## Crying Wolf in the Lab

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#### Abstract

Keywords:

# 1 Introduction

#### A Tables

Table 1: List of Treatments

| Gremlins composition       |        |            |            |         |         |  |  |  |
|----------------------------|--------|------------|------------|---------|---------|--|--|--|
| Prop. of black balls $(p)$ | Honest | Black-eyed | White-eyed | FP rate | FN rate |  |  |  |
| 0.1,0.2,0.3,0.5            | 2      | 0          | 0          | 0       | 0       |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 3      | 1          | 0          | 0.333   | 0       |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 3      | 0          | 1          | 0       | 0.333   |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 3      | 1          | 1 0        | 0.333   | 0.333   |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 5      | 1          | 0          | 0.2     | 0       |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 5      | 0          | 1          | 0       | 0.2     |  |  |  |
| 0.1, 0.2, 0.3, 0.5         | 5      | 1          | 1          | 0.2     | 0.2     |  |  |  |

Table 2: Demographic Characteristics of Subjects

|                        | All |     | $p \in \{0.1, 0.3\}$ |     | $p \in \mathcal{A}$ | $\{0.2, 0.5\}$ |
|------------------------|-----|-----|----------------------|-----|---------------------|----------------|
|                        | N   | %   | N                    | %   | N                   | %              |
| Male                   | 43  | 41  | 22                   | 41  | 21                  | 41             |
| Age>23yrs old          | 14  | 13  | 6                    | 11  | 8                   | 16             |
| Students               | 88  | 84  | 46                   | 85  | 42                  | 82             |
| Had statistics classes | 63  | 60  | 37                   | 69  | 26                  | 51             |
| Total                  | 105 | 100 | 54                   | 100 | 51                  | 100            |

Table 3: Risk Aversion Measurement

| Switching Probability $(\pi^*)$ | $\theta$ | N  |
|---------------------------------|----------|----|
| Always protect                  | >2       | 1  |
| 0.1                             | 2        | 10 |
| 0.15                            | 1.216    | 13 |
| 0.2                             | 0.573    | 29 |
| 0.25                            | 0        | 16 |
| 0.3                             | -0.539   | 15 |
| Never protect                   | <-0.539  | 14 |

Table 4: Informed protection response: logistical regression

|   |         |            | 1 0     |         |         |         |
|---|---------|------------|---------|---------|---------|---------|
|   | (1)     | (2)        | (3)     | (4)     | (5)     | (6)     |
|   | All     | S=White    | S=Black | All     | S=White | W=Black |
| FP rate                                   | .248**  | .557***    | 146     | .198*   | 1.19*** | 38      |
|   | (2.2)   | (4.8)      | (-0.9)  | (1.7)   | (3.7)   | (-0.8)  |
| FN rate                                   | .341*** | .61***     | 025     | .35***  | 1.26*** | 116     |
|   | (3.2)   | (4.6)      | (-0.2)  | (3.2)   | (12.8)  | (-0.3)  |
| S=Black                                   | .454*** |            |         | .473*** |         |         |
|   | (89.2)  |            |         | (98.4)  |         |         |
| plevel=200                                | .105*** | $.093^{*}$ | .117**  | 0       | 0       | 0       |
|   | (2.8)   | (1.9)      | (2.1)   | (.)     | (.)     | (.)     |
| Subject FE                                | No      | No         | No      | Yes     | Yes     | Yes     |
| $P(FP \text{ rate} \neq FN \text{ rate})$ | .524    | .787       | .621    | .306    | .855    | .705    |
| N   | 629     | 315        | 314     | 587     | 117     | 105     |
| Pseudo R-squared                          | .333    | .161       | .0252   | .522    | .479    | .0844   |
| Log-likelihood                            | -291    | -125       | -152    | -195    | -41.2   | -66.1   |

t statistics in parentheses

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 5: Informed Protection Response: logit with flexible control for posteriors

|                           | (1)    | (2)        | (3)     | (4)          |
|---------------------------|--------|------------|---------|--------------|
| FP rate                   | .54*** | .66***     | .526**  | .496**       |
| 11 1000                   | (4.0)  | (3.5)      | (2.4)   | (2.0)        |
| FN rate                   | .129   | .984***    | .119    | 1.34***      |
|                           | (1.0)  | (2.6)      | (0.7)   | (3.4)        |
| p≥0.2                     | .0642  | .397***    | .304*** | .35***       |
|                           | (1.6)  | (9.4)      | (7.3)   | (7.1)        |
| S=Black                   | 0076   | $1.23^{*}$ | 0877    | $2.36^{***}$ |
|                           | (-0.1) | (1.9)      | (-0.7)  | (3.4)        |
| FP rate x (S=Black)       |        | -1.87      |         | -3.37***     |
|                           |        | (-1.6)     |         | (-2.9)       |
| FN rate x (S=Black)       |        | 993**      |         | -1.6***      |
|                           |        | (-2.4)     |         | (-4.0)       |
| FP rate x (p $\geq 0.2$ ) |        |            | .0312   | .561*        |
|                           |        |            | (0.1)   | (1.7)        |
| FN rate x (p $\geq 0.2$ ) |        |            | 0288    | .549**       |
|                           |        |            | (-0.1)  | (2.3)        |
| Observations              | 629    | 587        | 587     | 587          |
| Adjusted $R^2$            |        |            |         |              |

