

Additional File 3 - Effect of varying recruitment rate on the operating characteristics of Design B1

We explored the effect of having a faster recruitment rate (80/week) and a slower recruitment rate (25/week) on the operating characteristics of Bayesian design B1, which had interim analyses that occurred on a time basis. Table A3 displays these results.

The average sample size generally increased with both a faster and slower recruitment rate. The type I error was generally slightly lower with faster and slower recruitment. The power generally increased slightly with slower recruitment in the adrenaline superior scenarios; there were no overall patterns for the power using a faster recruitment rate. More early stopping occurred with a faster recruitment rate, and less occurred with a slower recruitment rate.

Table A3. Operating characteristics of Bayesian design 1 (B1), assuming faster and slower recruitment rates

	Original recruitment (53/week)			Faster recruitment (80/week)			Slower recruitment (25/week)		
	Average sample size (sd)	Proportion stopped early (correctly)	Overall proportion declaring difference	Average sample size (sd)	Proportion stopped early (correctly)	Overall proportion declaring difference	Average sample size (sd)	Proportion stopped early (correctly)	Overall proportion declaring difference
Null: Placebo 6% vs Adrenaline 6%	7968 (390)	0.0074	<i>0.0493</i>	7972 (363)	0.0089	<i>0.0486</i>	7964 (469)	0.0062	<i>0.048</i>
Placebo 8% vs Adrenaline 6%	6100 (2075)	0.502	0.935	6324 (1861)	0.632	0.935	6975 (2243)	0.175	0.933
Placebo 6% vs Adrenaline 8%	6019 (2107)	0.525	0.928	6200 (1967)	0.641	0.936	6773 (2405)	0.209	0.95
Placebo 7% vs Adrenaline 6%	7676 (1149)	0.084	0.431	7731 (956)	0.116	0.432	7831 (989)	0.029	0.383
Placebo 6% vs Adrenaline 7%	7654 (1174)	0.09	0.433	7727 (925)	0.13	0.409	7737 (1220)	0.045	0.474
Null: Placebo 3% vs Adrenaline 3%	7980 (293)	0.0053	<i>0.044</i>	7986 (250)	0.0048	<i>0.0429</i>	7985 (291)	0.0027	<i>0.0432</i>
Placebo 5% vs Adrenaline 3%	4842 (1985)	0.779	0.994	5144 (1796)	0.902	0.992	5953 (2803)	0.351	0.997
Placebo 3% vs Adrenaline 5%	4546 (1960)	0.828	0.995	5001 (1810)	0.912	0.994	5805 (2833)	0.379	0.996
Placebo 4% vs Adrenaline 3%	7410 (1396)	0.17	0.659	7459 (1267)	0.244	0.669	7672 (1342)	0.057	0.651
Placebo 3% vs Adrenaline 4%	7285 (1524)	0.202	0.663	7394 (1322)	0.276	0.65	7650 (1372)	0.062	0.688
Null: Placebo 2% vs Adrenaline 2%	7987 (227)	0.004	<i>0.0371</i>	7991 (181)	0.0036	<i>0.0373</i>	7995 (172)	0.001	<i>0.0366</i>
Placebo 4% vs Adrenaline 2%	4140 (1641)	0.908	0.999	4549 (1580)	0.968	0.9990	5439 (2917)	0.439	1
Placebo 2% vs Adrenaline 4%	3883 (1589)	0.934	1	4333 (1559)	0.982	1	5098 (2923)	0.5	0.999
Placebo 3% vs Adrenaline 2%	7172 (1587)	0.234	0.792	7215 (1359)	0.383	0.814	7631 (1397)	0.066	0.785
Placebo 2% vs Adrenaline 3%	6991 (1709)	0.288	0.814	7165 (1422)	0.392	0.782	7604 (1442)	0.071	0.802