

Effect of treatment in HIV positive individuals switched to an ARV regimen containing TAF, on weight gain and development of metabolic syndrome.

Dates for data collection: 1/1/2016- 9/30/18

Cases: Patients who were on an ARV regimen not containing TAF who were subsequently switched to an ARV regimen that contains TAF.

- Pts switched to any of the following during the study period: Descovy, Genvoya, Biktarvy, Odefsy, Symtuza. Collect the ARV regimen pre and post switch.

Control: Patients on ARV regimen not containing TAF continued of this regimen.

- Pts on Triumeq throughout the study period

Baseline Variables to be collected (at time of switch):

Age in years

Sex

Ethnicity

Baseline VACS score

CD4 count at baseline

HIV viral load at baseline

Level of physical activity (from three items from the five-item Lipid Research Clinics Physical Activity Questionnaire)

Active substance abuse diagnosis (from ASSIST questionnaire)

HIV medication adherence

Outcomes to be collected:

Weight

- Cases: Weight 6 months prior to switch to TAF containing ARV, weight at time of TAF switch, 6 months after start of TAF containing regimen and 1 year after switch
- Controls: weight at start of study collection and every 6 months

BMI

- Cases: BMI 6 months prior to switch to TAF containing ARV, weight at time of TAF switch, 6 months after start of TAF containing regimen, and 1 year after switch
- Controls: BMI at start of study collection and every 6 months

Cases: Diagnosis of diabetes, hypertension, or hyperlipidemia at time of switch (baseline), 6 months after TAF switch, or 1 year after TAF switch based on the below ICD 10 codes.

Controls: Diagnosis of diabetes, hypertension, or hyperlipidemia at the beginning and end of study period.

- Diabetes ICD 10 codes: E11, E11.0, E11.00, E11.01, E11.2, E11.21, E11.22, E11.29 E11.3, E11.37X1, E11.37X2, E11.37X3, E11.37X9, E11.4, E11.40, E11.41, E11.42. E11.43, E11.44, E11.49 E11.5, E11.51, E11.52, E11.59, E11.6, E11.61, E11.62, E11.63, E11.64, E11.65, E11.69, E11.8, E11.9
- Hypertension ICD: 110
- Hyperlipidemia: E78.2, E78.4, E78.49, E78.5

A1C at baseline, 6 (+/- 2months) months after switch, 1 year (+/- 2months) after switch for cases; at the beginning of the study period and every 6 months (+/- 2 months) until the end of the study for controls.

Total cholesterol, LDL, HDL at baseline, 6 months (+/- 2months) after switch, 1 (+/- 2months) year after switch for cases; at the beginning of the study period and every 6 months (+/- 2 months) until the end of the study for controls.