 $<sup>\</sup>boldsymbol{t}$  statistics in parentheses

Reporting average marginal effects, subject FE, errors are clustered by subject. With flexible controls of posterior probability

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 6: Latent Class Multinomial Choice Model Estimates (FP and FN rates by hint)

|                 | lc_results |       |          |          |          |          |          |           |             |
|-----------------|------------|-------|----------|----------|----------|----------|----------|-----------|-------------|
|                 | Model      | Class | Alt      | Hint     | FN0      | FN1      | FP0      | FP1       | Class share |
| $\overline{r1}$ | 1          | 1     | -2.86694 | 4.392251 | 4.834518 | 1919326  | 4.35168  | 8676941   | 1           |
| r2              | 2          | 1     | -2.91958 | 1.881626 | 7.980388 | 3599557  | 1.725487 | 6.632253  | .2198715    |
| r3              | 2          | 2     | -2.91958 | 6.699559 | 3.838407 | .4707898 | 5.285504 | -8.229022 | .7801285    |

Table 7: IP response by class

|                    | · 11 100p | v        |             |
|--------------------|-----------|----------|-------------|
|                    | (1)       | (2)      | (3)         |
|                    | All       | Class 1  | Class 2     |
| S=Black            | .628***   | .357***  | .772***     |
|                    | (23.1)    | (2.8)    | (10.5)      |
| FN rate*White hint | .691***   | 1.49***  | .352***     |
|                    | (4.3)     | (3.5)    | (3.3)       |
| FP rate*White hint | .622***   | .49      | $.47^{***}$ |
|                    | (4.6)     | (1.6)    | (4.7)       |
| FN rate*Black hint | 0274      | .0659    | .0588       |
|                    | (-0.2)    | (0.2)    | (0.4)       |
| FP rate*Black hint | 124       | 1.15**** | -1.25***    |
|                    | (-0.8)    | (5.6)    | (-4.8)      |
| N                  | 624       | 138      | 486         |
| Pseudo R-squared   | .347      | .242     | .543        |
| Log-likelihood     | -282      | -62.3    | -153        |

t statistics in parentheses

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 8: Correlates of Strategies Used

|                | (1)     | (2)     | (3)     |
|----------------|---------|---------|---------|
|                | (1)     | (2)     | (0)     |
| Seek honest    | .462*** |         |         |
| 20011 11011050 | (0.1)   |         |         |
| Other          | .356*** |         |         |
| 0 01101        | (0.1)   |         |         |
| Female         | (0.1)   | .0782   |         |
| 1 chiane       |         | (0.1)   |         |
| Age            |         | 00845   |         |
| 1160           |         | (0.0)   |         |
| Stat. classes  |         | 0674    |         |
| Duan. Classes  |         | (0.1)   |         |
| Accur. beliefs |         | (0.1)   | .135*   |
| Accur. Deliels |         |         | (0.1)   |
| RA measure0    |         |         | 00705   |
| na measureo    |         |         |         |
| ID ouis        |         |         | (0.0)   |
| IP quiz        |         |         | 0635    |
| <b>C</b>       | 400***  | 075***  | (0.0)   |
| Constant       | .433*** | .975*** | 1.03*** |
|                | (0.1)   | (0.1)   | (0.2)   |
| Observations   | 104     | 104     | 104     |
| Adjusted $R^2$ | 0.15    | 0.02    | 0.01    |

Table 9: Expected IP losses by strategy

| -               | p=0.1,0.2 |              |            | p>0.2     |              |            |  |
|-----------------|-----------|--------------|------------|-----------|--------------|------------|--|
|                 | Mean loss | % of optimal | Loss prob. | Mean loss | % of optimal | Loss prob. |  |
| Baseline (all)  | 1.166304  | 156.7689     | .0190281   | 2.11717   | 140.6088     | .0508233   |  |
| Honesty seekers | 1.526998  | 205.2517     | .0435806   | 3.095308  | 205.5705     | .1163925   |  |
| Bayesians       | 1.050706  | 141.2308     | .0112388   | 1.806053  | 119.9464     | .0300237   |  |
| Optimal         | .7439637  | 1            | .0136432   | 1.505716  | 1            | .0190598   |  |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 10: Latent Class Multinomial Choice Model Estimates

