# The trade-off between liquidity and insurance: voucher payments in a lab-in-the-field experiment with Colombian rural workers 

## Autores

Alexander Cano
Darwin Cortés
César Mantilla
Laura Prada
Medardo Restrepo

# The trade-off between liquidity and insurance: voucher payments in a lab-in-the-field experiment with Colombian rural workers* 

Alexander $\mathrm{Cano}^{\dagger}$<br>Darwin Cortés ${ }^{\ddagger}$ César Mantilla§<br>Laura Prada ${ }^{\text {II }}$

Medardo Restrepo ${ }^{\prime \prime}$
March 7, 2022


#### Abstract

We conduct a lab-in-the-field experiment in which 214 rural workers must choose between a cash or a voucher payment for completing a real-effort task. Participants face a twentypercent chance of suffering a negative shock that will reduce their cash payment by roughly two-thirds. Opting for the voucher reduces the likelihood of the shock by one-half. We employ a multiple-price list with a varying voucher payment and a fixed cash payment to study this trade-off relevant for expanding the coverage and contributions of rural labor formalization. We find that take-up rates go from $32 \%$ to $56 \%$, from the least to the more generous voucher. In a reference sample of undergrad students from the same region, take-up rates went from $17 \%$ to $33 \%$. Voucher redemption costs are exogenously manipulated by randomly assigning the show-up fee in cash or vouchers. Lower redemption costs induce a higher voucher take-up, but only among students. Being a rural worker with land, and receiving government subsidies in cash, predict a higher voucher take-up.


Keywords: agriculture; dual labor market; informal market;
JEL Classification Codes: C91, O17, R51

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Table 1: Take-up of the voucher option compared to 30 kCOP in cash.

|  | Voucher value (in kCOP) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $V=25$ | $V=28$ | $V=30$ | $V=34$ |
| Panel A: Comparison with the Cash choice |  |  |  |  |
| Payment Voucher/Cash (without shocks) | 0.83 | 0.93 | 1 | 1.13 |
| $E$ (Voucher) $/ E$ (Cash) | 0.88 | 1 | 1.07 | 1.23 |
| $E$ (Voucher) - E(Cash) | -3 | 0 | 2 | 6 |
| Panel B: Voucher take-up in the field sample |  |  |  |  |
| Field sample (N=214) | 32.2 | 40.2 | 46.7 | 56.1 |
| Show-up fee in voucher | 27.6 | 39.0 | 43.8 | 56.2 |
| Show-up fee in cash | 36.7 | 41.3 | 49.5 | 56.0 |
| $\chi^{2}$ test for type of show-up fee [p-value] | [0.155] | [0.739] | [0.401] | [0.973] |
| Voucher prices in descending order | 41.7 | 46.9 | 52.1 | 59.4 |
| Voucher prices in ascending order | 24.6 | 34.7 | 42.4 | 53.4 |
| $\chi^{2}$ test for order [p-value] | [0.008] | [0.072] | [0.157] | [0.380] |
| Panel C: Voucher take-up in the students' sample |  |  |  |  |
| Students sample ( $\mathrm{N}=69$ ) | 15.9 | 26.1 | 27.5 | 33.3 |
| $\chi^{2}$ test for field versus students' sample [p-value] | [0.009] | [0.035] | [0.005] | [0.001] |
| Show-up fee in voucher | 17.1 | 34.3 | 40.0 | 45.7 |
| Show-up fee in cash | 14.7 | 17.6 | 14.7 | 20.6 |
| $\chi^{2}$ test for type of show-up fee [p-value] | [0.782] | [0.116] | [0.019] | [0.027] |
| Voucher prices in descending order | 14.7 | 20.6 | 23.5 | 20.6 |
| Voucher prices in ascending order | 17.1 | 31.4 | 31.4 | 45.7 |
| $\chi^{2}$ test for ascending/descending order [p-value] | [0.782] | [0.305] | [0.463] | [0.027] |

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Table 2: Treatment effects on the price of accepted vouchers

