MySocial Assistance and Labor Market Outcomes

Lessons from the evaluation of the Uruguayan PANES

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IEN LACEA
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Diapositiva 1

Subsidy to infromality Dynamic incentives **M1**

There are laso good outcomes (dpeite lower insurance) - reduciton in poverty

income and sub effects

income and Proxy means testing Marco, 06/04/2011

M7 govt amazing

and so BPS

Marco, 07/04/2011

Structure

- PANES
 - Design and targeting
 - data
 - evaluation strategies (quasi-experimental)
- Findings [with V. Amarante, E. Miguel, A Vigorito, M Zerpa...]
 - Labor supply and earnings
 - Birth outcomes
 - [Ignore channels]

Preview of main findings

- Sizeable <u>formal</u> labor supply disincentives
- But not such to offset cash transfer → total income rises
- Very pronounced effects of cash in hand on low birth weight

Plan de Atención Nacional a la Emergencia Social

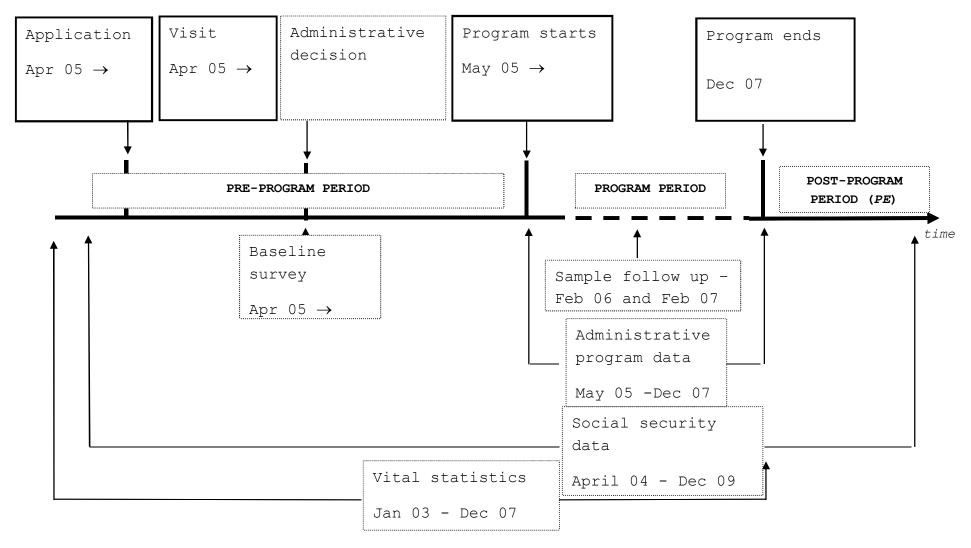
- 2001/02 economic crisis
- Temporary $(04/05 12/07) \rightarrow Plan \ de \ Equidad \ (01/08 \rightarrow)]$

- Monthly cash transfer UY\$=1,360=US\$56 (=PPP US\$100)
 =50% of self-reported pre-treatment income
- (Food Card -US\$13 -US\$306)
- +other minor ingredients (TxU, RdS..)

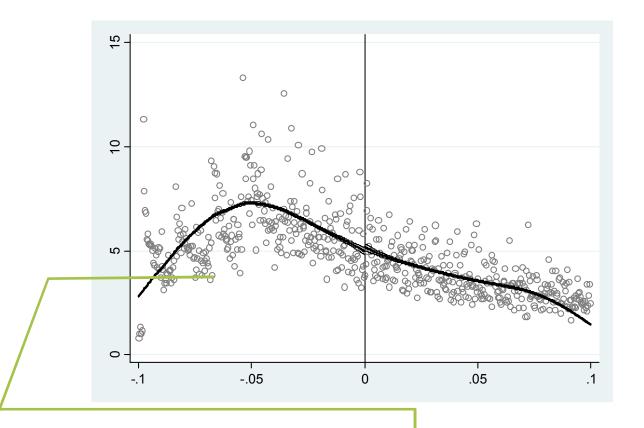
Eligibility

- Target population: poorest 10%
- 190k applicant/100k beneficiary households = 750k individuals (14% pop.)
- Explicitly ruled out randomization
- Proxy means-test: <u>discontinuous</u> function of poverty score (linear combination of baseline "exogenous" characteristics)
- + Income means-test
- De facto unconditional
- Entry into the program staggered