| ·               | lc_results |       |           |                       |               |           |             |          |
|-----------------|------------|-------|-----------|-----------------------|---------------|-----------|-------------|----------|
|                 | Model      | Class | Alt       | $\operatorname{Hint}$ | $False\_prob$ | Posterior | Class share | BIC      |
| $\overline{r1}$ | 1          | 1     | -2.558866 | 5.518452              | -2.179902     | -5.647592 | 1           | 599.1649 |
| r1              | 2          | 1     | -2.535444 | 1.90032               | 3.500951      | 1.732533  | .2750615    | 581.0222 |
| r1              | 2          | 2     | -2.535444 | .1317798              | 2.727107      | 8.918563  | .7249385    | 581.0222 |
| r1              | 3          | 1     | -2.738694 | 1.552418              | 4.89195       | 1.063685  | .2025011    | 587.5337 |
| r1              | 3          | 2     | -2.738694 | 3.413443              | 8342289       | 6.007274  | .4550624    | 587.5337 |
| _r1             | 3          | 3     | -2.738694 | -3.203437             | 5.474852      | 16.56628  | .3424365    | 587.5337 |

Table 11: IP response by class

|                         | (1)             | (2)                |
|-------------------------|-----------------|--------------------|
|                         | Honesty Seekers | Cautious Bayesians |
| S=Black                 | .337***         | .0245              |
|                         | (3.4)           | (0.4)              |
| Prop. of lying gremlins | .664***         | .277***            |
|                         | (4.6)           | (4.3)              |
| Posterior prob.         | 198*            | .788***            |
|                         | (-1.7)          | (4.9)              |
| N                       | 138             | 486                |
| Pseudo R-squared        | .183            | .541               |
| Log-likelihood          | -67.2           | -154               |

t statistics in parentheses

Table 13: Comparing Findings across the Tasks  $\,$ 

| Design           | Beliefs | IP | WTP |
|------------------|---------|----|-----|
| White, FP only   | >       | >  | > * |
| White, FN only   | >       | -  | <>  |
| White, FN and FP | >>      | -  | >   |
| Black, FP only   | >       | -  | > * |
| Black, FN only   | <<      | <> | <>  |
| Black, FN and FP | >       | _  | >   |

<sup>\*-</sup>WTP estimates do not depend on signals.

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 12: Belief Elicitation: When Mistakes Happen

|                         |         |          |         |         | F F     |         |
|-------------------------|---------|----------|---------|---------|---------|---------|
|                         | (1)     | (2)      | (3)     | (4)     | (5)     | (6)     |
|                         | All     | S=White  | S=Black | All     | S=White | S=Black |
| FN rate                 | .016    | .39***   | 358***  | .00219  | .382*** | 378***  |
|                         | (0.1)   | (0.1)    | (0.1)   | (0.1)   | (0.1)   | (0.1)   |
| FP rate                 | .919*** | .318***  | 1.52*** | .949*** | .321*** | 1.58*** |
|                         | (0.1)   | (0.1)    | (0.1)   | (0.1)   | (0.1)   | (0.1)   |
| Constant                | 076***  | .0414*** | 193***  | 248***  | .139*** | 635***  |
|                         | (0.0)   | (0.0)    | (0.0)   | (0.0)   | (0.0)   | (0.0)   |
| Subject FE              | No      | No       | No      | Yes     | Yes     | Yes     |
| Observations            | 630     | 315      | 315     | 630     | 315     | 315     |
| Adjusted $\mathbb{R}^2$ | 0.17    | 0.21     | 0.29    | 0.22    | 0.37    | 0.66    |

Dep. variable: reported belief - posterior probability

Table 14: WTP for Information (tobit)

|                         |         |         |             | `       | ,       |         |
|-------------------------|---------|---------|-------------|---------|---------|---------|
|                         | (1)     | (2)     | (3)         | (4)     | (5)     | (6)     |
|                         | All     | p = 0.1 | p = 0.2     | All     | All     | All     |
| model                   |         |         |             |         |         |         |
| FN costs                | 562**   | -1.22** | 682***      | 791***  | 68***   | 674**   |
|                         | (0.2)   | (0.6)   | (0.3)       | (0.2)   | (0.3)   | (0.3)   |
| FP costs                | 631***  | 624**   | 519**       | 581***  | 485**   | 463**   |
|                         | (0.2)   | (0.2)   | (0.3)       | (0.2)   | (0.2)   | (0.2)   |
| BP costs                |         |         |             | .397*** | .386*** | .393*** |
|                         |         |         |             | (0.1)   | (0.1)   | (0.1)   |
| Belief change           |         |         |             |         | .368    |         |
|                         |         |         |             |         | (0.3)   |         |
| Certainty               |         |         |             |         |         | .799    |
|                         |         |         |             |         |         | (0.8)   |
| Constant                | 1.94*** | 1.72*** | 2.33***     | .816**  | .573    | .0873   |
|                         | (0.2)   | (0.2)   | (0.2)       | (0.3)   | (0.4)   | (0.8)   |
| sigma                   |         |         |             |         |         |         |
| Constant                | 1.82*** | 1.86*** | $1.7^{***}$ | 1.78*** | 1.78*** | 1.78*** |
|                         | (0.1)   | (0.1)   | (0.1)       | (0.1)   | (0.1)   | (0.1)   |
| Observations            | 315     | 162     | 153         | 315     | 315     | 315     |
| Adjusted $\mathbb{R}^2$ |         |         |             |         |         |         |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 15: WTP minus Value of Information (OLS)

