

# **Impact of extreme rainfall shocks on the educational performance of vulnerable urban students: Evidence from Brazil (Supplementary Tables)**

November 30, 2023

Table Supplementary material appendix 1: Placebo's Test

| Panel A: Math              | (1)                  | (2)                 | (3)                   |
|----------------------------|----------------------|---------------------|-----------------------|
| Treatment                  | 0.0185<br>(0,0259)   | 0.0274<br>(0,0227)  | 0.000317<br>(0,00934) |
| Obs.                       | 1,035,266            | 967,338             | 967,338               |
| R-2                        | 0.076                | 0.112               | 0.113                 |
| School fixed-effect        | Y                    | Y                   | Y                     |
| Year fixed-effect          | Y                    | Y                   | N                     |
| Student control            | N                    | Y                   | Y                     |
| State-by-year fixed-effect | N                    | N                   | Y                     |
| Panel B: Language          | (1)                  | (2)                 | (3)                   |
| Treatment                  | -0.00571<br>(0,0232) | 0.00266<br>(0,0188) | -0.00056<br>(0,0115)  |
| Obs.                       | 1,035,266            | 967,338             | 967,338               |
| R-2                        | 0.068                | 0.127               | 0.128                 |
| School fixed-effect        | Y                    | Y                   | Y                     |
| Year fixed-effect          | Y                    | Y                   | N                     |
| Student control            | N                    | Y                   | Y                     |
| State-by-year fixed-effect | N                    | N                   | Y                     |

**Note:** The supplementary material appendix 1 presents the results of the placebo test estimation considering the same specifications as in Table I. Significance: \*\*\* 1%, \*\* 5% and \*10%, estimated standard errors clustering at the municipality level. Own elaboration.

Table Supplementary material appendix 2: Change in the composition of classes

| Variables                  | (1)<br>Reproved rate | (2)<br>Dropout rate | (3)<br>Class size |
|----------------------------|----------------------|---------------------|-------------------|
| Treatment                  | -0.344<br>(0,638)    | -0.0101<br>(0,515)  | -0.918<br>(0,966) |
| Obs                        | 16,341               | 16,341              | 16,301            |
| R-2                        | 0.534                | 0.495               | 0.632             |
| School fixed-effect        | Y                    | Y                   | Y                 |
| Year fixed-effect          | N                    | N                   | N                 |
| Student control            | Y                    | Y                   | Y                 |
| Predeterminants            | Y                    | Y                   | Y                 |
| State-by-year fixed-effect | Y                    | Y                   | Y                 |

**Note:** The Supplementary material appendix 2 presents the impact of precipitation shocks on school composition indicators: dropout rate, reproved rate, and class size. Significance: \*\*\* 1%, \*\* 5% and \*10%, estimated standard errors clustering at the municipality level. Own elaboration.