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# Maintenance Therapy Using Lopinavir/Ritonavir (LPV/r) Alone for Patients With Well-Controlled HIV-Infection

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### **Study Rationale**

While potent HAART regimens have improved patient survival and dramatically lower the incidence of new opportunistic infections, the ability to maintain long-term viral suppression is often complicated by complex drug regimens, adverse drug events and long-term metabolic complications.

Recent data from a small prospective trial of LPV/r alone as initial therapy showed beneficial treatment responses<sup>1</sup>. In addition, good clinical and virologic responses were seen in a prior trial with saquinavir/ritonavir monotherapy as initial therapy<sup>2</sup>. Prior experience with induction-maintenance strategies has shown poor outcomes with less potent maintenance regimens. LPV/r alone may represent a viable option as maintenance therapy given its high potency, broad genetic barrier to resistance and tolerability. The purpose of this study was to evaluate LPV/r alone for maintenance therapy among patients with well-controlled HIV and no underlying protease (PR) resistance.

### Results



### **Virologic Results on Treatment Analysis**

#### Immunologic Results: Median CD4 Cell Counts

# **Methods**

- Single-site, private practice prospective, 12-month observational study
- N=19
- Entry Criteria
  - On HAART
  - Non-detectable VL > 9 months
  - Nadir CD4 > 150 cells/mm<sup>3</sup>
  - No evidence of Protease resistance by prior genotype
  - No history of VL > 400 on 2 clinic visits while on HAART
- If receiving LPV/r based therapy, a trough LPV concentration was obtained (HPLC with UV detection, LLQ 0.05 µg/mL, National Jewish Denver USA). If greater than 3.0 µg/mL (2 standard deviations from median trough values in LPV/r pharmacokinetic studies), all other agents except LPV/r were discontinued.
- If not receiving LPV/r based HAART, LPV/r 400/100 mg BID was added to existing HAART regimen for 2 weeks (533/133 mg BID if receiving NNRTIs). After 2 weeks a trough LPV concentration was obtained. If greater than 3.0 µg/mL, all other agents except LPV/r were discontinued.
- Patient adherence was monitored through medication diaries and pill counts.



Virologic Disposition



**Study Design** 

Stable HAART

#### Median Lipid Change from Baseline



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	Week 4	Week 8	Week 16	Week 24
N*	18	16	15	15
Total Chol	2%	10%	10%	7%
LDL	0%	15%	19%	3%
HDL	3%	16%	17%	5%
TG	41%	58%	65%	90%

\*Lipid data available

## **Summary and Conclusions**

LPV/r monotherapy was highly effective at maintaining virologic suppression and was generally well-tolerated. Viral blips (>75, <400) were noted in three patients and unexplained VF in one. Further studies of this strategy and resistance patterns that occur following viral breakthrough are warranted.

## References

- 1. Gathe, et al., 43rd ICAAC 2003. H-845.
- 2. Cameron, et al., AIDS 1998.
- 3. Vernazza, et al., AIDS 2004.

## **Contact Information**

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### Results

Patient Demographics				
Gender	100% Male	N=19		
Age (yrs) [range]^	42 [31 – 51]			
Yrs HIV + [range]^	5.5 [2 – 19]			
Previous AIDS DX		N=0		
Prior # ART Regimens [range]	1 [1 – 6]			
Duration Prior ART Regimen (weeks) [range]^	34 [7 – 68]			
Receiving LPV/r at Baseline Having LPV/r added to Regimen	21% 79%	N=4 N=15		
LPV/r Concentration (ug/ml) Prior to Discontinuation of other agents	5.76 [3.26 – 11.93]			



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