| Table 15: WTF min                       |         |         |       |         | (5)         |
|---|---------|---------|-------|---------|-------------|
|   | (1)     | (2)     | (3)   | (4)     | (5)         |
| FP costs                                | .564*** | .473*** | .403  | .502*** | .435***     |
| TT COSUS                                | (0.1)   | (0.1)   | (0.3) | (0.2)   | (0.1)       |
| FN costs                                | 22*     | .0351   | 495   | .0816   | 62***       |
| 110 00000                               | (0.1)   | (0.1)   | (0.5) | (0.1)   | (0.2)       |
| Risk-loving                             | (0.1)   | (0.1)   | 0     | (0.1)   | (0.2)       |
| 0                                       |         |         | (.)   |         |             |
| Risk-averse                             |         |         | 0     |         |             |
|   |         |         | (.)   |         |             |
| No risk av. measure                     |         |         | 0     |         |             |
|   |         |         | (.)   |         |             |
| Risk-loving $\times$ FP costs           |         |         | .12   |         |             |
|   |         |         | (0.4) |         |             |
| Risk-averse $\times$ FP costs           |         |         | .104  |         |             |
|   |         |         | (0.3) |         |             |
| No risk av. measure $\times$ FP costs   |         |         | 142   |         |             |
|   |         |         | (0.4) |         |             |
| Risk-loving $\times$ FN costs           |         |         | .744  |         |             |
|   |         |         | (0.5) |         |             |
| Risk-averse $\times$ FN costs           |         |         | .552  |         |             |
|   |         |         | (0.5) |         |             |
| No risk av. measure $\times$ FN costs   |         |         | .492  |         |             |
| T                                       |         |         | (0.5) | 0.050   |             |
| Inaccurate beliefs                      |         |         |       | .0678   |             |
|   |         |         |       | (0.2)   |             |
| Inaccurate beliefs $\times$ FP costs    |         |         |       | .636    |             |
| I                                       |         |         |       | (0.8)   |             |
| Inaccurate beliefs $\times$ FN costs    |         |         |       | .00218  |             |
| plevel=200                              |         |         |       | (0.3)   | 0           |
| pievei=200                              |         |         |       |         |             |
| plevel= $200 \times \text{FP costs}$    |         |         |       |         | (.)<br>.141 |
| pievei—200 × 11 costs                   |         |         |       |         | (0.2)       |
| plevel= $200 \times FN costs$           |         |         |       |         | .816***     |
| P10.01—200 // 110 00000                 |         |         |       |         | (0.2)       |
| Constant                                | 108     | 152*    | 149*  | 211     | 123         |
| 2 2 - 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.2)   | (0.1)   | (0.1) | (0.2)   | (0.1)       |
| Observations                            | 315     | 315     | 315   | 315     | 315         |
| Adjusted $R^2$                          | 0.05    | 0.59    | 0.59  | 0.59    | 0.60        |
|   |         |         |       |         |             |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 16: WTP for Information: heterogeneity by IP class

|                              | (1)     | (2)          | (3)          | (4)      |
|------------------------------|---------|--------------|--------------|----------|
|                              | p < 0.3 | p < 0.3      | All          | All      |
| model                        |         |              |              |          |
| FN costs                     | 562**   | 699***       | 254***       | 386***   |
|                              | (0.2)   | (0.3)        | (0.1)        | (0.1)    |
| FP costs                     | 631***  | 73***        | -1.03***     | -1.15*** |
|                              | (0.2)   | (0.2)        | (0.2)        | (0.2)    |
| Simpletons                   |         | 804**        |              | 87***    |
|                              |         | (0.4)        |              | (0.3)    |
| Simpletons $\times$ FN costs |         | .618         |              | .63***   |
|                              |         | (0.6)        |              | (0.2)    |
| Simpletons $\times$ FP costs |         | .393         |              | .573     |
|                              |         | (0.5)        |              | (0.4)    |
| Constant                     | 1.94*** | $2.17^{***}$ | 2.34***      | 2.57***  |
|                              | (0.2)   | (0.2)        | (0.1)        | (0.1)    |
| sigma                        |         |              |              |          |
| Constant                     | 1.82*** | 1.79***      | $1.97^{***}$ | 1.92***  |
|                              | (0.1)   | (0.1)        | (0.1)        | (0.1)    |
| Observations                 | 315     | 312          | 630          | 624      |
| Adjusted $R^2$               |         |              |              |          |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 17: WTP minus Value of Information, connection to self-reported protection strategy

