

with hypercholesterolemia (total cholesterol ≥ 200 mg dL⁻¹) was designed to determine the impact of switching from ABC/3TC + EFV to EFV/FTC/TDF ($n = 79$) versus continuing on ABC/3TC + EFV ($n = 78$). At week 12, patients receiving EFV/FTC/TDF continued for an additional 12 weeks of treatment, whereas those receiving ABC/3TC + EFV switched to EFV/FTC/TDF. Patients who switched to EFV/FTC/TDF experienced significant median reductions in fasting lipid parameters after 12 weeks than patients continuing on ABC/3TC + EFV, including decreased TC (-33.6 versus $+0.4$ mg dL⁻¹; primary endpoint), LDL (-22.0 versus -0.8 mg dL⁻¹), HDL (-5.0 versus $+1.5$ mg dL⁻¹) and TG (-24.8 versus -2.7 mg dL⁻¹); $p < 0.001$ for all results. Decreases in lipid parameters at week 12 were similarly maintained at week 24 for patients who switched to EFV/FTC/TDF at baseline. The TC:HDL ratio was similar for the two treatment arms at both 12 and 24 weeks. Patients who switched to EFV/FTC/TDF at week 12 experienced median reductions in fasting lipid parameters from week 12 to week 24 similar to those observed in patients receiving EFV/FTC/TDF for 24 weeks. Renal parameters were similar between arms and within the normal range through week 24.^{37,38}

The FTC/RPV/TDF STR was well tolerated through week 24 in Study 111, the single-arm study of patients who switched from EFV/FTC/TDF to FTC/RPV/TDF for tolerability issues. No subjects had AEs leading to study drug discontinuation through 24 weeks. The majority of study drug-related AEs were grade 1 in severity and there were no grade 3 or 4 AEs. Median changes from baseline in fasting lipid parameters were significantly improved for TC (-24 mg dL⁻¹; $p < 0.001$) and LDL cholesterol (-17 mg dL⁻¹; $p < 0.001$) through week 24.³³

Switching to the FTC/RPV/TDF STR resulted in improvements in lipid parameters and cardiovascular risk compared with staying on a PI-based regimen through 24 weeks in the SPIRIT study, the Phase 3b study evaluating switching to FTC/RPV/TDF from PI + RTV + two NRTIs. At week 24, rates of grade 3 or 4 AEs and grade 3 or 4 laboratory abnormalities were similar in patients who switched to FTC/RPV/TDF at baseline and those who stayed on PI + RTV + two NRTIs (AEs, 5.0% versus 6.9%; laboratory abnormalities, 6.3% versus 11.3%). Reductions in lipid parameters were significantly greater for patients who switched to FTC/RPV/TDF including TC (-25 versus -1 mg dL⁻¹), LDL (-16 versus 0 mg dL⁻¹), HDL (-4 versus -1 mg dL⁻¹), TG (-53 versus $+3$ mg dL⁻¹) and TC:HDL ratio (-0.27 versus $+0.08$); $p < 0.001$ for all comparisons (Figure 14.8). Switching to FTC/RPV/TDF also resulted in a significant improvement in 10 year Framingham Risk Score for cardiovascular disease ($p = 0.001$).³⁹

14.6 Patient-reported Outcomes

With an increasing number of safe and effective ARV options, maintaining or improving patient satisfaction and quality of life has become an increasingly important goal of ARV therapy.⁴⁰ Patient-reported outcomes have been incorporated into clinical trials more frequently to assess patient perceptions