|  | Tobit |  | Ordered logit: Odd ratios |  |
| :---: | :---: | :---: | :---: | :---: |
|  | (1) | (2) | (3) | (4) |
| Show-up fee in voucher | -4.037** | -3.917** | 0.374** | 0.367** |
|  | (1.943) | (1.879) | (0.151) | (0.148) |
| Field sample | -4.329* | 0.339 | 0.339** | 0.893 |
|  | (2.386) | (2.562) | (0.170) | (0.474) |
| Show-up fee in voucher $\times$ Field sample | 4.527* | 4.292** | 3.285** | $3.410^{* * *}$ |
|  | (2.325) | (2.077) | (1.739) | (1.560) |
| Descending order | -0.654 | -0.633 | 1.116 | 1.108 |
|  | (1.900) | (1.832) | (0.415) | (0.406) |
| Descending order $\times$ Field sample | -1.235 | -3.084 | 0.499 | 0.345** |
|  | (2.206) | (2.058) | (0.244) | (0.159) |
| Formal employment deprivation |  | -0.358*** |  | 0.918** |
|  |  | (0.127) |  | (0.0311) |
| Area (km2) |  | 0.0215*** |  | 1.006*** |
|  |  | (0.00538) |  | (0.00172) |
| Average household size |  | 9.304*** |  | 15.53** |
|  |  | (3.267) |  | (17.82) |
| Constant | 36.46 *** | 31.01 |  |  |
|  | (2.290) | (33.92) |  |  |
| Observations | 283 | 283 | 283 | 283 |

Additional control: whether the session was the first or second in the day. Other municipal-level covariates that are non-significant: unsatisfied basic needs in the municipal seat, ratio of cultivated area over total area, average age, percentage of married population at the municipality level. Clustered standard errors in parentheses. ${ }^{* * *} \mathrm{p}<0.01,{ }^{* *} \mathrm{p}<0.05,{ }^{*} \mathrm{p}<0.1$.

### 3.4 Exploratory regression analysis

We perform an additional econometric exercise of exploratory nature. Hence, we do not have an ex ante hypothesis on which participant's characteristics may predict the voucher take-up. Still, we can shed light on relevant variables for the field sample. We use a linear probability model with a panel data structure with each decision per participant as the unit of observation. This panel structure also lets us compute the marginal effect of increasing the voucher value on the take-up rate. We control for all the municipal-level covariates employed in the previous exercise, although we do not report their effects. We add the individual covariates in two sets. First, we add those related to the participant's demographic characteristics. Second, we add other variables that would hint at the participants' liquidity. Since we conducted twenty-one sessions in the field, clustering the standard errors at the session-level is problematic. We opted for a more stringent


Table 3: Linear probability model exploring individual predictors of voucher take-up

|  | (1) | (2) | (3) |
| :---: | :---: | :---: | :---: |
| Voucher value | $\begin{aligned} & 0.0322 * * * \\ & (0.00549) \end{aligned}$ | $\begin{aligned} & 0.0324^{* * *} \\ & (0.00555) \end{aligned}$ | $\begin{aligned} & 0.0324^{* * *} \\ & (0.00556) \end{aligned}$ |
| Show-up fee in voucher | $\begin{gathered} -0.0443 \\ (0.0498) \end{gathered}$ | $\begin{gathered} -0.0373 \\ (0.0496) \end{gathered}$ | $\begin{gathered} -0.0398 \\ (0.0493) \end{gathered}$ |
| Descending order | $\begin{aligned} & 0.509^{* *} \\ & (0.236) \end{aligned}$ | $\begin{aligned} & 0.479 * \\ & (0.244) \end{aligned}$ | $\begin{aligned} & 0.471^{*} \\ & (0.245) \end{aligned}$ |
| Voucher value $\times$ Descending order | $\begin{gathered} -0.0122 \\ (0.00766) \end{gathered}$ | $\begin{gathered} -0.0122 \\ (0.00775) \end{gathered}$ | $\begin{gathered} -0.0122 \\ (0.00776) \end{gathered}$ |
| Women |  | $\begin{gathered} 0.0450 \\ (0.0596) \end{gathered}$ | $\begin{gathered} 0.0298 \\ (0.0638) \end{gathered}$ |
| Age |  | $\begin{gathered} 0.00143 \\ (0.00201) \end{gathered}$ | $\begin{aligned} & 0.000791 \\ & (0.00201) \end{aligned}$ |
| Agricultural laborer (no land) |  | $\begin{aligned} & -0.151^{*} \\ & (0.0633) \end{aligned}$ | $\begin{aligned} & -0.132^{* *} \\ & (0.0648) \end{aligned}$ |
| Willingness to take risks |  | $\begin{gathered} 0.0191^{*} \\ (0.00977) \end{gathered}$ | $\begin{aligned} & 0.0233^{* *} \\ & (0.00977) \end{aligned}$ |
| Primary school or less |  | $\begin{gathered} -0.0441 \\ (0.0654) \end{gathered}$ | $\begin{gathered} -0.0372 \\ (0.0664) \end{gathered}$ |
| Married |  | $\begin{gathered} -0.0213 \\ (0.0691) \end{gathered}$ | $\begin{gathered} -0.0141 \\ (0.0668) \end{gathered}$ |
| Government's subsidy |  |  | $\begin{aligned} & 0.0994^{*} \\ & (0.0571) \end{aligned}$ |
| Monthly salary |  |  | $\begin{gathered} 0.107 \\ (0.0708) \end{gathered}$ |
| Payment in-kind |  |  | $\begin{gathered} -0.0243 \\ (0.0555) \end{gathered}$ |
| Constant | $\begin{aligned} & -0.171 \\ & (2.682) \end{aligned}$ | $\begin{gathered} 0.832 \\ (2.739) \end{gathered}$ | $\begin{gathered} 2.110 \\ (2.805) \end{gathered}$ |
| Observations R-squared | $\begin{gathered} 856 \\ 0.091 \end{gathered}$ | $\begin{gathered} 848 \\ 0.133 \end{gathered}$ | $\begin{gathered} 848 \\ 0.146 \end{gathered}$ |

