

4-Drug Regimens versus 3-Drug Regimen  
**ACTG 388 Trial**

# 4-Drug Regimens versus 3-Drug Regimen

## ACTG 388: Study Design

### Study Design: ACTG 388

- **Background:** Randomized, controlled, phase 3 trial comparing the activity, safety, and tolerability of two different 4-drug regimens with a 3-drug regimen in advanced HIV disease
- **Inclusion Criteria (n = 517)**
  - Prior ART: only ZDV, d4T, DDI, ddC
  - CD4  $\leq$  200 cells/mm<sup>3</sup>
  - HIV RNA  $\geq$  80,000 copies/mL
  - No resistance to NRTIs or PIs
- **Treatment Arms**
  - IDV 800 mg TID + ZDV-3TC BID
  - EFV 600 mg QD + IDV 800 mg TID + ZDV-3TC BID
  - NFV 1250 mg BID + IDV 1000 mg BID + ZDV-3TC BID

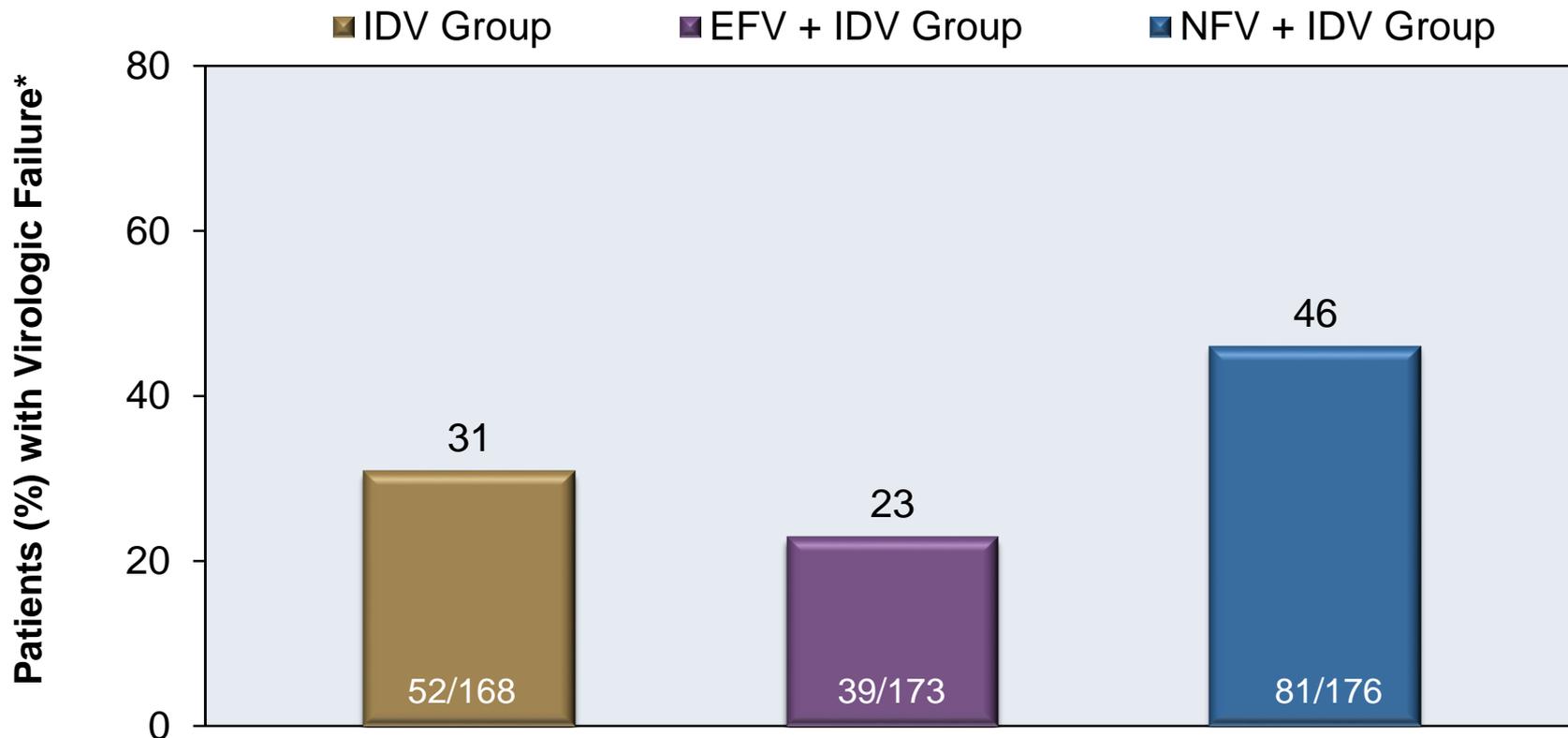
*Indinavir Group*  
**Indinavir +  
Zidovudine-Lamivudine**  
(n = 168)

*Efavirenz + Indinavir Group*  
**Efavirenz + Indinavir +  
Zidovudine-Lamivudine**  
(n = 173)

*Nelfinavir + Indinavir Group*  
**Nelfinavir + Indinavir +  
Zidovudine-Lamivudine**  
(n = 176)

# 4-Drug Regimens versus 3-Drug Regimen ACTG 388: Results

## Week 48: Virologic Failure



\*Virologic failure = confirmed increase in HIV-1 RNA level greater than baseline or nadir values, failure to achieve HIV RNA <200 copies by week 24, or relapse (2 consecutive HIV-1 RNA levels  $\geq$ 200 copies/mL after confirmed virologic response (HIV-1 RNA levels <200 copies/mL).

# 4-Drug Regimens versus 3-Drug Regimen ACTG 388: Results

<b>Clinical Toxicity and Laboratory Abnormalities</b>			
<b>Variable</b>	<b>IDV only (n = 168)</b>	<b>EFV + IDV (n = 168)</b>	<b>NVF + IDV (n = 168)</b>
Nausea (+/- vomiting)	15	7	19
Diarrhea	4	3	16
Rash	2	7	3
Nephrolithiasis	22	5	8
Serum bilirubin >2.5x ULN	16	0	8
ANC <750 cells/mm <sup>3</sup>	8	12	21
AST >5x ULN	6	11	8
Serum triglycerides >750 mg/dL	7	12	8

# 4-Drug Regimens versus 3-Drug Regimen

## ACTG 388: Conclusions

**Conclusions:** “A 4-drug regimen containing efavirenz plus indinavir resulted in a superior virologic response, whereas one containing nelfinavir plus indinavir resulted in an inferior response and a greater likelihood of toxicity.”

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