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THE EFFECTS OF CALIFORNIA'S PAID FAMILY LEAVE PROGRAM ON MOTHERS' LEAVE-TAKING AND SUBSEQUENT LABOR MARKET OUTCOMES

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ABSTRACT

This analysis uses March Current Population Survey data from 1999-2010 and a differences-in-differences approach to examine how California's first in the nation paid family leave (PFL) program affected leave-taking by mothers following childbirth, as well as subsequent labor market outcomes. We obtain robust evidence that the California program more than doubled the overall use of maternity leave, increasing it from around three to six or seven weeks for the typical new mother – with particularly large growth for less advantaged groups. We also provide suggestive evidence that PFL increased the usual weekly work hours of employed mothers of one-to-three year-old children by 6 to 9% and that their wage incomes may have risen by a similar amount.

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Jane Waldfogel Columbia University School of Social Work 1255 Amsterdam Avenue New York, NY 10027 jw205@columbia.edu The United States is the only advanced industrialized country without a national law providing new mothers (and often fathers) with entitlements to paid family leave (PFL). However, three states have implemented paid leave programs, the first of these being California, where PFL took effect in 2004. We study how California's program has affected leave-taking by mothers following childbirth, and the extent to which these effects differ across population subgroups. We are particularly interested in learning whether PFL has reduced previous disparities in leave-taking, whereby advantaged mothers have been much more likely to use leave than their less advantaged counterparts. We also provide an initial investigation of the medium-term impacts on mothers' labor market outcomes: employment, work hours, and wage income.

The analysis uses March Current Population Survey data from 1999-2010 and a differences-in-differences (DD) approach to compare pre- versus post-program implementation experiences of mothers with infants or young children – the treatment groups – to control groups alternatively consisting of women with older children, childless women, men with non-infant children, or new mothers in other states. We obtain robust evidence that the California program increased leave-taking, more than doubling overall maternity leave use – increasing it from around 3 to 6 or 7 weeks – with particularly large growth for less advantaged mothers (those who are less educated, unmarried, or nonwhite) who had relatively low levels of baseline use. This contrasts starkly with the results for other state family leave laws (most of which extend rights to *unpaid* leave beyond those in the FMLA), where the estimated effects are much larger for college-educated and married women than for less advantaged counterparts (Han, Ruhm and Waldfogel, 2009). The exploration of effects on medium-term labor market outcomes provides

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¹ We considered men with infant children as a treatment group, since such fathers are covered under PFL, but did not find consistent evidence of effects on leave-taking. This may have occurred because low rates of paternity leave use imply that we did not have the power to detect statistically significant effects.

more equivocal results, but with evidence that paid family leave led to 6 to 9% increases in usual weekly work hours for employed mothers, and that their wage incomes may have risen by a similar amount.

Background

All industrialized nations, other than the United States, grant parents the right to take time off work with pay following the birth or adoption of a child (Earle, Mokomane, and Heymann, 2011).² In European countries, a period of at least 14 to 20 weeks of maternity leave is provided, with 70 to 100% of wages replaced.³ Subsequent to this, some form of paid parental leave (available to both mothers and fathers although a portion is sometimes reserved for one parent) is typically supplied. The duration of the job-protection and leave payment differs substantially across nations, but the total duration of paid leave exceeds nine months in the majority of them.

Our neighbor to the North, Canada, currently provides at least one year of paid leave, with around 55% of wages replaced, up to a ceiling (Doucet, Lero, and Tremblay, 2011).⁴

Until enactment of the Family and Medical Leave Act (FMLA) in 1993, the United States did not even provide rights to *unpaid* leave. Under the FMLA, firms employing at least 50 persons within 75 miles of the work site are required to offer eligible workers 12 weeks of jobprotected but unpaid time off work to care for newborn or newly adopted children (as well as for other reasons such as serious medical problems). However, the firm size and work history requirements (the individual must have worked for the firm 1250 hours during the previous 12 months) imply that only around half of employees are eligible for FMLA leave.

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² Australia, long the other exception, began providing 18 weeks of paid leave in 2011. (For details, see: http://www.familyassist.gov.au/payments/family-assistance-payments/paid-parental-leave-scheme/.)

³ Unless otherwise noted, the material in this section is drawn from a more extensive discussion in Ruhm (2011).

⁴ The leave period is 70 weeks in Quebec.

⁵ Firms are required to continue health insurance during the leave period. See U.S. Department of Labor (2010) for further information on provisions of the FMLA.

A number of states extend the FMLA by providing rights to unpaid leave to additional employees or for longer periods of time. In addition, pregnant women and new mothers in the five states (California, Hawaii, New Jersey, New York and Rhode Island) offering temporary disability insurance (TDI) can take some time off work with pay – usually for around six weeks at one-half to two-thirds earnings – for pregnancy related short-term "disabilities", although at least some of this leave usually occurs before the birth.

We examine consequences of California's first in the nation explicit paid family leave program, which took effect in July 2004. California PFL offers six weeks of partially paid leave to bond with a newborn or a recently placed foster or adoptive child, or for other reasons (such as to care for seriously ill relatives). Almost all private sector workers are eligible (unlike the FMLA, with its employer-size and work history requirements) and wage replacement is 55% up to a ceiling based on the state's average weekly wage. PFL has many elements in common with the California TDI program: job protection is not provided during the leave, unless the individual is eligible for and simultaneously uses FMLA leave; financing is through payroll taxes levied on employees (without employer payments); and the two programs are closely coordinated, so that PFL can start immediately after TDI leave ends. One difference is that PFL applies equally to mothers and fathers.

Studying the effects of the California paid leave program is interesting in its own right and because the results may be informative for understanding the potential effects of similar programs enacted in other states or nationally. These possibilities are salient. In 2009, New Jersey implemented a paid parental leave program that is similar, in many ways, to that in

⁶ The discussion in this paragraph and the next is based on information provided in Fass (2009).

