Supplementary material

Contents

1 Simulation settings

For all patients we observe covariates $x_1, \ldots, x_8$, of which 4 are continuous and 4 are binary. More specifically,

$$x_1, \ldots, x_4 \sim N(0, 1)$$
$$x_5, \ldots, x_8 \sim B(1, 0.2)$$

We first, generate the binary outcomes y for the untreated patients ($t_x = 0$), based on

$$P(y \mid \boldsymbol{x}, t_x = 0) = g(\beta_0 + \beta_1 x_1 + \cdots + \beta_8 x_8) = g(lp_0), \tag{1}$$

where

$$g(x) = \frac{e^x}{1 + e^x}$$

For treated patients, outcomes are generated from:

$$P(y \mid \boldsymbol{x}, t_x = 1) = g(lp_1) \tag{2}$$

where

$$lp_1 = \gamma_2 (lp_0 - c)^2 + \gamma_1 (lp_0 - c) + \gamma_0$$

1.1 Base-case scenario

The base-case scenario assumes a constant odds ratio of 0.8 in favor of treatment. The simulated datasets are of size $n = 4250$, where treatment is allocated at random using a 50/50 split (80% power for the detection of an unadjusted OR of 0.8, assuming an event rate of 20% in the untreated arm). Outcome incidence in the untreated population is set at 20%. For the development of the prediction model we use the model defined in (1) including a constant treatment effect. When doing predictions, t_x is set to 0. The value of the true $\boldsymbol{\beta}$ is such that the above prediction model has an AUC of 0.75.

The previously defined targets are achieved when $\boldsymbol{\beta} = (-2.08, 0.49, \ldots, 0.49)^t$. For the derivations in the treatment arm we use $\boldsymbol{\gamma} = (\log(0.8), 1, 0)^t$.

1.2 Deviations from base-case

We deviate from the base-case scenario in two ways. First, we alter the overall target settings of sample size, overall treatment effect and prediction model AUC. In a second stage, we consider settings that violate the assumption of a constant relative treatment effect, using a model-based approach.

For the first part, we consider:

- Sample size:
  - $n = 1064$
  - $n = 17000$
- Overall treatment effect:
  - $OR = 0.5$
  - $OR = 1$
- Prediction performance:

- $AUC = 0.65$
- $AUC = 0.85$

We set the true risk model coefficients to be $\boldsymbol{\beta} = \big(-1.63, 0.26, \ldots, 0.26\big)^t$ for $AUC = 0.65$ and $\boldsymbol{\beta} = \big(-2.7, 0.82, \ldots, 0.82\big)^t$ for $AUC = 0.85$. In both cases, β_0 is selected so that an event rate of 20% is maintained in the control arm.

For the second part linear, quadratic and non-monotonic deviations from the assumption of constant relative effect are considered. We also consider different intensity levels of these deviations. Finally, constant absolute treatment-related harms are introduced, i.e. positive ($0.25 \times$ true average benefit), strong positive ($0.50 \times$ true average benefit) and negative ($-0.25 \times$ true average benefit; i.e. constant absolute treatment-related benefit). In case of true absent treatment effects, treatment-related harms are set to $1\%, 2\%$ and -1% for positive, strong positive and negative setting, respectively. The settings for these deviations are defined in Table S1.

Table S1: Scenario settings of the entire simulation study.

Analysis ID					Baseline risk									True treatment effect				Benefit	
Scenario	Base	N	AUC	Treatment-related harm	b0	b1	b2	b3	b4	b5	b6	b7	b8	g0	g1	g2	c	Before harms	After harms
1	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.000
2	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.010
3	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.020
4	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.010
5	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.000
6	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.010
7	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.020
8	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.010
9	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.000
10	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.010
11	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.020
12	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.010
13	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.000
14	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.010
15	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.020
16	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.010
17	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.000
18	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.010
19	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.020
20	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.010
21	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.000
22	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.010
23	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.020
24	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.010
25	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.000
26	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.010
27	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	-0.020
28	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.000	1.000	0.000	0	0.000	0.010
29	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.000
30	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.010
31	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	-0.020
32	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.000	1.000	0.000	0	0.000	0.010
33	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.000
34	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.010
35	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	-0.020
36	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.000	1.000	0.000	0	0.000	0.010
37	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.000
38	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.010
39	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.020
40	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.010
41	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.000

42	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.010
43	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.020
44	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.010
45	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.000
46	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.010
47	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.020
48	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.010
49	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.000
50	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.010
51	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.020
52	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.010
53	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.000
54	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.010
55	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.020
56	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.010
57	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.000
58	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.010
59	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.020
60	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.010
61	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.000
62	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.010
63	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	-0.020
64	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.060	0.947	0.000	0	0.000	0.010
65	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.000
66	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.010
67	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	-0.020
68	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.080	0.934	0.000	0	0.000	0.010
69	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.000
70	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.010
71	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	-0.020
72	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.070	0.930	0.000	0	0.000	0.010
73	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.000
74	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.010
75	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.020
76	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.010
77	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.000
78	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.010
79	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.020
80	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.010
81	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.000
82	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.010
83	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.020
84	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.010
85	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.000
86	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.010

87	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.020
88	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.010
89	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.000
90	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.010
91	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.020
92	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.010
93	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.000
94	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.010
95	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.020
96	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.010
97	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.000
98	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.010
99	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	-0.020
100	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.250	0.796	0.000	0	0.000	0.010
101	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.000
102	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.010
103	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	-0.020
104	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.290	0.776	0.000	0	0.000	0.010
105	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.000
106	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.010
107	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	-0.020
108	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.220	0.785	0.000	0	0.000	0.010
109	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.000
110	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.010
111	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.020
112	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.010
113	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.000
114	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.010
115	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.020
116	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.010
117	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.000
118	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.010
119	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.020
120	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.010
121	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.000
122	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.010
123	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.020
124	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.010
125	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.000
126	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.010
127	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.020
128	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.010
129	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.000
130	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.010
131	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.020

132	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.010
133	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.000
134	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.010
135	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	-0.020
136	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.810	1.000	-0.013	-5	0.000	0.010
137	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.000
138	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.010
139	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	-0.020
140	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.770	1.000	-0.016	-5	0.000	0.010
141	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.000
142	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.010
143	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	-0.020
144	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.710	1.000	-0.016	-5	0.000	0.010
145	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.000
146	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.010
147	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.020
148	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.010
149	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.000
150	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.010
151	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.020
152	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.010
153	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.000
154	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.010
155	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.020
156	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.010
157	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.000
158	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.010
159	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.020
160	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.010
161	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.000
162	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.010
163	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.020
164	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.010
165	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.000
166	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.010
167	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.020
168	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.010
169	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.000
170	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.010
171	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	-0.020
172	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.220	1.000	-0.052	-5	0.000	0.010
173	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.000
174	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.010
175	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	-0.020
176	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.160	1.000	-0.059	-5	0.000	0.010

177	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.000
178	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.010
179	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	-0.020
180	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-3.950	1.000	-0.059	-5	0.000	0.010
181	absent	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.000
182	absent	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.010
183	absent	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.020
184	absent	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.010
185	absent	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.000
186	absent	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.010
187	absent	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.020
188	absent	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.010
189	absent	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.000
190	absent	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.010
191	absent	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.020
192	absent	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.010
193	absent	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.000
194	absent	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.010
195	absent	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.020
196	absent	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.010
197	absent	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.000
198	absent	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.010
199	absent	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.020
200	absent	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.010
201	absent	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.000
202	absent	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.010
203	absent	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.020
204	absent	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.010
205	absent	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.000
206	absent	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.010
207	absent	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	-0.020
208	absent	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	2.490	4.210	0.540	0	0.000	0.010
209	absent	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.000
210	absent	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.010
211	absent	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	-0.020
212	absent	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2.150	3.320	0.380	0	0.000	0.010
213	absent	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.000
214	absent	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.010
215	absent	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	-0.020
216	absent	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.740	4.100	0.550	0	0.000	0.010
217	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.029
218	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.022
219	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.015
220	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.036
221	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.033

222	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.025
223	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.016
224	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.041
225	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.024
226	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.018
227	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.012
228	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.030
229	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.029
230	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.022
231	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.015
232	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.036
233	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.033
234	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.025
235	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.016
236	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.041
237	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.024
238	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.018
239	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.012
240	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.030
241	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.029
242	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.022
243	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.015
244	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.223	1.000	0.000	0	0.029	0.036
245	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.033
246	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.025
247	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.016
248	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.223	1.000	0.000	0	0.033	0.041
249	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.024
250	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.018
251	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.012
252	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.223	1.000	0.000	0	0.024	0.030
253	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.029
254	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.022
255	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.015
256	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.036
257	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.033
258	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.025
259	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.016
260	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.041
261	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.024
262	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.018
263	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.012
264	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.030
265	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.029
266	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.022

267	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.015
268	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.036
269	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.033
270	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.025
271	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.016
272	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.041
273	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.024
274	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.018
275	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.012
276	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.030
277	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.029
278	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.022
279	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.015
280	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.290	0.947	0.000	0	0.029	0.036
281	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.033
282	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.025
283	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.016
284	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.300	0.934	0.000	0	0.033	0.041
285	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.024
286	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.018
287	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.012
288	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.280	0.930	0.000	0	0.024	0.030
289	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.029
290	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.022
291	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.015
292	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.036
293	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.033
294	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.025
295	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.016
296	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.041
297	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.024
298	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.018
299	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.012
300	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.030
301	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.029
302	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.022
303	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.015
304	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.036
305	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.033
306	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.025
307	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.016
308	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.041
309	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.024
310	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.018
311	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.012

