# Supplementary material

## Contents

# 1 Notation

We observe RCT data $(Z, X, Y)$, where for each patient $Z_i = 0, 1$ is the treatment status, $Y_i = 0, 1$ is the observed outcome and $X_i$ is a set of covariates measured. Let $\{Y_i(z), z = 0, 1\}$ denote the unobservable potential outcomes. We observe $Y_i = Z_i Y_i(1) + (1 - Z_i)Y_i(0)$. We are interested in predicting the conditional average treatment effect (CATE),

$$\tau(x) = E\{Y(0) - Y(1)|X = x\}$$

Assuming that $(Z, X, Y)$ is a random sample from the target population and that $\big(Y(0), Y(1)\big) \perp\!\!\!\perp Z|X$, as we are in the RCT setting, we can predict CATE from

$$\begin{aligned}\tau(x) &= E\{Y(0) \mid X = x\} - E\{Y(1) \mid X = x\} \\ &= E\{Y \mid X = x, Z = 0\} - E\{Y \mid X = x, Z = 1\}\end{aligned}$$

Based on an estimate of baseline risk

$$E\{Y \mid X = x, Z = 0\} = g\big(\hat{lp}(x)\big)$$

with $\hat{u} = \hat{lp}(x) = x^t\hat{\beta}$ the linear predictor and $g$ the link function, we predict CATE from

$$\hat{\tau}(x) = g\big(f(\hat{u}, 0)\big) - g\big(f(\hat{u}, 1)\big)$$

where $f(u, z)$ describes interactions of the baseline risk linear predictor with treatment.

# 2 Simulation settings

For all patients we observe covariates $X_1, \ldots, X_8$, of which 4 are continuous and 4 are binary. More specifically,

$$\begin{aligned}X_1, \ldots, X_4 &\sim N(0, 1) \\ X_5, \ldots, X_8 &\sim B(1, 0.2)\end{aligned}$$

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

$$P(Y = 1 \mid X = x, Z = 0) = g(\beta_0 + \beta_1 x_1 + \cdots + \beta_8 x_8) = g(lp_0), \tag{1}$$

where

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

For treated patients, outcomes are generated from:

$$P(Y = 1 \mid X = x, Z = 1) = g(lp_1) \tag{2}$$

where

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

## 2.1 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, $Z$ is set to 0. The value of the true $\beta$ is such that the above prediction model has an AUC of 0.75.

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

## 2.2 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, $\beta_0$ 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 |

# 3 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.

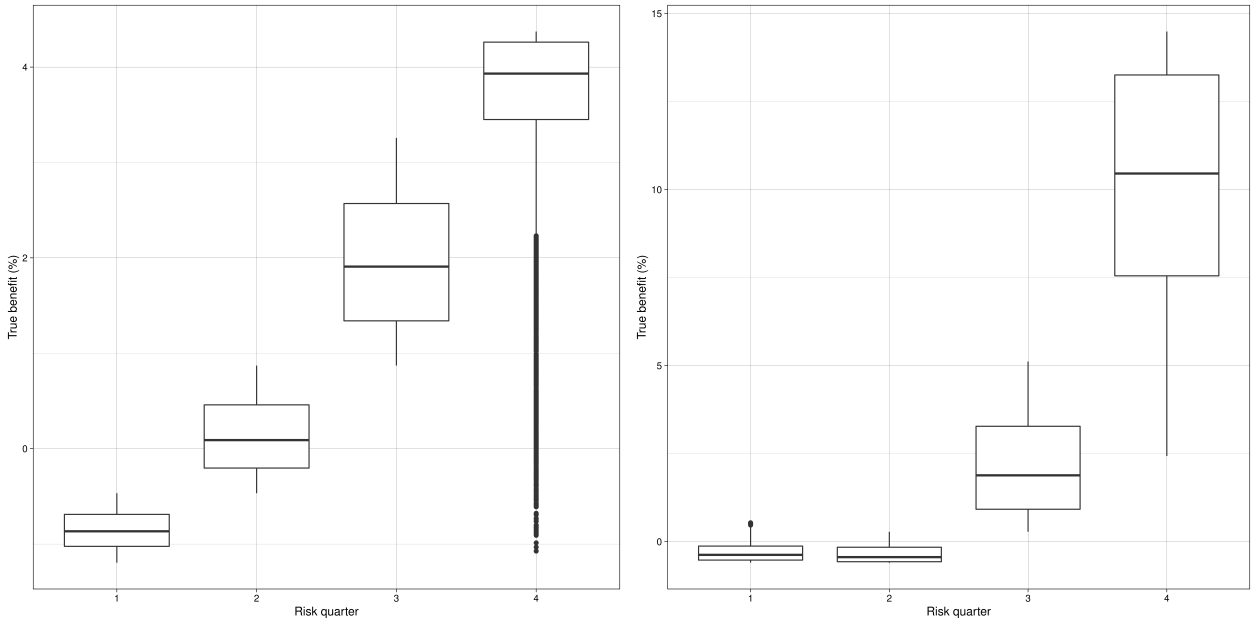


Figure S1: Simulation scenarios that closely follow trials. In this case, we see increasing absolute benefits with increasing baseline risk.

# 4 Approaches to individualize benefit predictions

## 4.1 Risk modeling

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

$$P(Y = 1 \mid X = x, Z = z) = g(x^t\beta + \gamma z) \tag{3}$$

We derive baseline risk predictions for patients by setting $Z = 0$ in (4.1). 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

