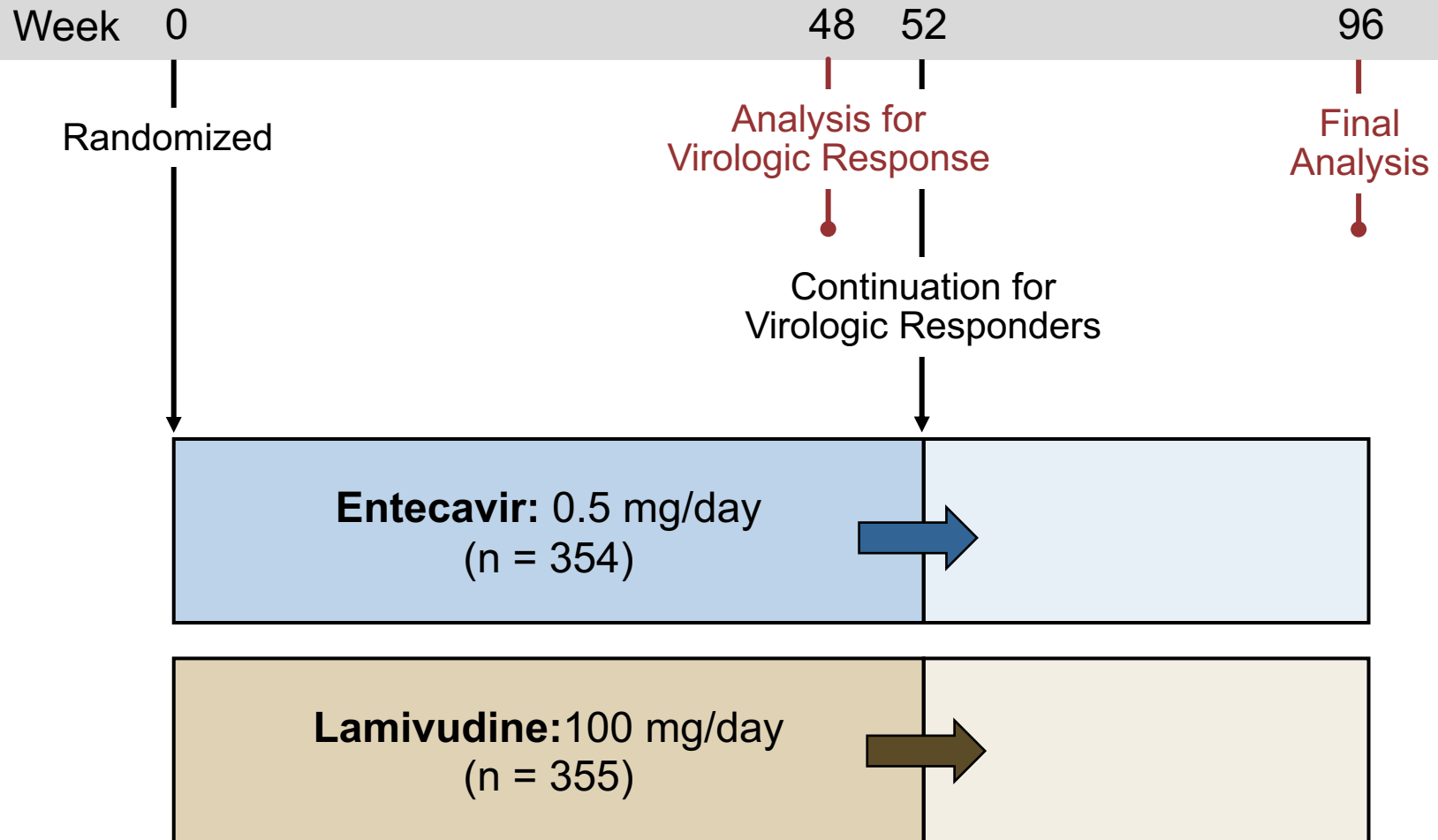


Entecavir versus Lamivudine in HBeAg-Negative BEHoLD: HBeAg-Positive, Week 48

Entecavir versus Lamivudine: 48 Week Data BEHoLD (HBeAg-Positive): Study Design

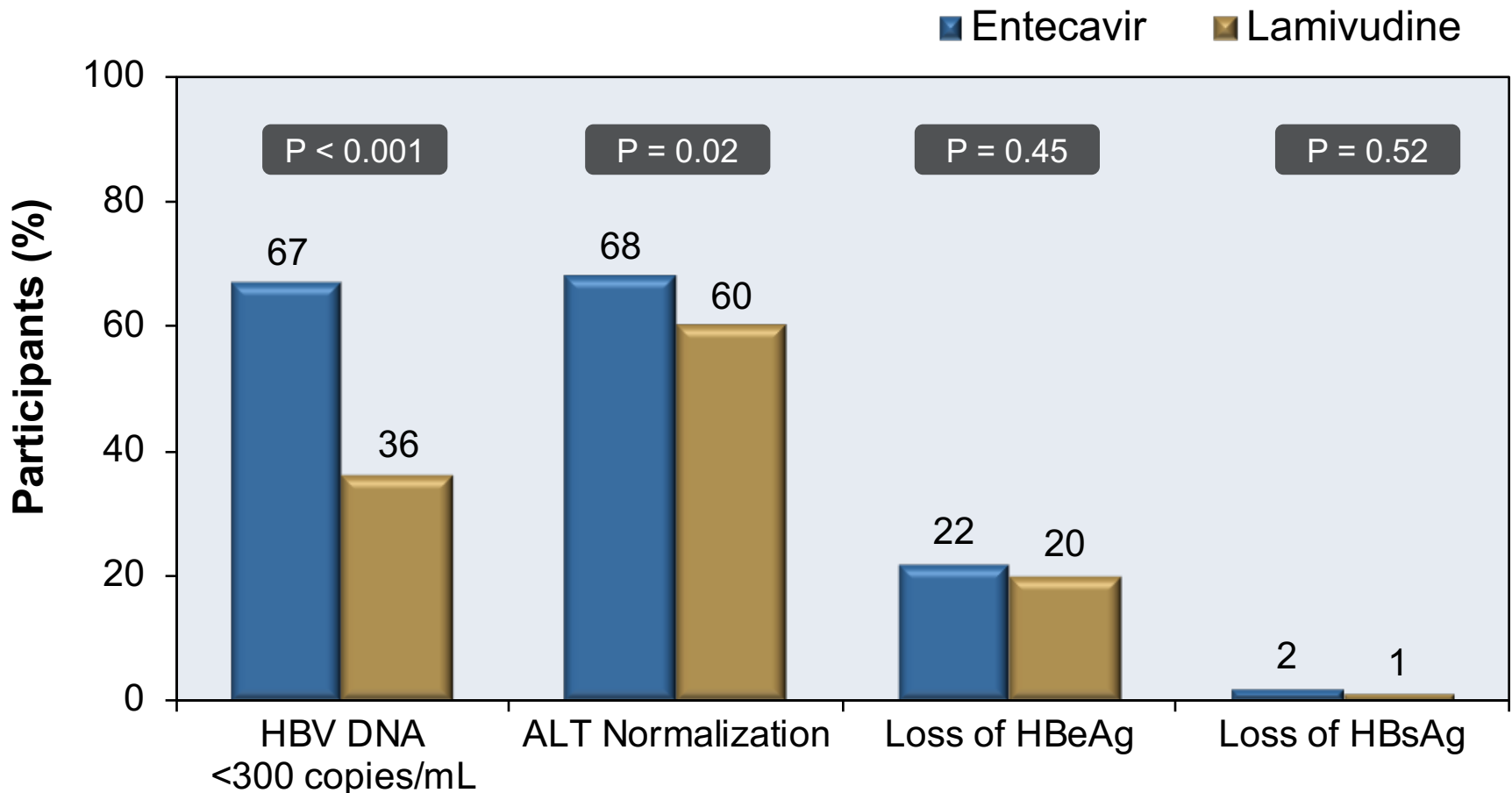
- **Background**
 - Phase 3, randomized, double-blind controlled trial
 - 137 centers in Americas, Asia, Australia, Europe, & Middle East
- **Subjects (n = 709)**
 - Age ≥ 16 years with documented HBeAg-positive
 - Excluded: prior nucleoside/nucleotide active against HBV >12 weeks
 - Excluded: coinfection with HIV, HCV, or HDV
- **Regimens**
 - Entecavir: 0.5 mg once daily (n = 354)
 - Lamivudine: 100 mg once daily (n = 355)
- **Study End-Points**
 - Primary: hepatic histologic improvement
 - Secondary: changes in HBV DNA, HBeAg seroconversion, normalization of ALT

