

# ANNEX 5

## Functional forms of the models used to estimate the impact of interventions



laboratorios  
de aceleración



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## Annex 5. Functional forms of the models used to estimate the impact of interventions.

### 1. Knowledge indices:

#### 1.1. Economic benefits

$$Y_{i_{pe}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{pe}}$  is the financial benefit rate of individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

#### 1.2. Health benefits

$$Y_{i_{health}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{health}}$  is the rate of health benefits of individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

#### 1.3. Institutional

$$Y_{i_{inst}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{inst}}$  is the index of institutional of individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  es representa las covariables explicativas del individuo  $i$
- $\varepsilon_j$  representa el término de error del modelo

### 2. Perception indexes:

#### 2.1. Economic valuation

$$Y_{i_{ve}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{ve}}$  is the economic valuation index of individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

## 2.2. Health assessment

$$Y_{vs} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{vs}}$  is the individual health assessment index  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the mode

## 2.3. Rights valuation index

$$Y_{i_{vd}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i_{vd}}$  is the individual rights assessment index  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

## 2.4 Other perception indexes

$$Y_i = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_i$  represents the perception index linked to the importance, form of solvability, IPS security, and cost of social security of individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

## 3. Response rates to reflective stories:

$$Y_{i_{refl}} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_refl1}$  is the reflective index corresponding to dilemma 1 (question 27) of the individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

$$Y_{i\_refl2} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_refl2}$  is the reflective index corresponding to dilemma 2 (question 28) of the individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model.

$$Y_{i\_refl3} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_refl3}$  is the reflective index corresponding to dilemma 3 (question 29) of the individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

$$Y_{i\_refl4} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_refl4}$  is the reflective index corresponding to dilemma 4 (question 30) of the individual  $i$
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

#### 4. Aggregate indexes:

##### 4.1. Knowledge

$$Y_{i\_inf} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_conoc}$  is the aggregate index that combines the three indexes corresponding to the individual's  $i$  information section ( $i_{pe}, i_{salud}, i_{inv}$ )
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model

## 4.2. Perception

$$Y_{i\_perc} = \beta_0 + \beta_1 T_i + \beta_2 X_i + \varepsilon_j$$

Where:

- $Y_{i\_perc}$  is the aggregate index combining the three indexes corresponding to the section on perception of individual  $i$  ( $i_{ve}, i_{vs}, i_{vd}$ )
- $T_i$  is the treatment received by individual  $i$
- $X_i$  is represents the explanatory covariates of individual  $i$
- $\varepsilon_j$  represents the error term of the model