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

## 4.2 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.

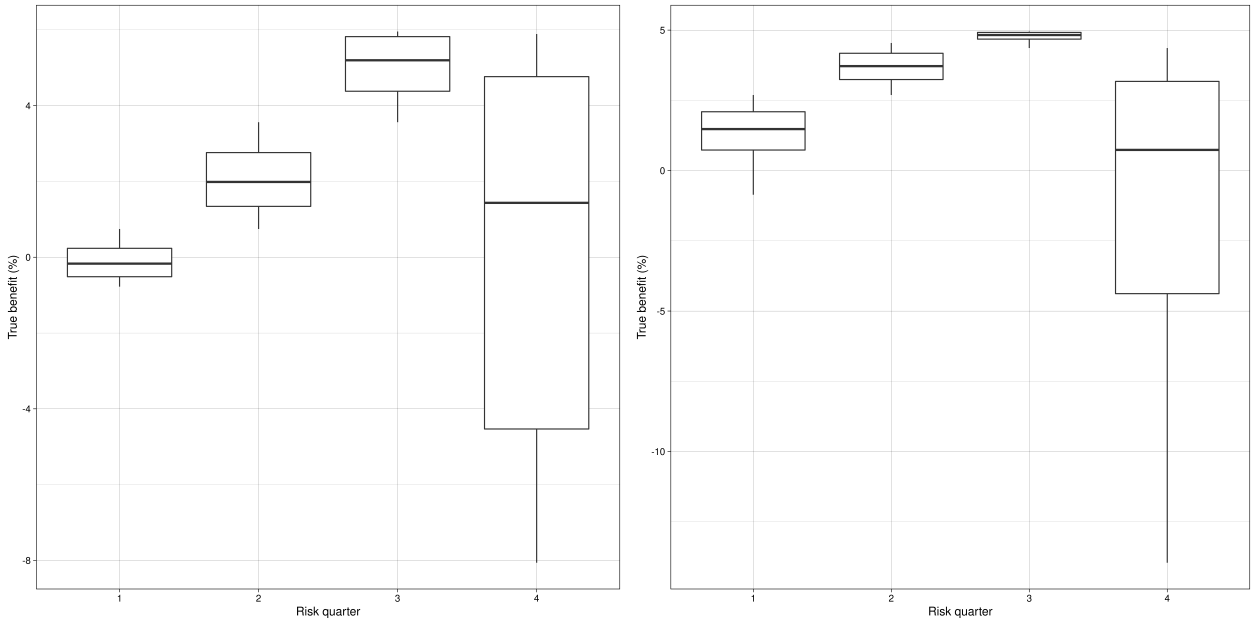


Figure S2: Simulation scenarios that closely follow trials. In this case, we see increasing absolute benefits with increasing baseline risk up to the third risk quarter. In the fourth risk quarter this trend is interrupted and benefits are diminished.

Subject-specific benefit predictions are made by attributing to individuals their corresponding subgroup-specific estimate.

## 4.3 Constant treatment effect

Assuming a constant relative treatment effect, fit the adjusted model in (4.1). Then, predict absolute benefit using

$$\hat{\tau}(x;\hat{\beta},\hat{\gamma}) = g(f(\hat{lp},0)) - g(f(\hat{lp},1)), \tag{4}$$

where $f(\hat{lp},z) = \hat{lp} + \hat{\gamma}z$, with $\hat{\gamma}$ the estimated relative treatment effect (log odds ratio).

## 4.4 Linear interaction

We relax the assumption of a constant relative treatment effect in (4) by setting

$$f(\hat{lp},z) = \gamma_0 + \gamma_1 z + \gamma_2 \hat{lp} + \gamma_3 z\hat{lp}$$

## 4.5 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 set:

$$f(\hat{lp},z) = \gamma_0 + \gamma_1 z + zs(\hat{lp})$$

where

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

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 [2].

# 5 Adaptive model selection frequencies

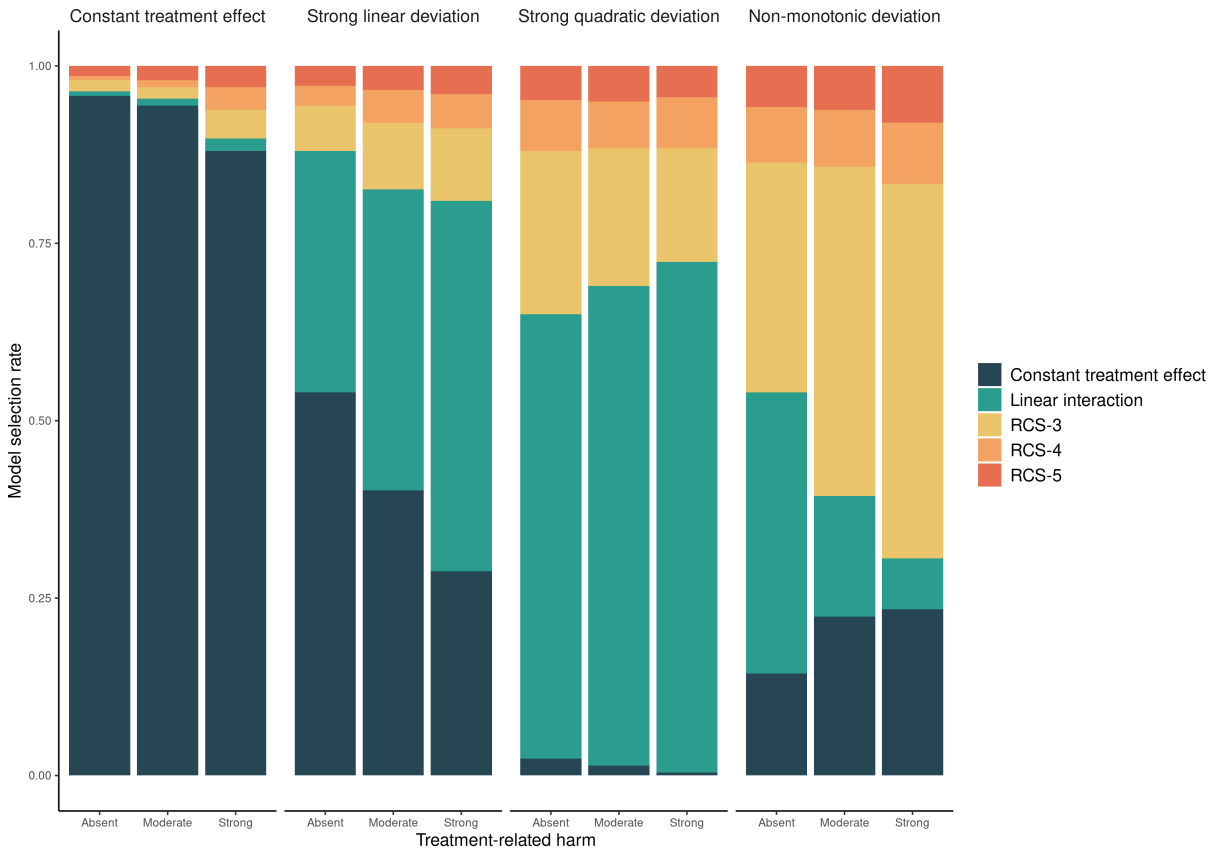


Figure S3: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. The scenario with the true constant relative treatment effect (first panel) had a true prediction AUC of 0.75 and sample size of 4,250.

