Primary and Secondary Analysis

October 19, 2021

Among the 591 participants who were randomized to the experimental condition, exclude participants who

- did not specify either their preferred product or charity at baseline

```
## # A tibble: 4 x 4
##   decision_point count_randomized proportion_responded_within47hours proportion_randomized_to_product
##            <dbl>            <int>                              <dbl>                             <dbl>
## 1              1              583                              0.592                             0.501
## 2              2              492                              0.559                             0.498
## 3              3              455                              0.479                             0.497
## 4              4              439                              0.444                             0.499
```

1 Participants and decision points used to estimate causal effect

Among the 591 participants who were randomized to the experimental condition, exclude participants who

- did not specify either their preferred product or charity at baseline
- had a missing value in any of the variables utilized in the noise reduction model; that is, the variables:
  - tot_days_with_any_drinks
  - typical_num_drinks_per_day
  - is_female
  - is_white_only

```
## # A tibble: 4 x 4
##   decision_point count_randomized proportion_responded_within47hours proportion_randomized_to_product
##            <dbl>            <int>                                <dbl>                           <dbl>
## 1              1              581                                0.592                           0.503
## 2              2              490                                0.559                           0.496
## 3              3              453                                0.477                           0.497
## 4              4              437                                0.444                           0.501
```

Among the 591 participants who were randomized to the experimental condition, exclude participants who

- did not specify either their preferred product or charity at baseline
- had a missing value in any of the variables utilized in the noise reduction model; that is, the variables:
  - tot_days_with_any_drinks
  - typical_num_drinks_per_day
  - is_female
  - is_white_only
- had a missing value in any of the variables utilized in the model for the causal effect; that is, the variables:
  - baseline_anxiety
  - baseline_depression
  - baseline_stress

```
## # A tibble: 4 x 4
##   decision_point count_randomized proportion_responded_within47hours proportion_randomized_to_product
##            <dbl>            <int>                                <dbl>                           <dbl>
## 1              1              567                                0.591                           0.499
## 2              2              479                                0.562                           0.497
## 3              3              443                                0.481                           0.497
## 4              4              427                                0.445                           0.499
```

2 Estimate of causal effect for Hypothesis 1

	exp_estimate	estimate	std_err	p	LB95	UB95
Intercept	0.610	-0.495	0.303	0.103	-1.090	0.100
No. of Days with any drinks	0.912	-0.092	0.062	0.137	-0.213	0.029
No. of Drinks per day	0.977	-0.023	0.038	0.544	-0.099	0.052
White (1=Yes, 0=otherwise)	1.057	0.055	0.076	0.469	-0.095	0.205
Female (1=Yes, 0=otherwise)	1.095	0.091	0.314	0.772	-0.526	0.708
Male (1=Yes, 0=otherwise)	1.042	0.041	0.318	0.896	-0.583	0.666
No. of Days elapsed since entering	0.993	-0.007	0.001	0.000	-0.009	-0.004
beta0	1.009	0.009	0.042	0.835	-0.074	0.092

3 Estimate of causal effect for Hypothesis 2

	exp_estimate	estimate	std_err	p	LB95	UB95
Intercept	0.607	-0.499	0.311	0.109	-1.110	0.112
No. of Days with any drinks	0.920	-0.084	0.062	0.176	-0.205	0.038
No. of Drinks per day	0.966	-0.035	0.039	0.370	-0.111	0.042
White (1=Yes, 0=otherwise)	1.072	0.070	0.078	0.374	-0.084	0.223
Female (1=Yes, 0=otherwise)	1.100	0.095	0.323	0.769	-0.539	0.730
Male (1=Yes, 0=otherwise)	1.050	0.049	0.327	0.880	-0.592	0.691
No. of Days elapsed since entering	0.993	-0.007	0.001	0.000	-0.009	-0.004
beta0	1.016	0.016	0.087	0.856	-0.155	0.186
beta1 (Coefficient for treatment x baseline anxiety)	0.997	-0.003	0.017	0.869	-0.037	0.031
beta2 (Coefficient for treatment x baseline depression)	1.016	0.015	0.016	0.326	-0.015	0.046
beta3 (Coefficient for treatment x baseline stress)	0.994	-0.006	0.010	0.559	-0.025	0.014