|                              | (1)     | (2)        | (3)      | (4)    | (5)      | (6)      |
|------------------------------|---------|------------|----------|--------|----------|----------|
|                              | All     | p = 0.1    | p = 0.2  | All    | All      | All      |
| Seek honest                  | .916*** | 1.16***    |          | 1.18** |          | 1.4**    |
|                              | (0.3)   | (0.4)      |          | (0.5)  |          | (0.6)    |
| Other                        | .292    | .351       |          | .255   |          | .594     |
|                              | (0.2)   | (0.4)      |          | (0.5)  |          | (0.5)    |
| FP rate                      | 2.19*** | $2.67^{*}$ | -1.84**  | 2.6    | -1.66**  | 2.52     |
|                              | (0.6)   | (1.6)      | (0.8)    | (1.9)  | (0.8)    | (2.4)    |
| FN rate                      | 243     | .296       | -2.18*** | -1.13  | -2.23*** | 2.41     |
|                              | (0.6)   | (1.6)      | (0.8)    | (1.9)  | (0.8)    | (2.4)    |
| Seek honest $\times$ FP rate |         | 713        |          | 998    |          | 621      |
|                              |         | (1.8)      |          | (2.3)  |          | (2.7)    |
| Other $\times$ FP rate       |         | 424        |          | 535    |          | .205     |
|                              |         | (1.8)      |          | (2.2)  |          | (2.6)    |
| Seek honest $\times$ FN rate |         | -1.34      |          | 778    |          | -2.46    |
|                              |         | (1.8)      |          | (2.3)  |          | (2.7)    |
| Other $\times$ FN rate       |         | 0627       |          | .512   |          | -1.42    |
|                              |         | (1.8)      |          | (2.2)  |          | (2.6)    |
| Constant                     | 617***  | 739**      | 1.84***  | 123    | 2.28***  | -1.56*** |
|                              | (0.2)   | (0.3)      | (0.2)    | (0.4)  | (0.2)    | (0.5)    |
| Observations                 | 315     | 315        | 162      | 162    | 153      | 153      |
| Adjusted $R^2$               | 0.09    | 0.08       | 0.08     | 0.09   | 0.07     | 0.08     |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

# B Figures

Blind Protection Response

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Figure 1: Average Blind Protection Response

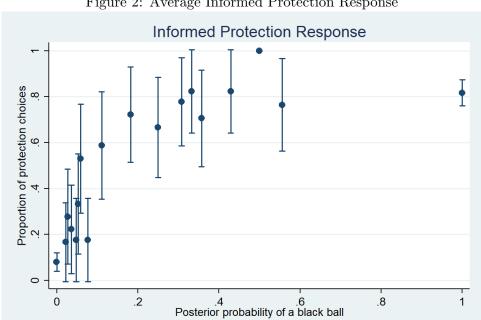
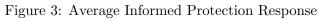


Figure 2: Average Informed Protection Response



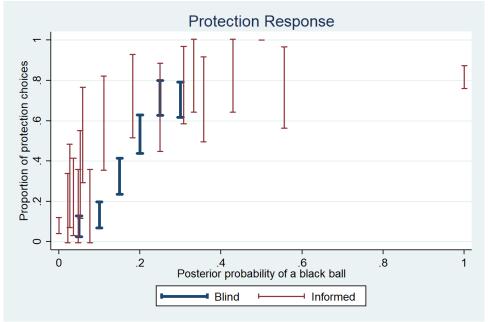
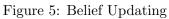


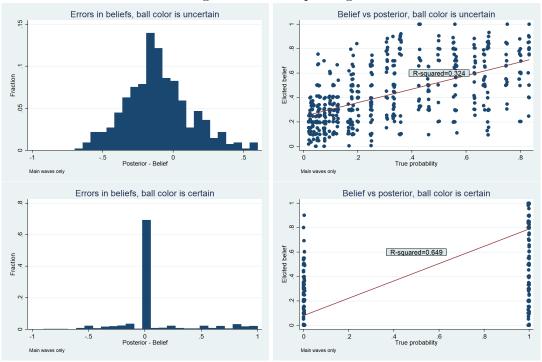
Figure 4: Average Informed Protection Response (Smoothed)



