Crying Wolf in the Lab

Arya Gaduh, Peter McGee, Alexander Ugarov* February 1, 2022

Abstract

Keywords:

1 Introduction

A Tables

Table 1: WTP for Information (Discrepancy)

| | VV 11 101 | IIIIOIIIIa | non (Disc. | repairey) | | |
|----------------------------------|-----------|------------|------------|-----------|---------|---------|
| | (1) | (2) | (3) | (4) | (5) | (6) |
| | | | | | | |
| FP costs | .251* | .305** | .0991 | .136 | .404** | .439** |
| | (0.1) | (0.1) | (0.2) | (0.2) | (0.2) | (0.2) |
| FN costs | .356*** | .292*** | .397*** | .348*** | .425*** | .375*** |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| Risk-averse | | | .0046 | 154 | | |
| | | | (0.3) | (0.4) | | |
| Risk-averse \times FP costs | | | .187 | .227 | | |
| | | | (0.2) | (0.3) | | |
| Risk-averse \times FN costs | | | 066 | 118 | | |
| | | | (0.2) | (0.1) | | |
| Accur. beliefs | | | () | () | .212 | .335 |
| | | | | | (0.3) | (0.4) |
| Accur. beliefs \times FP costs | | | | | 361 | 339 |
| | | | | | (0.2) | (0.2) |
| Accur. beliefs \times FN costs | | | | | 143 | 166 |
| | | | | | (0.1) | (0.1) |
| Constant | 233 | .288 | 237 | .336 | 331 | .145 |
| | (0.2) | (0.2) | (0.3) | (0.3) | (0.2) | (0.3) |
| Prior dummies | No | Yes | No | Yes | No | Yes |
| Observations | 630 | 630 | 588 | 588 | 630 | 630 |
| Adjusted R^2 | 0.05 | 0.21 | 0.04 | 0.22 | 0.05 | 0.22 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 2: WTP for Information (Discrepancy, demographic variables)

| Table 2: WTP | | | ` | | | | /-\ | (-) | /- \ |
|--|---------|---------|---------|---------|---------|---------|-------------------------|---------|-------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| | | | | | | | | est8 | est9 |
| FP costs | .251* | .283 | .352* | .117 | .215 | .263* | .307** | .479** | .515 |
| | (0.1) | (0.2) | (0.2) | (0.2) | (0.2) | (0.1) | (0.1) | (0.2) | (0.2) |
| FN costs | .356*** | .322*** | .247*** | .395*** | .303*** | .307*** | .251*** | .493*** | .453* |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1 |
| Male | | 251 | 238 | | | | | | |
| | | (0.3) | (0.4) | | | | | | |
| $Male \times FP costs$ | | 122 | 159 | | | | | | |
| | | (0.2) | (0.2) | | | | | | |
| $Male \times FN costs$ | | .0857 | .117 | | | | | | |
| | | (0.1) | (0.1) | | | | | | |
| Stat. class | | | | 28 | 194 | | | | |
| | | | | (0.3) | (0.4) | | | | |
| Stat. class \times FP costs | | | | .218 | .145 | | | | |
| | | | | (0.3) | (0.3) | | | | |
| Stat. class \times FN costs | | | | 0785 | 0188 | | | | |
| | | | | (0.1) | (0.1) | | | | |
| >23 yrs | | | | | | 335 | 606 | | |
| | | | | | | (0.4) | (0.4) | | |
| $>23 \text{ yrs} \times \text{FP costs}$ | | | | | | 0837 | .00811 | | |
| - | | | | | | (0.3) | (0.3) | | |
| $>23 \text{ yrs} \times \text{FN costs}$ | | | | | | .346 | $.27\overset{\circ}{5}$ | | |
| U | | | | | | (0.2) | (0.2) | | |
| Good quiz | | | | | | () | () | .493 | .453 |
| 1 | | | | | | | | (0.3) | (0.4) |
| Good quiz \times FP costs | | | | | | | | 441* | 4] |
| 1 | | | | | | | | (0.3) | (0.3) |
| Good quiz \times FN costs | | | | | | | | 253* | 295 |
| 1 | | | | | | | | (0.1) | (0.1 |
| Constant | 233 | 126 | .391 | 0579 | .419 | 188 | .356 | 5** | .045 |
| | (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 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 |
| Adjusted R^2 | 0.05 | 0.05 | 0.21 | 0.05 | 0.21 | 0.05 | 0.21 | 0.05 | 0.22 |
| Trajustica It | 0.00 | 0.00 | 0.21 | 0.00 | 0.21 | 0.00 | 0.41 | 0.00 | 0.22 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 3: WTP for Information (Discrepancy, by prior)