Municipality-level covariates in all regressions: formal employment deprivation, area, average household size, unsatisfied basic needs in the municipal seat, ratio of cultivated area over total area, average age, percentage of married population at the municipality level. Standard errors with clusters at the individual level in parentheses. ${ }^{* * *} \mathrm{p}<0.01,{ }^{* *} \mathrm{p}<0.05,{ }^{*} \mathrm{p}<0.1$.


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Table A.2: Balance test by treatment dimension - Field sample

|  | Order dimension |  |  | Fee dimension |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean <br> Ascendent | Mean <br> Descendent | $p$-value | Mean <br> Cash | Mean <br> Voucher | $p$-value |
| Age | 47.98 | 55.05 | $(0.002)$ | 51.68 | 50.61 | $(0.646)$ |
| Women | 0.33 | 0.34 | $(0.839)$ | 0.35 | 0.32 | $(0.703)$ |
| Married | 0.25 | 0.16 | $(0.081)$ | 0.18 | 0.24 | $(0.329)$ |
| Income (log) | 13.07 | 13.19 | $(0.130)$ | 13.14 | 13.11 | $(0.721)$ |
| Payment in kind | 0.32 | 0.25 | $(0.250)$ | 0.27 | 0.31 | $(0.439)$ |
| Government's subsidy | 0.27 | 0.31 | $(0.510)$ | 0.31 | 0.27 | $(0.468)$ |
| Monthly salary | 0.19 | 0.23 | $(0.543)$ | 0.20 | 0.22 | $(0.759)$ |
| Elementary school | 0.50 | 0.61 | $(0.095)$ | 0.57 | 0.53 | $(0.604)$ |
| Household adults | 2.90 | 2.64 | $(0.169)$ | 2.78 | 2.78 | $(0.995)$ |
| Household kids | 0.69 | 0.59 | $(0.497)$ | 0.73 | 0.55 | $(0.181)$ |
| Siblings | 4.05 | 4.14 | $(0.833)$ | 4.20 | 3.97 | $(0.561)$ |
| Contributory scheme | 0.17 | 0.28 | $(0.050)$ | 0.22 | 0.22 | $(0.984)$ |
| Without old age plan | 0.66 | 0.55 | $(0.105)$ | 0.61 | 0.62 | $(0.840)$ |
| Willingness to take risks | 5.66 | 6.19 | $(0.180)$ | 5.83 | 5.96 | $(0.742)$ |
| Debts | 0.51 | 0.42 | $(0.206)$ | 0.50 | 0.44 | $(0.368)$ |
| Community support network | 0.71 | 0.60 | $(0.104)$ | 0.70 | 0.62 | $(0.192)$ |
| Land owner | 0.34 | 0.40 | $(0.392)$ | 0.39 | 0.34 | $(0.521)$ |
| Shocks | 0.56 | 0.63 | $(0.334)$ | 0.60 | 0.58 | $(0.820)$ |
| Health problems | 0.45 | 0.56 | $(0.113)$ | 0.54 | 0.47 | $(0.307)$ |

