Objectives: Subjects from two clinical trials were evaluated at end-of-treatment as well as 18 months after completion of treatment to ascertain efficacy and safety of 10% hydrogen peroxide whitening strips. Methods: A pooled analysis of two studies at a single center investigated the 18-month post-treatment efficacy and safety of Crest® Whitestrips® Premium, a 10% hydrogen peroxide whitening strip. Treatment on the maxillary teeth was 30 minutes twice daily for 7 days, at-home and unsupervised. Subjects in the 10% strip group were re-evaluated at 18-months post-treatment to ascertain long-term color change, and clinical safety. Efficacy was measured objectively as L*a*b* color change from digital images at end-of-treatment and post-treatment. Results: A total of 75 adults with a mean age of 32 years participated in the research. For the 37 subjects in the 10% strip group, end-of-treatment mean (SD) $\Delta b^*$ was –2.3 (0.89), and mean $\Delta L^*$ (SD) was 2.1 (0.82). The 10% strip groups experienced significant ($p < 0.0001$) end-of-treatment color improvement ($\Delta b^*$ & $\Delta L^*$) relative to baseline and control. At 18-months post-treatment, the 10% strip group had mean (SD) $\Delta b^*$ of –1.5 (1.20), and mean $\Delta L^*$ (SD) of 1.8 (1.12), differing significantly ($p < 0.0001$) from baseline for both $\Delta b^*$ and $\Delta L^*$. Mild tooth sensitivity and oral irritation, the most common side effects in the study, resolved during treatment or post-treatment. No subjects discontinued treatment early due to an adverse event, and there were no post-treatment safety findings. Conclusion: This clinical research demonstrated 18-month post-treatment safety and long-term whitening following twice daily use of a 10% hydrogen peroxide strip.