Dolutegravir in Patients with Integrase-Resistant HIV

VIKING-3

Dolutegravir in Patients with Integrase Inhibitor Resistance

VIKING-3: Study Design

Day 1	Day 7	Week 24

Functional Monotherapy Phase	Continuation Phase
Dolutegravir: 50 mg BID	**Dolutegravir: 50 mg BID + OBR**

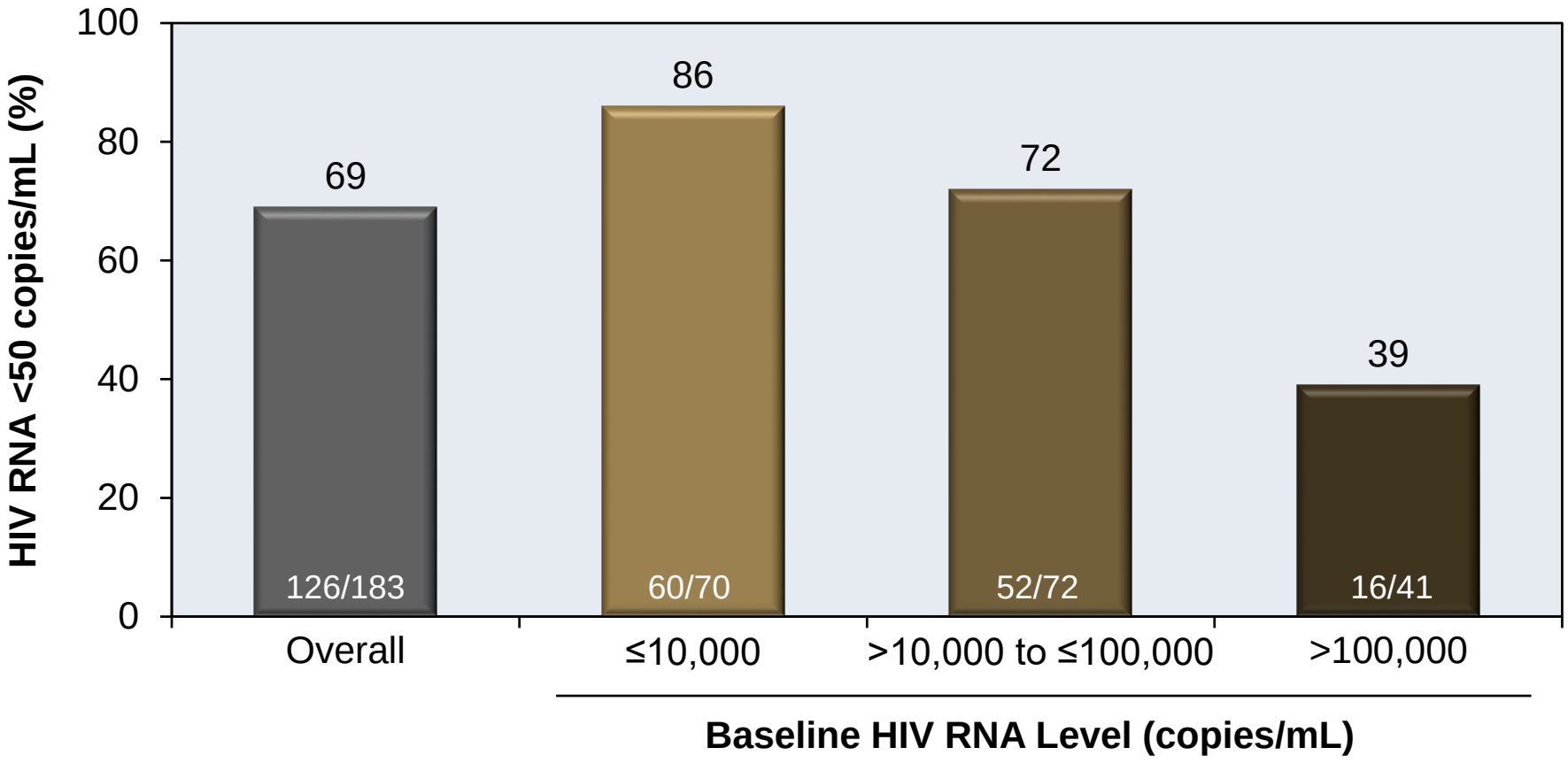
Study Design: VIKING-3

- **Background**: Single arm, open-label, phase 3 trial to determine the efficacy of twice daily dolutegravir in patients with integrase resistance
- **Inclusion Criteria (n=183)**
  - Age ≥18
  - Antiretroviral experienced, resistance to raltegravir and/or elvitegravir
  - Resistance to 2 classes of ARVs (in addition to integrase resistance)
  - HIV RNA ≥500 copies/mL
  - At least one fully active drug for optimized background regimen
  - Dolutegravir naïve
- **Treatment arm**: Dolutegravir 50 mg twice daily, with OBR added on day 7

Source: Castagna A, et al. J Infect Dis. 2014;210:354-62.

