

Stop the trial if $Pr(p_E < \phi_E | data) > C_E$, where p_E is the true response rate of the treatment, ϕ_E is the lowest acceptable response rate, and C_E is the probability cutoff. This stopping rule says that if the observed data suggests a high probability that the response rate is low, the trial should be stopped for futility. The value of C_E should be calibrated to obtain desirable operating characteristics, such that the percentage of stopping the trial is low (or high) when p_E is substantially higher (or lower) than ϕ_E . We recommend the default value of $C_E = 0.95$ as the starting value for calibration.