California.⁷ Washington State also passed a more limited paid leave program, originally scheduled to begin in 2009, but delayed until at least 2012 due to budgetary pressures.⁸ The immediate prospects for a national PFL program are less favorable but substantial advocacy and limited legislative efforts have been undertaken.⁹

Prior research provides some guidance as to how *unpaid* leave rights in the U.S. affect women's leave usage and subsequent employment. Mothers giving birth post-FMLA in states that did not previously have maternity leave statutes are more likely to use maternity leave and take more time off work than those giving birth pre-FMLA (Waldfogel, 1999; Han et al., 2009). State unpaid leave statutes are also associated with increased leave-taking although the effects are small and the estimates are less consistent (Klerman and Leibowitz, 1997; Han and Waldfogel, 2003; Washbrook, Ruhm, Waldfogel, and Han, 2011). The effects of unpaid leave policies are largest for relatively advantaged women, who are more likely to be eligible for leave under such policies and able to afford unpaid time off work.¹⁰

The effects of *paid* leave, however, could be quite different. In particular, disadvantaged mothers might be more able to use paid than unpaid time off work, potentially reducing disparities in leave-taking. Evidence from other countries' paid leave expansions supports this possibility. Studies of Europe and Canada consistently show that take-up of paid leave is very high, often close to universal (see e.g. Rønsen and Sundström, 2002; Baker and Milligan, 2008; Burgess et al., 2008; Dustmann and Schonberg, 2008; Carneiro, Loken, and Salvanes, 2010; Liu

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⁷ As in California, the duration of leave is 6 weeks, financing occurs through an employee-only payroll tax and the program builds upon the state's existing TDI program. Wage replacement rates are higher in New Jersey than California (66% versus 55%) but the maximum benefit is lower (\$546 in 2009 versus \$959 in California).

⁸ Washington was scheduled to offer a flat benefit of \$250 for five weeks, with job-protection provided to persons meeting the same work history requirements as in the FMLA.

⁹ For example, in 2007, Senators Dodd and Stevens proposed a Family Leave Insurance Act that would have provided 8 weeks of paid benefits for time off work for the same reasons as in the FMLA, financed by employee and employer premiums (see http://wfnetwork.bc.edu/encyclopedia_entry.php?id=16912&area=All for further details).

¹⁰ For example, Han et al. (2009) find that the positive effects on leave-taking are confined to college-educated or married mothers, with no significant effects for those who are unmarried or have less education.

and Skans, 2010; Rasmussen, 2010). Second, when paid leave has been introduced to replace a former system of at least partially unpaid leave, effects on leave-taking have been largest among disadvantaged women least likely to have used unpaid leave (see, for example, evidence from Norway in Carneiro et al., 2010). The effects of maternity leave rights on employment are theoretically ambiguous, since longer leave periods might cause women to stay on leave longer, or might boost job-holding because mothers no longer need to quit jobs to obtain time off work (Klerman and Leibowitz, 1997); however, empirical studies suggest that the latter effect dominates, particularly when the period of leave provided is not excessively long (see e.g. Gregg, Domenech, and Waldfogel, 2007). With regard to longer-run labor market effects, comparative studies find that extended paid leave entitlements are associated with modestly higher female employment rates, although with some concern that excessively long leave periods (periods well in excess of a year) could have detrimental effects (see e.g. Ruhm, 1998; Jaumotte, 2004; Pettit and Hook, 2005).

On the other hand, the impact of the California program might differ from those studied above, because wage replacement rates are considerably lower than in most European countries (but not Canada). Moreover, Appelbaum and Milkman (2011) provide evidence that public awareness of the program remains limited, even six years after implementation, and with fear of negative employment consequences for using it being cited by many individuals who know about the program but do not apply for benefits. Even if the program does increase leave-taking, it is not obvious for which groups the effects will be strongest.

Data

We use 1999-2010 data from the March Current Population Survey (CPS) Annual

Demographic Supplement, accessed via the Integrated Public Use Microdata Series (IPUMS)

database. The CPS data are useful because they provide information on leave-taking and labor market outcomes for a large and nationally-representative sample. Questions about the use of maternity and paternity leave are asked directly of individuals reporting being with a job but absent from work during the reference week (the week immediately before the survey). Limitations include the lack of precise information on child birth dates and on women's employment status during pregnancy. To our knowledge, no other large and representative data sets combine this information with that on leave use.

When analyzing effects on leave-taking, we limit the sample to persons employed (reporting any usual work hours) in the prior year. The treatment group consists of women residing in California with an infant (less than 1 year old at the survey date) in the household who reported working any usual hours in the previous year (N=1,422). While this definition captures most women eligible for PFL, we would ideally like to restrict the analysis to those working throughout most of their pregnancy (which our data will not permit). Most resulting classification errors are likely to be minor. For example, a woman with an 11-month-old child surveyed in March 2007 most likely became pregnant during the last quarter of 2005. If she worked at the end of 2005, but not during 2006, we would exclude her from the treatment group, even though she had some pregnancy employment. That said, it is unlikely that she would have been eligible for PFL, given that she stopped working several months before childbirth.