312	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.030
313	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.029
314	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.022
315	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.015
316	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.460	0.796	0.000	0	0.029	0.036
317	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.033
318	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.025
319	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.016
320	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.500	0.776	0.000	0	0.033	0.041
321	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.024
322	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.018
323	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.012
324	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.410	0.785	0.000	0	0.024	0.030
325	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.029
326	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.022
327	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.015
328	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.036
329	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.033
330	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.025
331	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.016
332	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.041
333	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.024
334	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.018
335	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.012
336	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.030
337	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.029
338	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.022
339	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.015
340	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.036
341	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.033
342	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.025
343	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.016
344	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.041
345	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.024
346	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.018
347	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.012
348	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.030
349	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.029
350	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.022
351	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.015
352	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.020	1.000	-0.013	-5	0.029	0.036
353	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.033
354	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.025
355	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.016
356	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.990	1.000	-0.016	-5	0.033	0.041

357	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.024
358	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.018
359	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.012
360	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.910	1.000	-0.016	-5	0.024	0.030
361	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.029
362	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.022
363	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.015
364	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.036
365	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.033
366	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.025
367	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.016
368	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.041
369	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.024
370	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.018
371	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.012
372	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.030
373	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.029
374	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.022
375	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.015
376	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.036
377	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.033
378	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.025
379	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.016
380	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.041
381	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.024
382	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.018
383	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.012
384	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.030
385	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.029
386	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.022
387	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.015
388	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.420	1.000	-0.052	-5	0.029	0.036
389	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.033
390	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.025
391	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.016
392	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.380	1.000	-0.059	-5	0.033	0.041
393	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.024
394	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.018
395	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.012
396	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.130	1.000	-0.059	-5	0.024	0.030
397	moderate	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.029
398	moderate	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.022
399	moderate	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.015
400	moderate	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.036
401	moderate	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.033

402	moderate	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.025
403	moderate	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.016
404	moderate	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.041
405	moderate	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.024
406	moderate	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.018
407	moderate	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.012
408	moderate	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.030
409	moderate	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.029
410	moderate	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.022
411	moderate	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.015
412	moderate	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.036
413	moderate	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.033
414	moderate	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.025
415	moderate	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.016
416	moderate	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.041
417	moderate	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.024
418	moderate	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.018
419	moderate	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.012
420	moderate	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.030
421	moderate	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.029
422	moderate	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.022
423	moderate	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.015
424	moderate	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.173	1.560	0.105	0	0.029	0.036
425	moderate	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.033
426	moderate	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.025
427	moderate	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.016
428	moderate	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.481	1.783	0.137	0	0.033	0.041
429	moderate	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.024
430	moderate	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.018
431	moderate	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.012
432	moderate	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.085	1.354	0.074	0	0.024	0.030
433	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.079
434	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.059
435	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.040
436	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.099
437	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.089
438	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.067
439	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.044
440	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.111
441	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.069
442	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.052
443	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.034
444	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.086
445	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.079
446	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.059

447	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.040
448	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.099
449	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.089
450	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.067
451	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.044
452	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.111
453	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.069
454	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.052
455	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.034
456	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.086
457	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.079
458	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.059
459	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.040
460	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.693	1.000	0.000	0	0.079	0.099
461	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.089
462	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.067
463	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.044
464	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.693	1.000	0.000	0	0.089	0.111
465	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.069
466	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.052
467	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.034
468	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.693	1.000	0.000	0	0.069	0.086
469	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.079
470	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.059
471	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.040
472	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.099
473	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.089
474	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.067
475	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.044
476	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.111
477	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.069
478	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.052
479	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.034
480	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.086
481	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.079
482	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.059
483	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.040
484	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.099
485	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.089
486	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.067
487	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.044
488	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.111
489	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.069
490	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.052
491	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.034

492	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.086
493	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.079
494	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.059
495	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.040
496	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.750	0.947	0.000	0	0.079	0.099
497	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.089
498	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.067
499	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.044
500	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.770	0.934	0.000	0	0.089	0.111
501	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.069
502	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.052
503	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.034
504	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.730	0.930	0.000	0	0.069	0.086
505	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.079
506	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.059
507	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.040
508	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.099
509	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.089
510	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.067
511	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.044
512	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.111
513	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.069
514	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.052
515	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.034
516	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.086
517	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.079
518	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.059
519	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.040
520	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.099
521	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.089
522	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.067
523	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.044
524	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.111
525	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.069
526	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.052
527	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.034
528	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.086
529	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.079
530	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.059
531	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.040
532	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.900	0.796	0.000	0	0.079	0.099
533	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.089
534	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.067
535	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.044
536	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-0.960	0.776	0.000	0	0.089	0.111

537	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.069
538	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.052
539	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.034
540	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.840	0.785	0.000	0	0.069	0.086
541	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.079
542	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.059
543	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.040
544	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.099
545	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.089
546	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.067
547	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.044
548	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.111
549	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.069
550	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.052
551	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.034
552	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.086
553	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.079
554	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.059
555	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.040
556	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.099
557	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.089
558	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.067
559	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.044
560	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.111
561	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.069
562	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.052
563	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.034
564	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.086
565	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.079
566	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.059
567	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.040
568	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-5.480	1.000	-0.013	-5	0.079	0.099
569	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.089
570	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.067
571	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.044
572	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-5.460	1.000	-0.016	-5	0.089	0.111
573	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.069
574	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.052
575	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.034
576	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-5.350	1.000	-0.016	-5	0.069	0.086
577	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.079
578	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.059
579	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.040
580	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.099
581	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.089

582	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.067
583	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.044
584	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.111
585	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.069
586	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.052
587	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.034
588	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.086
589	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.079
590	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.059
591	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.040
592	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.099
593	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.089
594	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.067
595	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.044
596	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.111
597	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.069
598	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.052
599	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.034
600	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.086
601	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.079
602	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.059
603	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.040
604	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-4.860	1.000	-0.052	-5	0.079	0.099
605	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.089
606	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.067
607	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.044
608	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-4.840	1.000	-0.059	-5	0.089	0.111
609	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.069
610	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.052
611	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.034
612	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-4.510	1.000	-0.059	-5	0.069	0.086
613	high	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.079
614	high	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.059
615	high	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.040
616	high	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.099
617	high	4,250	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.089
618	high	4,250	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.067
619	high	4,250	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.044
620	high	4,250	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.111
621	high	4,250	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.069
622	high	4,250	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.052
623	high	4,250	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.034
624	high	4,250	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.086
625	high	1,063	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.079
626	high	1,063	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.059

627	high	1,063	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.040
628	high	1,063	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.099
629	high	1,063	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.089
630	high	1,063	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.067
631	high	1,063	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.044
632	high	1,063	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.111
633	high	1,063	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.069
634	high	1,063	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.052
635	high	1,063	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.034
636	high	1,063	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.086
637	high	17,000	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.079
638	high	17,000	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.059
639	high	17,000	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.040
640	high	17,000	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.084	2.035	0.210	0	0.079	0.099
641	high	17,000	0.65	absent	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.089
642	high	17,000	0.65	moderate-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.067
643	high	17,000	0.65	strong-positive	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.044
644	high	17,000	0.65	negative	-1.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.786	2.762	0.321	0	0.089	0.111
645	high	17,000	0.85	absent	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.069
646	high	17,000	0.85	moderate-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.052
647	high	17,000	0.85	strong-positive	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.034
648	high	17,000	0.85	negative	-2.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	-0.621	1.566	0.138	0	0.069	0.086

2 Plausible scenario settings

In this section we present specific scenarios from our simulation settings in which evolution of benefit followed similar patterns to [1]. In this case patients were stratified into risk quarters based on their true baseline risk. Within each risk quarter we constructed boxplots of true benefit.

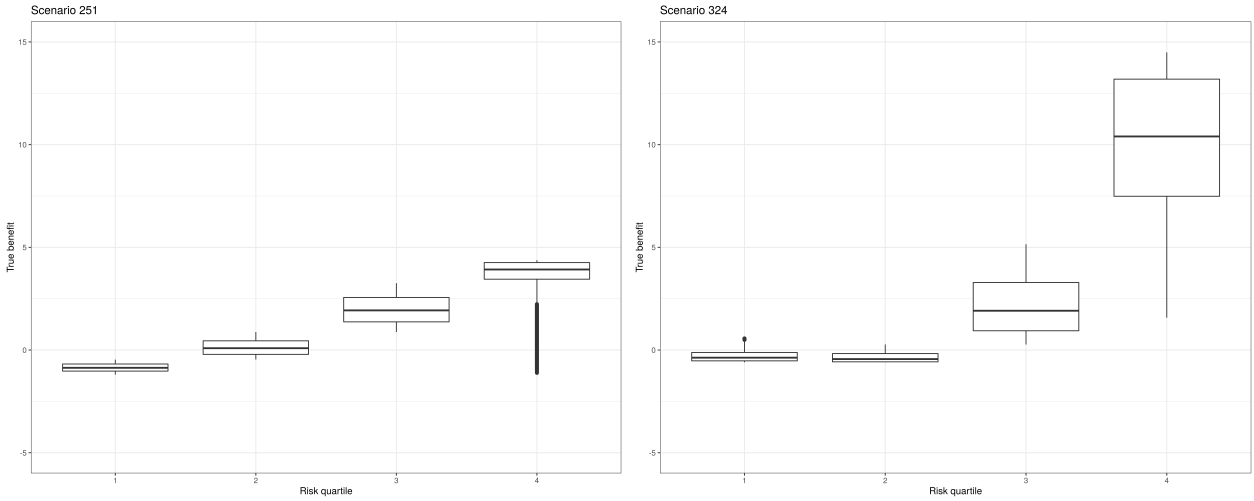

Figure S1: Simulation scenarios that closely follow trials. In this case, we see increasing absolute benefits with increasing baseline risk.