Dolutegravir in Patients with Integrase Inhibitor Resistance
VIKING-3: Results

24 Week Virologic Response, by Baseline HIV RNA Level



Source: Castagna A, et al. J Infect Dis. 2014;210:354-62.

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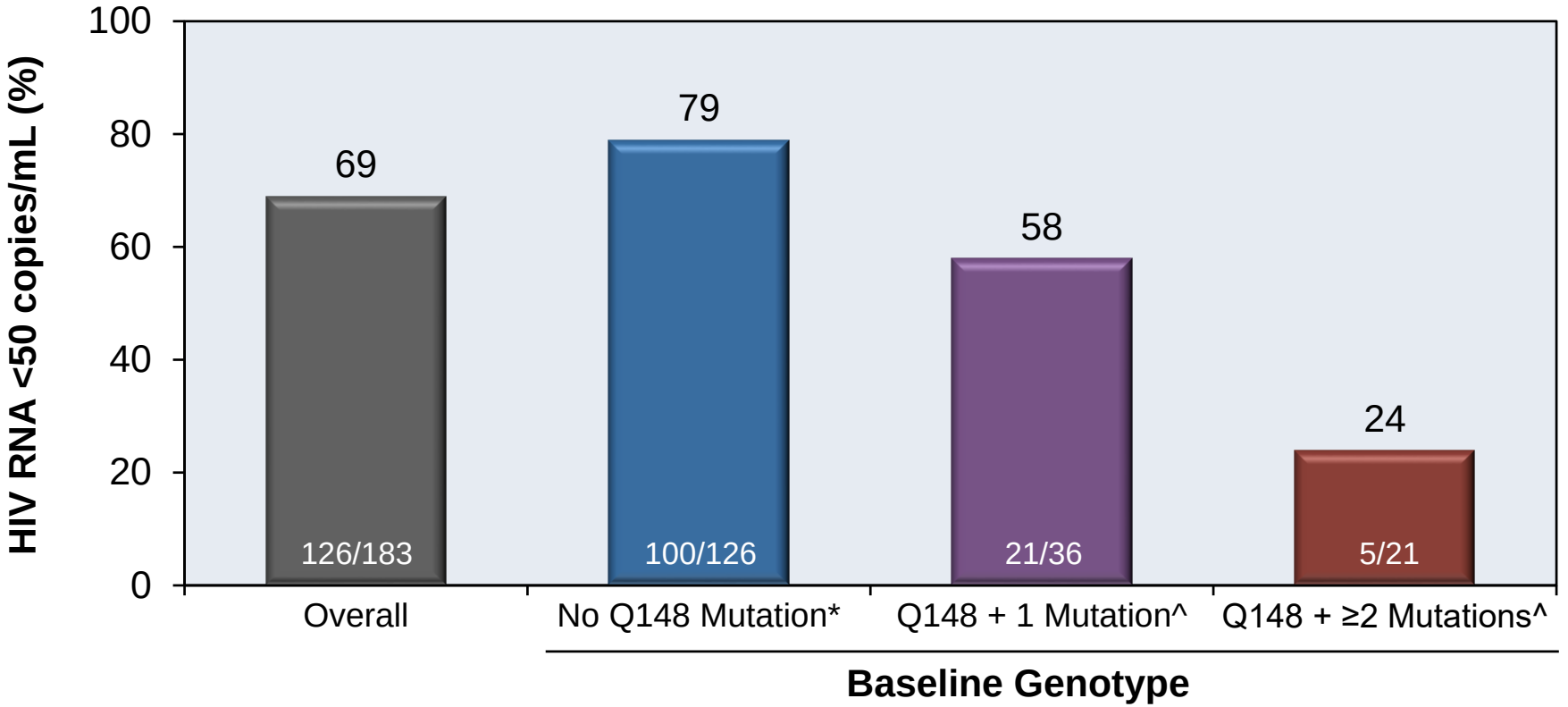
Dolutegravir in Patients with Integrase Inhibitor Resistance
VIKING-3: Results