Entecavir versus Lamivudine in HBeAg-Negative BEHoLD (HBeAg-Positive): Study Design



Entecavir versus Lamivudine in HBeAg-Negative BEHoLD (HBeAg-Positive): Results

HBeAg-Positive Study Participants: Week 48 Treatment Response



Source: Chang TT, et. al. N Engl J Med. 2006;354:1001-10.

Entecavir versus Lamivudine: 48 Week Data BEHoLD (HBeAg-Positive): Conclusions

Conclusions: “Among patients with HBeAg-positive chronic hepatitis B, the rates of histologic, virologic, and biochemical improvement are significantly higher with entecavir than with lamivudine. The safety profile of the two agents is similar, and there is no evidence of viral resistance to entecavir.”

Entecavir versus Lamivudine in HBeAg-Negative BEHoLD: HBeAg-Positive, Week 96

Entecavir versus Lamivudine: 96 Week Data BEHoLD (HBeAg-Positive): Conclusions

- **Background**

- Phase 3, randomized, double-blind controlled trial
- 146 centers in Europe, Asia, Americas, Australia & Middle East

- **Subjects**

- N = 715 with chronic HBeAg-positive
- Excluded: prior lamivudine therapy x >12 weeks or any prior entecavir
- Week 52 “virologic responders” (HBV DNA to <700,000 copies/mL & HBeAg loss): continue blinded treatment to week 96