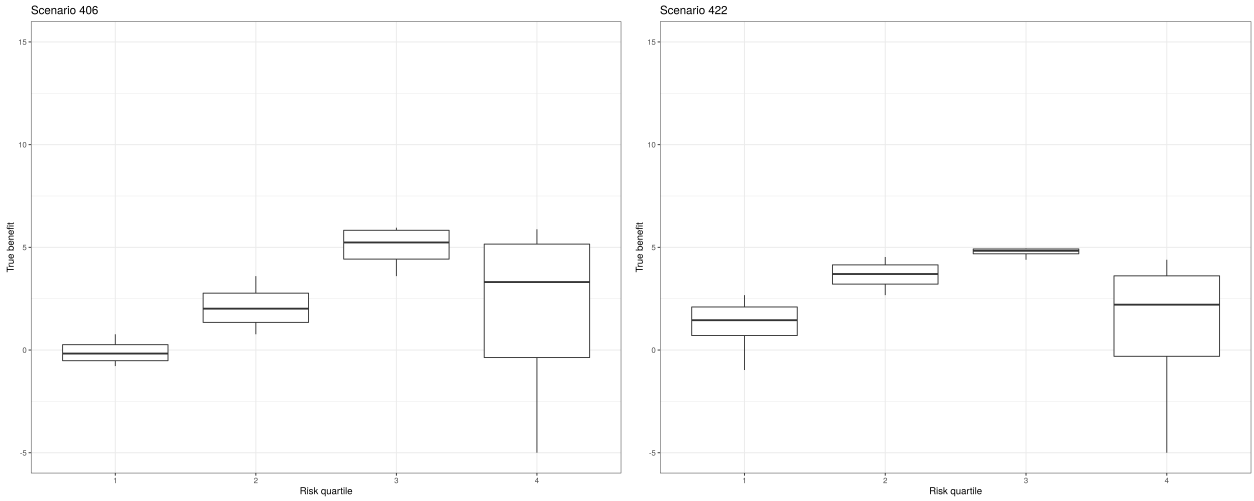

Figure S2: Simulation scenarios that closely follow trials. In this case, we see increasing absolute benefits with increasing baseline risk up to the third risk quarter. In the fourth risk quarter this trend is interrupted and benefits are diminished.

3 Approaches to individualize benefit predictions

3.1 Risk modeling

Merging treatment arms, we develop prediction models including a constant relative treatment effect:

$$P(y = 1 \mid \boldsymbol{x}, t_x) = g(\boldsymbol{x}^t\boldsymbol{\beta} + \gamma t_x) \tag{3}$$

The risk linear predictor is then $lp(\boldsymbol{x}; \boldsymbol{\beta}) = \boldsymbol{x}^t\boldsymbol{\beta}$. We derive baseline risk predictions for patients by setting $t_x = 0$ in (3.1). All methods for individualizing benefit predictions are 2-stage methods, that start by fitting a model for predicting baseline risk. The estimated linear predictor of this model is

$$\hat{lp} = lp(\boldsymbol{x}; \hat{\boldsymbol{\beta}}) = \boldsymbol{x}^t\hat{\boldsymbol{\beta}}$$

3.2 Risk stratification

Derive a prediction model using the same approach as above and divide the population in equally sized risk-based subgroups. Estimate subgroup-specific absolute benefit from the observed absolute differences. Subject-specific benefit predictions are made by attributing to individuals their corresponding subgroup-specific estimate.

3.3 Constant treatment effect

Assuming a constant relative treatment effect, fit the adjusted model in (3.1). Then, an estimate of absolute benefit can be derived from

$$\tau(lp; \hat{\boldsymbol{\beta}}, \hat{\gamma}) = g(\hat{lp}) - g(\hat{lp} + \hat{\gamma})$$

3.4 Linear interaction

The assumption of constant relative treatment effect is relaxed modeling a linear interaction of treatment with the risk linear predictor:

$$P(y = 1 \mid lp, t_x; \hat{\boldsymbol{\beta}}) = g(\delta_0 + \delta_1\hat{lp} + \gamma_0 t_x + \gamma_1\hat{lp}t_x)$$

Then the predicted absolute benefit is

$$\tau(lp; \hat{\boldsymbol{\beta}}, \boldsymbol{\gamma}, \boldsymbol{\delta}) = g(\delta_0 + \delta_1\hat{lp}) - g\big((\delta_0 + \gamma_0) + (\delta_1 + \gamma_1)\hat{lp}\big)$$

3.5 Restricted cubic splines

Finally, we drop the linearity assumption and predict absolute benefit using smoothing with restricted cubic splines with $k = 3, 4$ and 5 knots. More specifically, we fit the model:

$$P(y = 1|lp, t_x; \hat{\boldsymbol{\beta}}, \boldsymbol{\delta}, f_{RCS}) = g\big(\delta_0 + \gamma t_x + f_{RCS}(\hat{lp}) \times t_x\big)$$

where

$$f_{RCS}(x) = \alpha_0 + \alpha_1 h_1(x) + \alpha_2 h_2(x) + \cdots + \alpha_{k-1} h_{k-1}(x)$$

with $h_1(x) = x$ and for $j = 2, \ldots, k-2$

$$h_{j+1}(x) = (x - t_j)^3 - (x - t_{k-1})_+^3 \frac{t_k - t_j}{t_k - t_{k-1}} + (x - t_k)_+^3 \frac{t_{k-1} - t_j}{t_k - t_{k-1}}$$

where $t_1, \ldots, t_k$ are the selected knots. We predict absolute benefit from

$$\tau(lp; \hat{\boldsymbol{\beta}}, \delta_0, f_{RCS}) = P(y = 1 \mid \hat{lp}, t_x = 0) - P(y = 1 \mid \hat{lp}, t_x = 1)$$

4 Adaptive model selection frequencies

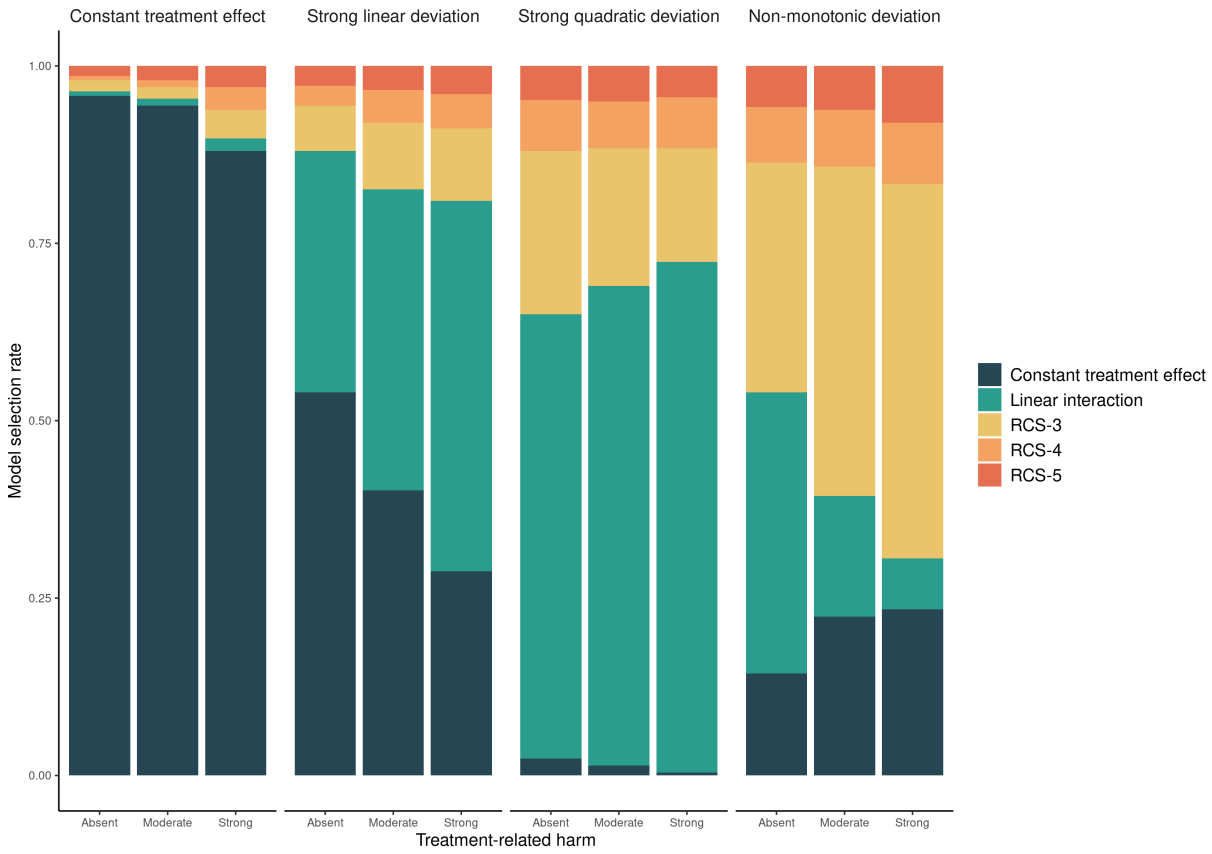

Figure S3: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. The scenario with the true constant relative treatment effect (first panel) had a true prediction AUC of 0.75 and sample size of 4,250.