Timing of *PANES*, program and data

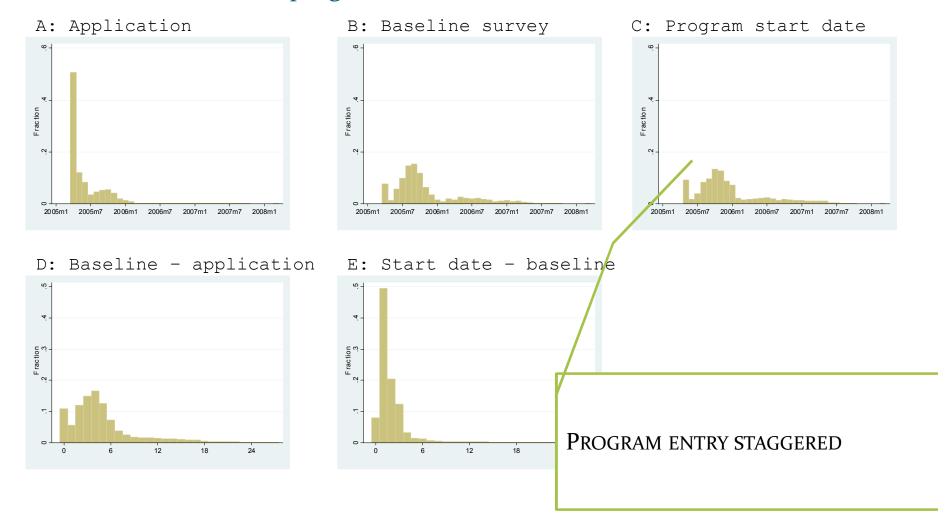


Distribution of poverty score



NO EVIDENCE OF SCORE MANIPULATION

Distribution of *PANES* program dates

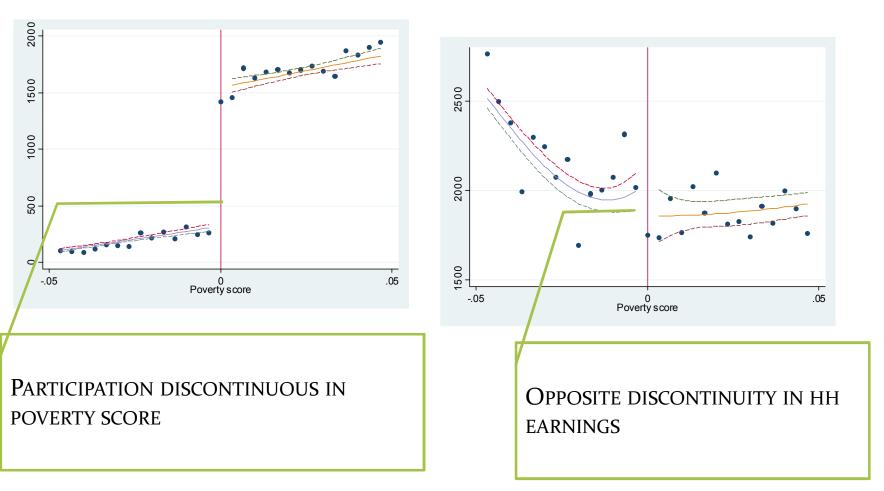


Social Assistance and LM outcomes

- Negative labor supply effect, income + substitution
- (increase in informality?)
- Potentially positive LT effects
- LAC evidence mixed

 Identification strategy: RD - Compare <u>eligible</u> (treatment) and <u>ineligible</u> (control) individuals in neighborhood of poverty score threshold

