Composite Endpoint Analysis Report

Missing Data Matters

2016-07-04

Contents

Data Summary

```
##       AGE              TRT              SURV              Y2
##  Min.   :18.06   Min.   :0.0000   Min.   :  1.0   Min.   :17.00
##  1st Qu.:55.52   1st Qu.:0.0000   1st Qu.: 14.5   1st Qu.:37.00
##  Median :66.23   Median :0.0000   Median :365.0   Median :41.00
##  Mean   :63.72   Mean   :0.4973   Mean   :519.5   Mean   :40.86
##  3rd Qu.:75.39   3rd Qu.:1.0000   3rd Qu.:999.0   3rd Qu.:47.00
##  Max.   :90.29   Max.   :1.0000   Max.   :999.0   Max.   :53.00
##                                                   NA's   :136
##       Y1
##  Min.   :12.0
##  1st Qu.:35.0
##  Median :39.5
##  Mean   :38.7
##  3rd Qu.:45.0
##  Max.   :54.0
##  NA's   :111
```

Analysis Summary

The basic settings of the analysis are as follows:

```
## $endfml
## [1] "Y2"
##
## $duration
## [1] 365
##
## $bounds
## [1]   0 100
##
## $mindiff
## [1] 0 0
##
## $trt
## [1] "TRT"
##
## $surv
## [1] "SURV"
##
## $outcome
## [1] "Y1" "Y2"
##
## $y0
## NULL
##
## $cov
## [1] "AGE"
##
## $endp
## [1] "Y2"
```

```
## 
## $unitTime
## [1] "Days"
## 
## $parsed.endfml
## expression(with(d.frame, { Y2 }))
```
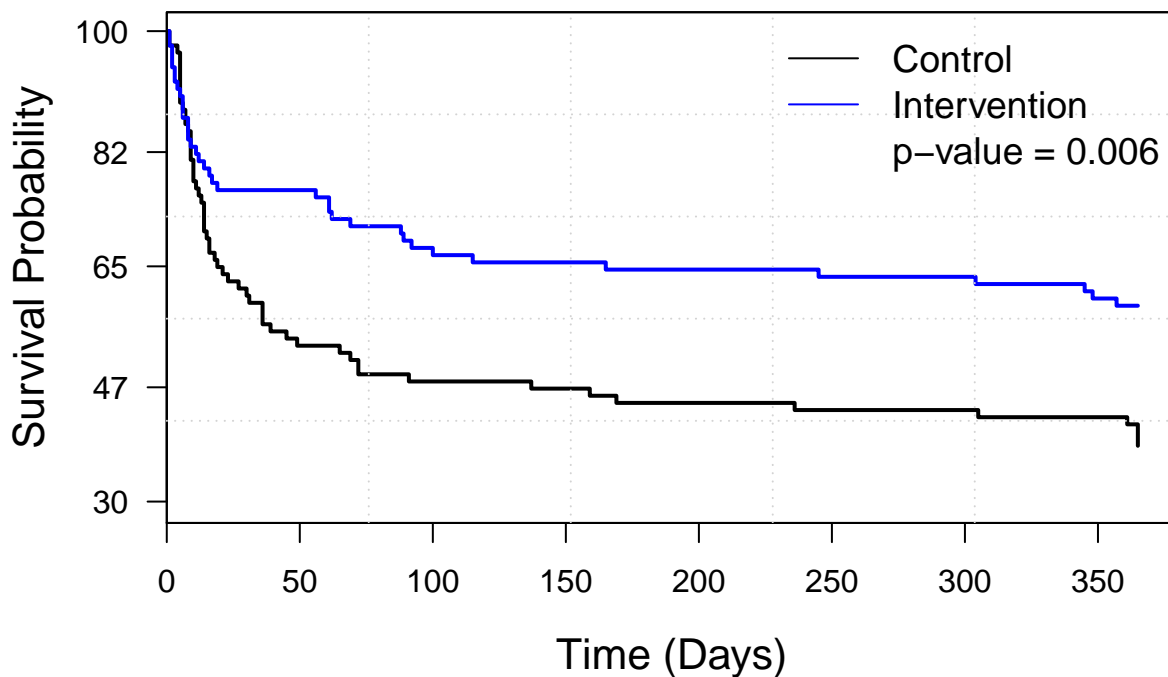
The imputation and bootstrap analysis settings are