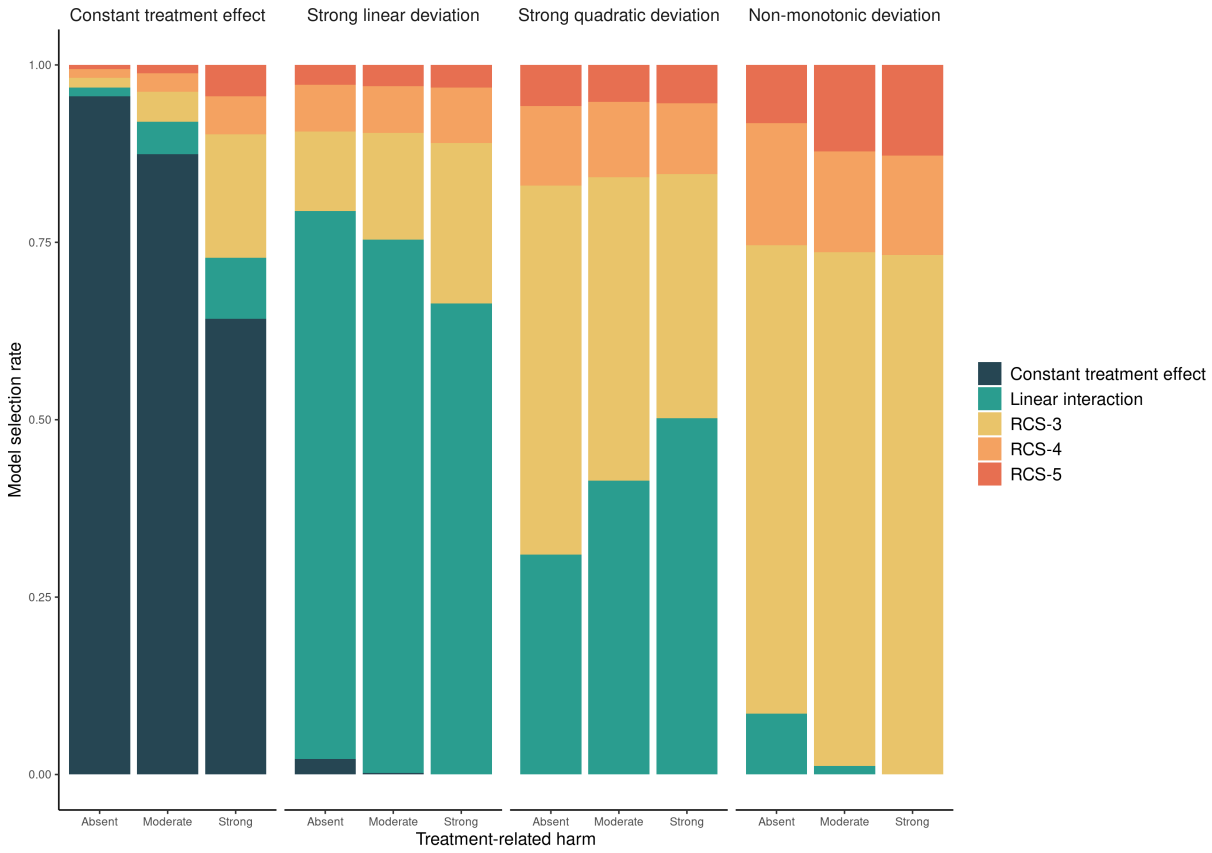


Figure S4: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. Sample size is 17,000 rather than 4,250 in Figure S3

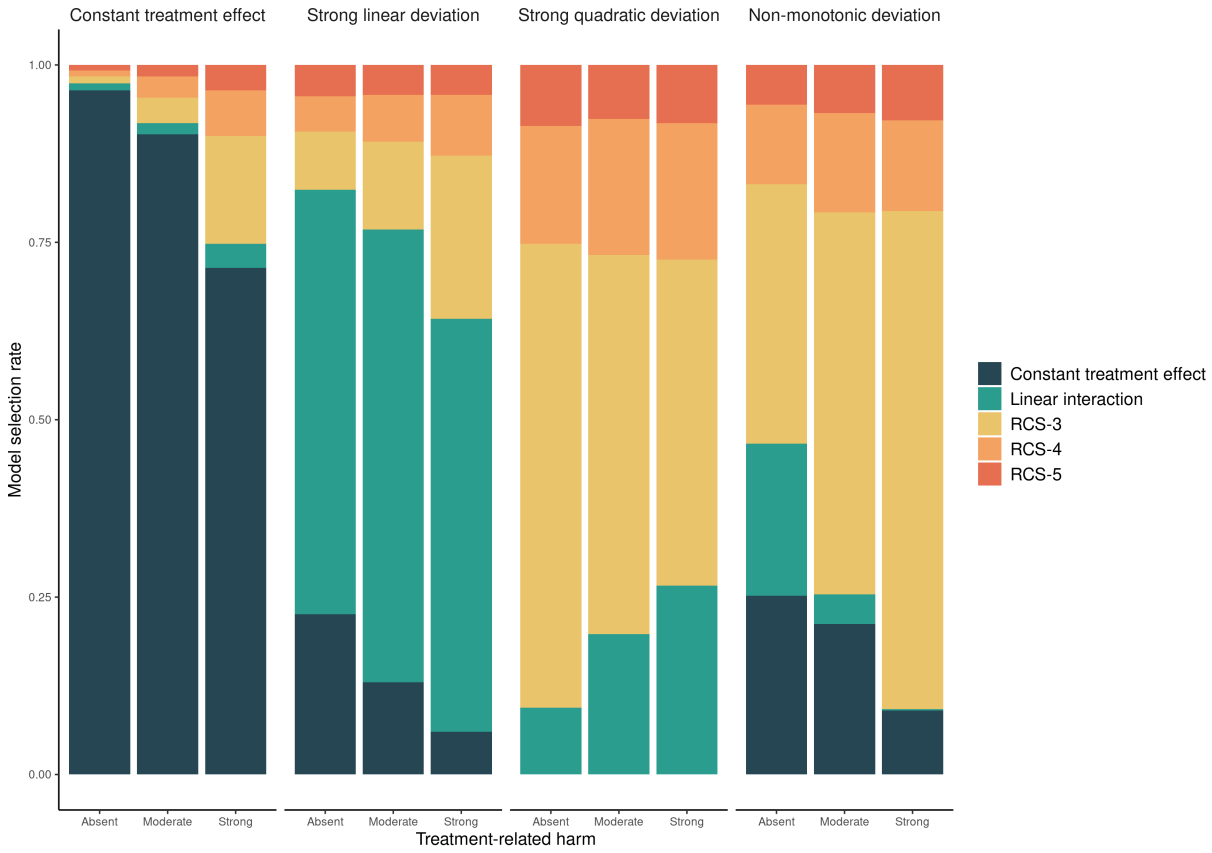


Figure S5: Model selection frequencies of the adaptive approach based on Akaike's Information Criterion across 500 replications. AUC is 0.85 rather than 0.75 in Figure S3

# 6 Discrimination and calibration for benefit

The c-for-benefit represents the probability that from two randomly chosen matched patient pairs with unequal observed benefit, the pair with greater observed benefit also has a higher predicted benefit. To be able to calculate observed benefit, patients in each treatment arm are ranked based on their predicted benefit and then matched 1:1 across treatment arms. Observed treatment benefit is defined as the difference of observed outcomes between the untreated and the treated patient of each matched patient pair. Predicted benefit is defined as the average of predicted benefit within each matched patient pair.

We evaluated calibration in a similar manner, using the integrated calibration index (ICI) for benefit [3]. The observed benefits are regressed on the predicted benefits using a locally weighted scatterplot smoother (loess). The ICI-for-benefit is the average absolute difference between predicted and smooth observed benefit. Values closer to represent better calibration.