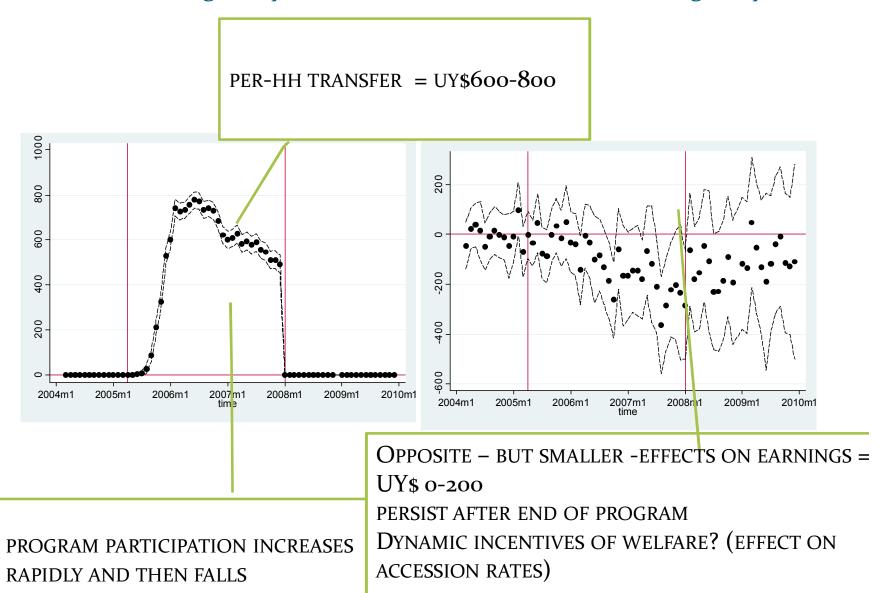
Fraction in program and HH earnings as a function of poverty score - 2nd sem. 2007



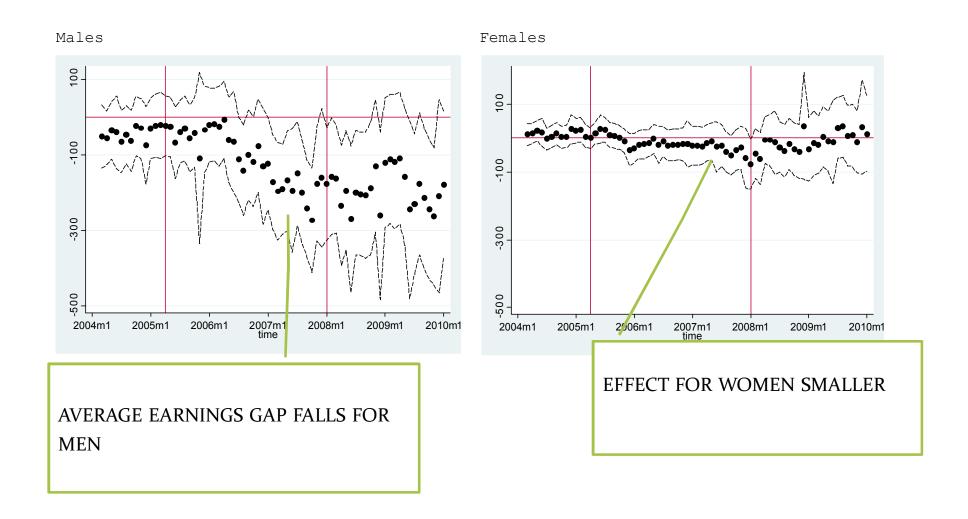
Diapositiva 10

M18 Marco, 07/04/2011

RD estimates of eligibility on PANES transfers and HH earnings - by month



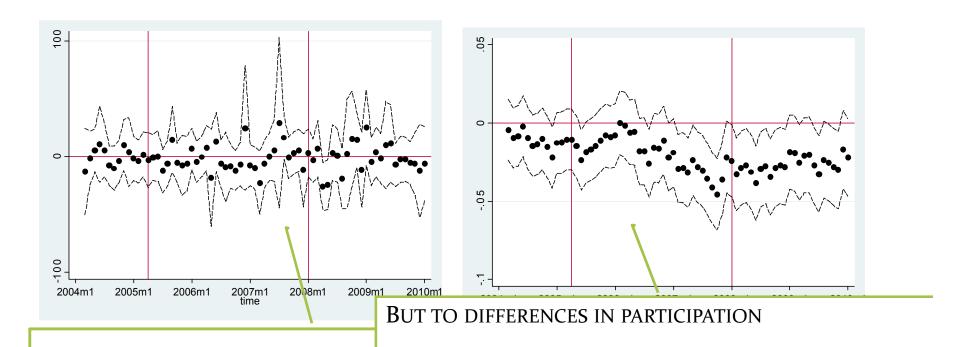
RD estimates of eligibility on earnings by month and gender



RD estimates of eligibility on earnings by gender

	(1)	(2)
Males		
Pre-program	29.34	
	(23.68)	
Program	-61.85**	-76.22***
	(27.30)	(28.60)
Post-program	-120.7**	-143.9***
	(49.22)	(51.23)
Females		
Pre-program	10.85	
	(9.847)	
Program	-19.75*	-23.23*
	(11.96)	(12.61)
Post-program	-34.78	-40.42
	(25.05)	(26.25)
Individual fixed effects	No	Yes

