



Switch from tenofovir DF to raltegravir is not associated with weight gain over 96 weeks

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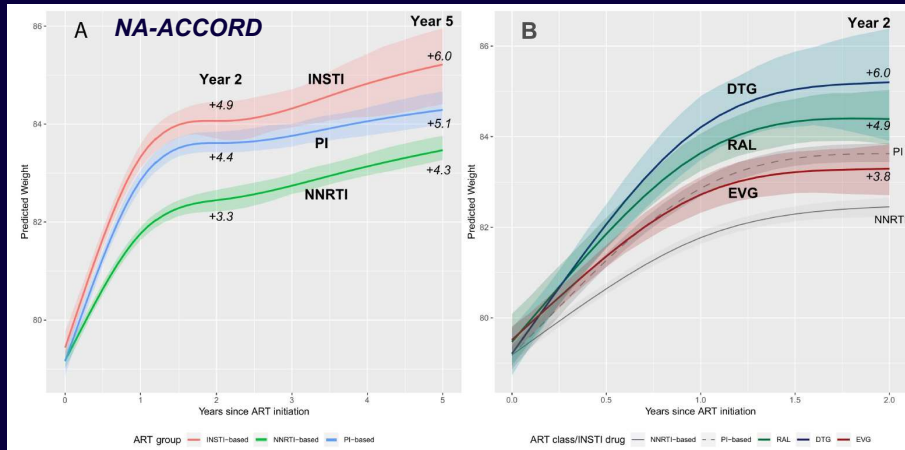
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- **Acknowledge and thank the PLHIV volunteers who participated in the TROP study**
- **Potential conflicts of interest**
 - **MC, RR, WT** – nil
 - **MB, DB** - research funding, travel sponsorship and Advisory Boards for Janssen-Cilag, Gilead, MSD, ViiV
 - **JH's institution** - Advisory boards for Gilead, MSD, ViiV

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Background

Weight gain with integrase inhibitors



Bourgi K et al. CROI 2019. Abstract #670

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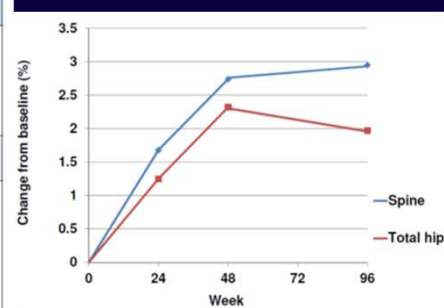
Methods

TROP: switch from TDF to RAL for low BMD

- 37 adults with RNA <50 copies/mL
- BMD increased over 96 weeks

Table 1: Participant characteristics

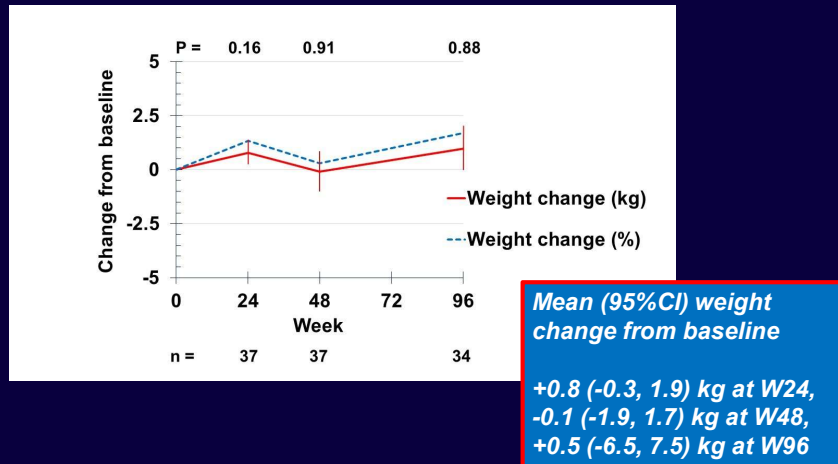
| Parameter | Baseline n=37 |
|--|------------------|
| Demographics | |
| Age (years) (mean ± SD) | 48.1 ± 8.4 |
| Male (%) | 97 |
| White (%) | 84 |
| Current smoker (%) | 32 |
| Weight (kg) (mean ± SD) | 79.6 ± 14.5 |
| Body mass index (kg/m ²) (mean ± SD) | 26.1 ± 4.1 |
| HIV and ART | |
| CD4 count (cells/μL) (mean ± SD) | 576 ± 238 |
| Antiretroviral therapy | |
| Ritonavir-boosted protease inhibitor | |
| Atazanavir (%) | 40.5 |
| Lopinavir (%) | 51.4 |
| Darunavir (%) | 8.1 |
| PI duration (months) (mean ± SD) | 83.6 ± 46.9 |
| TDF duration (months) (mean ± SD) | 37.7 ± 19.1 |



Bloch et al, HIV Medicine 2014;15:373-380

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Results



- No significant change in weight over 96 weeks

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Conclusions

- In this virologically-suppressed population, switching from TDF to RAL 400mg bd resulted in an increase in BMD without a change in weight
- Results in keeping with study of simplification to raltegravir/3TC – non-significant trend to weight gain
- Limitations
 - non-randomised
 - modest sample size
 - large confidence intervals
- Weight gain may not occur with all INSTIs

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