

A Continuing Medical Education Activity

The 18th Conference on Retroviruses and Opportunistic Infections (CROI):

Online Expert Poster Review and Discussion

Jointly sponsored by the Postgraduate Institute for Medicine and ViralEd, LLC

The Immunomodulatory Effects of Maraviroc Intensification among ART-suppressed Patients with Incomplete CD4 Recovery

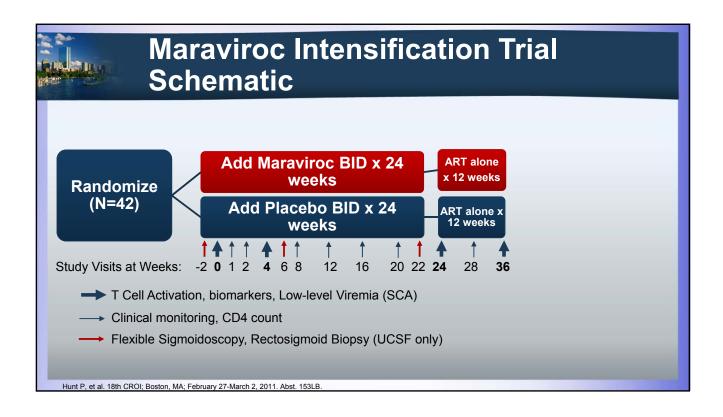
Peter W. Hunt, Nancy Shulman, Tim Hayes, Viktor Dahl, Ma Somsouk, Nick Funderburg, Alan L. Landay, Oluwatoyin Adeyemi, Robert Shafer, Brian Clagett, Benigno Rodriguez, Jeffrey N. Martin, Barbara Shacklett, Sarah Palmer, Michael M. Lederman, Steven G. Deeks

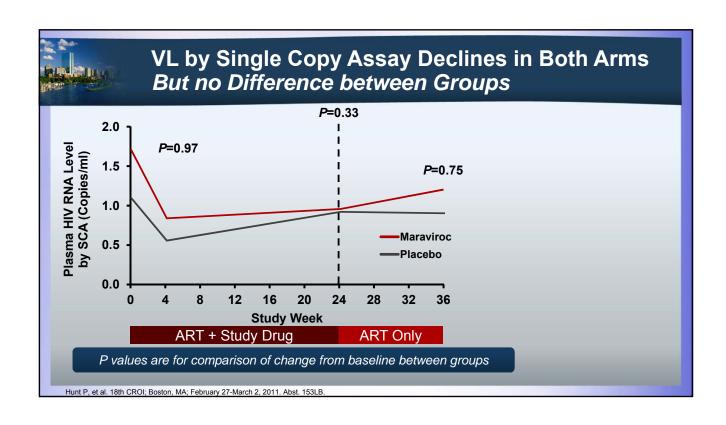
Hunt P, et al. 18th CROI; Boston, MA; February 27-March 2, 2011. Abst. 153LB

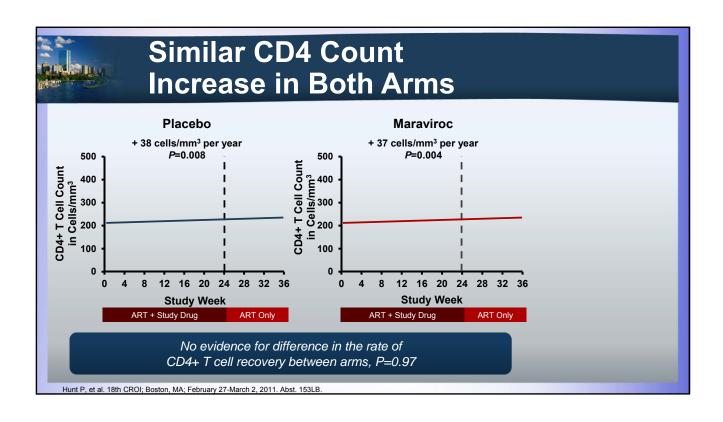
Inclusion/Exclusion Criteria

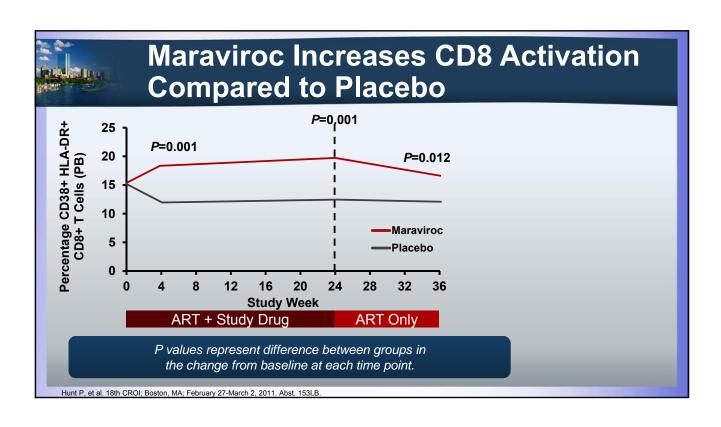
- Incomplete CD4 Recovery During Suppressive ART:
 - Stable ART regimen > 1 year
 - All plasma HIV RNA levels <48 c/ml in last year
 - Detectable VL "blips" <500 c/ml in last yr OK if flanked by VLs
 <48 c/ml
 - All CD4 counts <350 cells/mm³ in last year
 - CD4 count gain <100 cells/mm³ in last year
 - >90% self-reported ARV adherence
- Excluded for:
 - Anticipating ∆ in ARV of HBV/HCV Rx in next 6 months
 - Immunomodulatory/suppressive Rx in last 4 months
 - Serious illness past 3 months
 - ANC<1.0, plts <50, HgB<8, CrCl<40, AST/ALT>2.5x ULN
 - Pregnancy/Breastfeeding
 - Concurrent ddI+TDF use in ART regimen

