9.9,27.1
Week 1	16	17/48	35.4	(22.2, 50.5)	19/49	38.8	(25.2, 53.8)	-3.4	(-21.8,15.4
Week 2	20	16/47	34.0	(20.9, 49.3)	15/46	32.6	(19.5, 48.0)	1.4	(-17.2,19.9
Week 2	24	20/48	41.7	(27.6,56.B)	16/49	32.7	(19.9, 47.5)	9.0	(-9.9,27.1
Neek 3	32	12/48	25.0	(13.6,39.6)	13/48	27.1	(15.3, 41.8)	-2.1	(-19.3,15.3
Week 4	4 D	15/48	31.3	(18.7,46.3)	10/49	20.4	(10.2, 34.3)	10.8	(-6.6,27.5
Week 4	4 B	14/48	29.2	(17.0, 44.1)	10/49	20.4	(10.2, 34.3)	8.8	(-B.4,25.4

Viral RNA decreased from baseline, as seen in the log_{10} vRNA values over time. In the model based approach at Week 24, mean values were 2.67 and 2.82, which is a change from baseline of -1.07 and -1.03 in the indinavir/ritonavir and nelfinavir groups, respectively (Table 8). The treatment difference was -0.04, with a 95% confidence interval of -0.37 to 0.29. At Week 48, the treatment difference was -0.34 (CI = -0.69 to 0.01).

					Ta	ble 8					
	Mean Change P	rom	Baseli	ne fro Model	m Base Based	line f Approa	or Logi ch	O HIV	RNA (Amplicor A	ввау)	
		P	aselin	e	Trea	tment	c	hange		VS.	Nelfinavir
Time Point	Treatment	N	Mean	SD	Mean	SD	Mean	SE	95% CI	DIFF	95% CI
Week 2	Indinavir+Ritonavir Nelfinavir	39 41	3.79 3.96	0.90 1.04	2.92 3.05	0.62	-0.88 -0.85	0.12	(-1.11,-0.65) (-1.07,-0.63)	-0.03	(-0.34,0.28)
Week 4	Indinavir+Ritonavir Nelfinavir	42 43	3.83 3.94	0.83 1.04	2.85 2.89	0.84 0.80	-0.97 -0.95	0.11 0.11	(-1.20,-0.75) (-1.16,-0.74)	-0.02	(-0.33,0.28)
Week B	Indinavir+Ritonavir Nelfinavir	43 44	3.79 3.85	0.85 1.01	2.78 2.86	0.84 0.88	-1.00 -0.96	0.11 0.11	(-1.23,-0.78) (-1.17,-0.74)	-0.05	(-0.36,0.26)
Week 12	Indinavir+Ritonavir Nelfinavir	42 39	3.81 3.94	0.88 1.04	2.84 2.79	0.97 0.77	-0.96 -1.07	0.11 0.11	(-1.19,-0.74) (-1.29,-0.85)	0.11	(-0.20,0.42)
Week 16	Indinavir+Ritonavir Nelfinavir	38 37	3.80 3.91	0.86 1.07	2.75 2.81	0.81 0.72	-0.93 -1.04	0.12 0.11	(-1.16,-0.70) (-1.26,-0.82)	0.11	(-0.21,0.43)
Week 20	Indinavir+Ritonavir Nelfinavir	36 34	3.76 3.93	0.84 1.06	2.66 2.87	0.75 0.87	-1.08 -0.99	0.12	(-1.31,-0.84) (-1.22,-0.77)	-0.08	(-0.41,0.25)
Week 24	Indinavir+Ritonavir Nelfinavir	38 35	3.75 3.84	0.82 1.02	2.67 2.82	0.77 0.77	-1.07 -1.03	0.12	(-1.30,-0.83) (-1.26,-0.79)	-0.04	(-0.37,0.29)
Week 32	Indinavir+Ritonavir Nelfinavir	37 32	3.75 3.83	0.83 1.04	2.69 2.91	0.80 0.87	-1.07 -0.89	0.12	(-1.31,-0.83) (-1.12,-0.65)	-0.18	(-0.52,0.16)
Week 40	Indinavir+Ritonavir Nelfinavir	34 34	3.75 3.84	0.84 1.03	2.52 2.94	0.63 0.85	-1.15 -0.88	0.12	(-1.40,-0.91) (-1.12,-0.64)	-0.27	(-0.61,0.07)
Week 48	Indinavir+Ritonavir Nelfinavir	35 30	3.77 3.85	0.85 1.07	2.66 2.97	0.74 0.87	-1.14 -0.79	0.12	(-1.38, -0.89) (-1.04, -0.54)	-0.34	(-0.69, 0.01

