ABC-3TC + LPV-RTV versus TDF-FTC + LPV-RTV

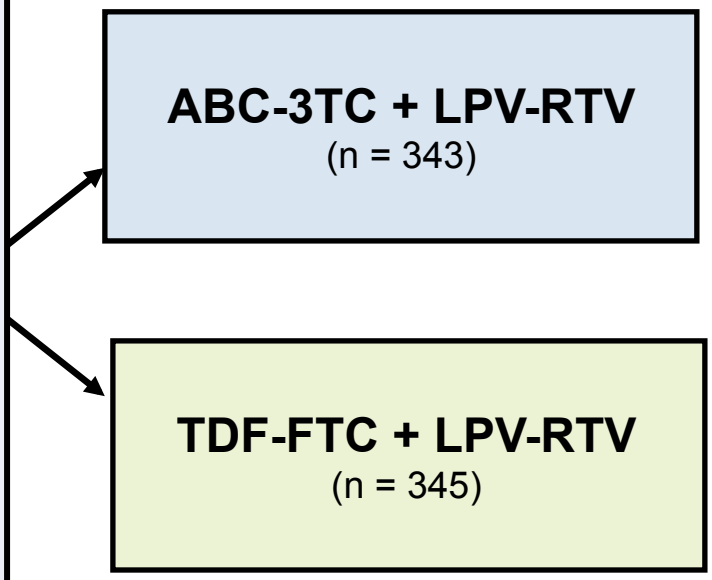
HEAT Trial

National HIV Curriculum

ABC-3TC + LPV-RTV versus TDF-FTC + LPV-RTV in Treatment Naïve
HEAT: Study Design

Study Design: HEAT

- **Background**: Randomized, double-blind, placebo-matched phase IV study comparing the efficacy, safety, and tolerability of abacavir-lamivudine versus tenofovir DF-emtricitabine in combination with lopinavir-ritonavir in treatment-naïve patients with HIV infection
- **Inclusion Criteria (n = 688)**
  - Age ≥18
  - Antiretroviral-naïve
  - HIV RNA ≥1000 copies/mL
  - No CD4 criteria, no HLA-B*5701 screening done
- **Treatment Arms**
  - Abacavir-lamivudine + lopinavir-ritonavir BID
  - Tenofovir DF-emtricitabine + lopinavir-ritonavir BID

