

Design: Survival Endpoint: Two-Sample Test - Parallel Design - Logrank Given Accrual Duration and Accrual Rates

Test Parameters	
Design ID:	Futility
Design Type:	Superiority
Number of Looks:	3
Test Type:	2-Sided
Specified α :	0.05
Attained α :	0.047
Power:	0.802
Model Parameters	
HR = λ_t/λ_c	
Under H0:	1
Under H1:	0.7
Ratio of Medians:	1.429
Var (Log HR):	Null
Allocation Ratio (n_t/n_c):	1
Boundary Parameters	
Spacing of Looks:	Equal
Efficacy Boundary:	LD (OF)
Futility Boundary:	LD (OF) (NB)
Accrual/Dropout Parameters	
Accrual Duration:	16.667
Max Study Duration:	24.289
Dropout:	No

Stopping Boundaries: Look by Look

Look #	Info. Fraction (s/s_max)	Events (s)	Cumulative α Spent	Cumulative β Spent	Boundaries			
					Efficacy Z		Futility Z	
					Upper	Lower	Upper	Lower
1	0.335	88	2.134E-4	0.009	3.703	-3.703	0.044	-0.044
2	0.665	175	0.012	0.086	2.514	-2.514	0.964	-0.964
3	1	263	0.05	0.198	1.993	-1.993	1.993	-1.993

Events, Sample Size, Pipeline and Analysis Times: Look by Look (Under H0)

Look #	Info. Fraction (s/s_max)	Sample Size (n)	Events (s)	Pipeline (n-s)	Analysis Time	Incr. Boundary Crossing Prob.		
						Under H0		
						Efficacy		Futility
Upper	Lower							
1	0.335	335	88	247	11.158	1.067E-4	1.067E-4	0.035
2	0.665	494	175	319	16.453	0.006	0.006	0.636
3	1	500	263	237	21.921	0.017	0.017	0.282

Events, Sample Size, Pipeline and Analysis Times: Look by Look (Under H1)

Look #	Info. Fraction (s/s_max)	Sample Size (n)	Events (s)	Pipeline (n-s)	Analysis Time	Incr. Boundary Crossing Prob.		
						Under H1		
						Efficacy		Futility
Upper	Lower							
1	0.335	362	88	274	12.034	3.817E-8	0.021	0.009
2	0.665	500	175	325	17.742	5.438E-7	0.417	0.078
3	1	500	263	237	24.289	4.11E-7	0.363	0.112

Survival Info. : Median Survival Times

Median Survival Times		Hazard Ratio
Control (λ_c)	Treatment (λ_t)	Alt. (λ_t/λ_c)
12	17.143	0.7

Accrual Info. :

Period #	At	Accrual Rate
1	0	30

Sample Size Information:

	Maximum	Expected H1	Expected H0
Sample Size (n)	500	495.842	489.964
Sample Size Treatment (n_t)	251	247.921	244.982
Sample Size Control (n_c)	249	247.921	244.982
Events (s)	263	214.2	199.789
Events Treatment (s_t)	117	95.368	101.351
Events Control (s_c)	146	122.7	101.351
Accrual Duration	16.667	16.528	16.332
Study Duration	24.289	20.681	17.997
Information	65.75	53.55	49.947

Variable Follow-Up Design: All subjects are followed until failure, drop out or end of study.