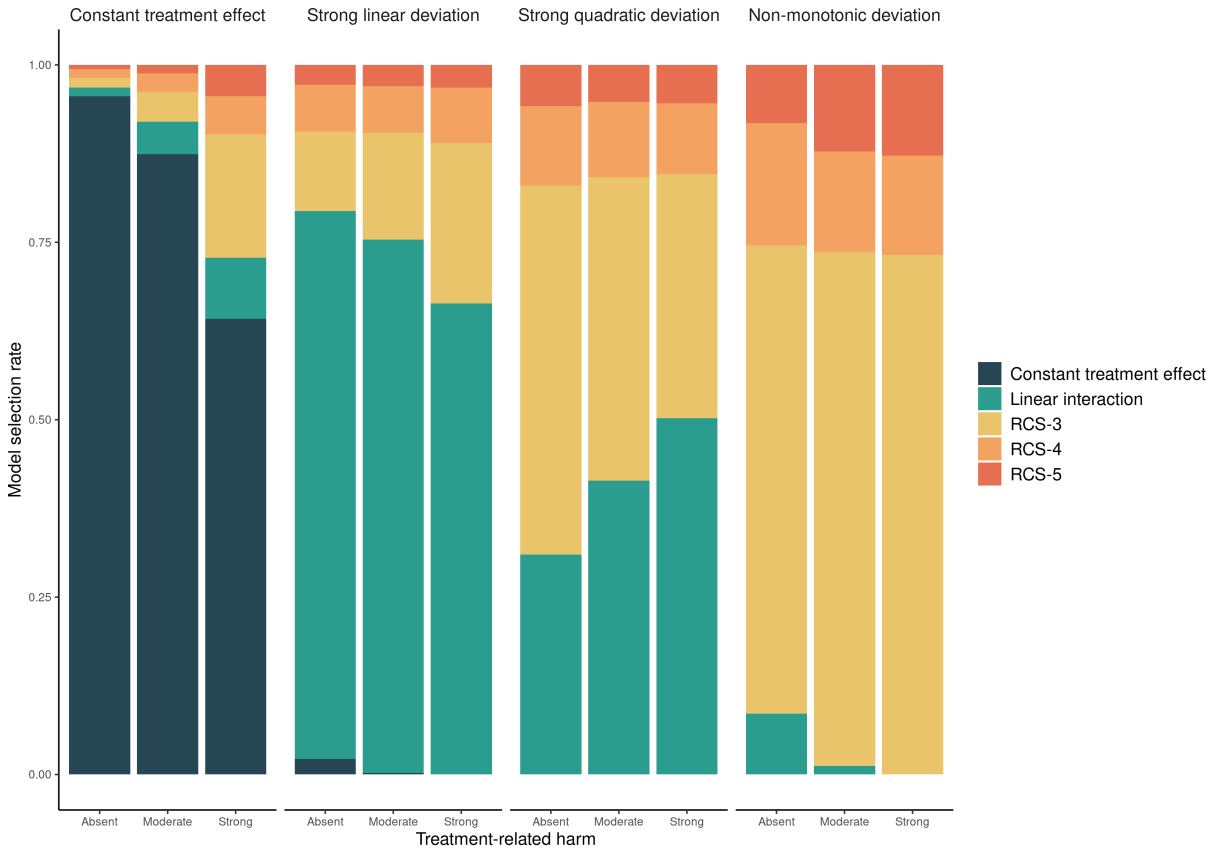

Figure S4: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. Sample size is 17,000 rather than 4,250 in Figure S3

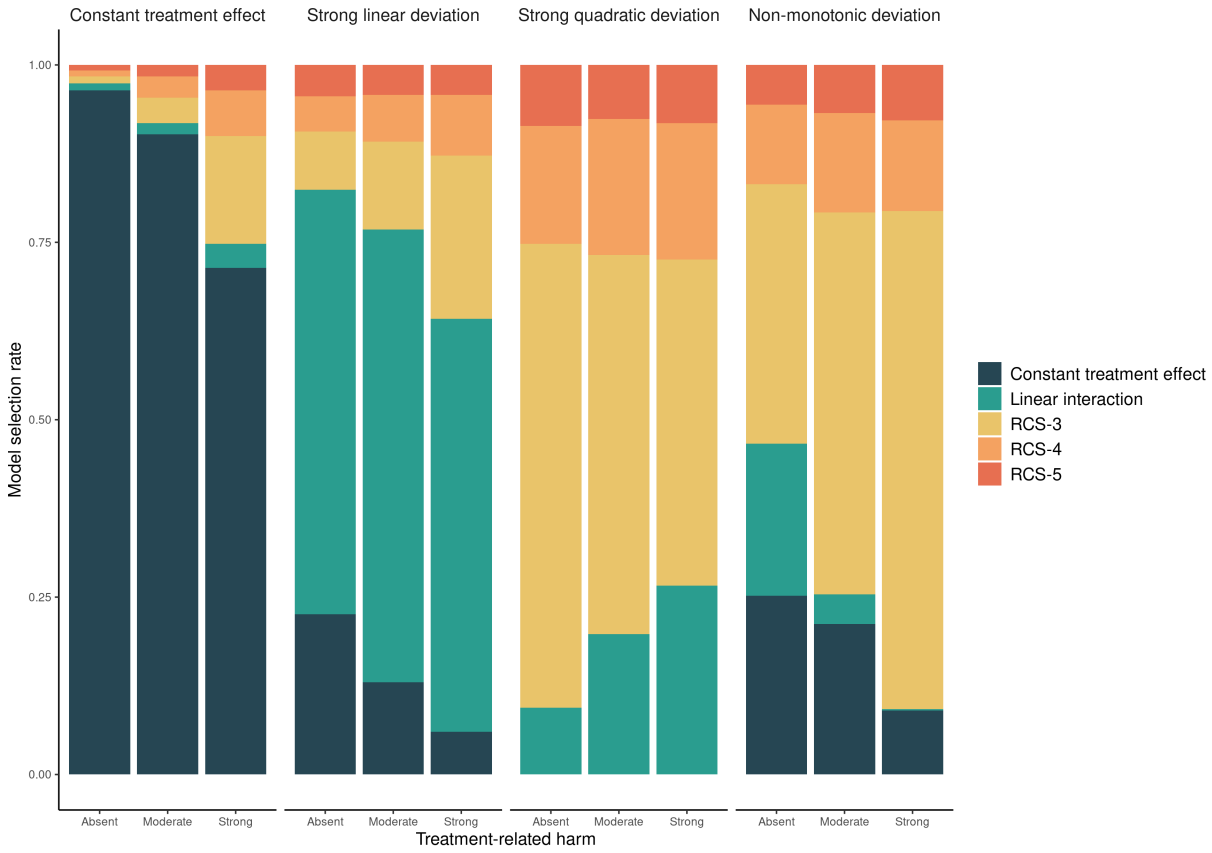

Figure S5: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. AUC is 0.85 rather than 0.75 in Figure S3