Ipoly smooth

95% CI

kernel = epanechnikov, degree = 0, bandwidth = .1, pwidth = .17



Theoretical vs actual WTP

Percent

39.429

Figure 6: Theoretical vs actual WTP



Theoretical WTP

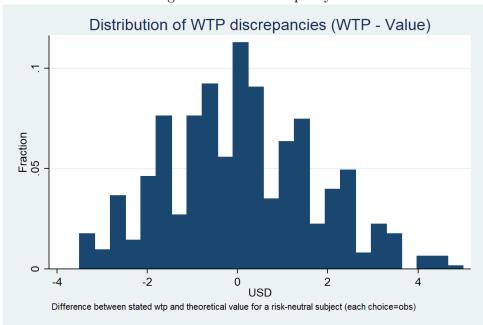
2

1

3

0

Ó



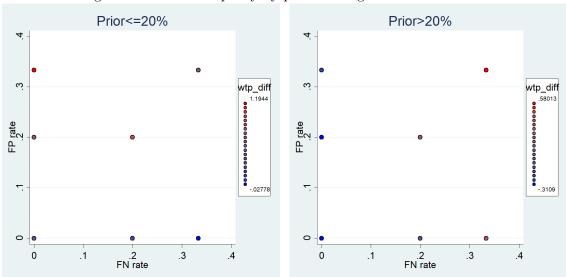


Figure 8: WTP discrepancy by prior and signal characteristics  $\,$ 

## C Appendix Tables

Table 18: Informed Protection Response: flexible control for posteriors and beliefs

|                           | (1)    | (2)     | (3)     | (4)    | (5)     | (6)     |
|---------------------------|--------|---------|---------|--------|---------|---------|
|                           | (1)    | FE      | (0)     | (1)    | S=White | S=Black |
| FP rate                   | .329** | .292    | .308    | .372*  | .342*** | 0805    |
|                           | (2.3)  | (1.5)   | (1.4)   | (1.9)  | (2.7)   | (-0.1)  |
| FN rate                   | .0109  | .000606 | 0916    | .493   | 104     | .0794   |
|                           | (0.1)  | (0.0)   | (-0.5)  | (1.3)  | (-0.4)  | (0.4)   |
| p≥0.2                     | ` ′    | ` ,     | .279*** | , ,    | , ,     | , ,     |
|                           |        |         | (4.7)   |        |         |         |
| FP rate x (p $\geq 0.2$ ) |        |         | 0175    |        |         |         |
| ν,                        |        |         | (-0.1)  |        |         |         |
| FN rate x (p $\geq 0.2$ ) |        |         | .181    |        |         |         |
|                           |        |         | (0.9)   |        |         |         |
| S=Black                   |        |         |         | .71    |         |         |
|                           |        |         |         | (1.3)  |         |         |
| FP rate x (S=Black)       |        |         |         | -1.06  |         |         |
|                           |        |         |         | (-1.1) |         |         |
| FN rate x (S=Black)       |        |         |         | 535    |         |         |
|                           |        |         |         | (-1.3) |         |         |
| Observations              | 629    | 587     | 587     | 587    | 313     | 314     |
| Adjusted $R^2$            |        |         |         |        |         |         |

t statistics in parentheses

With flexible controls of posterior probability and beliefs

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

|                           | (1)     | (2)    | (3)     | (4)     |
|---------------------------|---------|--------|---------|---------|
| DD 4                      | F 45*** | 400**  | F07***  | 0.01*   |
| FP rate                   | .547*** | .439** | .527*** | .361*   |
|                           | (3.6)   | ` /    | (3.3)   | ` ,     |
| FN rate                   | 186     |        |         |         |
|                           | (-1.0)  | (-0.9) | (-1.6)  | (0.0)   |
| p≥0.2                     |         | .0377  |         |         |
|                           |         | (0.8)  |         |         |
| FP rate x (p $\geq 0.2$ ) |         | .225   |         |         |
|                           |         | (0.9)  |         |         |
| FN rate x (p $\geq 0.2$ ) |         | .0451  |         |         |
| (1 = /                    |         | (0.2)  |         |         |
| S=Black                   |         | (*)    | -6.21   |         |
| 5 Black                   |         |        | (-0.6)  |         |
| FP rate x (S=Black)       |         |        | .00529  |         |
| I'I Tate X (D—DIack)      |         |        | (0.0)   |         |
| EN mate as (C. Dlask)     |         |        | ` ,     |         |
| FN rate x (S=Black)       |         |        | .516    |         |
| Q                         |         |        | (1.3)   | 0.1.0.0 |
| Stat. class               |         |        |         | 0199    |
|                           |         |        |         | (-0.4)  |
| FP rate x Stat. class     |         |        |         | .326    |
|                           |         |        |         | (1.5)   |
| FN rate x Stat. class     |         |        |         | 298     |
|                           |         |        |         | (-1.4)  |
| Observations              | 629     | 629    | 629     | 629     |
| Adjusted $\mathbb{R}^2$   | 0.02    | 0.02   | 0.02    | 0.02    |

t statistics in parentheses

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 20: WTP - Value of Information, by prior with order effects