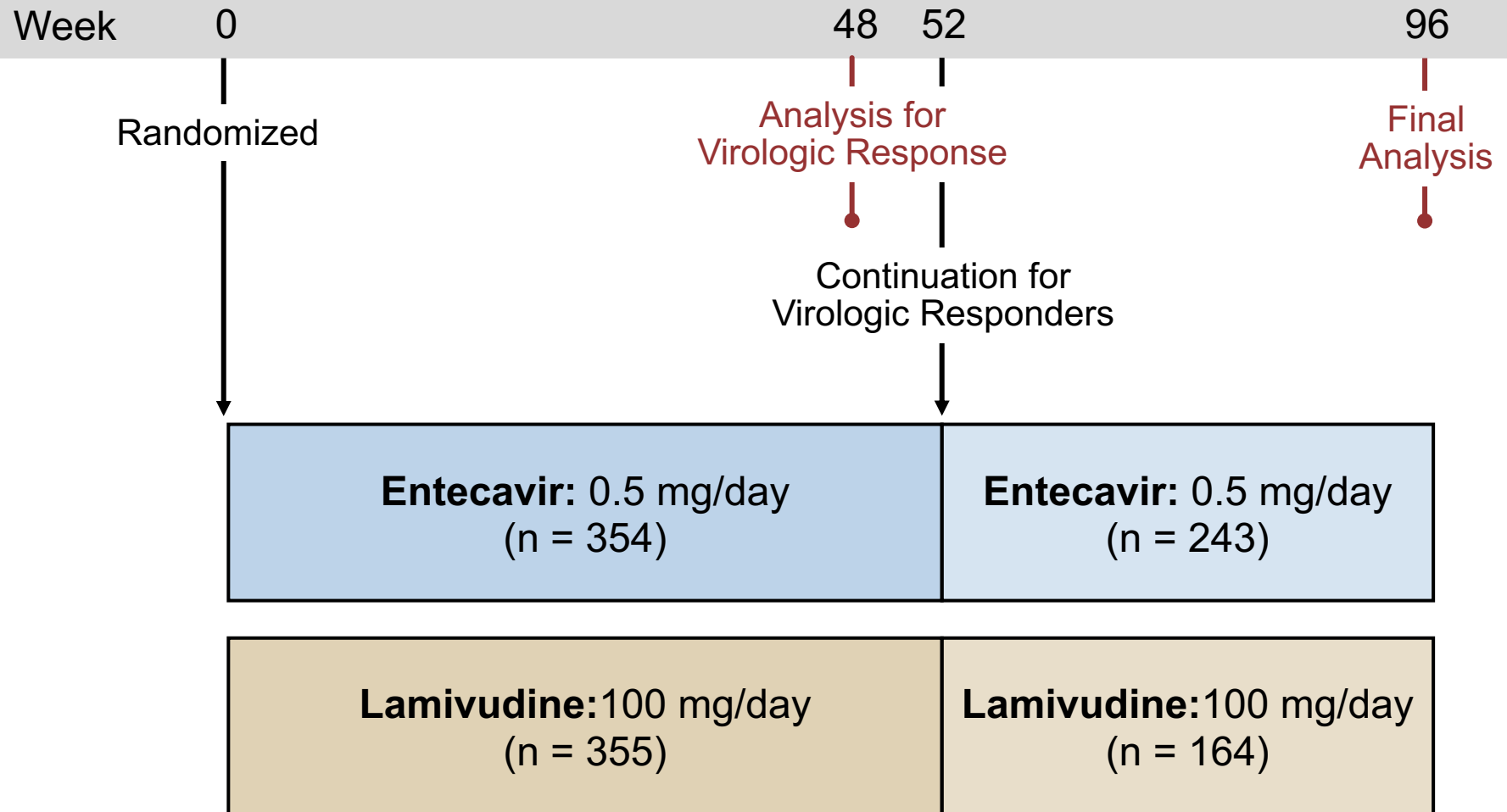
- **Regimens**

- Entecavir 0.5 mg once daily
- Lamivudine 100 mg once daily

- **Study End-Points**

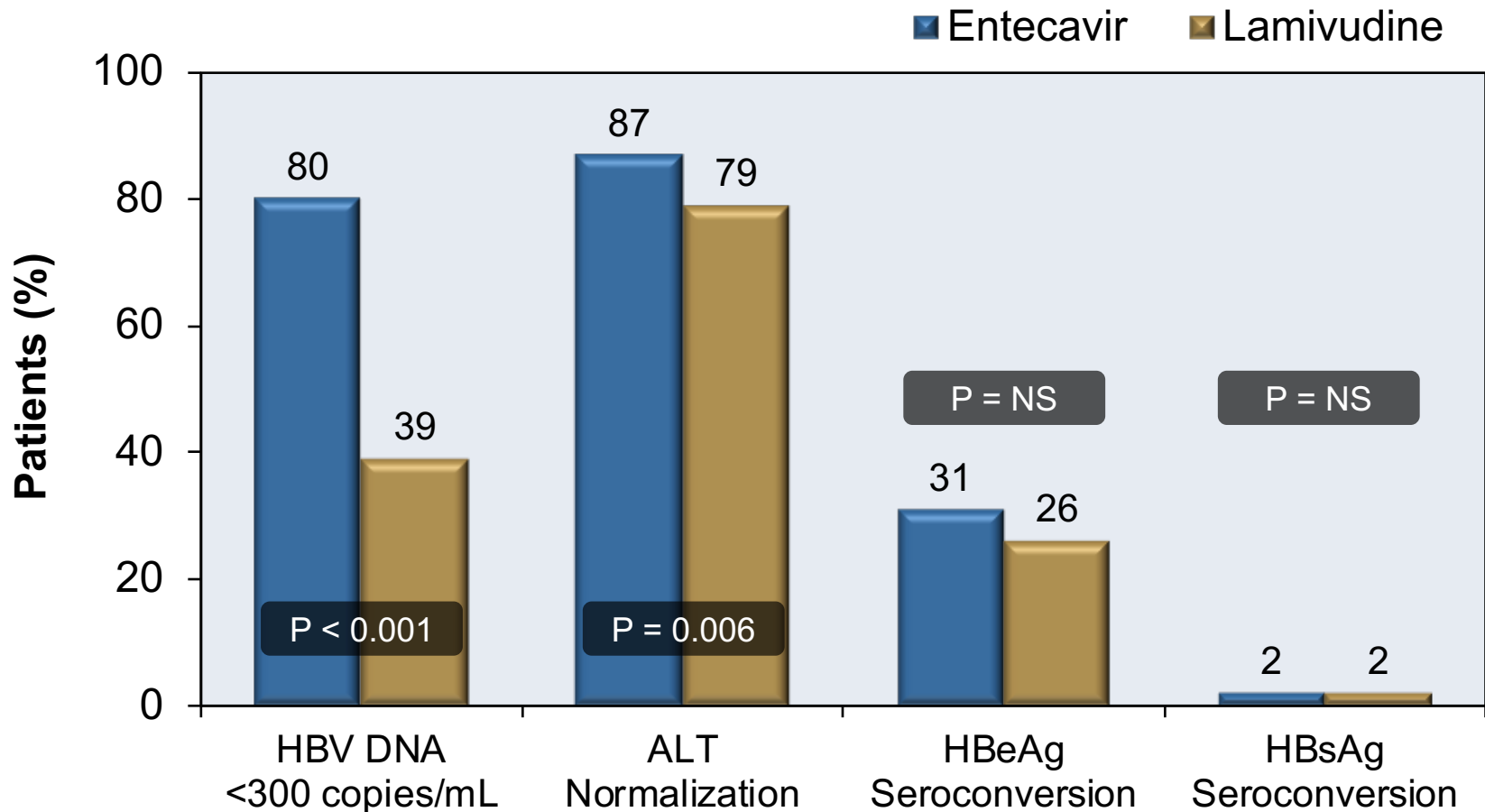
- Virologic Response: HBV DNA level <300 copies/mL
- Serologic Response: HBeAg seroconversion, HBsAg loss

Entecavir versus Lamivudine: 96 Week Data BEHoLD (HBeAg-Positive): Study Design



Entecavir versus Lamivudine: 96 Week Data BEHoLD (HBeAg-Positive): Results

HBeAg-Positive Study Participants: Week 96 Treatment Response



Entecavir versus Lamivudine: 96 Week Data BEHoLD (HBeAg-Positive): Safety & Adverse Events

Baseline Characteristic	Entecavir (n = 354)	Lamivudine (n = 355)
Any adverse event $\geq 5\%$, %		
Headache	10	8
Fatigue	6	5
Increased ALT levels	4	7
Serious adverse event, %	8	8
Adverse event leading to discontinuation, no.	1	9
Lab abnormalities, no. (%)		
Grade 4 ALT ($>10x$ ULN) and $>2x$ baseline	12* (3)	23** (7)

*11 of 12 of these flares resolved within 1-7 weeks. 11 of 12 were also associated with ≥ 2 log₁₀ decline in HBV DNA

**11 of 23 associated with increasing HBV DNA level that preceded or coincided with the flare

Entecavir versus Lamivudine: 96 Week Data BEHoLD (HBeAg-Positive): Conclusions

Conclusions: “Entecavir treatment through 96 weeks results in continued benefit for patients with HBeAg-positive chronic hepatitis B.”