| | | | P J ; | - J I - / |
|----------------|---------|---------|--------|-----------|
| | (1) | (2) | (3) | (4) |
| | 0.1 | 0.2 | 0.3 | 0.5 |
| FP costs | .472*** | .585*** | .0821 | 326 |
| | (0.2) | (0.2) | (0.2) | (0.3) |
| FN costs | 609** | .192 | .26** | .379*** |
| | (0.2) | (0.1) | (0.1) | (0.1) |
| Constant | .412* | 715*** | 968*** | .671** |
| | (0.2) | (0.2) | (0.2) | (0.3) |
| Observations | 162 | 153 | 162 | 153 |
| Adjusted R^2 | 0.04 | 0.05 | 0.01 | 0.09 |

Table 4: WTP for Information (Tobit, by prior)

| | | | , , | |
|-------------------------|---------|-------------|--------------|---------|
| | (1) | (2) | (3) | (4) |
| | 0.1 | 0.2 | 0.3 | 0.5 |
| model | | | | |
| FP costs | 624** | 519** | -1.24*** | -1.3** |
| | (0.2) | (0.3) | (0.3) | (0.5) |
| FN costs | -1.22** | 682*** | 612*** | 365*** |
| | (0.6) | (0.3) | (0.2) | (0.1) |
| Constant | 1.72*** | 2.33*** | 2.63*** | 3.32*** |
| | (0.2) | (0.2) | (0.2) | (0.3) |
| sigma | | | | |
| Constant | 1.86*** | 1.7^{***} | 1.77^{***} | 2.16*** |
| | (0.1) | (0.1) | (0.1) | (0.2) |
| Observations | 162 | 153 | 162 | 153 |
| Adjusted \mathbb{R}^2 | | | | |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

| Table 5: WTP for Information (| (Tobit, by prior) |
|--------------------------------|-------------------|
|--------------------------------|-------------------|

| | | | , , | |
|----------------|---------|-------------|--------------|----------|
| | (1) | (2) | (3) | (4) |
| | 0.1 | 0.2 | 0.3 | 0.5 |
| model | | | | |
| FP rate | -2.81** | -2.08** | -4.35*** | -3.25** |
| | (1.1) | (1.0) | (1.0) | (1.3) |
| FN rate | -2.45** | -2.73*** | -3.67*** | -3.65*** |
| | (1.1) | (1.0) | (1.0) | (1.3) |
| Constant | 1.72*** | 2.33*** | 2.63*** | 3.32*** |
| | (0.2) | (0.2) | (0.2) | (0.3) |
| sigma | | | | |
| Constant | 1.86*** | 1.7^{***} | 1.77^{***} | 2.16*** |
| | (0.1) | (0.1) | (0.1) | (0.2) |
| Observations | 162 | 153 | 162 | 153 |
| Adjusted R^2 | | | | |

Table 6: WTP of Information (discrepancy, by prior)

| | | \ | 1 57 | 0 1 / |
|-------------------------|---------|---------|--------|---------|
| | (1) | (2) | (3) | (4) |
| | 0.1 | 0.2 | 0.3 | 0.5 |
| FP rate | 2.12*** | 2.34*** | .287 | 816 |
| | (0.8) | (0.8) | (0.8) | (0.9) |
| FN rate | -1.22 | .768 | 1.56* | 3.79*** |
| | (0.8) | (0.8) | (0.8) | (0.9) |
| Constant | .412** | 715*** | 968*** | .671*** |
| | (0.2) | (0.2) | (0.2) | (0.2) |
| Observations | 162 | 153 | 162 | 153 |
| Adjusted \mathbb{R}^2 | 0.04 | 0.05 | 0.01 | 0.09 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 7: WTP for Information (different risk aversion)

| | | | | (| | / |
|-------------------------|--------------|----------------|----------------|----------------|----------------|------------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) |
| | $\theta = 0$ | $\theta = 0.5$ | $\theta = 1.0$ | $\theta = 1.5$ | $\theta = 2.5$ | Heterogeneous θ |
| FP costs | .295** | .322** | .316** | .271* | .151 | .29** |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| FN costs | .243*** | .346*** | .46*** | .559*** | .69*** | .343*** |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| Constant | .254 | 146 | 664*** | -1.32*** | -1.81*** | 411 |
| | (0.2) | (0.2) | (0.2) | (0.2) | (0.2) | (0.3) |
| Prior dummies | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 504 | 504 | 504 | 504 | 504 | 504 |
| Adjusted \mathbb{R}^2 | 0.21 | 0.27 | 0.28 | 0.32 | 0.37 | 0.19 |