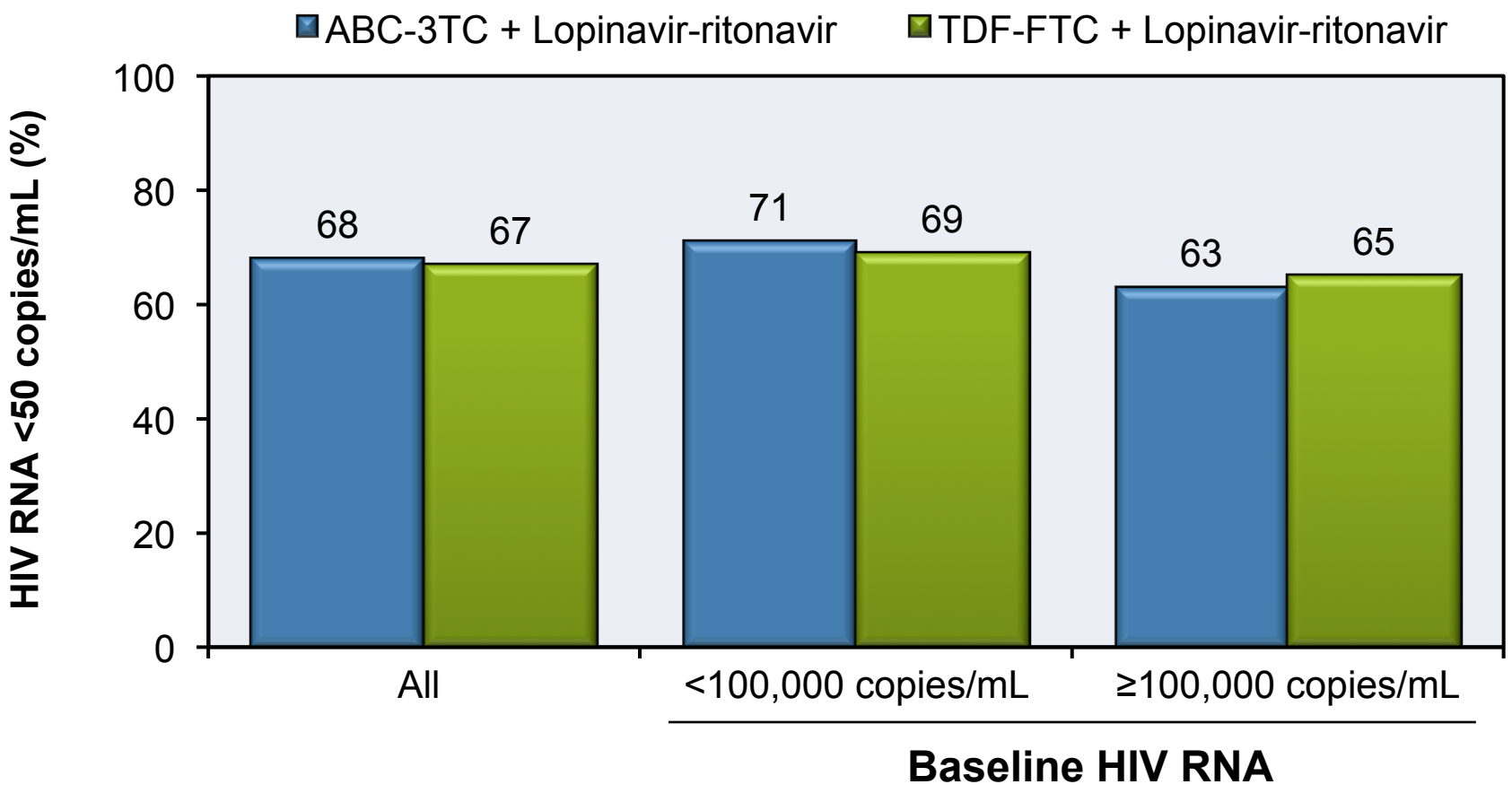


HEAT = **H**IV study with **E**pizicom **A**nd **T**ruvada

Source: Smith KY, et al. AIDS. 2009;23(12):1547-56.

ABC-3TC + LPV-RTV versus TDF-FTC + LPV-RTV in Treatment Naïve
HEAT: Results

Week 48: Virologic Response (ITT, Missing=Failure)



Source: Smith KY, et al. AIDS. 2009;23:1547-56.