Potentially more problematic, we will misclassify into the treatment group women who did not work during pregnancy but began to do so after childbirth but during the reference year. For example, we would erroneously place into the treatment group a mother whose child was 11-

months old in March 2007, who gave birth in April 2006, and only worked during that year in the period after childbirth.¹¹

If the measurement error described above is random, it would be likely to attenuate the estimated effects. Potentially more serious, however, is that bias may be introduced if there is selection into the treatment group as a result of PFL. For example, if it increases post-birth employment, then the potential misclassification of women who only worked after childbirth into the treatment group could be more problematic. To address this issue, we also estimated regressions that included *all* women with youngest children aged <1 year in California in the treatment group, regardless of last year's reported employment. These regressions represent intent-to-treat (ITT) analyses rather than the treatment-on-the-treated (TOT) analyses that we emphasize below. However, the ITT results are very similar to the presented TOT estimates, when scaled by the pre-treatment fraction of treatment women working during the last year, suggesting that this source of selection bias is unlikely to be serious.¹²

Our primary control group consists of women residing in California with a youngest child aged 5-17 years at the time of the survey, and who reported working any usual hours in the previous year (N=13,555). The key assumption is that mothers with older children (sometimes referred to as control group 1 below) would have similar employment trends, in the absence of the treatment, to women with infants. Ideally, we might have used mothers with toddlers (i.e. 1-to 3-year-olds) as controls, assuming that their work behavior would be even more similar to the treatment group. However, this might be problematic if such mothers are pregnant or planning to become pregnant in the near future, so that their labor market behavior might be affected by the

¹¹ Such misclassifications are likely to be relatively rare, since relatively few mothers not working during pregnancy are employed shortly after childbirth. For example, Han, Ruhm, Waldfogel, and Washbrook (2008) present evidence that only around a quarter of mothers giving birth in 2001, and not employed at birth, were working 4 months later.

¹² These results are available upon request.

presence of paid family leave. As an alternative, we estimated models with varying minimum child threshold ages (between two and eight years old) for inclusion of mothers into the control group. The results are not sensitive to this choice as briefly discussed below.

The assumption of a common trend between our treatment and primary control groups might be violated (e.g. if macroeconomic conditions differentially affect the two groups). Although we cannot completely eliminate the potential bias this might introduce, we address this possibility by testing the robustness of the results to the choice of several alternative comparison groups. These include: women residing in California with no children (N=22,091); men residing in California with no children <1 year old (N=53,584); women with infants residing in one of the next three largest states – Florida, New York, and Texas (N=2,058). These are sometimes referred to as control groups 2, 3 and 4 below. Although each of these comparisons is informative, we focus on specifications using control group 1 because labor market behavior of mothers with older children is likely to be more similar to that of mothers of infants than those of women with no children or men. Control group 4 is potentially useful but could introduce biases due to the effects of omitted time-varying state-specific confounding factors.

Our main analysis is of the use of maternity leave. By construction, almost all individuals in control groups 1, 2, and 3 have a zero value for this outcome, as they do not have newly-born children. We also present results using a broader measure of leave-taking that adds in "other types of leave", which includes work absences due to vacation/personal days, child care problems, other family/personal obligations, or other reasons. This is of potential interest because mothers may use accrued vacation and sick leave (or related sources) as a way to take time off work to care for infants (Han et al., 2009). In addition, we provide results for these other

¹³ In all cases, we further require the control groups to have some usual work hours during the previous year.

¹⁴ A very small fraction of these control groups may be pregnant at the time of the survey (which we do not observe) and so report being absent from work for maternity leave taken before the future child is born.

types of leave alone as an informal placebo test, since California's PFL policy should have no or much weaker effects on these sources of work absences than on the use of maternity leave.

We also study medium-term labor market outcomes of mothers, defined as those for women with one- to three-year-old children. Specifically, we analyze: whether the mother worked any hours during the last week, log hours worked last week, whether she worked any usual hours during the last year, log usual hours last year, and the log wage income last year. The outcomes related to employment last week indicate the mothers' most current labor market status; employment and wage income during the previous year measure labor market behavior over a longer period of time.

This analysis of medium-term outcomes introduces additional complexity because our data cover only the survey reference week and previous year (i.e. the week and year before the March CPS survey), whereas the births took place prior to that. One issue is that mothers may have had additional children in the intervening period. For this reason, we do *not* classify mothers based on age of the youngest child, because doing so would implicitly condition on no subsequent births and introduce potential sample selection bias. Instead, we include information on the ages of other children in the household, obtained using the family interrelationship structure of the March CPS, as additional regressors, and assign California mothers of children aged 1, 2, and 3 years old to separate treatment groups, as detailed below. Second, we do not know the month of birth and so are not sure whether some children are born before or after the implementation of PFL. Therefore, when examining mothers with 1-year-old children, we classify survey years 2006-2010 as the post-treatment period and delete survey year 2005 from the analysis (since we do not know whether 1-year-olds in 2005 were born before or after PFL implementation). Similarly, for mothers of 2-year-olds, 2007-2010 constitutes the post-treatment

period and 2006 data are dropped (2-year-olds in 2005 were born prior to PFL), while for mothers of 3-year-olds, 2008-2010 is the post-treatment period and the 2007 data are excluded.

Table 1 presents summary statistics for our preferred leave-taking analysis sample, consisting of the treatment group and control group 1 (mothers employed in the previous year with youngest children aged 5 and over). All statistics are weighted by CPS person weights. About 1% of women report using maternity leave in the reference week. This low rate of use is expected since the control group almost never takes maternity leave and, even in the treatment group, its use is generally limited to the period immediately after childbirth. Nearly 3% of women are absent from work in the reference week for other reasons.

The remainder of the table shows results when splitting the sample into treatment and control groups, and separately by the pre- and post-PFL implementation periods (i.e. 1999-2004 versus 2005 and later). Notably, there is a substantial increase in maternity leave use for the treatment group post-2004 relative to earlier – from 5.4 to nearly 11.7% -- whereas there is essentially no reported use of maternity leave by the control group in either period. There is also not much change in other types of leave-taking for either the treatment or control groups (rising from 2.8 to 3.2% for the former and 1.3 to 1.6% for the latter), although higher absolute levels of use for the treatment group suggest that these provide substitutes for formal parental leave in some cases. This overall pattern of results indicates an absence of distinguishable trends in general leave-taking during the period of analysis, while the substantial rise in maternity leave-taking for the treatment group after 2004 may reflect the implementation of PFL in California.