Table 8: WTP for Information (different risk aversion)

| | | 1101111101101 | (| 7 11011 00 1011 | |
|----------------|--------------|----------------|----------------|-----------------|----------------|
| | (1) | (2) | (3) | (4) | (5) |
| | $\theta = 0$ | $\theta = 0.5$ | $\theta = 1.0$ | $\theta = 1.5$ | $\theta = 2.5$ |
| FP costs | .305** | .337*** | .336*** | .292** | .176 |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| FN costs | .292*** | .393*** | .502*** | .596*** | .724*** |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| Constant | .288 | 111 | 629*** | -1.29*** | -1.78*** |
| | (0.2) | (0.2) | (0.2) | (0.2) | (0.2) |
| Prior dummies | Yes | Yes | Yes | Yes | Yes |
| Observations | 630 | 630 | 630 | 630 | 630 |
| Adjusted R^2 | 0.21 | 0.28 | 0.29 | 0.32 | 0.37 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 9: Belief Elicitation: Discrepancy

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------------------------|----------|--------|----------|--------|---------|--------|
| | (1) | (=) | (0) | (1) | (0) | (0) |
| False neg. rate | 0101 | 0101 | .05 | .05 | .0886 | .0876 |
| | (0.0) | (0.0) | (0.1) | (0.1) | (0.1) | (0.1) |
| False pos. rate | 606*** | 606*** | 75*** | 749*** | 664*** | 66*** |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| Good quiz | | | 0299 | 0538 | | |
| | | | (0.0) | (0.0) | | |
| Good quiz \times False neg. rate | | | 102 | 102 | | |
| | | | (0.1) | (0.1) | | |
| Good quiz \times False pos. rate | | | .269** | .266** | | |
| | | | (0.1) | (0.1) | | |
| Stat. class | | | | | .0203 | .0391 |
| | | | | | (0.0) | (0.0) |
| Stat. class \times False neg. rate | | | | | 172* | 171* |
| | | | | | (0.1) | (0.1) |
| Stat. class \times False pos. rate | | | | | .104 | .0999 |
| | | | | | (0.1) | (0.1) |
| Constant | .0616*** | .0279 | .0779*** | .0566 | .0499** | .00222 |
| | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| Prior prob dummies | No | Yes | No | Yes | No | Yes |
| Observations | 1260 | 1260 | 1260 | 1260 | 1260 | 1260 |
| Adjusted R^2 | 0.09 | 0.09 | 0.09 | 0.10 | 0.09 | 0.09 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 10: Belief Elicitation: Decomposition