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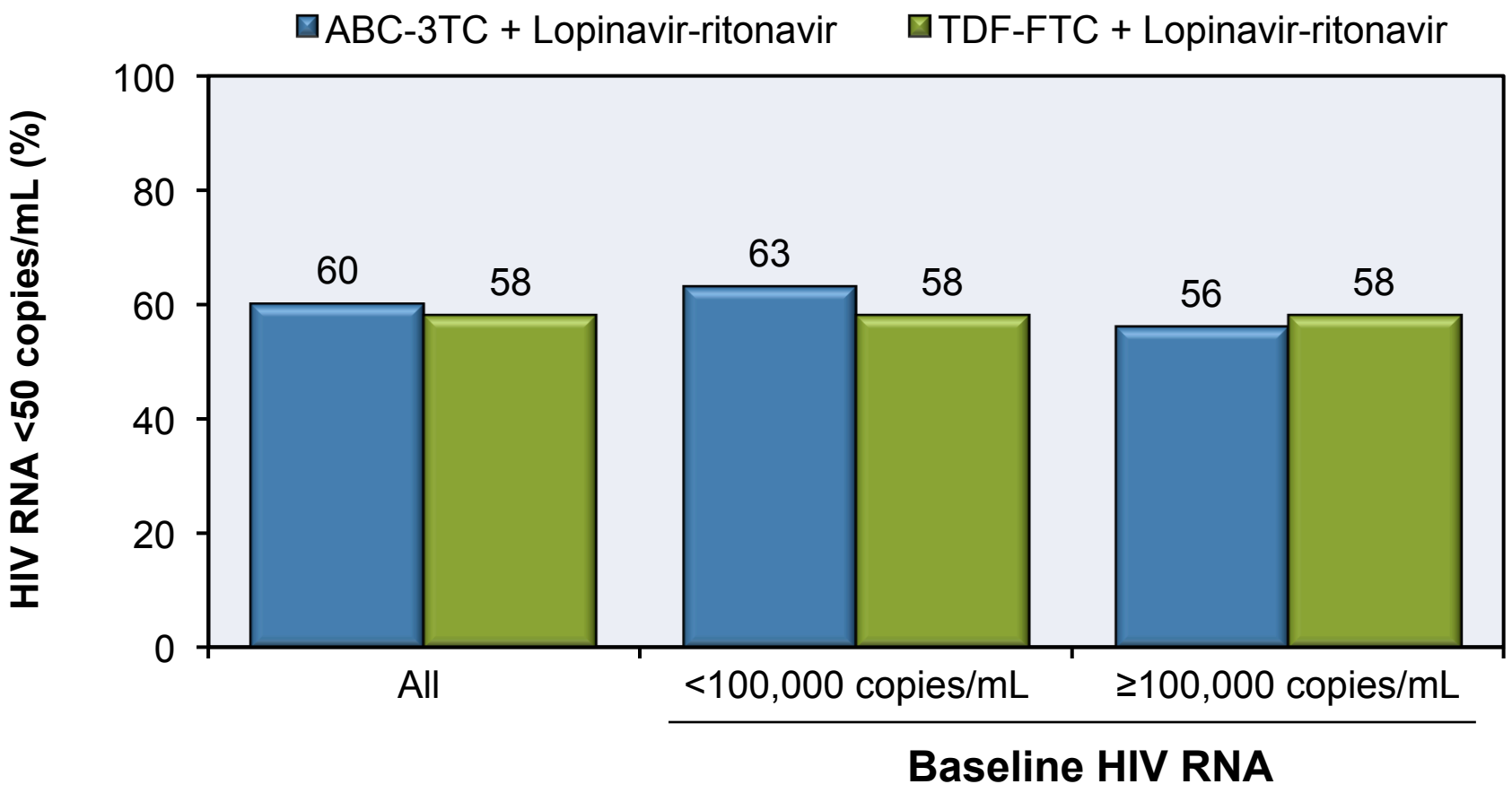
ABC-3TC + LPV-RTV versus TDF-FTC + LPV-RTV in Treatment Naïve
HEAT: Results

Week 96: Virologic Response (ITT, Missing=Failure)



Source: Smith KY, et al. AIDS. 2009;23:1547-56.

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ABC-3TC + LPV-RTV versus TDF-FTC + LPV-RTV in Treatment Naïve
HEAT: Results

Most Common Drug-Related Adverse Events (in at least 5% of patients and all serious adverse events reported by investigators)		
Adverse Event	**ABC-3TC + LPV/r** (n = 343)	**TDF-FTC + LPV/r** (n = 345)
Any drug-related grade 2-3 AEs	50%	46%
Any drug-related grade 3-4 AEs	15%	15%
Serious drug-related AEs	5%	3%

Source: Smith KY, et al. AIDS. 2009;23:1547-56.

ABC-3TC vs. TDF-FTC, with Lopinavir-RTV in Treatment Naïve
HEAT: Conclusion

Conclusion: "Both ABC/3TC and TDF/FTC provided comparable antiviral efficacy, safety, and tolerability when each was combined with lopinavir/ritonavir in treatment-naive patients."

Source: Smith KY, et al. AIDS. 2009;23:1547-56.

Acknowledgment

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The content in this slide set does not represent the official views of the U.S. Department of Health and Human Services, Health Resources & Services Administration.

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AETC AIDS Education & Training Center Program
National Coordinating Resource Center