When considering medium-term labor market outcomes, nearly half of mothers with 1-, 2-, and 3-year-old children report working in the reference week, and nearly 60% during the last year (see Appendix Table A.1 for details). There are no substantial changes in employment on

the extensive margin, between the pre- and post-PFL periods for any of the treatment groups, but we do see suggestive evidence of an increase in work hours in the last week and year.

Empirical Methods

We employ a standard difference-in-difference (DD) design comparing changes in leave-taking for eligible California mothers of infants, surveyed pre- and post-2004, relative to corresponding differences for comparison groups unlikely to be affected by PFL. Our primary econometric specification takes the form:

(1) $Y_{it} = \beta_0 + \beta_1 * TREAT_i + \beta_2 * POST_t * TREAT_i + \gamma' X_{it} + \delta_t + \varepsilon_{it}$ for individual i surveyed in year t. Y_{it} is the outcome of interest (e.g. use of maternity leave). $TREAT_i$ is a dummy variable set to one for mothers with children less than 1 year old at the survey date who were employed in the previous year. $POST_t$ is an indicator equal to 1 if the individual was surveyed in 2005 or later, and 0 otherwise. X_{it} is a vector of individual characteristics including indicators for: age (<20, 20-29, 30-39, 40-49, 50-59, 60+ years old), race/ethnicity (non-Hispanic white, black, Hispanic, other), education (less than high school graduate, high school graduate, some college, college graduate), marital status (married, separated, divorced, widowed, never married), and US birth. We also control for age of the youngest child when using control groups 1 and 3, and for state fixed effects and the state-year unemployment rates when using control group $4.^{16}$ In (1), δ_t is a vector of year fixed effects and ε_{it} is an individual-specific error term. The regressions incorporate CPS person weights and robust standard errors are reported. 17 The key coefficient $\hat{\beta}_2$, measures the DD estimate of the effect of PFL on the treatment group.

¹⁵ Since we do not observe the child's month of birth, we treat mothers with children aged <1 year surveyed in 2005 or later as being exposed to PFL, and treat survey years 1999-2004 as the pre-treatment period.

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¹⁶ POST_t is omitted from this model because it is collinear with the year fixed effects.

¹⁷ Unweighted regressions yield very similar results.

We present the results obtained from linear probability (LP) models, since marginal effects on interaction terms in logit and probit models are more difficult to compute and interpret (Ai and Norton, 2003). However, prior to doing so, we estimated LP and probit models for equations corresponding to equation (1), except without the interaction term. The estimated marginal effects were very similar, suggesting that the LP estimates provide useful information.

We estimate a variant of equation (1) when examining how California's paid family leave program affects the medium-term labor market outcomes of mothers. As discussed, California mothers with children aged 1, 2, and 3 years old are assigned to separate treatment groups, and California mothers whose youngest children are 7-17 years old are placed in the control group. These difference-in-difference regressions include additional controls for the exact ages of younger children in the household. As discussed, survey years 2006-2010 are the post-treatment period and 2005 data are dropped, when studying mothers of 1-year-olds; 2007-2010 (2008-2010) represents the post-treatment period and 2006 (2007) data are excluded when examining mothers of 2-year-olds (3-year-olds).

Results

A. California's PFL Program Increases Leave-Taking

Table 2 presents the main set of results on leave-taking, using the four alternative control groups. In each case, we find a statistically significant six to seven percentage point increase in the likelihood of maternity leave-taking for the treatment group following PFL implementation (column 1). The estimated effect is virtually identical for the broader definition of leave, which adds in other forms of time off work (column 2). Conversely, the estimated impacts for leave-taking other than maternity leave are miniscule and statistically insignificant (column 3),

¹⁸ For instance, when women with 3-year-olds constitute the treatment group, we include indicators for children <1, 1 and 2 years old (three variables).

providing evidence that the results are not due to spurious changes in leave-taking among the treatment group.

Magnitudes of the estimated effects are quite large. Pre-program maternity leave-taking for the treatment group averages 5.4%. Relative to this baseline, our estimates suggest that PFL increased leave use by 115 to nearly 140%, depending on the choice of control groups. Such substantial effects seem reasonable since eligibility for California PFL is much wider than for other programs and, particularly, contrasts with the firm size, work history and other exclusions limiting eligibility under the FMLA. Moreover, some workers who cannot afford to take unpaid time off work may be able to do so when receiving partial wage replacement.

It is also informative to interpret these results in terms of effects on the length of maternity leaves taken. We do not measure such durations directly but instead know whether women with infants are on leave during the reference week. Under reasonable assumptions, we can infer from this the percentage of weeks that such mothers use leave during their child's first year of life. Specifically, if they were on maternity leave 5.4% of the weeks during the preprogram period, this corresponds to an average leave duration of 2.8 weeks (52 weeks × 0.054/week). The findings above indicate that PFL increased leave-taking by 6.1 to 7.4 percentage points, corresponding to an additional 3.2 to 3.8 weeks of leave, and implying that these mothers used between one-half and three-fifths of the paid leave made newly available to them.

The DD estimates could be biased if the "effects" of PFL are actually due to unobserved factors affecting the treatment group differently than the control groups, or if they affect other types of leave-taking in addition to maternity leave. We have already addressed the second of these concerns, through our placebo tests on other types of leave. To examine the first

possibility, we conducted an additional falsification test by estimating DD specifications for other states with temporary disability insurance program – Hawaii, New York, and Rhode Island – but that did not implement paid family leave policies during the analysis period. Since other TDI states offer some (although more limited than California) paid leave, it seems likely that we would see qualitatively similar, although presumably smaller, estimated effects for these states if the California results are due to unobserved correlates of paid leave-taking. By contrast, if PFL is causing leave-taking to increase, we would not expect to see any effects for the other TDI states.