24 Week Virologic Response, by Baseline Genotype

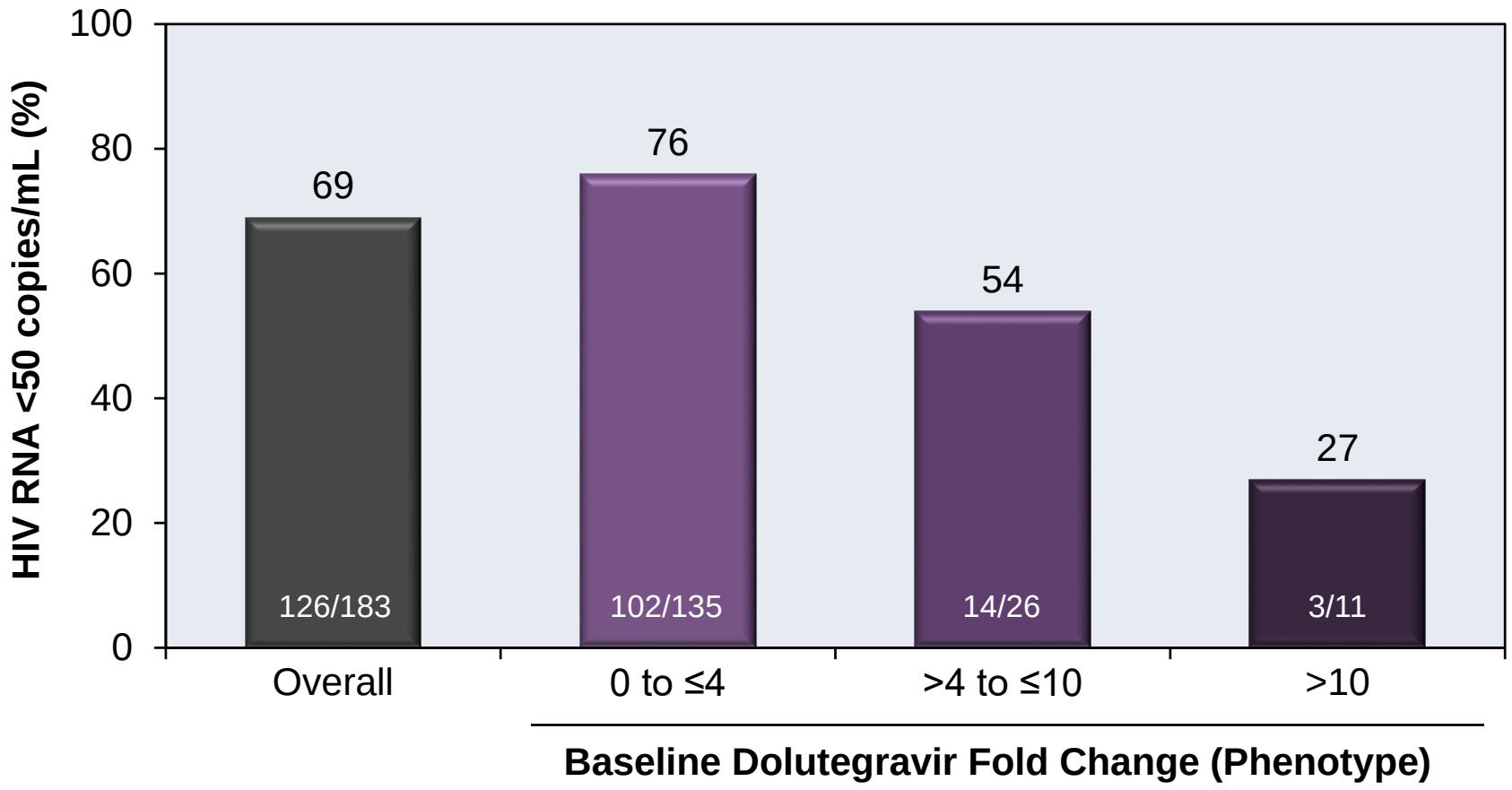


*Included primary INI-resistance mutations N155H, Y143C/H/R, T66A or E92Q or only historical evidence of resistance
^Secondary mutations from G140A/C/S, E138A/K/T or L74I.

Source: Castagna A, et al. J Infect Dis. 2014;210:354-62.

Dolutegravir in Patients with Integrase Inhibitor Resistance
VIKING-3: Results

24 Week Virologic Response, by Baseline Phenotype



Source: Castagna A, et al. J Infect Dis. 2014;210:354-62.

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Dolutegravir in Patients with Integrase Inhibitor Resistance
VIKING-3: Conclusions

Conclusions: “Dolutegravir 50 mg BID-based therapy was effective in this highly treatment-experienced population with integrase inhibitor-resistant virus.”

Source: Castagna A, et al. J Infect Dis. 2014;210:354-62.

Acknowledgment

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