|                                     | (1)       | (2)       | (3)        | (4)     | (5)     | (6)     |
|-------------------------------------|-----------|-----------|------------|---------|---------|---------|
|                                     | p=0.1,0.2 | p=0.3,0.5 | p=0.1,0.2  | (1)     | (0)     | (0)     |
| FP rate                             | 2.23***   | 249       | 2.12***    | 1.21*   | 249     | 325     |
|                                     | (0.5)     | (0.7)     | (0.7)      | (0.7)   | (0.7)   | (0.8)   |
| FN rate                             | 254       | 2.64***   | -1.22**    | .169    | 2.64*** | 1.33*** |
|                                     | (0.4)     | (0.5)     | (0.5)      | (0.5)   | (0.5)   | (0.5)   |
| Starts with p=0.2                   |           | , ,       | -1.13***   | .256    | , ,     | , ,     |
|                                     |           |           | (0.3)      | (0.3)   |         |         |
| Starts with p= $0.2 \times FP$ rate |           |           | .215       | 444     |         | .157    |
|                                     |           |           | (1.0)      | (1.0)   |         | (0.7)   |
| Starts with p= $0.2 \times FN$ rate |           |           | 1.99***    | 2.11*** |         | 2.71*** |
|                                     |           |           | (0.7)      | (0.8)   |         | (0.6)   |
| First prior                         |           |           |            |         | .0367   | .0367   |
|                                     |           |           |            |         | (0.2)   | (0.2)   |
| First prior $\times$ FP rate        |           |           |            |         | 2.48*** | 2.48*** |
|                                     |           |           |            |         | (0.7)   | (0.7)   |
| First prior $\times$ FN rate        |           |           |            |         | -2.9*** | -2.9*** |
|                                     |           |           |            |         | (0.3)   | (0.3)   |
| Constant                            | 135       | 172       | $.412^{*}$ | 278     | 172     | 172     |
|                                     | (0.2)     | (0.2)     | (0.2)      | (0.2)   | (0.2)   | (0.2)   |
| Observations                        | 315       | 315       | 315        | 630     | 630     | 630     |
| Adjusted $R^2$                      | 0.04      | 0.04      | 0.12       | 0.04    | 0.04    | 0.06    |

Table 21: WTP - Value of Information, by prior

|                | (1)         | (2)      | (3)    | (4)          | (5)     |
|----------------|-------------|----------|--------|--------------|---------|
|                | All         | 0.1      | 0.2    | 0.3          | 0.5     |
| FP rate        | .822*       | 1.96***  | 2.3*** | 121          | 865     |
|                | (0.5)       | (0.7)    | (0.7)  | (0.9)        | (0.9)   |
| FN rate        | $1.2^{***}$ | -1.24*** | .783   | $1.57^{***}$ | 3.79*** |
|                | (0.4)       | (0.4)    | (0.5)  | (0.6)        | (0.7)   |
| Constant       | 134         | .435***  | 713*** | 921***       | .677*** |
|                | (0.1)       | (0.1)    | (0.1)  | (0.1)        | (0.2)   |
| Observations   | 630         | 162      | 153    | 162          | 153     |
| Adjusted $R^2$ | 0.36        | 0.64     | 0.49   | 0.42         | 0.48    |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 22: Belief Elicitation: Discrepancy

| 1                            | able zz: r | венет Епсіта | ation: Disc  | терапсу      |              |              |
|------------------------------|------------|--------------|--------------|--------------|--------------|--------------|
|                              | (1)        | (2)          | (3)          | (4)          | (5)          | (6)          |
| FN rate                      | .016       | .016         | 014          | 014          | 0562         | 0554         |
|                              | (0.1)      | (0.1)        | (0.1)        | (0.1)        | (0.1)        | (0.1)        |
| FP rate                      | .919***    | .919***      | $1.07^{***}$ | $1.07^{***}$ | $1.05^{***}$ | $1.05^{***}$ |
|                              | (0.1)      | (0.1)        | (0.1)        | (0.1)        | (0.1)        | (0.1)        |
| Good quiz                    |            |              | .0469        | .0673        |              |              |
|                              |            |              | (0.0)        | (0.0)        |              |              |
| Good quiz $\times$ FN rate   |            |              | .0463        | .0464        |              |              |
|                              |            |              | (0.1)        | (0.1)        |              |              |
| Good quiz $\times$ FP rate   |            |              | 286*         | 284*         |              |              |
|                              |            |              | (0.2)        | (0.2)        |              |              |
| Stat. class                  |            |              |              |              | 00193        | 0127         |
|                              |            |              |              |              | (0.0)        | (0.0)        |
| Stat. class $\times$ FN rate |            |              |              |              | .127         | .126         |
|                              |            |              |              |              | (0.1)        | (0.1)        |
| Stat. class $\times$ FP rate |            |              |              |              | 229          | 226          |
|                              |            |              |              |              | (0.2)        | (0.2)        |
| Constant                     | 076***     | 0656***      | 101***       | 102***       | 0751***      | 0563         |
|                              | (0.0)      | (0.0)        | (0.0)        | (0.0)        | (0.0)        | (0.0)        |
| Prior prob dummies           | No         | Yes          | No           | Yes          | No           | Yes          |
| Observations                 | 630        | 630          | 630          | 630          | 630          | 630          |
| Adjusted $R^2$               | 0.17       | 0.17         | 0.17         | 0.17         | 0.17         | 0.17         |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 23: WTP minus Value of Information: demographic determinants