The results of this falsification test are summarized in Table 3. Across all four control groups, we see only small (two to three percentage point) and statistically insignificant effects of the placebo PFL treatment post-2004.²⁰ This raises the possibility that our previous estimates slightly overstate the effects of California's PFL program. However, the overall findings do not change – for instance, even a three percentage point reduction due to unobserved confounding factors would imply a 3.1 to 4.4 percentage point rise in leave-taking, corresponding to a 57 to 82% increase or an additional 1.6 to 2.3 weeks of leave.

Finally, we tested the robustness of our main results to two additional alternative specifications. In the first, we varied the minimum child age threshold for women in the control group, estimating specifications where control group 1 was successively modified to include mothers with youngest children aged 2-17, 3-17, 4-17, 5-17, 6-17, 7-17, or 8-17. In all cases, PFL program was associated with a statistically significant 6.2 to 6.4 percentage point increase in leave-taking. Second, to examine whether leave-taking in California might have been influenced

¹⁹ Specifically, the treatment group consists of women with infants who were employed in the previous year and resided in Hawaii, New York, and Rhode Island. Control groups 1, 2, and 3 consider the same populations as before (in these states). The one change is that since New York is a TDI state, control group 4 now consists of women with a youngest child <1 year old in Florida, Pennsylvania, and Texas (large non-TDI states). The other TDI state, New Jersey, implemented a paid family leave policy in 2008 and so is excluded from this analysis.

²⁰ Conversely, main effects on leave-taking for the treatment group are large and statistically significant.

by pre-existing differential trends between the treatment and control groups, we added to the basic model, interactions between the treatment group dummy variable and indicators for time periods 1-2 years and 3-4 years prior to PFL implementation (i.e. for 2002-2003 and 2000-2001 respectively). If there were differential trends, we would expect the coefficients on these interactions to be large and significant. Instead, they were always small (-1 to 0.5 percentage points) and insignificant, and their inclusion did not materially affect the estimated post-treatment PFL effect.

B. California's PFL Program Reduces Disparities in Leave-Taking

We next investigate whether California's PFL program had heterogeneous effects on the leave-taking of women with infants, using our preferred specification, where the control group consists of employed (in the previous year) women whose youngest children are aged 5-17. As mentioned, past research suggests that unpaid maternity leave primarily benefits relatively advantaged (e.g. college-educated and married) mothers and so it is interesting to examine whether paid time off work makes leave-taking more accessible to disadvantaged mothers.

Tables 4 and 5 present difference-in-difference estimates of the effects of PFL on leave-taking for subgroups of women stratified by education (high school degree or less, some college, college or more), marital status, and race/ethnicity (non-Hispanic white, black, Hispanic). We present the pre- and post-period means (descriptive statistics) for the treatment and control groups, as well as the simple pre versus post and treatment versus control differences and the corresponding differences-in-differences (in bold), again without other controls. Finally, in each panel, the bottom rows and right-most columns present regression-adjusted differences, from models that include all of the demographic controls; the (bolded) regression-adjusted difference-

in-difference estimate comes from the key interaction coefficient in equation (1), estimated for each subgroup.²¹

Differences in baseline leave-taking across demographic groups are striking. For example, in the pre-program period (1999-2004), only 2% of non-college educated treatment group mothers employed reported being on maternity leave during the reference week; this contrasts with over 9% of corresponding mothers with a college degree or more. Just 2% of unmarried treatment group mothers were on maternity leave, versus 6% of their married counterparts, and only 2% of such black mothers, as opposed to 7% of non-Hispanic whites.

Although rights to paid parental leave increased its use among all groups of mothers, both the relative and absolute magnitudes of the effects are larger for the disadvantaged. For example, leave-taking among new mothers with a high school degree and some college rose 5.3 and 7.8 percentage points, respectively, compared to a statistically insignificant 4 points for mothers with a college degree (see Table 4). Leave-taking grew 7.3 percentage points for unmarried mothers, versus 6.0 points for their married counterparts. The increases are estimated to be 11.8 and 6.0 percentage points among black and Hispanic mothers, as compared to a statistically insignificant 4.4 points among non-Hispanic whites. Similar patterns are obtained using the broader definition of leave (see Table 5).²²

The growth in leave-taking was even larger for disadvantaged versus advantaged new mothers, when measured in relative terms, given their lower rates of baseline usage. For instance, the use of maternity leave increased over threefold for non-college educated mothers with infants (from 2.4 to 7.7%), nearly fivefold for those who were unmarried (from 1.9 to 9.3%), and

²¹ We omit appropriate controls for each subgroup specification. For example, race covariates are omitted when we estimate regressions separately by race. The single treatment-control regression-adjusted differences also include year fixed effects.

²² The tables also show that the control group saw essentially no change in maternity leave-taking or in the broader measure of leave use,

sevenfold for blacks (from 2.0 to 13.7%).²³ These results imply that non-college educated, unmarried and black treatment group mothers increased average time on leave from around 1 week to about 4, 5, and 7 weeks, respectively. By contrast, college-educated, married, and non-Hispanic white mothers were predicted to use 6 to 7 weeks of paid leave after implementation of California's PFL program, versus 5, 3, and 4 weeks before it. The California paid leave program thus substantially reduced previous disparities in leave-taking.

C. Medium-Term Effects on Maternal Labor Market Outcomes

We explore the medium-term effects of California PFL on labor market outcomes – specifically looking at mothers whose children are aged 1, 2, or 3. Two restrictions limit the scope of this investigation. First, the March CPS data do not permit us to directly identify women affected by the program, because we do not observe whether these mothers were employed around the time of childbirth. Second, the recent implementation of the program implies that the post-treatment period is short.