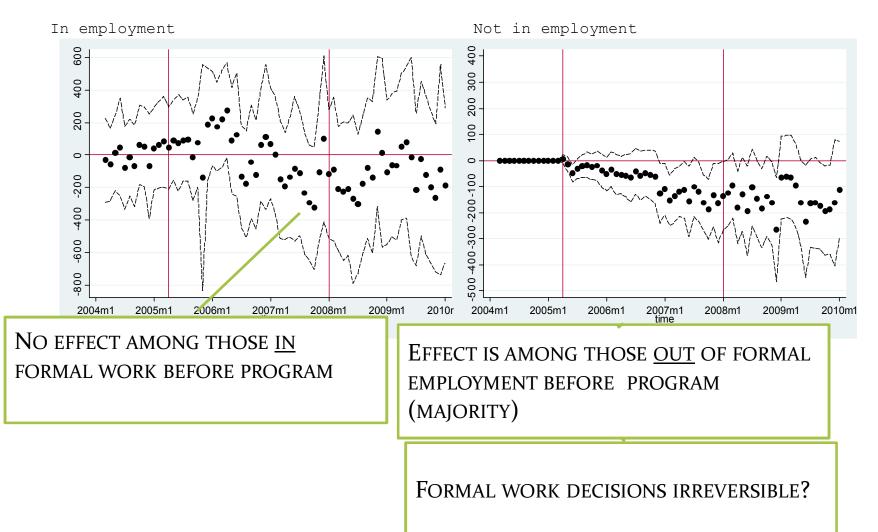
RD estimates of eligibility on daily wages and participation by month - males



DIFFERENCES IN EARNINGS NOT DUE TO DIFFERENCES IN WAGE RATES

Marco Manacorda Lessons from PANES

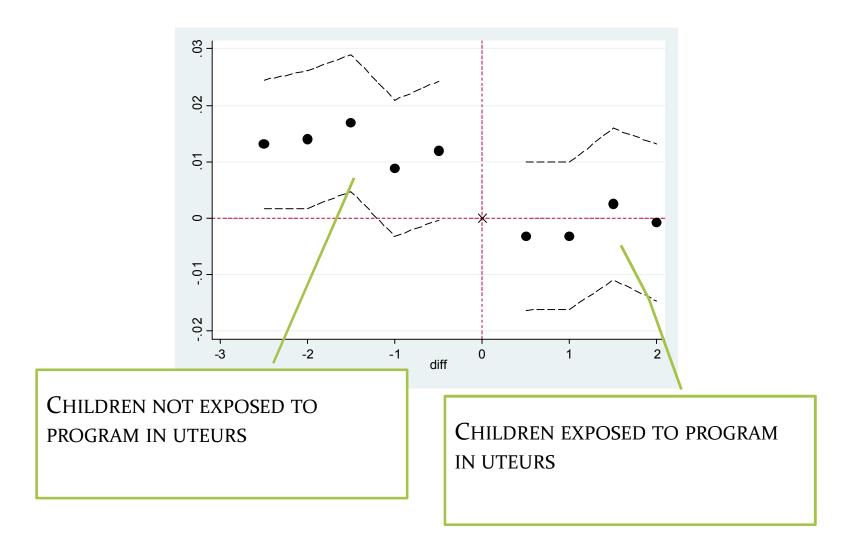
RD estimates of eligibility on earnings – by employment status in pre-PANES period - by month - males