5 Discrimination and calibration for benefit

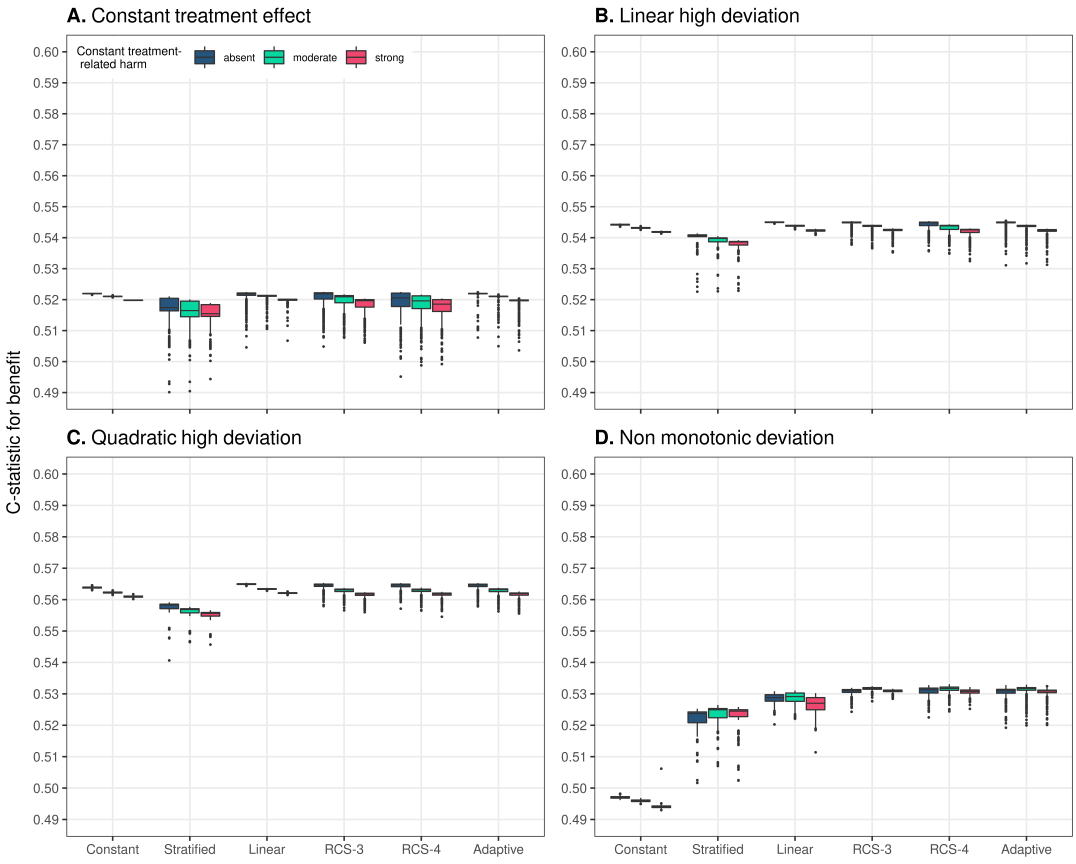

Figure S6: Discrimination for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.75 and sample size of 17,000

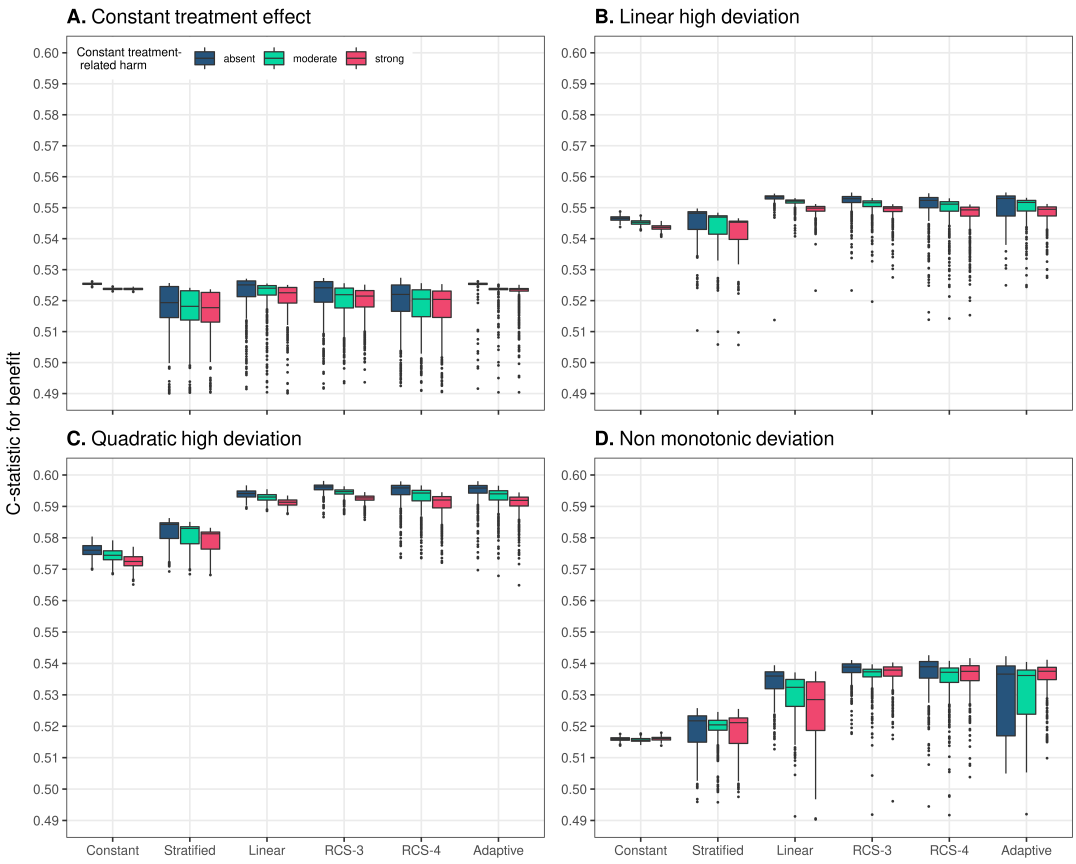

Figure S7: Discrimination for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.85 and sample size of 4,250

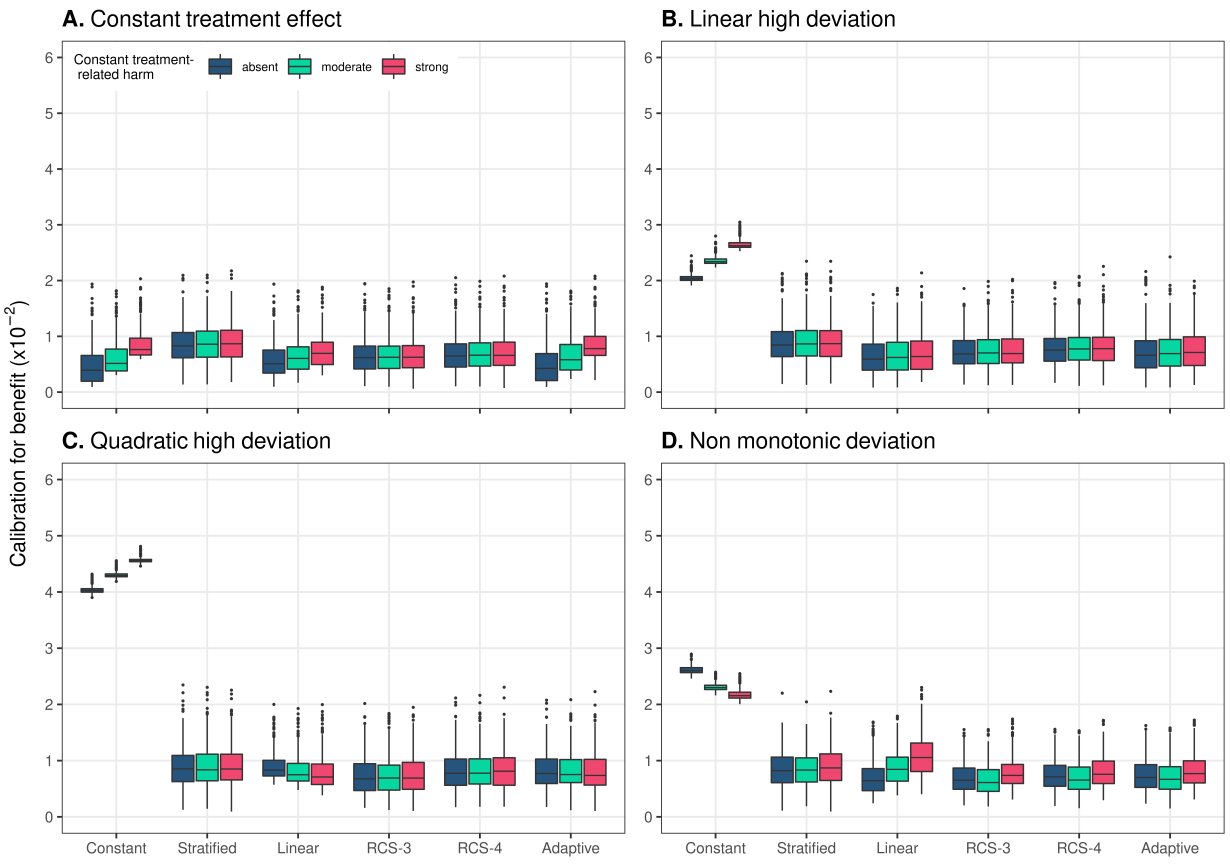

Figure S8: Calibration for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.75 and sample size of 17,000