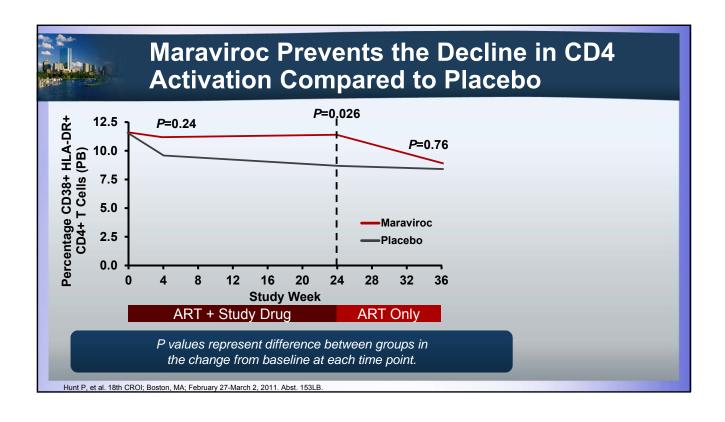
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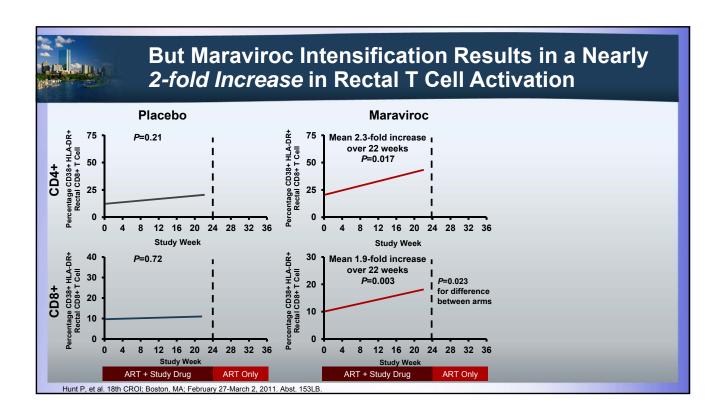


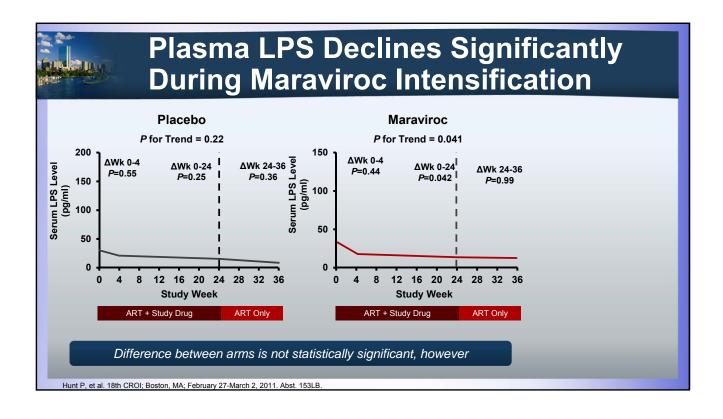


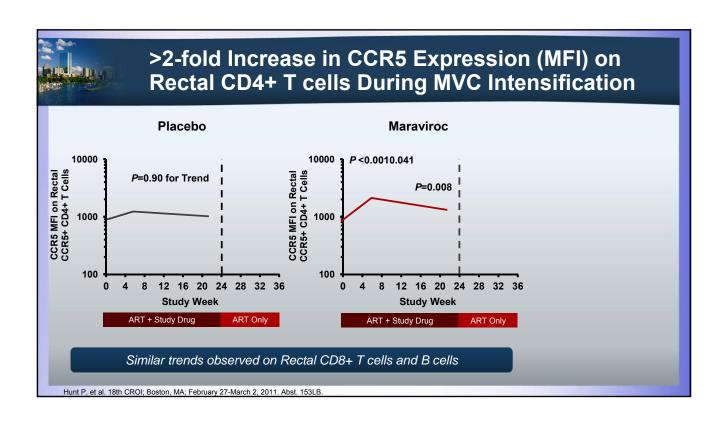


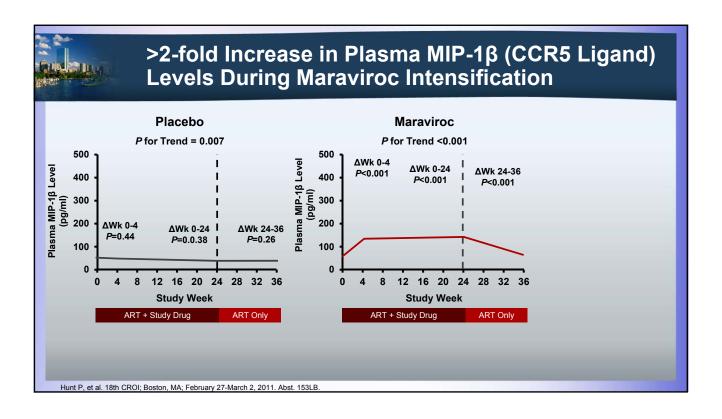












Conclusions Maraviroc intensification in HIV+ subjects with incomplete ART-mediated CD4 recovery: Causes a nearly 2-fold increase in T cell activation in GALT, and more modest increases in peripheral blood Appears to redistribute CD8+ T cells from lymphoid tissues into blood while having little effect on CD4 counts May decrease plasma LPS levels while increasing sCD14, compatible with enhanced macrophage-mediated clearance CCR5 ligand signaling through other chemokine receptors should be explored as a possible causal mechanism The clinical implications of these findings are unclear CADIRIS, ANRS studies with clinical endpoints ongoing