| SignalB | Table 10: | Belief Eli | citation: I | Decompo | osition | | |
|--|-------------------------------------|------------|-------------|---------|---------|--------|------------------------|
| It_prior | | (1) | (2) | (3) | (4) | (5) | (6) |
| Signal S | | | | | | OLS | $\overline{\text{FE}}$ |
| signalB .447*** .86*** .86*** .388 .654*** .905*** .1.08** (4.1) (6.3) (1.4) (3.2) (5.4) (5.3) signalW .413*** 0 .266 0 .1.74 0 (4.6) (.) (1.2) (.) (1.0) (.) >2 wrong answers 0 0 0 (.) (.) (.) Good quiz 367 0 (-1.3) (.) >2 wrong answers × lt_prior 0 0 0 Good quiz × lt_prior 1.34 .0207 (1.2) (0.2) >2 wrong answers × signalB 0 0 0 (.) (.) (.) .600 quiz × signalB 528 .387 (1.5) (1.4) .22 wrong answers × signalW Good quiz × signalW 0 0 0 (.) (.) (.) .60 0 Stat. class 1.52 0 (.) (.) (.) .60 0 Stat. class 1.52 0 (.) (.) (.) .60 0 (.) (.) (.) .60 0 (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) .60 0 (.) (.) (.) (.) | lt_prior | | | | | | .0403 |
| (4.1) (6.3) (1.4) (3.2) (5.4) (5.3) | | , | | ` , | , , | | (0.6) |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | signalB | · · | | | | | 1.08*** |
| (4.6) | | , | ` , | | ` , | ` , | ` , |
| >2 wrong answers (0 0 0 (.) (.) (.) (.) (.) (.) (.) (.) (.) (.) (.) | signalW | | | | | | |
| (.) (.) (.) (.) (.) (| . 0 | (4.6) | (.) | ` , | | (1.0) | (.) |
| Good quiz 367 0 (-1.3) (.) >2 wrong answers × lt_prior 0 0 (.) (.) Good quiz × lt_prior 1.34 0.207 (1.2) (0.2) >2 wrong answers × signalB 0 0 0 (.) (.) Good quiz × signalB .528 .387 (1.5) (1.4) >2 wrong answers × signalW 0 0 (.) (.) Good quiz × signalW 141 0 (-0.5) (.) No 0 0 (.) (.) Stat. class 1.52 0 (0.6) (.) No × lt_prior 0 0 0 Stat. class × lt_prior 0 0 Stat. class × lt_prior 0 0 0 0.) Stat. class × signalB 0 0 0 0.) Stat. class × signalB 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 Stat. class × signalB 0 0 0 0 0 Stat. class × signalB 0 0 0 0 0 0 0 0 0 0 0 0 0 | >2 wrong answers | | | | | | |
| C-1.3 C C C C C C C C C | Cood guiz | | | | | | |
| $ > 2 \text{ wrong answers} \times \text{lt_prior} & 0 & 0 \\ (.) & (.) \\ (.) & (.) \\ Good \text{ quiz} \times \text{lt_prior} & .134 & .0207 \\ (1.2) & (0.2) \\ > 2 \text{ wrong answers} \times \text{signalB} & 0 & 0 \\ (.) & (.) \\ Good \text{ quiz} \times \text{signalB} & .528 & .387 \\ (1.5) & (1.4) \\ > 2 \text{ wrong answers} \times \text{signalW} & 0 & 0 \\ (.) & (.) \\ Good \text{ quiz} \times \text{signalW} &141 & 0 \\ (-0.5) & (.) \\ No & & & & & & & & & & \\ Stat. \text{ class} & & & & & & & & \\ No \times \text{lt_prior} & & & & & & & & & \\ No \times \text{signalB} & & & & & & & & & & \\ No \times \text{signalB} & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalB} & & & & & & & & & & & \\ No \times \text{signalB} & & & & & & & & & & & & \\ No \times \text{signalB} & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalB} & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & \\ No \times \text{signalW} & & & & & & & & & & & & & \\ No \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & & & \\ Stat. \text{ class} \times \text{signalW} & & & & & & & & & & & & & & & & & & &$ | Good quiz | | | | | | |
| (.) (.) (.) Good quiz × lt_prior .134 .0207 (1.2) (0.2) | >2 wrong answers × lt prior | | | , , | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | >2 wrong answers × ne-prior | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Good guiz × lt_prior | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | >2 wrong answers \times signalB | | | ` , | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | (.) | (.) | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Good quiz \times signalB | | | .528 | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | (1.5) | (1.4) | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | >2 wrong answers \times signalW | | | 0 | 0 | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | (.) | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Good quiz \times signalW | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | (-0.5) | (.) | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | No | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | C 1 | | | | | | _ |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Stat. class | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | No x lt prior | | | | | ` , | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | NO × It_prior | | | | | | |
| No \times signalB | Stat class × lt prior | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Stat. Class × 1t_prior | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $No \times signalB$ | | | | | \ / | ` , |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| | Stat. class \times signalB | | | | | | 333 |
| No \times signalW 0 0 (.) (.) Stat. class \times signalW00496 0 | G | | | | | | (-1.2) |
| Stat. class \times signalW00496 0 | $No \times signalW$ | | | | | , , | ` / |
| | | | | | | (.) | (.) |
| (00) | Stat. class \times signalW | | | | | 00496 | 0 |
| | | | | | | (-0.0) | (.) |
| | Constant | | | | | | 508*** |
| | | | | | | | (-5.5) |
| Observations 280 280 280 280 280 280 | | | | 280 | | 280 | |
| Adjusted R^2 0.31 0.32 0.32 | Adjusted R^2 | 0.31 | | | 0.32 | | 0.32 |