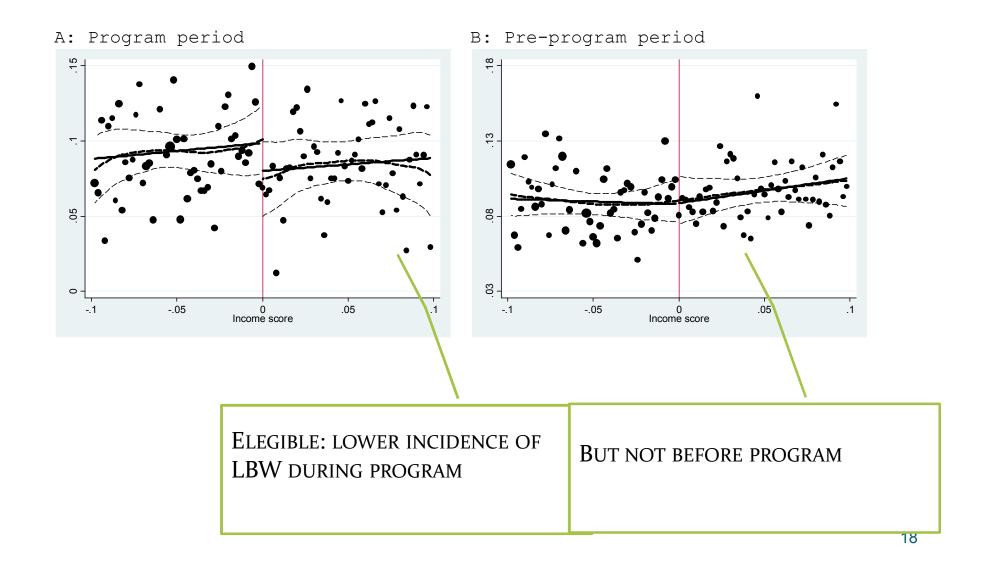
Social Assistance and birth outcomes

- Can cash transfers break cycle of inter-generational poverty?
- Little evidence on cash in-hand, <u>unrestricted cash</u> social assistance in uterus
- Behavioural responses and channels
- Two identification strategies:
 - Staggered entry dates Diff-in-Diff
 - Discontinuity in baseline score RD
 - + 2SLS

Fraction of low weight births as a function of time to/since first income transfer



Fraction of low weight births as a function of *PANES* income score



Diapositiva 18

M17 ted likes more full compliance Marco, 21/12/2010

Program effects on birth outcomes

	(1)	(2)	(3)	(4)
	-0.027*** (0.005)	-0.027*** (0.005)	-0.035*** (0.009)	-0.027*** (0.009)
Controls	No	Yes	Yes	Yes
Mother fixed effects	No	No	No	Yes
Sample	All	All	Panel	Panel

Program effects on birth outcomes

	(1)	(2)	(3)	(4)	(5)	(6)
	-0.019** (0.009)	-0.023 (0.015)	-0.030*** (0.007)		-0.036*** (0.013)	
Sample period	Program	Program	Pre- program and	Pre- program and	Pre- program and	Pre- program and
Income score range	All	1/+.1	program All	program1/+.1	program All	program 1/+.1
Income score function	Linear	Linear	Linear	Linear	Linear	Linear
Mother fixed effects	No	No	No	No	Yes	Yes
Observations	21,448	10,132	68 , 858	31,336	24,346	9,333

Summary of main findings

- Negative, sizeable, persistent effect of PANES on formal labor market participation and earnings
- Informality?
- Reduction in incidence of LBW (-10% -30%)
- No evidence that effects driven by "behavioral adjustments"

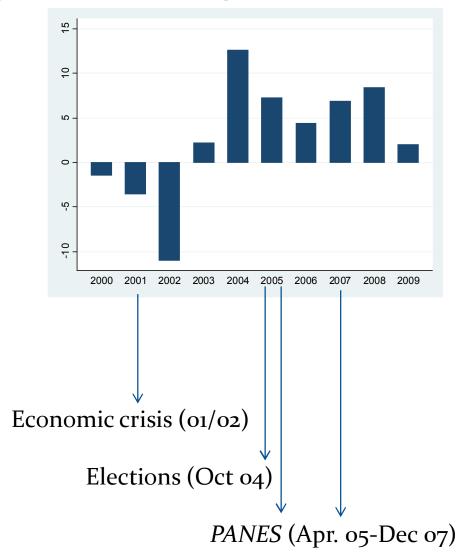
Variables entering the income score

- type of household (head only; head and spouse; head and children; head, spouse and children only; with non-relatives, with relatives other than head, spouse or children)
- an indicator for public employees in the household
- an indicator for pensioners in the household
- average years of education of individuals over age 18 and its square
- interactions of age indicators (0-5, 6-17, 18-24, 25-39, 40-54, 45-64, 65 and over) with gender
- indicators for household head age
- residential overcrowding
- whether the household was renting
- toilet facilities (no toilet, flush toilet, pit latrine, other)
- durables ownership (e.g., refrigerator, TV, car, etc.)