| 1able 23. W 11 1                         | mmus vai | ue or mio | imadon. | demogra | pine dec | cillinants |         |        |         |
|--|----------|-----------|---------|---------|----------|------------|---------|--------|---------|
|  | (1)      | (2)       | (3)     | (4)     | (5)      | (6)        | (7)     | (8)    | (9)     |
|  |          |           |         |         |          |            |         |        |         |
| FP costs                                 | .564***  | .602***   | .548*** | .475**  | .416**   | .546***    | .496*** | .66*** | .591*** |
|  | (0.1)    | (0.2)     | (0.2)   | (0.2)   | (0.2)    | (0.1)      | (0.1)   | (0.2)  | (0.2)   |
| FN costs                                 | 22*      | 317*      | 0684    | 242     | 0701     | $285^*$    | 0318    | 037    | .223    |
|  | (0.1)    | (0.2)     | (0.2)   | (0.2)   | (0.2)    | (0.2)      | (0.1)   | (0.2)  | (0.2)   |
| Male                                     |          | 23        | 27      |         |          |            |         |        |         |
|  |          | (0.4)     | (0.4)   |         |          |            |         |        |         |
| $Male \times FP costs$                   |          | 126       | 131     |         |          |            |         |        |         |
|  |          | (0.2)     | (0.2)   |         |          |            |         |        |         |
| $Male \times FN costs$                   |          | .244      | .251    |         |          |            |         |        |         |
|  |          | (0.3)     | (0.2)   |         |          |            |         |        |         |
| Stat. class                              |          |           |         | 186     | 226      |            |         |        |         |
|  |          |           |         | (0.4)   | (0.4)    |            |         |        |         |
| Stat. class $\times$ FP costs            |          |           |         | .146    | .141     |            |         |        |         |
|  |          |           |         | (0.2)   | (0.2)    |            |         |        |         |
| Stat. class $\times$ FN costs            |          |           |         | .0344   | .201     |            |         |        |         |
|  |          |           |         | (0.3)   | (0.2)    |            |         |        |         |
| >23 yrs                                  |          |           |         | ( )     | ( )      | 807**      | 747**   |        |         |
| V  |          |           |         |         |          | (0.4)      | (0.3)   |        |         |
| $>23 \text{ yrs} \times \text{FP costs}$ |          |           |         |         |          | .187       | .148    |        |         |
| , J                                      |          |           |         |         |          | (0.3)      | (0.3)   |        |         |
| $>$ 23 yrs $\times$ FN costs             |          |           |         |         |          | .454**     | .387    |        |         |
| > 20 y16 × 111 costs                     |          |           |         |         |          | (0.2)      | (0.3)   |        |         |
| Good quiz                                |          |           |         |         |          | (0.2)      | (0.0)   | .316   | .346    |
| Good quiz                                |          |           |         |         |          |            |         | (0.4)  | (0.4)   |
| Good quiz $\times$ FP costs              |          |           |         |         |          |            |         | 184    | 159     |
| Good quiz × 11 costs                     |          |           |         |         |          |            |         | (0.2)  | (0.2)   |
| Good quiz $\times$ FN costs              |          |           |         |         |          |            |         | 337    | 35      |
| Good quiz x FN costs                     |          |           |         |         |          |            |         |        |         |
| Ctt                                      | 100      | 0115      | 256     | 00505   | 207      | 00545      | 20.4    | (0.3)  | (0.2)   |
| Constant                                 | 108      | 0115      | .356    | .00585  | .387     | 00545      | .324    | 279    | .0568   |
| D ' 1 '                                  | (0.2)    | (0.2)     | (0.3)   | (0.3)   | (0.4)    | (0.2)      | (0.2)   | (0.3)  | (0.3)   |
| Prior dummies                            | No       | No        | Yes     | No      | Yes      | No         | Yes     | No     | Yes     |
| Observations                             | 315      | 315       | 315     | 315     | 315      | 315        | 315     | 315    | 315     |
| Adjusted $R^2$                           | 0.05     | 0.04      | 0.11    | 0.04    | 0.12     | 0.06       | 0.12    | 0.04   | 0.11    |

<sup>\*</sup> p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01