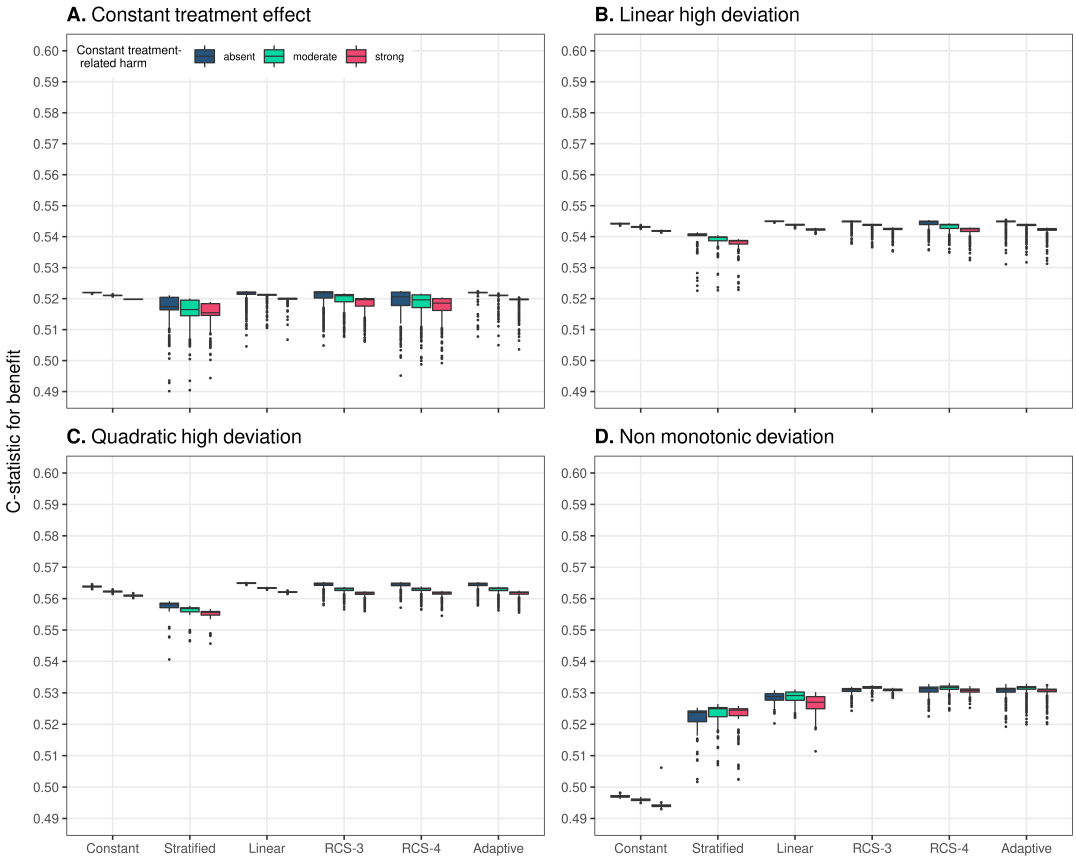


Figure S6: Discrimination for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.75 and sample size of 17,000

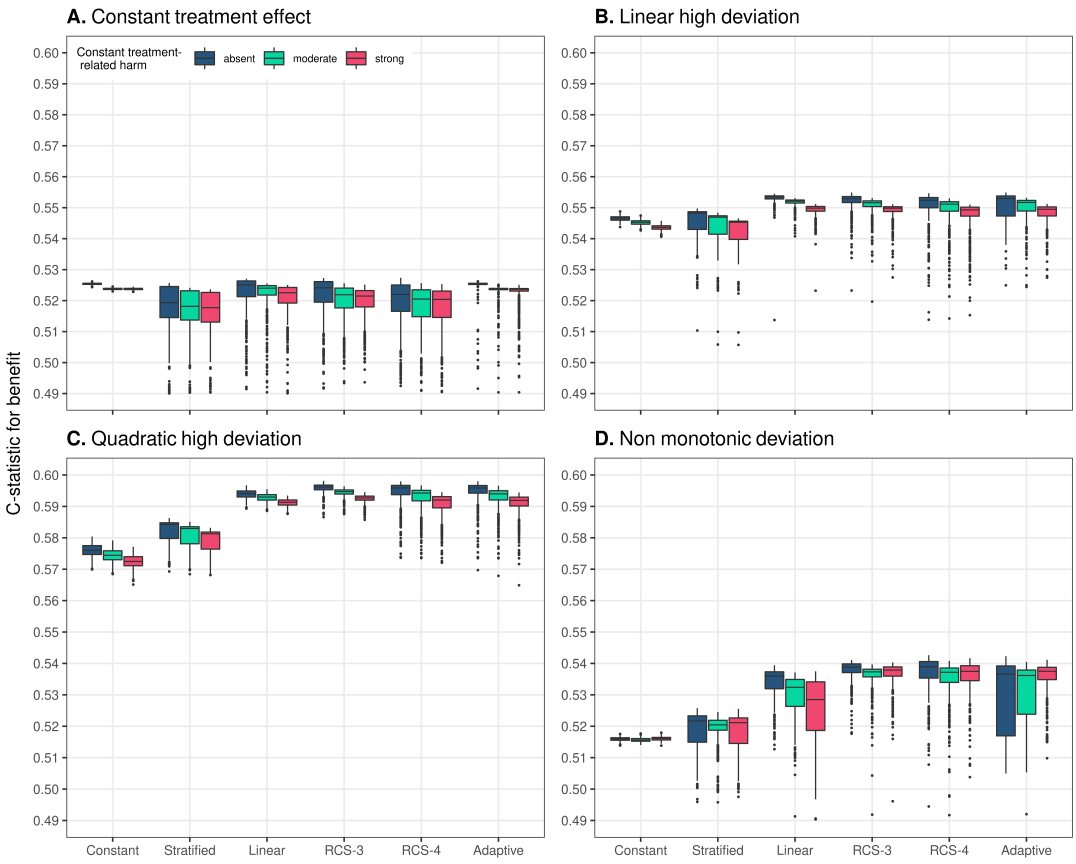


Figure S7: Discrimination for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.85 and sample size of 4,250