Table A.3: Balance test by treatment dimension - Students sample

|  | Order dimension |  |  | Fee dimension |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean Ascending | Mean Descending | $p$-value | Mean Cash | Mean <br> Voucher | $p$-value |
| Age | 24.97 | 24.03 | (0.558) | 23.91 | 25.09 | (0.465) |
| Women | 0.46 | 0.59 | (0.283) | 0.56 | 0.49 | (0.550) |
| Married | 0.11 | 0.06 | (0.421) | 0.06 | 0.11 | (0.421) |
| Income(Log) | 13.46 | 13.20 | (0.295) | 13.36 | 13.30 | (0.806) |
| Government's subsidy | 0.23 | 0.18 | (0.597) | 0.18 | 0.23 | (0.597) |
| Monthly salary | 0.43 | 0.53 | (0.409) | 0.47 | 0.49 | (0.902) |
| Household adults | 2.51 | 3.06 | (0.069) | 2.68 | 2.89 | (0.490) |
| Household kids | 0.49 | 0.53 | (0.808) | 0.47 | 0.54 | (0.688) |
| Siblings | 2.17 | 1.59 | (0.081) | 1.38 | 2.37 | (0.002) |
| Contributory scheme | 0.46 | 0.62 | (0.187) | 0.59 | 0.49 | (0.401) |
| Without old age plan | 0.66 | 0.56 | (0.410) | 0.68 | 0.54 | (0.262) |
| Willingness to take risks | 7.77 | 7.94 | (0.625) | 7.82 | 7.89 | (0.858) |
| Debts | 0.60 | 0.65 | (0.692) | 0.68 | 0.57 | (0.375) |
| Community support network | 0.69 | 0.62 | (0.560) | 0.65 | 0.66 | (0.931) |
| Land owner | 0.46 | 0.56 | (0.406) | 0.44 | 0.57 | (0.286) |
| Shocks | 0.51 | 0.62 | (0.394) | 0.62 | 0.51 | (0.394) |
| Health problems | 0.57 | 0.59 | (0.890) | 0.62 | 0.54 | (0.536) |

Table A.4: Tobit model for the field sample with covariates of interest in an exploratory analysis.

| VARIABLES | (1) | (2) | (3) |
| :---: | :---: | :---: | :---: |
|  | Price of minimum accepted voucher |  |  |
| Show-up fee in voucher | 0.283 | 0.317 | 0.358 |
|  | (0.745) | (0.716) | (0.733) |
| Descending order | -3.432*** | -3.337*** | -3.174*** |
|  | (0.854) | (0.963) | (0.967) |
| Women |  | -1.478** | -0.946 |
|  |  | (0.729) | (0.829) |
| Age |  | -0.0263 | -0.0115 |
|  |  | (0.0331) | (0.0327) |
| Primary school or less |  | 0.674 | 0.649 |
|  |  | (1.086) | (1.111) |
| Married |  | -0.109 | -0.167 |
|  |  | (1.092) | (1.080) |
| Willingness to take risks |  | -0.302** | -0.381*** |
|  |  | (0.127) | (0.129) |
| Agricultural laborer |  | 1.569 | 1.453 |
|  |  | (0.994) | (0.940) |
| Monthly salary |  |  | -1.363 |
|  |  |  | (1.049) |
| Government's subsidy |  |  | $-2.346 * * *$ |
|  |  |  | (0.788) |
| Payment-in-kind |  |  | 0.107 |
|  |  |  | (0.799) |
| Constant | 34.14 | 15.52 | -2.979 |
|  | (35.08) | (30.69) | (32.80) |
| Observations | 214 | 212 | 212 |

All regressions included municipal-level covariates and a dummy for session order within a municipality. Standard errors clustered at the session level in parentheses. *** $\mathrm{p}<0.01$, ** $\mathrm{p}<0.05,{ }^{*} \mathrm{p}<0.1$

Figure A.1: Voucher take-up rates in the field and students' sample between treatment conditions.

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## B Experimental Protocol: Translated Version

## General instructions

Welcome. We appreciate that you accepted the invitation to this activity that will last around 60 minutes. This time includes the explanation of the activity, the time in which you make your decisions, and a short survey. In this activity, your decisions have economic consequences to make them more similar to the decisions you make in your daily life. Winnings from this game are not paid for participating, so we hope that you will participate in future activities of other researchers, even if no winnings are involved.

The funds to cover these expenses have been provided by the Universidad del Rosario and Universidad del Quindío within the framework of a project on labor markets financed by the Ministry of Sciences. The information collected will be anonymized and only those responsible for the project will have access to it.

## Initial profit for participating

Just for participating, answering a survey and staying until the end you will win $\$ 10,000$. This money will be given to you [in cash/vouchers, whose redemption at a nearby supermarket will be explained below].

Additionally, you will complete a task that will take between 5 and 10 minutes. You will be able to choose between two payment schemes for carrying out this task.

```
>>In the treatment with show-up fee paid as a voucher, display the voucher.<<
```


## Pay in cash or vouchers?

We want to understand if you prefer cash or voucher payment.
You can exchange the vouchers after finishing the activity for food or toiletries at the supermarket [NAME OF SUPERMARKET,] which is located [DESCRIPTION IN TIME/DISTANCE ON HOW TO GET THERE].