N: Number of contributing patients

Change: Mean and SE are estimates from the longitudinal analysis model including a term for the baseline covariate.

VS. Nelfinavir: Diff is the estimated difference of Indinavir+Ritonavir - Nelfinavir.

CD4 cell counts increased from baseline, with mean Week 24 increases of 50.84 cells for the indinavir/ritonavir group and 64.15 cells for the nelfinavir group in the model-based approach (Table 9). The treatment difference was -13.31, with a 95% confidence interval of -87.32 to 60.70. At Week 48, the mean increases from baseline were 127.12 cells for the indinavir/ritonavir group and 73.22 cells for the nelfinavir group, with a treatment difference of 53.90 (CI = -25.18 to 132.98).

	172311	- Cirai	ige rioi	Model	Based Ap	proach	1110 101		ii counce		
		I	Baseline		Treat	nent		Chang	e	VS	. Nelfinavir
Point	Treatment	N	Mean	SD	Mean	SD	Mean	SE	95% CI	DIFF	95% CI
Week 2	Indinavir+Ritonavir Nelfinavir	38 40	412.3 374.7	271 254	453.4 388.6	292 311	42.50 12.23	24.9 25.9	(-6.59,91.60) (-38.86,63.33)	30.27	(-40.37,100.91
Week 4	Indinavir+Ritonavir Nelfinavir	41 42	416.4 359.5	277 229	421.1 398.5	265 248	12.03 35.31	24.2 25.4	(-35.76,59.83) (-14.81,85.43)	-23.2B	(-92.32,45.77)
Week B	Indinavir+Ritonavir Nelfinavir	43 43	422.8 362.1	275 251	464.1 403.0	249 266	41.44 39.44	24.0 25.3	(-5.94,88.83) (-10.58,89.47)	2.00	(-66.69,70.69)
Week 12	Indinavir+Ritonavir Nelfinavir	42 38	427.3 388.9	277 254	509.0 427.6	305 243	82.22 36.60	24.2 26.1	(34.46,129.99) (-14.91,88.11)	45.62	(-24.42,115.67
Week 16	Indinavir+Ritonavir Nelfinavir	39 36	434.0 374.6	281 267	508.4 465.3	292 300	72.53 82.82	24.7 26.7	(23.64,121.41) (30.17,135.46)	10.29	(-81.95,61.37)
Week 20	Indinavir+Ritonavir Nelfinavir	34 33	422.4 370.2	291 256	502.2 435.8	317 248	78.07 82.74	25.7 27.5	(27.32,128.81) (28.49,136.99)	-4.67	(-78.78,69.44)
Week 24	Indinavir+Ritonavir Nelfinavir	38 36	438.6 378.5	283 260	491.3 442.9	320 280	50.84 64.15	25.5 27.5	(0.37,101.30) (9.76,118.54)	13.31	(-87.32,60.70)
Week 32	Indinavir+Ritonavir Nelfinavir	37 30	438.1 352.4	287 245	538.7 455.2	322 258	99.53 97.21	25.9 28.8	(48.44,150.62) (40.34,154.09)	2.32	(-73.95,78.59)
Week 40	Indinavir+Ritonavir Nelfinavir	35 34	450.1 372.5	291 266	535.3 461.1	314 278	84.30 85.04	26.3 28.5	(32.33,136.27) (28.69,141.39)	-0.74	(-77.21,75.72)
Week 48	Indinavir+Ritonavir Nelfinavir	34 29	451.6 387.0	296 280	578.6 457.5	326 278	127.12 73.22	26.7 29.9	(74.30,179.94) (14.11,132.34)	53.90	(-25.18,132.98

Table 9

Change: Mean and SE are estimates from the longitudinal analysis model including a term for the baseline covariate. VS. Nelfinavir: Diff is the estimated difference of Indinavir+Ritonavir - Nelfinavir.