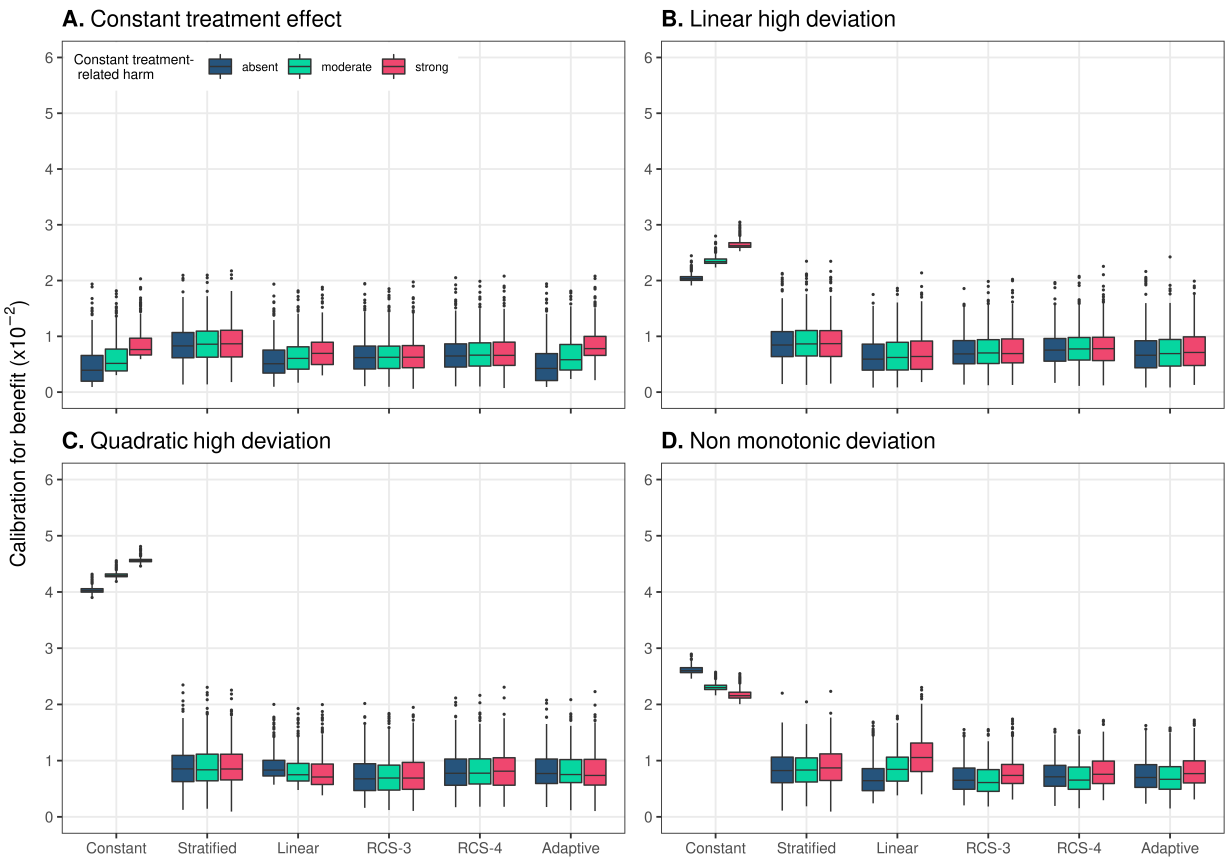


Figure S8: Calibration for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.75 and sample size of 17,000

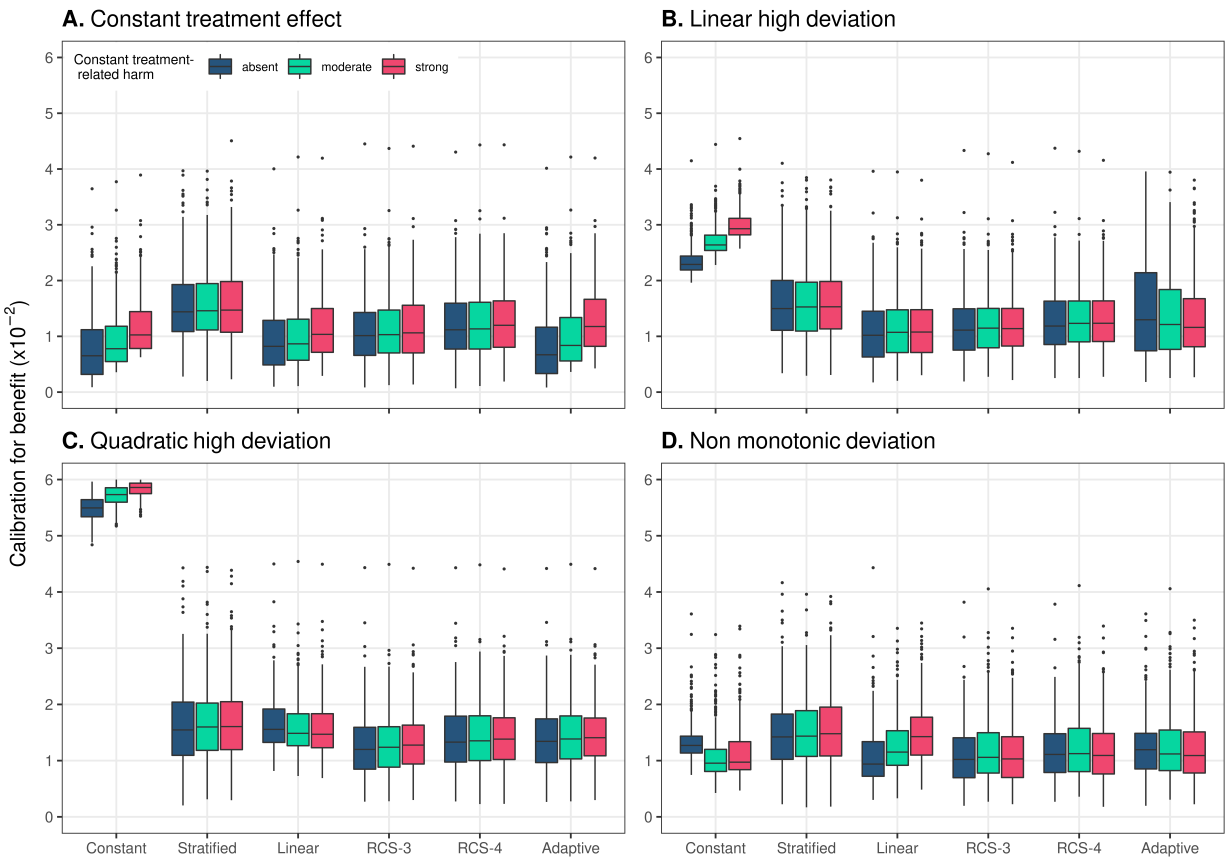


Figure S9: Calibration for benefit of the considered methods across 500 replications calculated in a simulated sample of size 500,000. True prediction AUC of 0.85 and sample size of 4,250

