Statistical Analysis

The main outcome measure was percent of migraine attacks at 0 or 1 after treatment with timolol or artificial tears. A total of 198 migraine attacks were studied among 10 participants. The groups were compared using a Wilcoxon match paired test to account for repeated measurements and the difference between the two groups was found not to be significant. A 2-tailed chi-squared statistic suggested that 172 randomized participants would be needed to power a study with alpha $\leq 0.05$ and beta $\leq 0.2$. 