Decomposition works only for imperfect signals

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

| | ection. Ite | esponse to | Reported | Deneis |
|-----------------------------------|----------------------|----------------------|----------------------|---------|
| | (1) | (2) | (3) | (4) |
| | | | | |
| Informed protection | | | | |
| Belief | 2.36*** | 2.67*** | 2.63*** | 2.85*** |
| | (0.2) | (0.2) | (0.4) | (0.4) |
| Belief error | , , | 1.3*** | 1.17*** | 1.44*** |
| | | (0.2) | (0.2) | (0.3) |
| Good quiz | | , | .184 | () |
| • | | | (0.2) | |
| Good quiz \times Belief | | | .105 | |
| • | | | (0.5) | |
| Good quiz \times Belief error | | | .34 | |
| 1 | | | (0.4) | |
| Stat. class | | | (0) | .0954 |
| 20000 | | | | (0.2) |
| Stat. class \times Belief | | | | 287 |
| Statt. Class // Bellet | | | | (0.5) |
| Stat. class \times Belief error | | | | 212 |
| Statt. Class X Belief effor | | | | (0.4) |
| Constant | 813*** | 914*** | -1.01*** | 973*** |
| Collegatio | (0.1) | (0.1) | (0.2) | (0.1) |
| Observations | $\frac{(0.1)}{1259}$ | $\frac{(0.1)}{1259}$ | $\frac{(0.2)}{1259}$ | 1259 |
| AIC | 1239 1287.47 | 1259 1196.40 | 1259 1194.29 | 1201.09 |
| AIU | 1401.41 | 1190.40 | 1134.43 | 1201.09 |

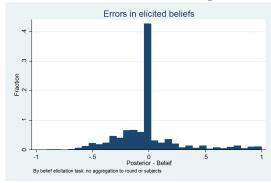
^{*} p < 0.10, ** p < 0.05, *** p < 0.01

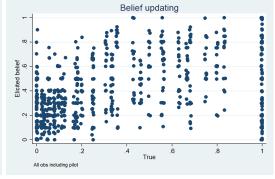
Table 12: Informed protection by prior

| | - F | J P | • | | |
|--|----------|--------------|----------|--------------|--------------|
| | (1) | (2) | (3) | (4) | (5) |
| | All | 0.1 | 0.2 | 0.3 | 0.5 |
| Informed protection | | | | | |
| Gremlin says Black | 2.53*** | 2.65^{***} | 2.66*** | 2.77^{***} | 2.27^{***} |
| | (0.2) | (0.3) | (0.3) | (0.4) | (0.3) |
| Gremlin says Black= $1 \times$ False pos. rate | .0938 | 536 | 564 | .569 | 1.81 |
| | (0.6) | (0.8) | (1.0) | (1.4) | (1.1) |
| Gremlin says Black= $1 \times$ False neg. rate | .0247 | 625 | .727 | 239 | .689 |
| | (0.4) | (0.6) | (1.0) | (0.7) | (1.0) |
| Constant | -1.49*** | -1.85*** | -1.58*** | -1.44*** | -1.3*** |
| | (0.1) | (0.3) | (0.2) | (0.2) | (0.2) |
| Observations | 1259 | 323 | 306 | 324 | 306 |
| Adjusted R^2 | | | | | |

B Figures

Figure 1: Belief Updating





^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 13: Expected costs discrepancy

| | (1) | (2) | (3) | (4) | (5) | (6) |
|----------------------------------|--------|--------|--------|--------|------------|-------|
| | | | | | | |
| FP costs | .0627 | .0297 | .153 | .135 | 00302 | 0796 |
| | (0.1) | (0.1) | (0.2) | (0.2) | (0.2) | (0.2) |
| FN costs | 0285 | .011 | 103 | 081 | .134 | .243* |
| | (0.1) | (0.1) | (0.1) | (0.2) | (0.1) | (0.1) |
| Risk-averse | | | 167 | .121 | | |
| | | | (0.3) | (0.3) | | |
| Risk-averse \times FP costs | | | 143 | 161 | | |
| | | | (0.3) | (0.3) | | |
| Risk-averse \times FN costs | | | .169 | .198 | | |
| | | | (0.1) | (0.2) | | |
| Accur. beliefs | | | , , | ` , | $.557^{*}$ | .231 |
| | | | | | (0.3) | (0.3) |
| Accur. beliefs \times FP costs | | | | | .18 | .279 |
| | | | | | (0.3) | (0.3) |
| Accur. beliefs \times FN costs | | | | | 329** | 46** |
| | | | | | (0.1) | (0.2) |
| Constant | 872*** | 708*** | 781*** | 797*** | -1.15*** | 82** |
| | (0.1) | (0.2) | (0.2) | (0.2) | (0.2) | (0.2) |
| Prior prob dummies | No | Yes | No | Yes | No | Yes |
| Observations | 629 | 629 | 587 | 587 | 629 | 629 |
| Adjusted R^2 | -0.00 | -0.00 | -0.00 | -0.01 | 0.02 | 0.03 |

