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Appendix Piecewise logistic regression model used to describe the relationship between response rate (r_{ij} out of n_{ij} in the jth group in the ith study) and incentive level (I_{ij} expressed in \$0.01).

$$r_{ij} \sim \text{Binomial}(n_{ij}, \pi_{ij})$$

$$\log(\pi_{ij}/(1-\pi_{ij})) = \alpha_i + \beta_1 x_{1ij} + \beta_2 x_{2ij} + \beta_3 x_{3ij} + \beta_4 x_{4ij} + \beta_5 x_{5ij}$$

where :

$$x_{1ij} = \begin{Bmatrix} I_{ij} \text{ if } I_{ij} < 50 \\ 50 \text{ if } I_{ij} \geq 50 \end{Bmatrix}, \quad x_{2ij} = \begin{Bmatrix} 0 & \text{if } I_{ij} < 50 \\ (I_{ij} - 50) & \text{if } 50 \leq I_{ij} < 100 \\ 50 & \text{if } I_{ij} \geq 100 \end{Bmatrix}, x_{3ij} = \begin{Bmatrix} 0 & \text{if } I_{ij} < 100 \\ (I_{ij} - 100) & \text{if } 100 \leq I_{ij} < 200 \\ 100 & \text{if } I_{ij} \geq 200 \end{Bmatrix},$$

$$x_{4ij} = \begin{Bmatrix} 0 & \text{if } I_{ij} < 200 \\ (I_{ij} - 200) & \text{if } 200 \leq I_{ij} < 500 \\ 300 & \text{if } I_{ij} \geq 500 \end{Bmatrix} \text{ and } x_{5ij} = \begin{Bmatrix} 0 & \text{if } I_{ij} < 500 \\ (I_{ij} - 500) & \text{if } I_{ij} \geq 500 \end{Bmatrix}$$