# 7 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/.

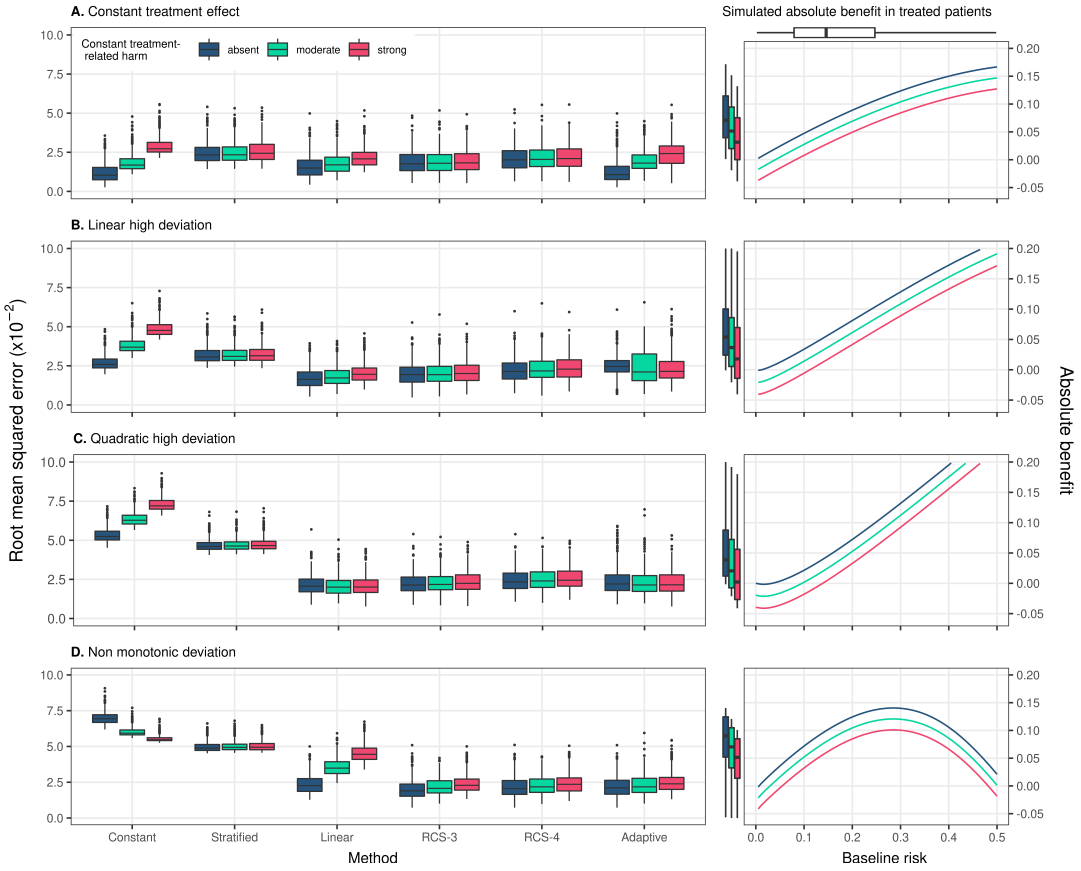


Figure S10: RMSE of the considered methods across 500 replications calculated in a simulated super-population of size 500,000. The scenario with true constant relative treatment effect (panel A) had a true prediction AUC of 0.75 and sample size of 4,250. The RMSE is also presented for strong linear (panel 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.

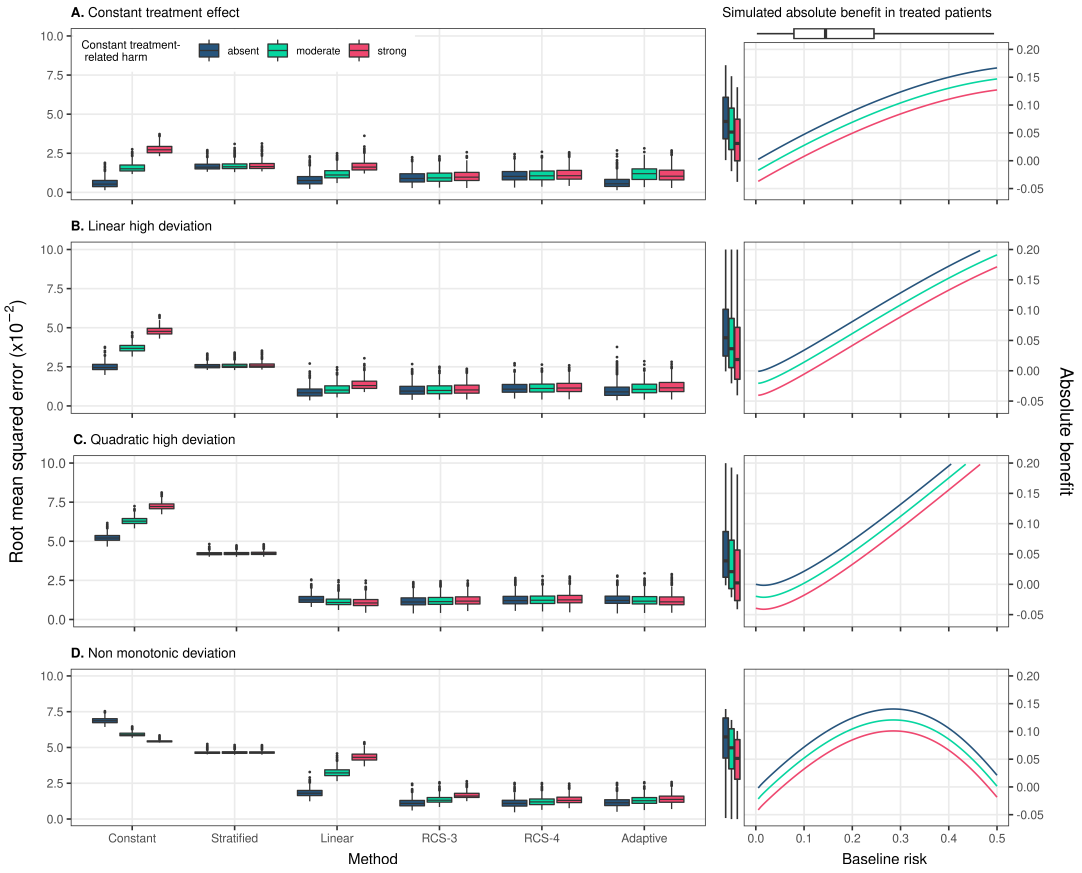


Figure S11: RMSE of the considered methods across 500 replcations calculated in a simulated sample of size 500,000. Sample size is 17,000 rather than 4,250 in Figure S10.