Table 6 summarizes the results. As expected, given the relatively small number of post-treatment years and our inability to identify employment in the birth year, many of the estimates are imprecise. The most consistent finding is that paid leave rights are estimated to raise reference week work hours by a statistically significant 6 to 9%, conditional on being employed (the estimate is statistically significant at the 5% level for mothers of 1- and 3-year-olds, and marginally significant at the 10% level for mothers of 2-year-olds). This corresponds to 2 to 3 additional hours of work, from the pre-PFL baseline average of around 35 hours. We also see marginally significant 5 to 6% increases in usual weekly work hours during in the previous year. California PFL is also associated with a (statistically insignificant) increase in wage income

²³ These estimates are calculated by adding to the predicted treatment group pre-program levels of leave-taking (from the first column of the table) the regression-adjusted DD estimate (the last cell in each panel).

during the previous year consistent with what we would expect given the increase in work hours, although lack of precision implies that these estimates should be interpreted with caution. There is no evidence that the availability of paid family leave affected subsequent employment probabilities, and small sample sizes imply that we do not have the statistical power to test for differences across subgroups of mothers.

Discussion

An important objective of government-provided entitlements to parental leave is to allow parents (particularly mothers) to have more time at home following the birth of a child. Yet there is a good deal of evidence that rights to largely unpaid leave in the United States have had only limited success in accomplishing this goal. For example, Han et al. (2008) find that two-thirds of women giving birth in 2001 and employed during pregnancy, returned to work within three months after birth. Laughlin (2011) shows that 43% of women becoming first-time mothers between 2006 and 2008, and who worked until the last month before delivery, had returned to jobs within one month after childbirth. ²⁴ Our analysis suggests that new mothers in California typically only took around 3 weeks of maternity leave, prior to the availability of PFL.

This limited leave-taking probably results, at least in part, from restrictions on the eligibility for job-protected leave under the Family and Medical Leave Act and, even for those who qualify, difficulties in financing unpaid time off work. The latter issue is particularly salient for disadvantaged mothers, who generally earn less and have fewer financial resources. The provision of payment during the leave period may help to ameliorate these difficulties, thereby both raising overall leave-taking and reducing disparities in its use.

²⁴ Moreover, Laughlin (2011) indicates that 26% of women employed during pregnancy either quit or were let go from their jobs, implying that even this relatively rapid return to work overstates the use of maternity leave.

Our study of California's first in the nation paid family leave program verifies both possibilities. We show that the overall use of maternity (but not paternity) leave increased by an average of 3 to 4 weeks, after the program was enacted, with especially large growth occurring for non-college educated, unmarried, and nonwhite mothers. These groups typically used only around 1 week of leave, prior to the enactment of PFL, compared to between 3 and 5 weeks for their advantaged counterparts. After rights to paid leave were provided, however, high school educated, unmarried, and black mothers took 4, 5, and 7 weeks of leave, respectively, approaching the estimated 6 to 7 weeks used by their more advantaged peers.

Parental leave entitlements may also either help or damage the longer-run labor market outcomes of women. For instance, they may provide benefits by increasing job continuity, and thereby preserving job-specific human capital, or be harmful, if they cause employers to restrict the jobs available to women. Our exploratory analysis of medium-term outcomes fails to uncover any negative effects but instead provides suggestive evidence of 6 to 9% increases in work hours, conditional on employment, 1 to 3 years after the birth, and possibly with similar growth in wage income.

Our analysis indicates that California's PFL program achieved the first-order objective of increasing leave-taking among new mothers, particularly those who are disadvantaged.

Moreover, it probably did not damage their medium-term labor market outcomes and may have yielded some benefits. It would next be of interest to understand the impacts for longer-term outcomes for both mothers and their children. In regard to the latter, prior research finds that maternity leave extends durations of breast-feeding, but with mixed evidence on the impact for children's future health and development (Ruhm and Waldfogel, in press). Even with California PFL, the time mothers spend at home with newborns remains relatively short, in comparison to

leaves taken in Canada and European countries. That said, leave-taking during the first weeks and months of a child's life may be particularly beneficial, so, it will be of great interest to examine longer-term effects for health and development, as the children afforded coverage by California's PFL grow older, and data on such outcomes become available.

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Table 1: Descriptive Statistics for Selected Analysis Variables

