

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

Test Parameters	
Design ID:	Des3
Design Type:	Superiority
Number of Looks:	1
Test Type:	2-Sided
Specified $\alpha$ :	0.05
Power:	0.8
Model Parameters	
HR = $\lambda_t/\lambda_c$	
Under H0:	1
Under H1:	0.667
$\delta = \ln(\text{HR})$ :	-0.405
Var (Log HR):	Null
Allocation Ratio ( $n_t/n_c$ ):	1
Accrual/Dropout Parameters	
Accrual Duration:	15
Max Study Duration:	22.481
Dropout:	No

### Output:

Upper Critical Point	1.96
Lower Critical Point	-1.96
Sample Size (n)	300
Sample Size Treatment ( $n_t$ )	150
Sample Size Control ( $n_c$ )	150
Events (s)	190.968
Events Treatment ( $s_t$ )	84.872
Events Control ( $s_c$ )	106.096
Accrual Duration	15
Study Duration	22.481
Max. Information (I_max)	47.742

### Survival Info. : Hazard Rates

Period #	Starting At	Hazard Rates		Hazard Ratio
		Control ( $\lambda_c$ )	Treatment ( $\lambda_t$ )	Alt. ( $\lambda_t/\lambda_c$ )
1	0	0.087	0.058	0.667

### Accrual Info. :

Period #	At	Accrual Rate
1	0	20

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