Background: Uruguay



Background: Uruguayan PANES









Data

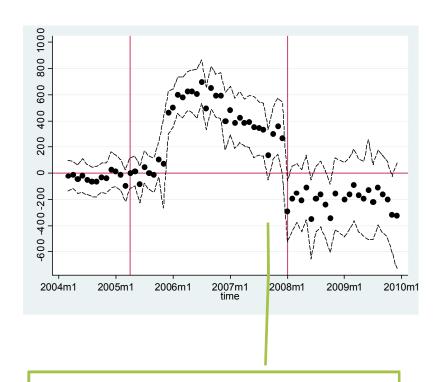
- Baseline survey (identifies households)
- Program data
- Sample follow-up
- [National household survey]

- Administrative data (linked by *cedula*)
 - Social security
 - Birth records

Descriptive statistics by eligibility status and time

	Pre-PANE	Pre-PANES period PANES period		period	Post <i>PANES</i> period (January 2008 -		
	(March	2004 -	(April 2005 -				
	March	2005)	Decembe:	December 2007)		December 2009)	
	Eligible	Non-	Eligible	Non-	Eligible	Non-	
		Eligible		Eligible		Eligible	
Males							
Work	0.13	0.20	0.18	0.26	0.26	0.34	
Monthly Earnings	404.66	743.47	733.97	1279.76	1425.97	2120.02	
Monthly days work	2.49	4.38	3.26	5.62	5.13	7.35	
Daily wage	176.66	179.69	241.54	242.1	297.44	305.49	
In program	-	_	0.60	0.05	-	-	
Ever in program	0.95	0.09	0.95	0.09	0.95	0.09	
Monthly per adult PANES transfer	-	-	285.31	34.41	_	-	
FANES CLANSIEL							
Females							
Work	0.09	0.13	0.10	0.16	0.14	0.23	
Monthly Earnings	113.53	280.99	190.05	480.27	481.26	931.65	
Monthly days work	1.03	2.34	1.29	3.06	2.54	4.66	
Daily wage	113.92	127.97	151.02	166.96	201.68	210.45	
In program	-	_	0.62	0.05	-	-	
Ever in program	0.95	0.09	0.95	0.09	0.95	0.09	
Monthly per adult	-	_	374.64	37.63	-	-	
PANES transfer							

RD estimates of eligibility on total household income - by month (excludes PE)

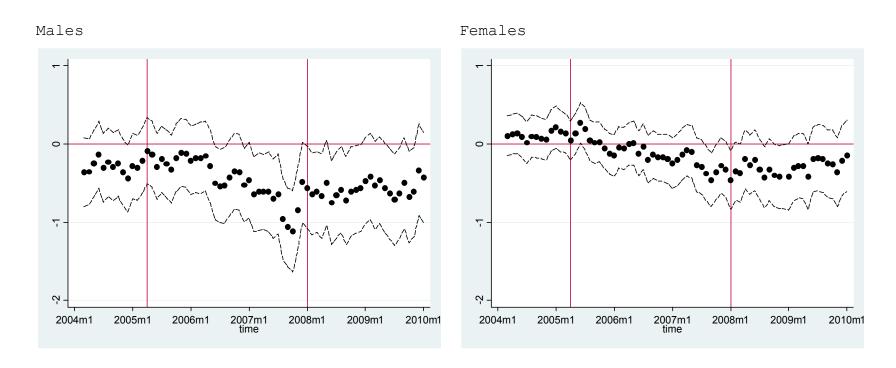


TOTAL HH INCOME INCREASES = UY\$400-600

Descriptive statistics - All births: Uruguay 2003-05 - by *PANES* status

	<i>PANES</i> ap	Non- <i>PANES</i> Applicants	
	Eligible	Ineligible	
A.Pre-program period			
Birth outcomes			
1. Low birthweight	0.10	0.09	0.08
Prenatal and natal care			
2. Total no. controls	6.53	7.53	8.28
Socio-economic indicators			
3. Mother incomplete primary ed.	0.12	0.05	0.04
4. Mother in work	0.12	0.18	0.43
5. Out of wedlock	0.80	0.72	0.52
B.Program period			
6. Low birthweight	0.09	0.09	0.08
7. Mother ever received income transfer	0.97	0.11	_
8. Income trans. during pregnancy $(0/1)$	0.55	0.06	_
9. Amount income tran. during pregnancy	607.52	69.21	_
Observations	50 , 939	20,872	163,370

RD estimates of eligibility on days of work (including zeros) by month



EFFECT ON EARNINGS DUE TO DIFFERENCES IN PARTICIPATION