TREATMENT: MOTHERS OF **CONTROL 1: MOTHERS OF** YOUNGEST CHILDREN AGED <1 IN YOUNGEST CHILDREN AGED 5-17 IN **ANALYSIS CA WHO WORKED ANY HOURS CA WHO WORKED ANY HOURS SAMPLE LAST YEAR LAST YEAR** Pre (N=649) Post (N=773) Pre (N=6,097) Post (N=7,458) N=14,977 Mean SD Mean SD Mean SD Mean SD Mean SD Age of Youngest Child (0 means <1) 9.607 4.827 0.000 0.000 0.000 0.000 10.547 3.684 10.914 3.782 Mother's Age: <20 0.004 0.062 0.033 0.179 0.024 0.037 0.000 0.155 0.001 0.021 Mother's Age: 20-29 0.097 0.296 0.443 0.497 0.417 0.493 0.062 0.241 0.054 0.226 Mother's Age: 30-39 0.351 0.477 0.446 0.497 0.503 0.500 0.364 0.481 0.309 0.462 Mother's Age: 40-49 0.440 0.496 0.077 0.268 0.049 0.216 0.477 0.500 0.492 0.500 Mother's Age: 50-59 0.103 0.304 0.000 0.000 0.001 0.092 0.137 0.029 0.289 0.344 Mother is Non-Hispanic White 0.429 0.495 0.446 0.497 0.419 0.494 0.456 0.498 0.401 0.490 0.074 0.261 0.058 0.235 0.063 0.075 Mother is Black 0.244 0.075 0.264 0.264 Mother is Hispanic 0.352 0.478 0.342 0.475 0.372 0.484 0.326 0.469 0.378 0.485 Mother is Other Race 0.164 0.370 0.168 0.374 0.174 0.379 0.156 0.363 0.171 0.376 Mother is Married 0.724 0.447 0.803 0.398 0.808 0.394 0.714 0.452 0.716 0.451 0.049 0.217 0.027 Mother is Separated 0.162 0.021 0.143 0.051 0.220 0.053 0.225 Mother is Divorced 0.117 0.322 0.022 0.146 0.017 0.130 0.136 0.343 0.122 0.327 Mother is Widowed 0.015 0.122 0.000 0.001 0.000 0.031 0.018 0.134 0.015 0.122 Mother Born in US 0.611 0.488 0.683 0.466 0.689 0.625 0.484 0.579 0.494 0.463 0.170 0.376 Mother's Ed: <HS 0.141 0.348 0.129 0.335 0.174 0.379 0.175 0.380 Mother's Ed: HS Degree 0.226 0.418 0.243 0.429 0.167 0.373 0.243 0.429 0.214 0.410 Mother's Ed: Some College 0.315 0.465 0.308 0.462 0.300 0.459 0.328 0.470 0.304 0.460 Mother's Ed: College+ 0.289 0.453 0.308 0.462 0.404 0.491 0.255 0.436 0.307 0.461 Absent from Job for Maternity Leave 0.010 0.101 0.054 0.227 0.117 0.322 0.002 0.041 0.001 0.030 Absent from Job for Maternity Leave and Other Types of Leave¹ 0.027 0.161 0.082 0.274 0.149 0.357 0.015 0.122 0.017 0.129 Absent from Job for Other Types of Leave (Only) 0.016 0.127 0.028 0.164 0.032 0.177 0.013 0.115 0.016 0.126

 $\textbf{Notes:} \ \textbf{The data come from the 1999-2010 March CPS surveys}.$

¹This includes being absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, maternity/paternity leave, or other reasons.

All statistics are weighted by the March CPS Supplement person weights.

Table 2: Effects of CA Paid Family Leave on Leave-Taking Among Employed Women

Outcomes:	Maternity Leave	Broad Leave Definition ¹	Other Types of Leave ²					
Control Group 1: Mothers of Youngest Children Aged 5-17 Who Worked Any Hours Last Year (N=14,977)								
Treatment Group	0.0541***	0.0786***	0.0246**					
	(0.0099)	(0.0127)	(0.0084)					
Treatment * Post 2004	0.0622***	0.0632***	0.0010					
	(0.0161)	(0.0186)	(0.0102)					
Control Group 2: Women With N	lo Children Who Worked Any	Hours Last Year (N=23,513)						
Treatment Group	0.0489***	0.0608***	0.0119					
	(0.0095)	(0.0118)	(0.0074)					
Treatment * Post 2004	0.0613***	0.0655***	0.0042					
	(0.0161)	(0.0186)	(0.0102)					
Control Group 3: Men With No C	Control Group 3: Men With No Children Aged <1 Year Who Worked Any Hours Last Year (N=55,006)							
Treatment Group	0.0543***	0.0824***	0.0281***					
	(0.0094)	(0.0119)	(0.0076)					
Treatment * Post 2004	0.0625***	0.0666***	0.0041					
	(0.0161)	(0.0185)	(0.0101)					
Control Group 4: Mothers of Youngest Child <1 Year in FL, NY, TX Who Worked Any Hours Last Year (N=3,480)								
Treatment Group								
Treatment * Post 2004	0.0737**	0.0705**	-0.0032					
	(0.0234)	(0.0261)	(0.0130)					

Notes: Each column in each panel is from a separate regression. The data come from the 1999-2010 March CPS surveys. The treatment group consists of women with a youngest child aged <1 year in the household who reported working any hours last year and who reside in California. All regressions include controls for age categories (<20, 20-29, 30-39, 40-49, 50-59, 60+), indicators for race/ethnicity (non-Hispanic white, black, Hispanic, other), indicators for marital status (married, divorced, separated, widowed, never-married), an indicator for being born in the US, and indicators for education categories (<HS, HS, some college, college+). All regressions include dummies for the year of the survey. The regressions in the 1st and 3rd panels (Control Groups 1 and 3) also include indicators for single years of youngest child's age. The regressions in the 4th panel (Control Group 4) include state fixed effects and state-year unemployment rates. Standard errors are robust to heterogeneity.

¹This outcome is an indicator for being with a job but absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, maternity/paternity leave, or other reasons.

²This outcome is an indicator for being with a job but absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, or other reasons (NOT including maternity/paternity leave).