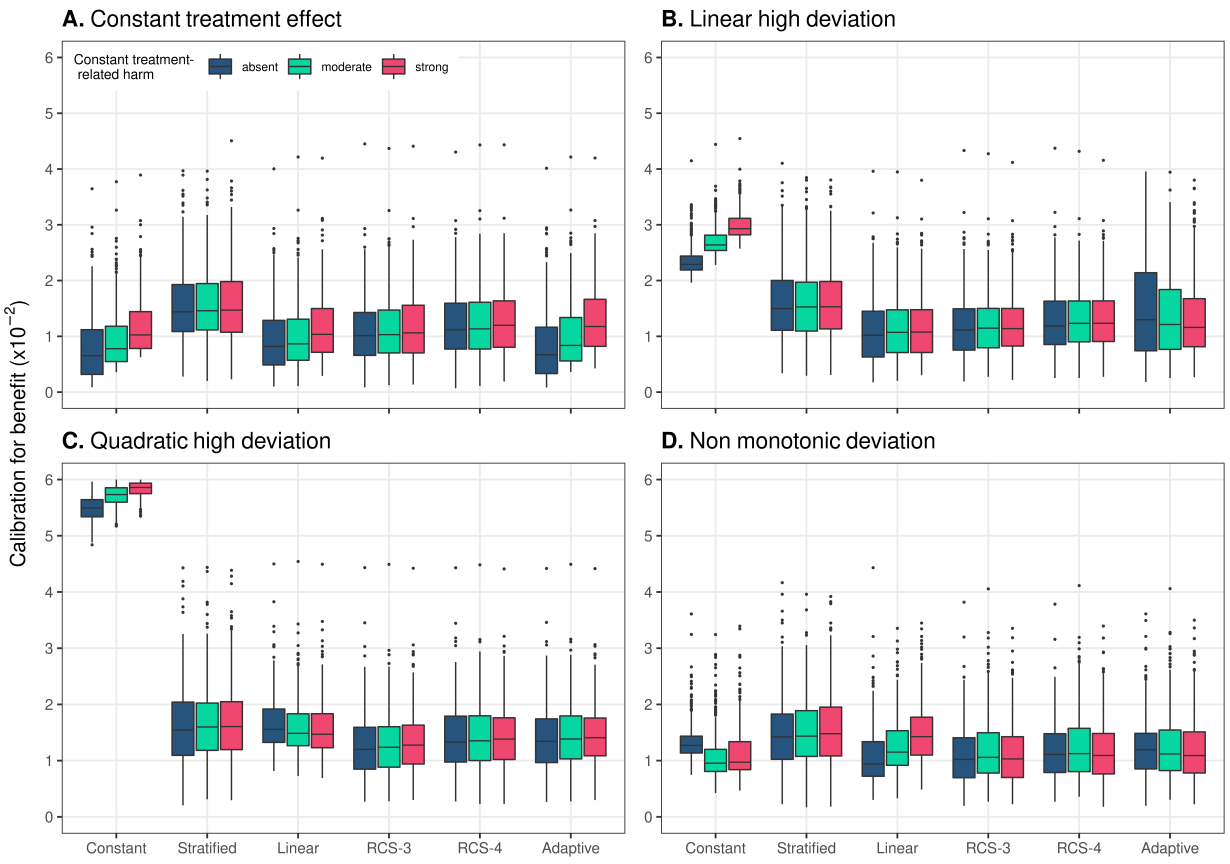

Figure S9: Calibration for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.85 and sample size of 4,250

6 Strong relative treatment effect

Here we present the root mean squared error of the considered methods using strong constant relative treatment effect (OR = 0.5) as the reference. Again, the same sample size and prediction performance settings were considered along with the same settings for linear, quadratic and non-monotonic deviations from the base case scenario of constant relative treatment effects are considered. All results can be found at https://arekkas.shinyapps.io/simulation_viewer/.

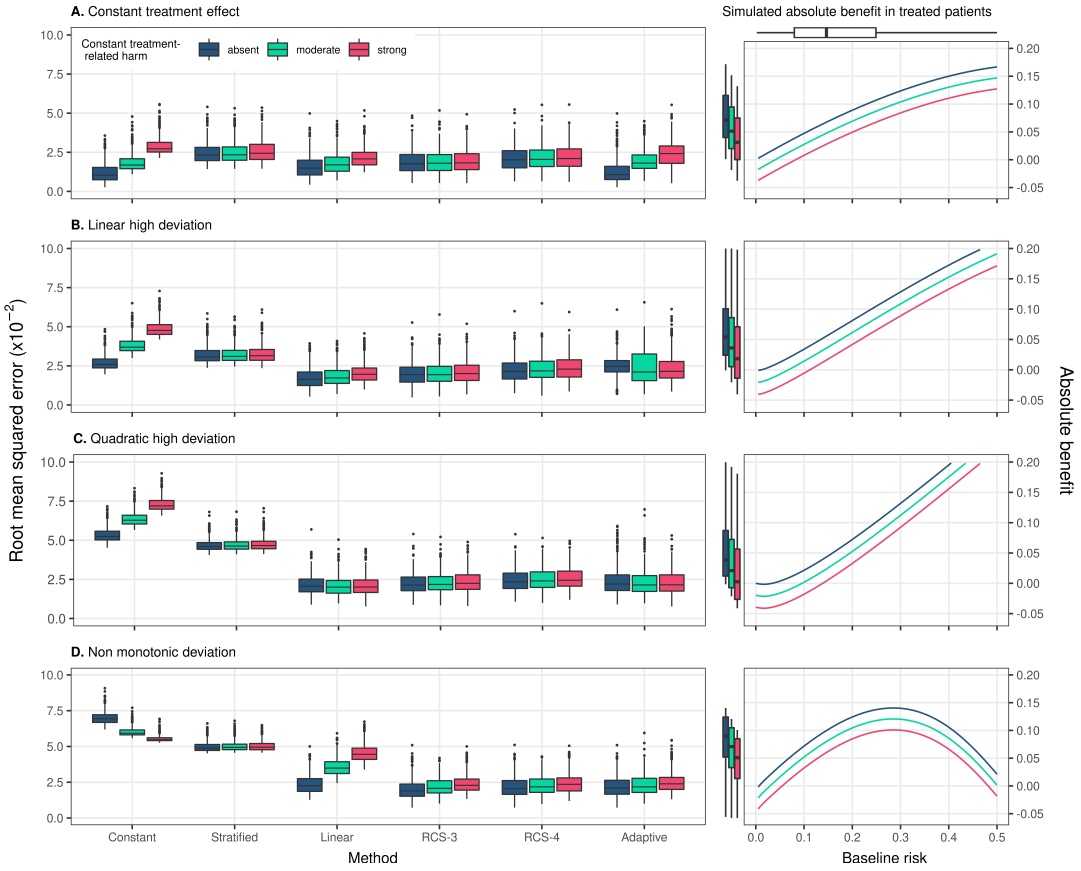

Figure S10: RMSE of the considered methods across 500 replications calculated in a simulated super-population of size 500,000. The scenario with true constant relative treatment effect (panel A) had a true prediction AUC of 0.75 and sample size of 4,250. The RMSE is also presented for strong linear (panel B), strong quadratic (panel C), and non-monotonic (panel D) deviations from constant relative treatment effects. Panels on the right side present the true relationship between baseline risk (x-axis) and absolute treatment benefit (y-axis). The 2.5, 25, 75 and 97.5 percentiles of the risk distribution are expressed in the boxplot.

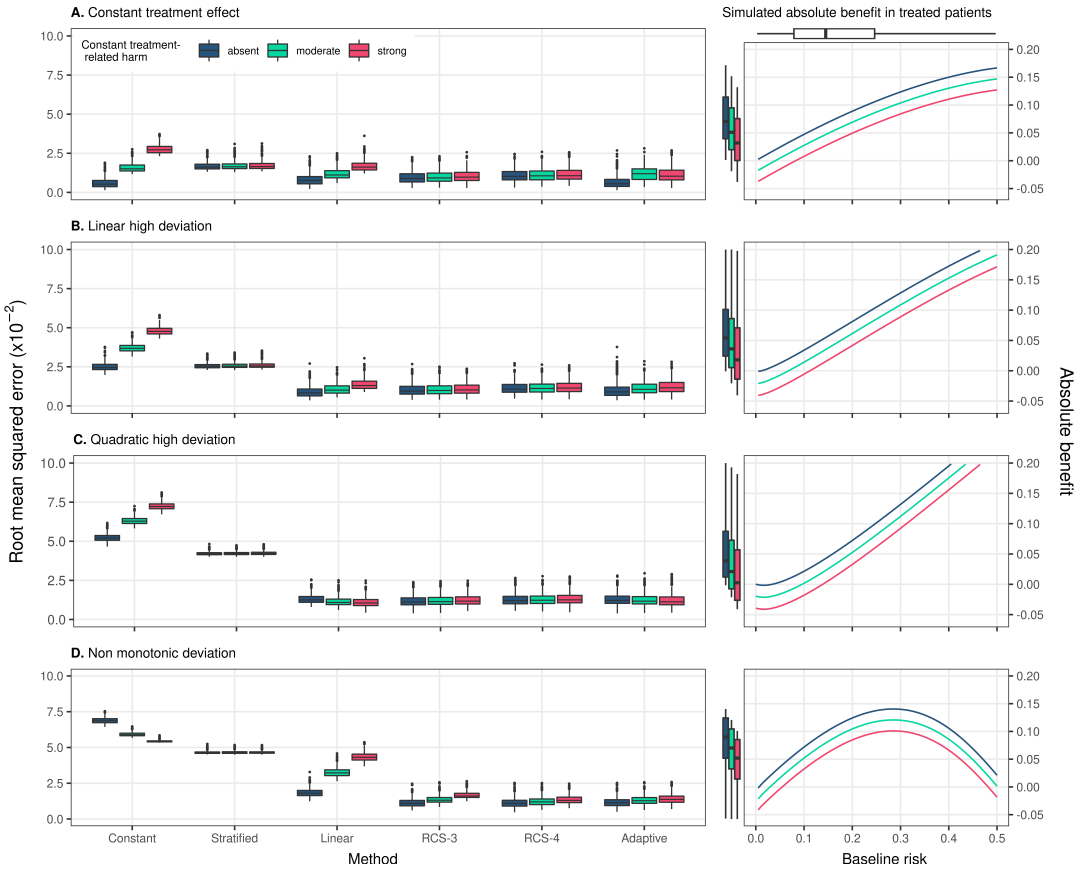

Figure S11: RMSE of the considered methods across 500 replcations calculated in a simulated sample of size 500,000. Sample size is 17,000 rather than 4,250 in Figure S10.

