Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC

ECHO Trial
Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC
ECHO: Study Design

**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 adults with HIV

**Inclusion Criteria (n = 690)**
- Antiretroviral-naïve adults
- Age ≥18 years
- HIV RNA ≥5,000 copies/mL
- No resistance to any study drugs

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

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ECHO: Results

48 Week Virologic Response (Intention-to-Treat)

Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC
ECHO: Results

48 Week Virologic Failure and Discontinuations (Intention-to-Treat)

Rilpivirine + TDF-FTC versus Efavirenz + TDF-FTC
ECHO: Resistance Results

Incidence of NNRTI Resistance Associated Mutations (RAMs)

The percentages represent the number of participants who developed each specific NNRTI RAM out of the number of participants who developed any NNRTI RAM in that arm of the trial (the n listed at the top of the graph).

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ECHO: Resistance Results

Incidence of NRTI Resistance Associated Mutations (RAMs)

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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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