**Supplemental Table 1. Model-based estimates for changes in BMI over time by ART regimens with and without adjustment for age, sex at birth, race/ethnicity and BMI at switch, the HIV Outpatient Study, 2007-2018, N = 736.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Parameters estimated with adjustments** | | | **Parameters estimated without adjustments** | | |
| **Effect** | **Estimate** | **95%CI** | **P-value** | **Estimate** | **95%CI** | **P-value** |
| **Intercept** | 1.39 | (0.48, 2.30) | <0.001 | 27.155 | (26.504, 27.807) | <0.001 |
| **Age (years)** | 0.01 | (0.00, 0.02) | 0.02 |  |  |  |
| **Sex at birth** |  |  |  |  |  |  |
| Female | 0.09 | (-0.19, 0.37) | 0.52 |  |  |  |
| Male | Reference |  |  |  |  |  |
| **Race/ethnicity** |  |  |  |  |  |  |
| Non-Hispanic/Latino black | 0.44 | (0.18, 0.70) | <0.001 |  |  |  |
| Hispanic/Latino | 0.48 | (0.15, 0.80) | <.01 |  |  |  |
| Other | -0.75 | (-1.28, -0.22) | 0.78 |  |  |  |
| Non-Hispanic white | Reference |  |  |  |  |  |
| **BMI at switch** | 0.91 | (0.89, 0.93) | <0.001 |  |  |  |
| **Month from switch (time)** | 0.01 | (0.00, 0.01) | <0.001 | 0.01 | (0.00, 0.01) | <0.001 |
| **Regimen** |  |  |  |  |  |  |
| INSTI | 0.00 | (-0.22, 0.23) | 0.96 | 0.02 | (-0.82, 0.87) | 0.97 |
| Non-INSTI | Reference |  |  | Reference |  |  |
| **Time × regimen** |  |  |  |  |  |  |
| INSTI | -0.01 | (-0.01, -0.01) | <0.001 | -0.01 | (-0.01, -0.01) | <0.001 |
| Non-INSTI | Reference |  |  | Reference |  |  |
| **Spline parameters** |  |  |  |  |  |  |
| Post-Switch INSTI | 0.05 | (0.04, 0.07) | <0.001 | 0.05 | (0.04, 0.07) | <0.001 |
| Post-Switch non-INSTI | -0.01 | (-0.01, -0.00) | <0.001 | -0.01 | (-0.01, -0.00) | <0.001 |
| Post-Switch INSTI at 8 Month | -0.05 | (-0.07, -0.04) | <0.001 | -0.05 | (-0.06, -0.04) | <0.001 |
| Post-Switch TAF | 0.01 | (0.00, 0.02) | 0.08 | 0.01 | (-0.00, 0.02) | 0.08 |
| **Model estimated slope parameters 1** | **Slope estimates (x102) with adjustment** | | | **Slope estimates (x102) without adjustment** | | |
| 01. Pre INSTI phase | 0.05 | (-0.06, 0.16) | 0.36 | 0.04 | (-0.06, 0.15) | 0.42 |
| 02. Pre non-INSTI phase | 0.73 | (0.61, 0.86) | <0.001 | 0.72 | (0.59, 0.85) | <0.001 |
| 03. Post INSTI early phase | 5.41 | (4.26, 6.57) | <0.001 | 5.44 | (4.28, 6.59) | <0.001 |
| 04. Post INSTI + TAF early phase | 6.20 | (4.92, 7.48) | <0.001 | 6.22 | (4.94, 7.51) | <0.001 |
| 05. Post non-INSTI + TAF phase | 0.98 | (0.09, 1.86) | 0.03 | 0.97 | (0.07, 1.86) | 0.03 |
| 06. Post INSTI late phase | 0.29 | (-0.00, 0.59) | 0.05 | 0.28 | (-0.01, 0.58) | 0.06 |
| 07. Post non-INSTI - TAF phase | 0.19 | (-0.05, 0.43) | 0.12 | 0.18 | (-0.06, 0.43) | 0.14 |
| 08. Post INSTI + TAF late phase | 1.08 | (0.15, 2.02) | 0.02 | 1.07 | (0.13, 2.01) | 0.03 |
| **Comparison of model estimated parameters** | **Slope comparisons (x102) with adjustment** | | | **Slope comparisons (x102) without adjustment** | | |
| 10. Pre INSTI vs non-INSTI phase | -0.68 | (-0.85, -0.52) | <0.001 | -0.67 | (-0.84, -0.51) | <0.001 |
| 11. Post INSTI vs non-INSTI early phase | 5.22 | (4.05, 6.39) | <0.001 | 5.25 | (4.07, 6.43) | <0.001 |
| 12. Post INSTI vs non-INSTI late phase-TAF | 0.10 | (-0.28, 0.49) | 0.59 | 0.1 | (-0.28, 0.48) | 0.61 |
| 13. Post switch pure TAF effect | 0.79 | (-0.08, 1.66) | 0.08 | 0.78 | (-0.09, 1.66) | 0.08 |
| 14. Post switch INSTI + TAF vs non-INSTI – TAF | 6.01 | (4.70, 7.32) | <0.001 | 6.04 | (4.72, 7.35) | <0.001 |
| 15. Post switch INSTI - TAF vs non-INSTI + TAF | 4.44 | (2.84, 6.03) | <0.01 | 4.47 | (2.86, 6.07) | <0.001 |
| 16. Post INSTI vs non-INSTI late phase + TAF | -0.68 | (-1.60, 0.24) | 0.15 | -0.68 | (-1.61, 0.24) | 0.15 |
| 17. Post non-INSTI + TAF | 0.98 | (0.09, 1.87) | 0.03 | 0.97 | (0.07, 1.86) | 0.03 |
| 18. Pre vs post INSTI – TAF early phase | 5.36 | (4.16, 6.57) | <0.01 | 5.39 | (4.19, 6.59) | <0.001 |
| 19. Pre vs post INSTI + TAF early phase | 6.15 | (4.83, 7.48) | <0.01 | 6.18 | (4.85, 7.51) | <0.001 |
| 20. Pre vs post INSTI - TAF late phase | 0.25 | (-0.06, 0.55) | 0.12 | 0.24 | (-0.07, 0.55) | 0.13 |
| 21. Pre vs post INSTI + TAF late phase | 1.03 | (0.10, 1.97) | 0.03 | 1.02 | (0.08, 1.97) | 0.03 |
| 22. Pre vs post non-INSTI – TAF | -0.54 | (-0.85, -0.24) | <0.01 | -0.54 | (-0.84, -0.23) | <0.001 |
| 23. Pre vs post non-INSTI + TAF | 0.25 | (-0.67, 1.17) | 0.6 | 0.25 | (-0.68, 1.18) | 0.6 |
| 24. Pre INSTI vs pre non-INSTI | -0.68 | (-0.85, -0.52) | <0.01 | -0.68 | (-0.84, -0.51) | <0.001 |

1 Linear mixed model parameter and BMI slope estimates (changes) by ART regimens received from a) a model including adjustment for age, sex at birth, race, baseline BMI and b) without these adjustments.

2 slope estimate/contrast obtained through linear contrast of parameter estimate from the model.

Abbreviations: BMI, body mass index; ART, antiretroviral therapy; CI confidence interval; INSTI, integrase strand transfer inhibitors; TAF, tenofovir alafenamide.