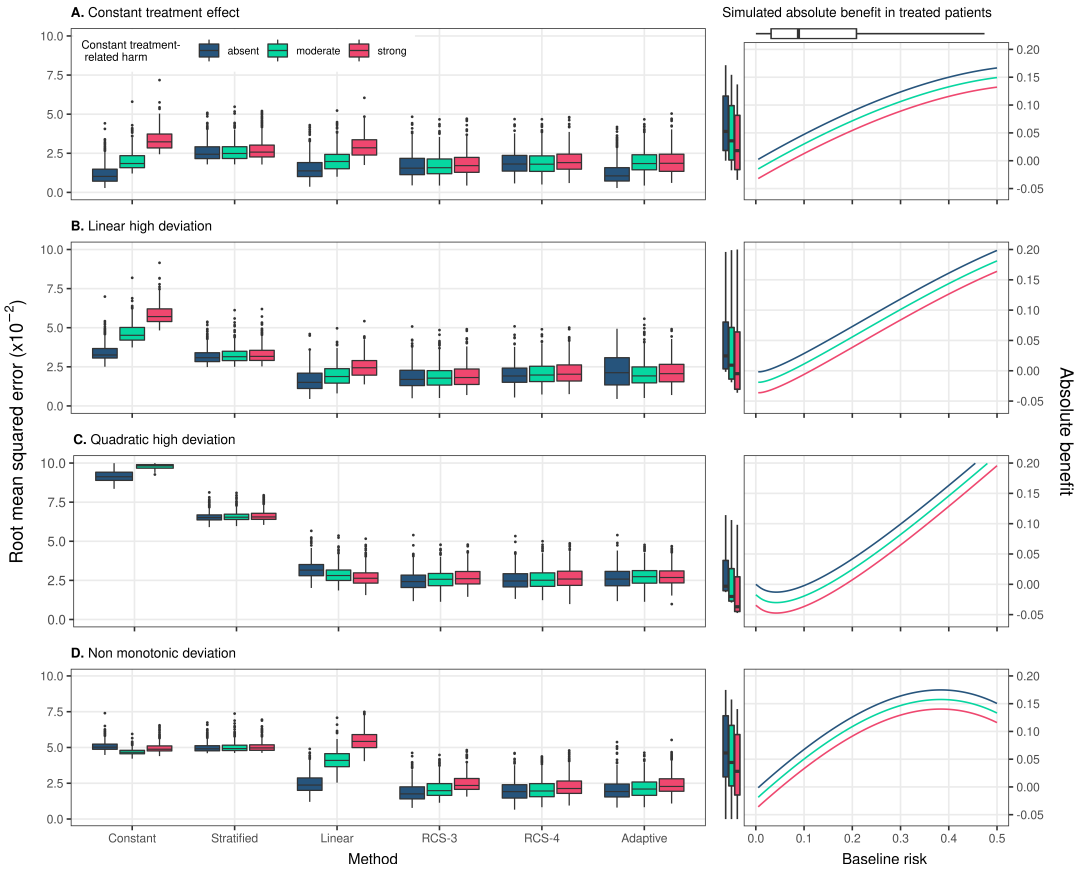


Figure S12: RMSE of the considered methods across 500 replcations calculated in a simulated sample of size 500,000. AUC is 0.85 rather than in Figure S10.

# 8 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 ($OR_{Z=1}/OR_{Z=0} = 0.83$); 2) 4 strong positive interactions ($OR_{Z=1}/OR_{Z=0} = 0.61$); 3) 2 weak and 2 strong positive interactions; 4) 4 weak negative interactions ($OR_{Z=1}/OR_{Z=0} = 1.17$); 5) 4 strong negative interactions ($OR_{Z=1}/OR_{Z=0} = 1.39$); 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 | Type | N | AUC | Treatment-related harm | b0 | b1 | b2 | b3 | b4 | b5 | b6 | b7 | b8 | g0 | g1 | g2 | g5 | g6 | Before harms | A |
| 649 | interaction | weak | 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 | |
| 650 | interaction | weak | 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 | |
| 651 | interaction | weak | 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 | |
| 652 | interaction | weak | 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 | |
| 653 | interaction | mixed | 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 | |
| 654 | interaction | mixed | 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 | |
| 655 | interaction | mixed | 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 | |
| 656 | interaction | mixed | 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 | |
| 657 | interaction | strong | 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 | |
| 658 | interaction | strong | 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 | |
| 659 | interaction | strong | 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 | |
| 660 | interaction | strong | 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 | |
| 661 | interaction | negative-weak | 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 | |
| 662 | interaction | negative-weak | 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 | |
| 663 | interaction | negative-weak | 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 | |
| 664 | interaction | negative-weak | 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 | |
| 665 | interaction | negative-mixed | 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 | |
| 666 | interaction | negative-mixed | 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 | |
| 667 | interaction | negative-mixed | 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 | |
| 668 | interaction | negative-mixed | 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 | |
| 669 | interaction | negative-strong | 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 | |
| 670 | interaction | negative-strong | 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 | |
| 671 | interaction | negative-strong | 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 | |
| 672 | interaction | negative-strong | 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 | |
| 673 | interaction | combined | 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 | |
| 674 | interaction | combined | 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 | |
| 675 | interaction | combined | 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 | |
| 676 | interaction | combined | 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 | |

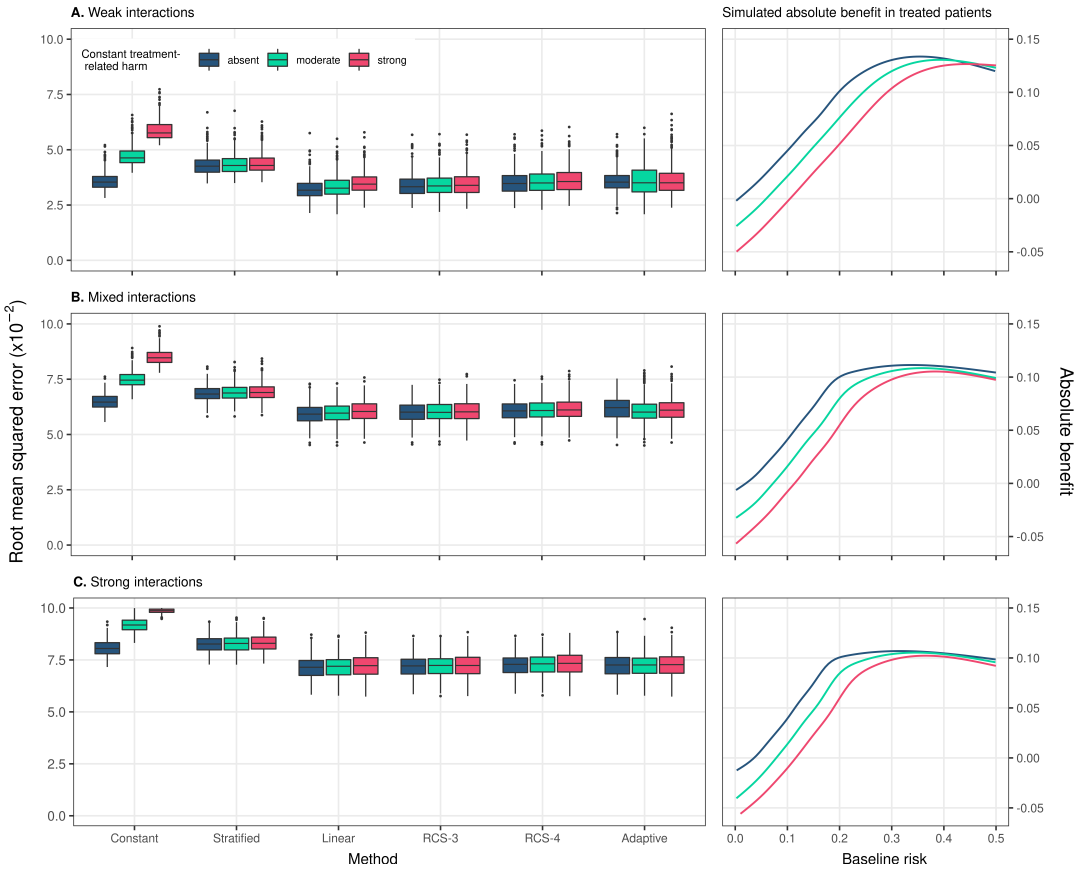


Figure S13: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions all favoring treatment were considered.