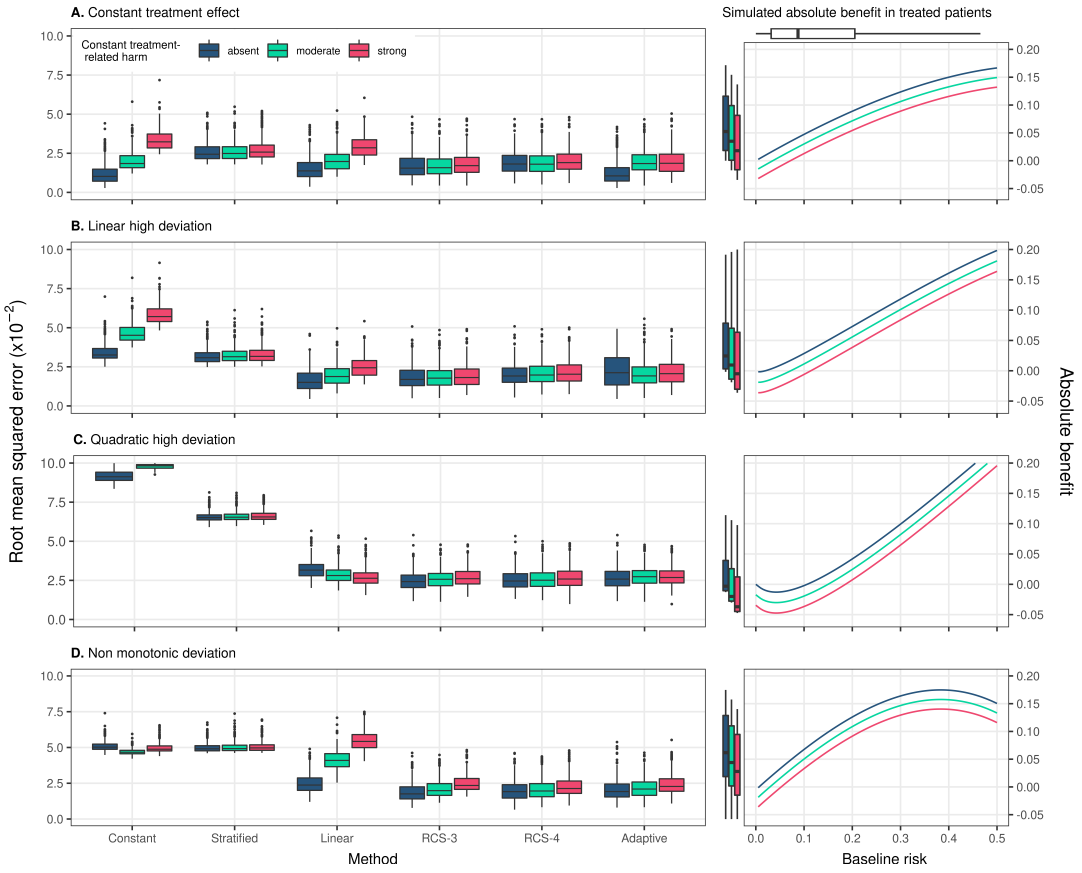

Figure S12: RMSE of the considered methods across 500 replcations calculated in a simulated sample of size 500,000. AUC is 0.85 rather than in Figure S10.

7 Treatment interactions

We carried out a smaller set of simulations, in which we assumed true treatment-covariate interactions. Sample size was set to 4,250 and the AUC of the true prediction model was set to 0.75. The following scenarios were considered: 1) 4 true weak positive interactions ($OR_{t_x=1}/OR_{t_x=0} = 0.83$); 2) 4 strong positive interactions ($OR_{t_x=1}/OR_{t_x=0} = 0.61$); 3) 2 weak and 2 strong positive interactions; 4) 4 weak negative interactions ($OR_{t_x=1}/OR_{t_x=0} = 1.17$); 5) 4 strong negative interactions ($OR_{t_x=1}/OR_{t_x=0} = 1.39$); 6) 2 weak and 2 strong negative interactions; 7) combined positive and negative strong interactions. We also considered constant treatment-related harms applied on the absolute scale to all treated patients. The exact settings were: 1) absent treatment-related harms; 2) moderate treatment-related harms, defined as 25% of the average true benefit of the scenario without treatment-related harms; 3) strong treatment-related harms defined as 50% of the true average benefit of the scenario without treatment-related harms; 4) negative treatment-related harms (benefit), defined as an absolute risk reduction for treated patients of 50% of the true average benefit of the scenario without treatment-related harms. The exact settings can be found in Table S2.

Table S2: Scenario settings of the treatment-covariate interaction scenarios.

Analysis ID					Baseline risk									True treatment effect					Benefit	
Scenario	Base	N	AUC	Treatment-related harm	b0	b1	b2	b3	b4	b5	b6	b7	b8	g0	g1	g2	g5	g6	Before harms	After harms
649	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.19	-0.19	-0.19	0.10	0.10
650	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.19	-0.19	-0.19	0.10	0.07
651	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.19	-0.19	-0.19	0.10	0.05
652	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.19	-0.19	-0.19	0.10	0.12
653	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.49	-0.19	-0.49	0.10	0.10
654	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.49	-0.19	-0.49	0.10	0.08
655	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.49	-0.19	-0.49	0.10	0.05
656	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.19	-0.49	-0.19	-0.49	0.10	0.13
657	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	-0.49	-0.49	-0.49	0.11	0.11
658	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	-0.49	-0.49	-0.49	0.11	0.08
659	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	-0.49	-0.49	-0.49	0.11	0.06
660	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	-0.49	-0.49	-0.49	0.11	0.14
661	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.16	0.16	0.16	0.06	0.06
662	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.16	0.16	0.16	0.06	0.05
663	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.16	0.16	0.16	0.06	0.03
664	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.16	0.16	0.16	0.06	0.08
665	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.33	0.16	0.33	0.05	0.05
666	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.33	0.16	0.33	0.05	0.04
667	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.33	0.16	0.33	0.05	0.03
668	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.16	0.33	0.16	0.33	0.05	0.06
669	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.33	0.33	0.33	0.33	0.04	0.04
670	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.33	0.33	0.33	0.33	0.04	0.03
671	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.33	0.33	0.33	0.33	0.04	0.02
672	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	0.33	0.33	0.33	0.33	0.04	0.05
673	interaction	4,250	0.75	absent	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	0.33	-0.49	0.33	0.08	0.08
674	interaction	4,250	0.75	moderate-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	0.33	-0.49	0.33	0.08	0.06
675	interaction	4,250	0.75	strong-positive	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	0.33	-0.49	0.33	0.08	0.04
676	interaction	4,250	0.75	negative	-2.08	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	-0.69	-0.49	0.33	-0.49	0.33	0.08	0.10

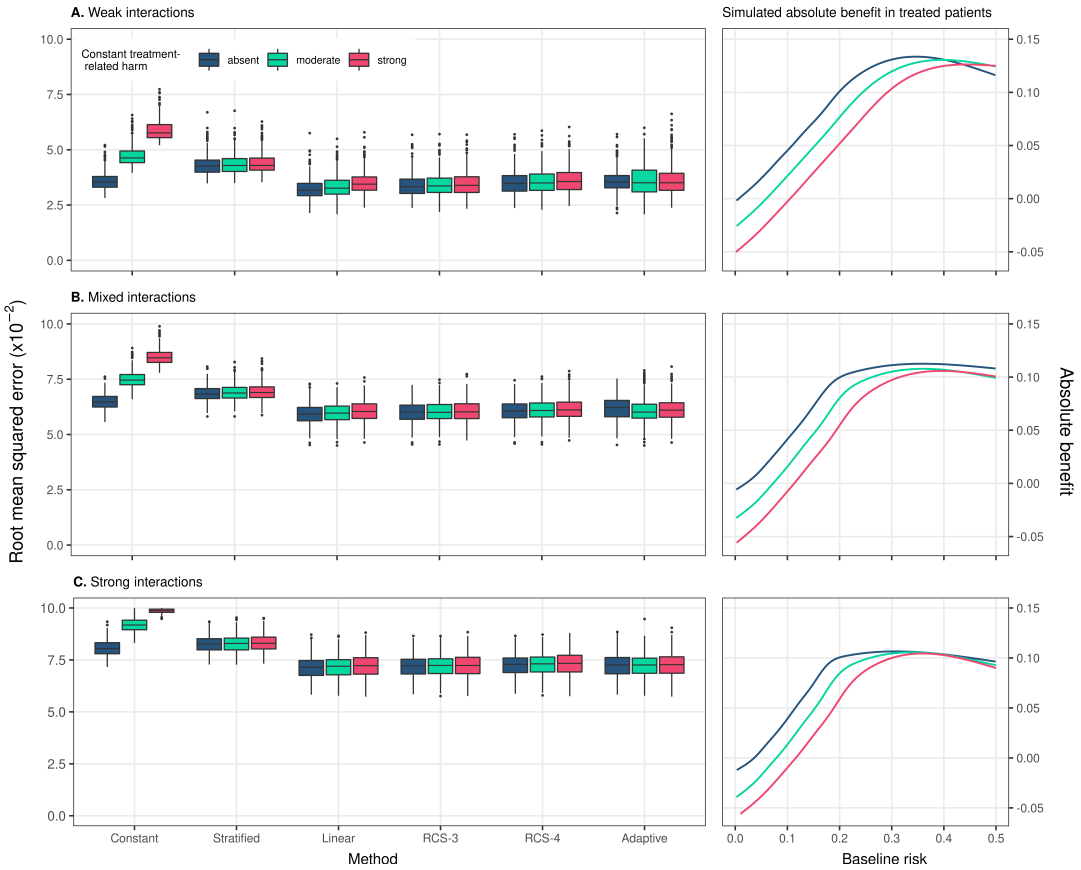

Figure S13: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions all favoring treatment were considered.

