

## Design: Continuous Endpoint: Two-Sample Test - Parallel Design - Difference of Means

Test Parameters	
Design ID:	Sequential
Design Type:	Superiority
Number of Looks:	4
Test Type:	2-Sided
Specified $\alpha$ :	0.05
Power:	0.801
Model Parameters	
Test Statistic:	Z
Input Method:	Standardized Diff. of Means
Standardized Diff. $((\mu_t - \mu_c)/\sigma)$ :	0.25
Allocation Ratio $(n_t/n_c)$ :	1
Boundary Parameters	
Spacing of Looks:	Equal
Efficacy Boundary:	LD (OF)

### Stopping Boundaries: Look by Look

Look #	Info. Fraction $(n/n_{max})$	Sample Size (n)	Cumulative $\alpha$ Spent	Boundaries		Incr. Boundary Crossing Prob.			
						Under H0		Under H1	
				Efficacy Z		Efficacy		Efficacy	
Upper	Lower	Upper	Lower	Upper	Lower				
1	0.25	128	1.443E-5	4.337	-4.337	7.217E-6	7.217E-6	0.002	4.426E-9
2	0.501	257	0.003	2.96	-2.96	0.002	0.002	0.168	3.451E-7
3	0.75	385	0.019	2.358	-2.358	0.008	0.008	0.372	6.971E-7
4	1	513	0.05	2.014	-2.014	0.015	0.015	0.259	5.04E-7

### Sample Size Information:

	Maximum	Expected H1	Expected H0
Sample Size (n)	513	421.767	510.127
Sample Size Treatment $(n_t)$	256	210.384	254.564
Sample Size Control $(n_c)$	257	211.383	255.564
Information	128.25	105.442	127.532