- Iterations: 100
- Thinning: 1
- Scale of random walk MH: 1

Missingness Summary

	Y1	Y2	Control	Intervention
Deaths on study			58 (62%)	38 (41%)
S=1	Observed	Observed	18 (19%)	32 (34%)
S=2	Observed	Missing	8 (9%)	8 (9%)
S=3	Missing	Observed	1 (1%)	0 (0%)
S=4	Missing	Missing	9 (10%)	15 (16%)
Total			94	93

Survival

Survival Curves

Imputation Result

Imputed Outcomes

Control

Control

Intervention

Intervention
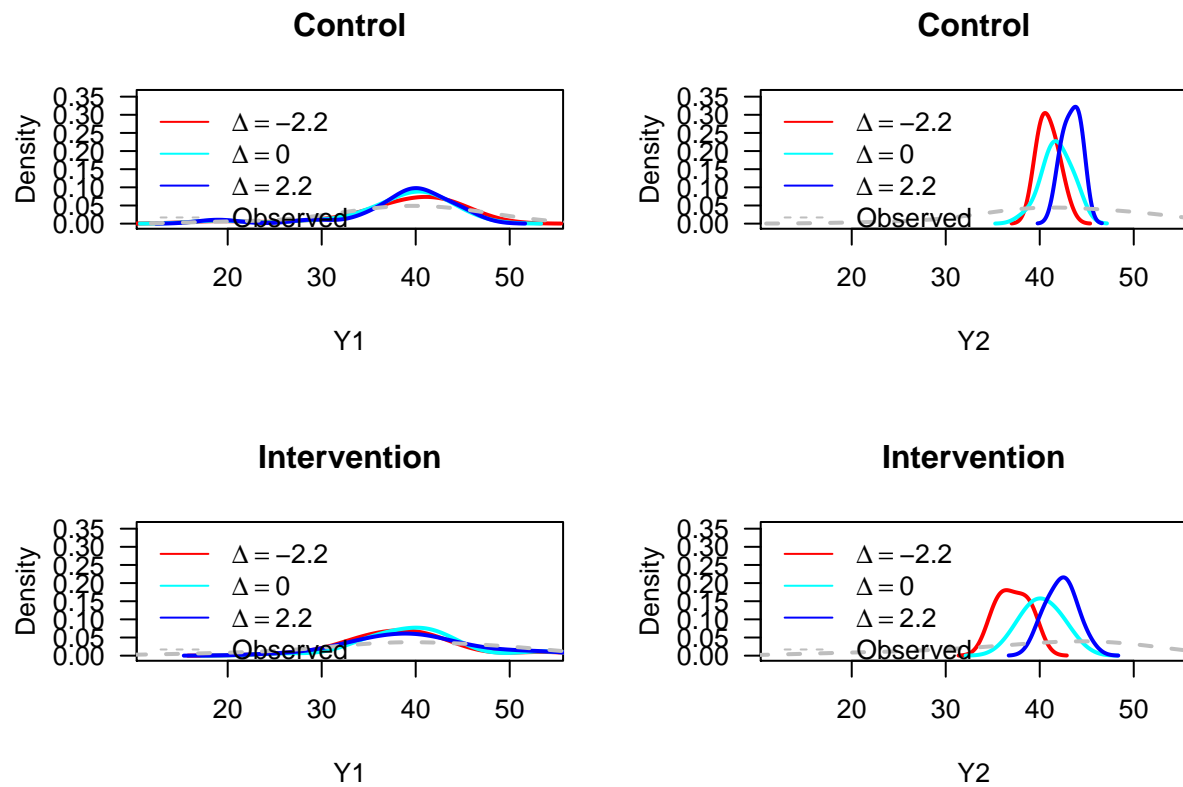
Imputed Endpoint

Control

Intervention
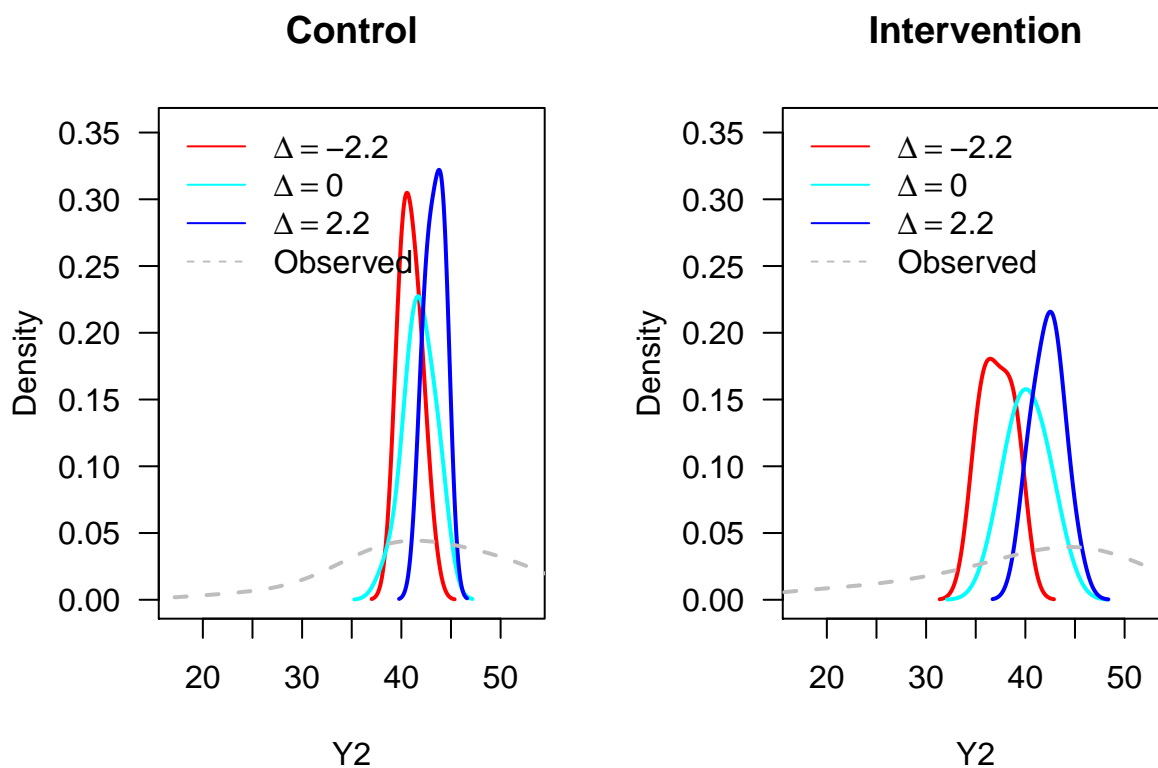
Composite Quantile
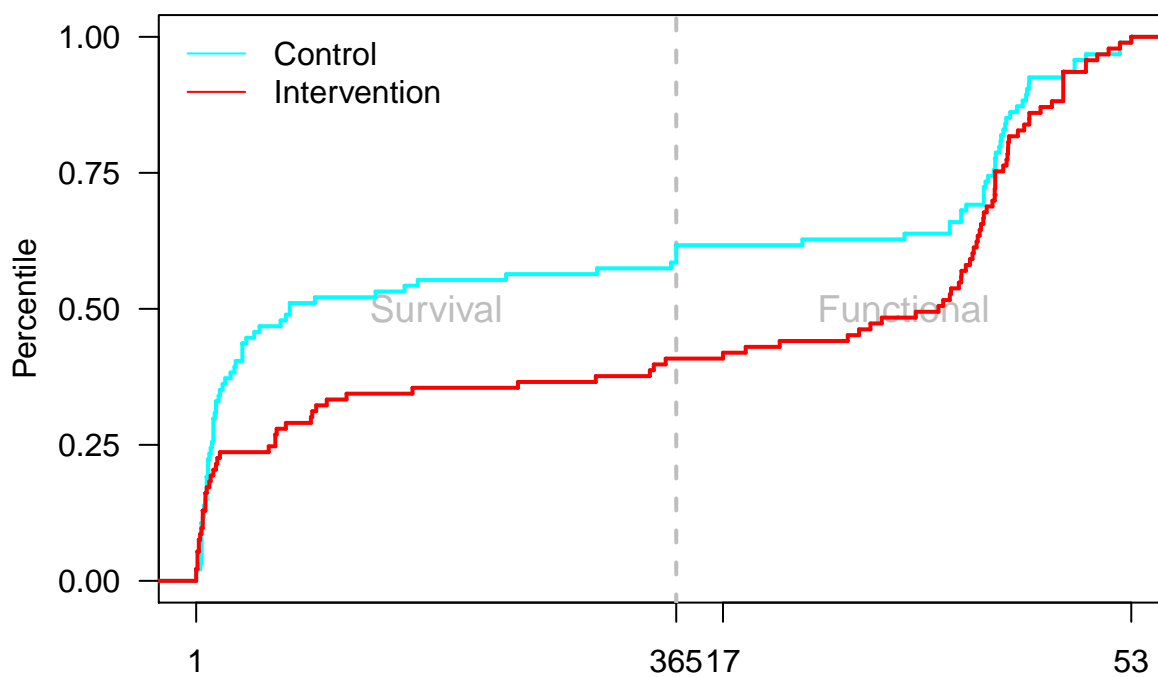
Bootstrap Results

