Supplemental Material1. The equation model of Diff-in-Diff to identify the relationship between BOP and the depression symptom

*i*: individual level (level 1) / *j*: household level (level 2)

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|  | Probability to be classified to have “probable depression” (CES-D11 score is equal to, or greater than 6.7). |
|  | Non-recipient of BOP (0), recipient of BOP (1), |
|  | Before BOP (0), After BOP(1) |
|  | Covariates at individual level |
|  | Covariates at household level |
|  | Household effect; same in the identical household |
|  | error term |
|  | Probability to be classified to have “probable depression” of non-recipient in pre-policy period (DRW00007c700ee8) |
|  | Group effect in pre-policy period; comparing non-recipient of BOP and recipient of BOP |
|  | Time effect in non-recipient group; comparing pre-policy period and post-policy period |
|  | Policy effect |
| ~ | Coefficient of ; individual effect and household effect |
| ~ | Coefficient of ; household effect |