Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC

ECHO Trial
Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC

ECHO: Study Design

### Study Design: ECHO Study

- **Background**: Randomized, double-blind, phase 3 trial comparing rilpivirine and efavirenz in combination with a fixed background regimen consisting of tenofovir DF-emtricitabine in treatment-naïve adult with HIV

- **Inclusion Criteria (n = 690)**
  - Antiretroviral-naïve adults
  - Age ≥18 years
  - HIV RNA ≥5000 copies/mL
  - No resistance to any study drugs

- **Treatment Arms**
  - Rilpivirine + Tenofovir DF-Emtricitabine
  - Efavirenz + Tenofovir DF-Emtricitabine

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**Rilpivirine + TDF-FTC QD**
(n = 346)

**Efavirenz + TDF-FTC QD**
(n = 344)

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ECHO: Result

48 Week Virologic Response (ITT-TLOVR)

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ECHO: Result

48 Week Virologic Failure and Discontinuations (ITT-TLOVR)

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ECHO: Resistance Results

Incidence of NNRTI Resistance Associated Mutations (RAMs)

Interpretation: “Rilpivirine showed non-inferior efficacy compared with efavirenz, with a higher virological-failure rate, but a more favourable safety and tolerability profile.”
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