SAFETY RESULTS:

Nearly all patients experienced at least one clinical adverse experience (92% in indinavir/ritonavir group and 86% in the nelfinavir group) (Table 10). Many experiences were considered drug-related, with a total of 69% of patients in the indinavir/ritonavir group and 45% of the patients in the nelfinavir group reporting at least one adverse experience considered to be drug-related by the investigator. In the indinavir/ritonavir group, 2 patients had adverse events of renal calculus, 2 had nephrolithiasis, 1 patient had a ureteric calculus, and 1 patient had a kidney stone. No patient in the nelfinavir group had an adverse event of kidney stone or nephrolithiasis.

	IDV/RTV 8	00/100 mg bid	NFV 1250 m	ıg bid
	(N=48)		(N=49)	
	Ν	(%)	n	(%)
Number (%) of patients:				
With one or more adverse experiences	44	(91.7)	42	(85.7)
With no adverse experience	4	(8.3)	7	(14.3)
With drug-related adverse experiences†	33	(68.8)	22	(44.9)
With serious adverse experiences	8	(16.7)	5	(10.2)
With serious drug-related adverse experiences	4	(8.3)	1	(2.0)
Who died	1	(2.1)	1	(2.0)
Discontinued due to adverse experiences	9	(18.8)	3	(6.1)
Discontinued due to drug-related adverse experiences	9	(18.8)	2	(4.1)
Discontinued due to serious adverse experiences	3	(6.3)	2	(4.1)
Discontinued due to serious drug-related adverse experiences	3	(6.3)	1	(2.0)

Table 10 Clinical Adverse Experience Summary

[†] Determined by the investigator to be possibly, probably or definitely drug related.

There were 4 patients (8.3%) with serious drug-related clinical adverse experiences in the indinavir/ritonavir group, compared to 1 patient (2.0%) in the nelfinavir group. This treatment difference of 6.3% was not statistically significant (CI = -3.7% to 17.6%, p=0.204) (Table 11). Nine patients (18.8%) discontinued due to a drug-related adverse experience in the indinavir/ritonavir group, compared to 2 patients (4.1%) in the nelfinavir group. This treatment difference of 14.7% was statistically significant (CI = 1.8 to 28.2%, p=0.028).