Hypothesis Testing

	Delta0	Delta1	Theta	SD	PValue
1	-2.20	-2.20	-0.12	0.11	0.26
2	0.00	-2.20	-0.12	0.11	0.27
3	2.20	-2.20	-0.11	0.10	0.26
4	-2.20	0.00	-0.18	0.11	0.10
5	0.00	0.00	-0.16	0.11	0.13
6	2.20	0.00	-0.14	0.10	0.16
7	-2.20	2.20	-0.23	0.10	0.02
8	0.00	2.20	-0.20	0.10	0.04
9	2.20	2.20	-0.17	0.10	0.09

Median

	Delta	TRT	Q	Quant	LB	UB
1	-2.20	0.00	0.25	-1.00	-0.32	-0.03
2	-2.20	0.00	0.50	-1.00	-0.30	-0.02
3	-2.20	0.00	0.75	40.09	-0.26	-0.01
4	-2.20	1.00	0.25	-1.00	-0.34	-0.07
5	-2.20	1.00	0.50	34.74	-0.33	-0.05
6	-2.20	1.00	0.75	39.01	-0.29	-0.04
7	0.00	0.00	0.25	-1.00	-0.36	-0.12
8	0.00	0.00	0.50	-1.00	-0.35	-0.10
9	0.00	0.00	0.75	40.87	-0.34	-0.09
10	0.00	1.00	0.25	-1.00	-0.32	-0.03
11	0.00	1.00	0.50	36.00	-0.30	-0.02
12	0.00	1.00	0.75	41.00	-0.26	-0.01
13	2.20	0.00	0.25	-1.00	-0.34	-0.07
14	2.20	0.00	0.50	-1.00	-0.33	-0.05
15	2.20	0.00	0.75	41.99	-0.29	-0.04
16	2.20	1.00	0.25	-1.00	-0.36	-0.12
17	2.20	1.00	0.50	36.00	-0.35	-0.10
18	2.20	1.00	0.75	42.74	-0.34	-0.09