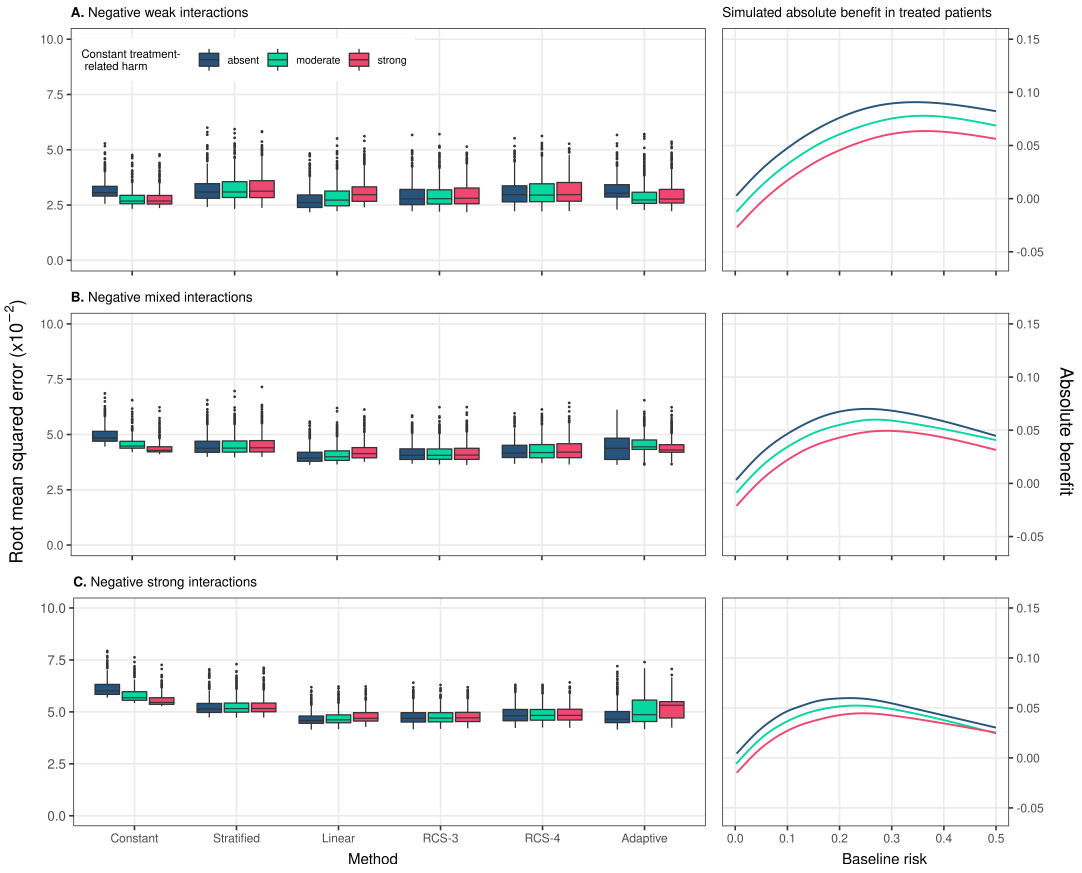

Figure S14: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions all favoring the control were considered.

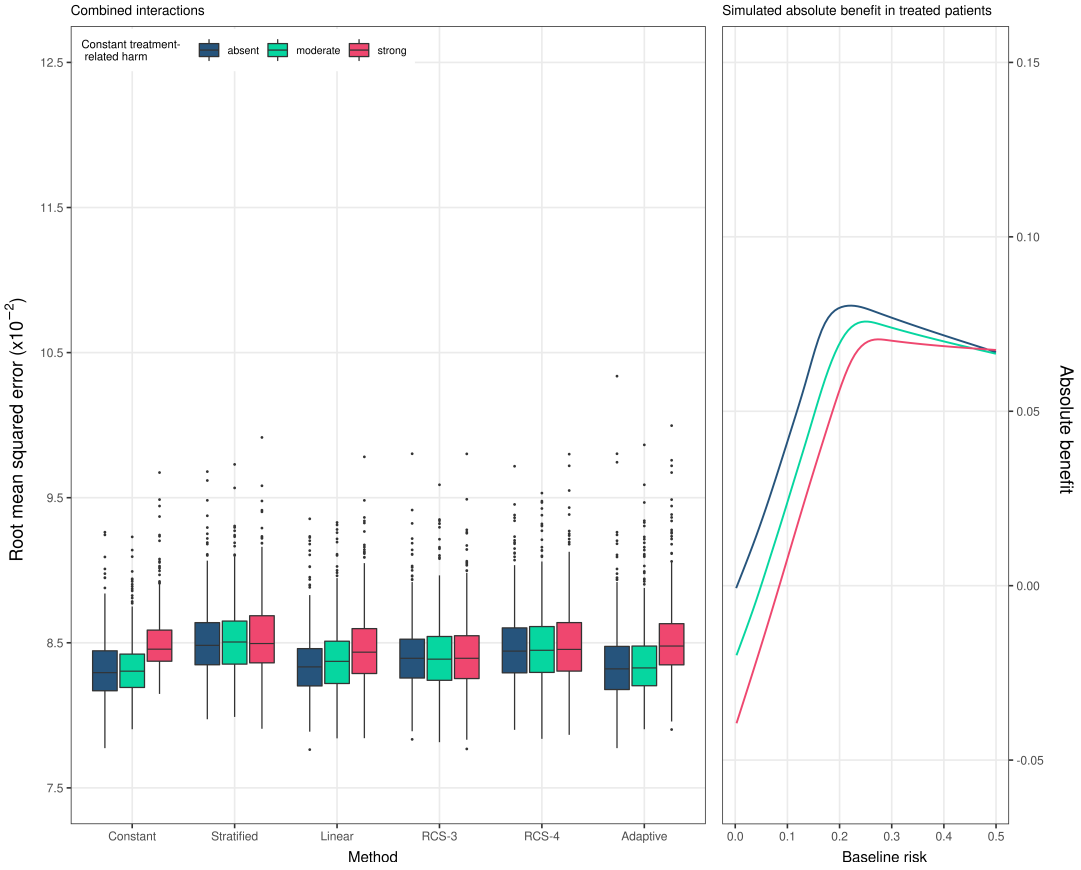

Figure S15: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions 2 favoring treatment and 2 favoring the control were considered.

8 Empirical illustration

For predicting baseline risk of 30-day mortality we fitted a logistic regression model with age, Killip class (*Killip*), systolic blood pressure (*sysbp*), pulse rate (*pulse*), prior myocardial infarction (*pmi*), location of myocardial infarction (*miloc*) and treatment as the covariates. Baseline predictions were made setting treatment to 0.

$$P(outcome = 1|X = x) = \text{expit}(lp(x)),$$

where

$$\begin{aligned} lp(x) =& \beta_0 + \beta_1 \text{age} + \beta_2 I(\text{Killip} = II) + \beta_3 I(\text{Killip} = III) + \\ & \beta_4 I(\text{Killip} = IV) + \beta_5 min(\text{sysbp}, 120) + \beta_6 \text{pulse} + \\ & \beta_7 max(\text{pulse - 50, 0}) + \beta_8 I(\text{pmi} = yes) + \\ & \beta_9 I(\text{miloc} = Anterior) + \beta_9 I(\text{miloc} = Other) + \\ & \gamma \times \text{treatment} \end{aligned}$$

and $expit(x) = \frac{e^x}{1+e^x}$

Table S3: Coefficients of the prediction model for 30-day mortality, based on the data from GUSTO-I trial.

Variable	Estimate	stderror	zvalue	pvalue
Intercept	-3.020	0.797	-3.788	0.000
Age	-0.208	0.053	-3.935	0.000
Killip class = II	0.077	0.002	31.280	0.000
Killip class = III	0.614	0.059	10.423	0.000
Killip class = IV	1.161	0.121	9.566	0.000
Systolic blood pressure	1.921	0.162	11.872	0.000
Pulse rate (1)	-0.039	0.002	-20.332	0.000
Pulse rate (2)	-0.024	0.016	-1.521	0.128
Previous MI (yes)	0.043	0.016	2.675	0.007
MI location (Other)	0.447	0.056	7.964	0.000
MI location (Anterior)	0.286	0.135	2.126	0.033
Treatment	0.543	0.051	10.625	0.000

9 References

[1] Kent DM, Nelson J, Dahabreh IJ, Rothwell PM, Altman DG, Hayward RA. Risk and treatment effect heterogeneity: Re-analysis of individual participant data from 32 large clinical trials. International Journal of Epidemiology 2016:dyw118. https://doi.org/10.1093/ije/dyw118.