Indinavir+Ritonavir Nelfinavir								
linical Adverse xperience	n	ł	п	8	D1: (95	ifference 95% CI)+		P-Value@
erious Drug-Related dverse Experience	4	8.3%	1	2.0%	6.3	(-3.7,1	7.6)	0.204
iscontinued due to rug-Related AE	9	18.8%	2	4.1%	14.3	7 (1.8,28	.2)	0.028
ere were 35% in the indinav pratory adverse laboratory e artate aminotransferase (AS 0% in the nelfinavir group	ir/ritonavi event (Tab T; 8% in).	ir group and ble 12). Thes each treatmo	23% in the se were generation of the second s second second s	ne nelfin nerally i and bil	avir gro related t irubin (oup who ex to blood ch 13% in the	perien emistri indina	ced at least ies, with inc wir/ritonavi
			Table 1	2				
			Table 1.					
	La	aboratory Ad	lverse Exp	erience	Summar	У		
	La	aboratory Ad	iverse Exp	erience	Summar IDV/RTV	y 800/100	NFV	1250 mg bi
	La	aboratory Ad	lverse Exp	erience	Summar IDV/RTV mg	y 800/100 biđ	NFV	1250 mg bi
	La	aboratory Ad	lverse Exp	erience	Summar IDV/RTV mg (N=48)	y 800/100 bid	NFV (N=4	1250 mg bi
Number (%) of	La patients	aboratory Ad	lverse Exp	- erience	Summar IDV/RTV mg (N=48) n	y 800/100 biđ (%)	NFV (N=4 n	1250 mg bi 19) (%)
Number (%) of With at least	La patients: one labor	aboratory Ad : ratory test	lverse Exp	- erience	Summar IDV/RTV mg (N=48) n 48	y 800/100 bid (%)	NFV (N=4 n 48	1250 mg bi 19) (%)
Number (%) of With at least With one or mo	La patients: one labor ore advers	aboratory Ad : ratory test se experienc	postbasel	erience line	Summar IDV/RTV mg (N-48) n 48 17	y 800/100 bid (%) (35.4)	NPV (N-4 n 48 11	1250 mg bi (%) (%)
Number (%) of With at least With one or mo With no advers	La patients: one labor ore advers se experis	aboratory Ad : ratory test se experienc ence	postbasel	- berience	Summar IDV/RTV mg (N=48) n 48 17 31	y bid (%) (35.4) (64.6)	NFV (N=4 n 48 11 37	1250 mg bi (%) (%) (22.9) (77.1)
Number (%) of With at least With one or mo With no advers With drug-rela	La patients: one labou pre advers se experis sted adver	aboratory Ad : ratory test se experience ence rse experien	postbasel ces	- merience	Summar IDV/RTV mg (N=48) n 48 17 31 12	y bid (%) (35.4) (64.6) (25.0)	NFV (N-4 n 48 11 37 6	1250 mg bi (%) (%) (22.9) (77.1) (12.5)
Number (%) of With at least With one or mo With no advers With drug-rels With serious a	La patients: one labor ore advers me experie sted advers dverse ex	aboratory Ad : ratory test se experience rse experien xperiences	postbase) ces	- berience	Summar IDV/RTV mg (N=48) n 48 17 31 12 0	y bid (%) (35.4) (64.6) (25.0) (0.0)	NFV (N-4 11 37 6 0	1250 mg bi (%) (%) (22.9) (77.1) (12.5) (0.0)
Number (%) of With at least With one or mo With no advers With drug-rels With serious a With serious a	La patients: one labor ore advers de experis ited adver dverse ex irug-relat	aboratory Ad ratory test se experienc ence rse experien xperiences ted adverse	postbasel ces experienc	erience line	Summar IDV/RTV mg (N=48) n 48 17 31 12 0 0	y bid (%) (35.4) (64.6) (25.0) (0.0) (0.0)	NPV (N=4 n 48 11 37 6 0 0	1250 mg b1 (%) (%) (22.9) (77.1) (12.5) (0.0) (0.0)
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Number (%) of With at least With one or mo With no advers With drug-rela With serious a With serious d Who died Discontinued d experiences	La patients: one labor ore advers de experie dverse ex lug-relat lug to adv lue to adv	aboratory Ad : ratory test se experiences rse experiences ted adverse verse experi ug-related ;	postbasel ces ncest experienc lences adverse	erience line	Summar IDV/RTV mg (N=48) n 48 17 31 12 0 0 0 3 2	y 800/100 bid (%) (35.4) (64.6) (25.0) (0.0) (0.0) (0.0) (6.3) (4.2)	NPV (N=4 1 37 6 0 0 0 0	1250 mg b1 (%) (%) (22.9) (77.1) (12.5) (0.0) (0.0) (0.0) (0.0) (0.0)
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Number (%) of With at least With one or mo With no adverse With drug-rela With serious a With serious a With serious d Discontinued d Discontinued d Discontinued d Discontinued d	La patients: one labor ore advers de experie de experies de experies d	aboratory Ad ratory test se experience rse experiences ted adverse verse experi ug-related a rious advers	postbasel ces nces; experienc iences adverse se experié related	erience line ces	Summar IDV/RTV mg (N=48) n 48 17 31 12 0 0 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y 800/100 bid (%) (35.4) (64.6) (25.0) (0.0) (0.0) (0.0) (6.3) (4.2) (0.0) (0.0) (0.0)	NPV (N=4 1 48 11 37 6 0 0 0 0 0 0 0 0	1250 mg b1 (%) (%) (22.9) (77.1) (12.5) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)

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18 <u>. Date of the report</u> : September 6, 2005		
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