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 14: Expected costs discrepancy (without 10% outliers)

| | (1) | (2) | (3) | (4) | (5) | (6) |
|----------------------------------|--------|--------|--------|--------|---------|---------|
| | () | () | () | () | () | () |
| FP costs | 241*** | 217*** | 165* | 137* | 274*** | 121 |
| | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| FN costs | 112*** | 127*** | 0913** | 116*** | 0678 | 103** |
| | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| Risk-averse | | | 128 | .0384 | | 119 |
| | | | (0.1) | (0.1) | | (0.1) |
| Risk-averse \times FP costs | | | 073 | 0708 | | 0814 |
| | | | (0.1) | (0.1) | | (0.1) |
| Risk-averse \times FN costs | | | 0302 | 0167 | | 0358 |
| | | | (0.1) | (0.1) | | (0.1) |
| Accur. beliefs | | | | | .219*** | .259*** |
| | | | | | (0.1) | (0.1) |
| Accur. beliefs \times FP costs | | | | | .0905 | |
| | | | | | (0.1) | |
| Accur. beliefs \times FN costs | | | | | 0851 | |
| | | | | | (0.1) | |
| Constant | 2*** | 101 | 152*** | 137 | 315*** | 174* |
| | (0.0) | (0.1) | (0.1) | (0.1) | (0.1) | (0.1) |
| Prior prob dummies | No | Yes | No | Yes | No | Yes |
| Observations | 557 | 557 | 522 | 522 | 557 | 522 |
| Adjusted R^2 | 0.05 | 0.07 | 0.05 | 0.08 | 0.06 | 0.09 |

Table 15: Expected costs discrepancy by prior

| Table 19. Expected costs discrepancy by prior | | | | | | |
|---|----------|--------|--------|----------|--|--|
| | (1) | (2) | (3) | (4) | | |
| | 0.1 | 0.2 | 0.3 | 0.5 | | |
| FP costs | .00323 | 331* | .33 | .831* | | |
| | (0.2) | (0.2) | (0.3) | (0.5) | | |
| FN costs | -1.37*** | 13 | 297*** | .18 | | |
| | (0.4) | (0.2) | (0.1) | (0.1) | | |
| Constant | 366*** | 671*** | 821*** | -1.44*** | | |
| | (0.1) | (0.2) | (0.2) | (0.4) | | |
| Observations | 161 | 153 | 162 | 153 | | |
| Adjusted \mathbb{R}^2 | 0.08 | 0.01 | 0.02 | 0.02 | | |

 ${\bf Standard\ errors\ in\ parentheses}$

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Figure 2: Following beliefs vs following posterior probabilities in IP

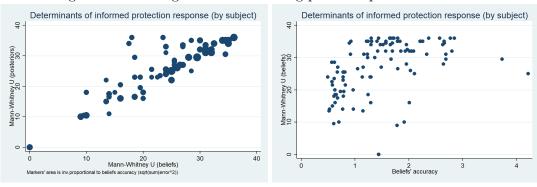
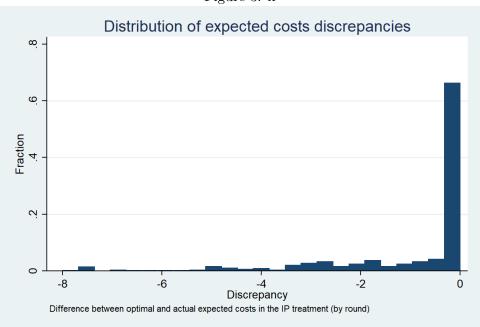


Figure 3: x



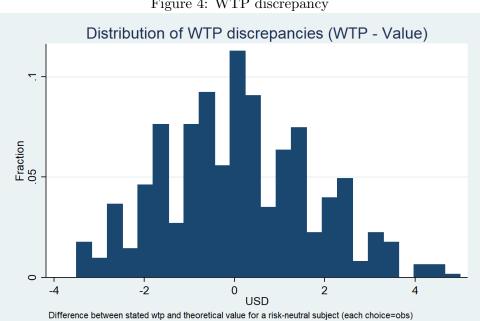


Figure 4: WTP discrepancy