At the end of the activity we will throw a die that has 4 green faces, 1 red face and 1 white face.

```
>>Show dice and their respective faces.<<
```

If you receive your winnings in cash, the roll of the dice is the only thing that determines your winnings. If it lands on the red side, it will cause you to lose $\$ 20,000$ of your winnings.

If you receive your winnings as tokens, you will roll the dice first. If the die lands on the red side, you will be able to flip a coin that works as "insurance".

If the coin lands on the green side, it will prevent you from losing $\$ 20,000$ of your winnings. In other words, receiving the winnings in vouchers halves your chances of losing that $\$ 20,000$. The white side of the die has no function. If the white face comes up when rolling the die, the die will be rolled again until a green or red face comes up. Payment in vouchers can only be spent on food
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## C Experimental Protocol: Original (Spanish) Version

## Instrucciones generales

Bienvenidos. Agradecemos que aceptaran la invitación a esta actividad que durará alrededor de 60 minutos. Este tiempo incluye la explicación de la actividad, la toma de sus decisiones, y una breve encuesta. En esta actividad sus decisiones tienen consecuencias económicas, de modo que sean más parecidas a las decisiones que toma en su vida diaria. Las ganancias que usted se lleve en este juego no corresponden a un pago por participar, por lo que esperamos que participe en futuras actividades de otros investigadores, aún si no hay ganancias de por medio.

Los fondos para cubrir estos gastos han sido proporcionados por la Universidad del Rosario y Universidad del Quindío en el marco de un proyecto sobre mercados laborales financiado por MinCiencias. La información recolectada será anonimizada y solo los responsables del proyecto tendrán acceso a ella.

## Ganancia inicial por participar

Por el sólo hecho de participar, responder una encuesta y quedarse hasta el final usted ganará $\$ 10.000$. Este dinero se le entregará

Adicionalmente, usted hará una tarea que le tomará entre 5 y 10 minutos. Usted podrá escoger entre dos esquemas de pago por la realización de esta tarea.
>>Display the voucher in the treatment with show-up fee paid in voucher.<<

## ¿Pago en efectivo o en vales?

Queremos entender si usted prefiere un pago en efectivo o en vales.
Los vales los podrá intercambiar tras finalizar la actividad por alimentos o artículos de aseo en el supermercado [NOMBRE DEL SUPERMERCADO,] que está ubicado [DESCRIPCIÓN EN TIEMPO/DISTANCIA SOBRE CÓMO LLEGAR].

Al final de la actividad lanzaremos un dado que tiene 4 caras verdes, 1 cara roja y 1 cara blanca.

```
>>Mostrar dado y sus respectivas caras.<<
```

Si usted recibe sus ganancias en efectivo, el lanzamiento del dado es lo único que determina sus ganancias. Si cae por la cara roja, hará que usted pierda $\$ 20.000$ de sus ganancias.

Si usted recibe sus ganancias como vales, usted lanzará primero el dado. Si el dado cae por la cara roja, usted podrá lanzar una moneda que funciona como un "seguro".

Si la moneda cae por la cara verde, evitará que usted pierda $\$ 20.000$ de sus ganancias. Dicho de otro modo, recibir las ganancias en vales reduce a la mitad sus chances de perder esos $\$ 20.000$. La cara blanca del dado no tiene ninguna función. Si cae la cara blanca al lanzar el dado, se lanzará de nuevo el dado hasta que caiga una cara verde o roja. El pago en vales sólo lo puede gastar en


[^0]:    *We gratefully acknowledge the research assistance provided by Laura Acosta Bedoya, Julián Cárdenas Ospina, Merian Chica Otálvaro, Michael Marín Piedrahita, Juliana Olarte Zuluaga, José Santiago Rodas Vélez, Kelly Torres Hurtado, and Leidy Torres Quintero. We thank Margarita Gáfaro for her helpful comments. Financial Support from the program "Inclusión productiva y social: programas y políticas para la promoción de una economía formal, código 60185, que conforma la Alianza EFI, bajo el Contrato de Recuperación Contingente No. FP44842-220-2018." is gratefully acknowledged.
    ${ }^{\dagger}$ Justus-Liebig-Universität Giessen.
    $\ddagger$ Department of Economics, Universidad del Rosario and Alianza EFI.
    ${ }^{\S}$ Department of Economics, Universidad del Rosario. Corresponding author. e-mail: cesar.mantilla@urosario.edu.co Address: Calle 12C \# 4-69, Bogotá, Colombia.
    ${ }^{I I}$ Department of Economics, Universidad del Rosario.
    ${ }^{1 /}$ Centro de Pensamiento, Universidad del Quindío.