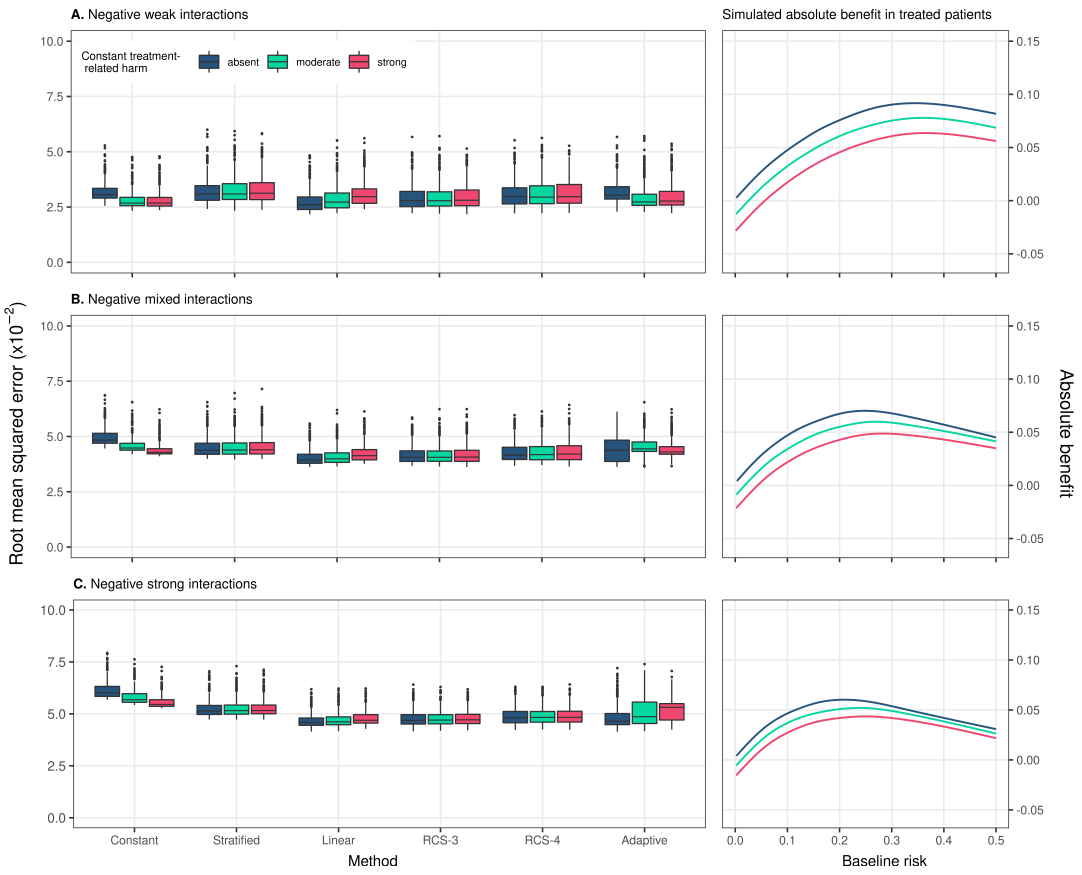


Figure S14: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions all favoring the control were considered.

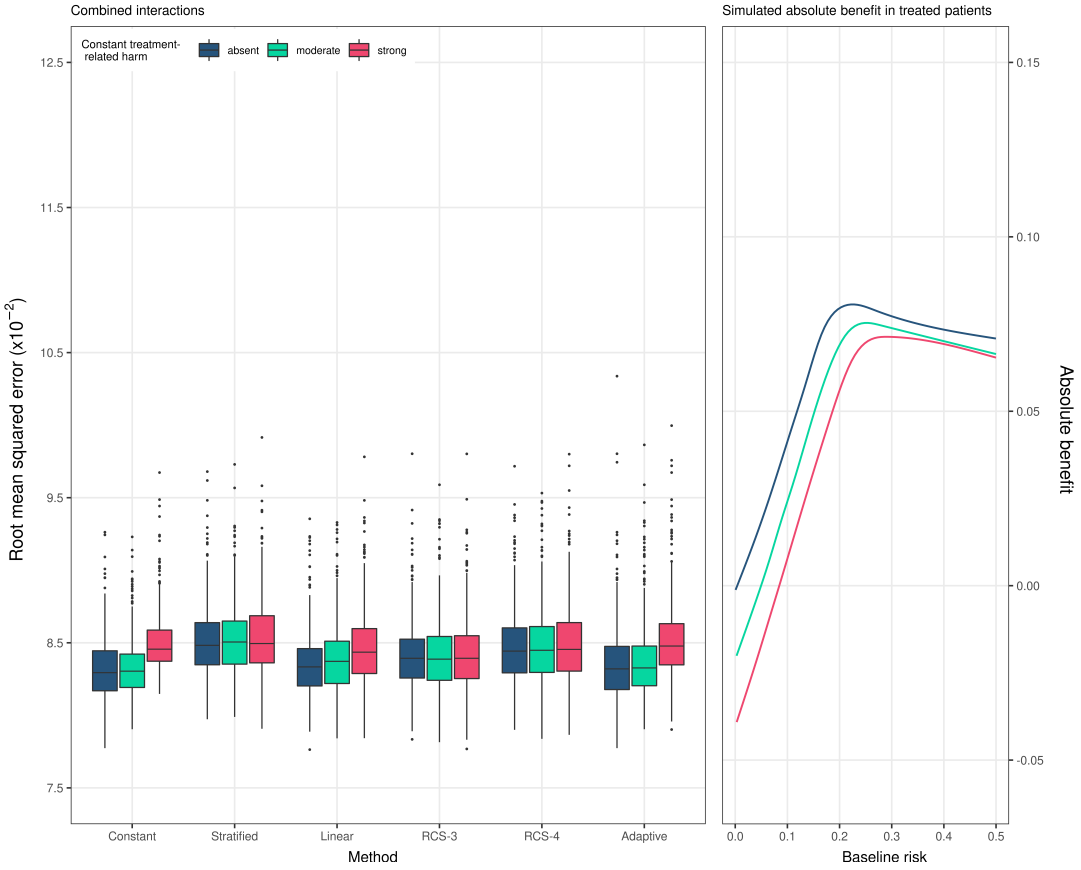


Figure S15: RMSE of the considered methods across 500 replications calculated in a simulated sample of size 500,000 where treatment-covariate interactions 2 favoring treatment and 2 favoring the control were considered.

# 9 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 |

# 10 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.

[2] Harrell FE. Regression modeling strategies. vol. 330. Springer; 2017.

[3] Austin PC, Steyerberg EW. The integrated calibration index (ICI) and related metrics for quantifying the calibration of logistic regression models. Statistics in Medicine 2019;38:4051–65. https://doi.org/10.1002/sim.8281.