 $Significance\ levels: +p < 0.10\ **p < 0.05\ ***p < 0.001.\ All\ regressions\ are\ weighted\ by\ the\ March\ CPS\ Supplement\ person\ weights.$

Table 3: Falsification Test - Estimates of CA Paid Family Leave on Leave-Taking in Other TDI States

Outcomes:	Maternity Leave	Broad Leave Definition ¹	Other Types of Leave ²			
Control Group 1: Mothers of Youngest Children Aged 5-17 Who Worked Any Hours Last Year (N=13,234)						
Treatment Group	0.0960***	0.0920***	-0.0041			
	(0.0144)	(0.0165)	(0.0083)			
Treatment * Post 2004	0.0261	0.0286	0.0025			
	(0.0241)	(0.0255)	(0.0097)			
Control Group 2: Women With N	o Children Who Worked Any F	lours Last Year (N=21,368)				
Treatment Group	0.0958***	0.0894***	-0.0064			
	(0.0140)	(0.0150)	(0.0058)			
Treatment * Post 2004	0.0261	0.0366	0.0105			
	(0.0241)	(0.0255)	(0.0097)			
Control Group 3: Men With No Cl	hildren Aged <1 Year Who Wo	rked Any Hours Last Year (N=4	14,075)			
Treatment Group	0.0996***	0.1214***	0.0217+			
	(0.0140)	(0.0187)	(0.0127)			
Treatment * Post 2004	0.0268	0.0337	0.0068			
	(0.0241)	(0.0255)	(0.0095)			
Control Group 4: Mothers of You	ngest Child <1 Year in FL, PA, 1	TX Who Worked Any Hours La	st Year (N=3,242)			
Treatment Group						
Treatment * Post 2004	0.0243	0.0199	-0.0044			
	(0.0281)	(0.0298)	(0.0113)			

Notes: Each column in each panel is from a separate regression. The data come from the 1999-2010 March CPS surveys. The placebo treatment group consists of women with a youngest child aged <1 year in the household who reported working any hours in the last year and who reside in Hawaii, New York, or Rhode Island (other states that offer Temporary Disability Insurance but do not offer paid maternity leave). All regressions include controls for age categories (<20, 20-29, 30-39, 40-49, 50-59, 60+), indicators for race/ethnicity (non-Hispanic white, black, Hispanic, other), indicators for marital status (married, divorced, separated, widowed, never-married), an indicator for being born in the US, indicators for education categories (<HS, HS, some college, college+), and the state-year unemployment rate. All regressions include dummies for the year of the survey. The regressions in the 1st and 3rd panels (Control Groups 1 and 3) also include indicators for single years of youngest child's age. The regressions in the 4th panel (Control Group 4) also include state fixed effects.

¹This outcome is an indicator for being with a job but absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, maternity/paternity leave, or other reasons.

²This outcome is an indicator for being with a job but absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, or other reasons (NOT including maternity/paternity leave).

 $Significance\ levels: +p < 0.10\ **p < 0.05\ ***p < 0.001.\ All\ regressions\ are\ weighted\ by\ the\ March\ CPS\ Supplement\ person\ weights.$

Table 4: Subgroup Estimates of Maternity Leave Use

WHOLE SAMPLE (N=14,977)							
<u> </u>	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0542	0.0017	0.0525***	0.0487***			
Post	0.1170	0.0009	0.1161***	0.1204***			
Difference	0.0628***	-0.0008	0.0636***				
				0.0622***			
Reg-Adjusted Difference	0.0563***	-0.0006		(0.0161)			
MOTHERS WITH HIGH SCHOOL DEGREE OR LESS (N=6,263)							
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0237	0.0024	0.0213**	0.0163			
Post	0.0764	0.0014	0.0750***	0.0794***			
Difference	0.0527**	-0.0010	0.0537**				
				0.0529**			
Reg-Adjusted Difference	0.0563**	-0.0010		(0.0204)			
MOTHERS WITH SOME COLLEGE	(N=4,602)						
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0524	0.0014	0.0510**	0.0482**			
Post	0.1303	0.0007	0.1297***	0.1380***			
Difference	0.0779**	-0.0007	0.0786**				
				0.0784**			
Reg-Adjusted Difference	0.0745**	-0.0004		(0.0303)			
MOTHERS WITH COLLEGE DEGRE	E OR MORE (N=4,112)					
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0941	0.0010	0.0931***	0.0814***			
Post	0.1368	0.0004	0.1364***	0.1378***			
Difference	0.0428	-0.0006	0.0434				
				0.0424			
Reg-Adjusted Difference	0.0393	-0.0005		(0.0320)			
UNMARRIED MOTHERS (N=4,123	8)						
THE PROPERTY OF THE PARTY OF TH	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0192	0.0017	0.0176	0.0154			
Post	0.0942	0.0019	0.0923***	0.0970***			
Difference	0.0750**	0.0003	0.0747**	0.0370			
				0.0736**			
Reg-Adjusted Difference	0.0704**	0.0005		(0.0281)			
MADDIED MOTHERS (N=10 054)							
MARRIED MOTHERS (N=10,854)	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre	0.0628	0.0017	0.0611***	0.0542***			
Post	0.1224	0.0005	0.1219***	0.1246***			
Difference	0.0596**	-0.0013+	0.0609**				
				0.0597**			
Reg-Adjusted Difference	0.0525**	-0.0010		(0.0187)			
NON-HISPANIC WHITE MOTHERS							
Dro	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference			
Pre Post	0.0706	0.0011 0.0005	0.0694***	0.0640*** 0.1256***			
Difference	0.1165 0.0459+	-0.0006	0.1160*** 0.0466 +	0.1230			
Directence	0.04337	-0.0000	0.04007	0.0437			
Reg-Adjusted Difference	0.0297	-0.0005		(0.0271)			
BLACK MOTHERS (N=950)	Tuestine and Commi	Combuel Commission	Diffe	Des Adinated Differen			
Pre	7 Treatment Group 0.0195	0.0024	0.0171	Reg-Adjusted Difference 0.0058			
Post	0.1365	0.0024	0.0171	0.1651**			
Difference	0.1170+	-0.0024	0.1303 0.1194**	0.1031			
	- ==: **		•	0.1176**			
Reg-Adjusted Difference	0.1206**	-0.0020		(0.0571)			
HICRANIC ACCURRE (** * * * * * * * * * * * * * * * * *							
HISPANIC MOTHERS (N=6,265)	Troatment Casar	Control Grove 4	Difforces	Pag Adjusted Difference			
Dro	Treatment Group	Control Group 1	0.0365**	Reg-Adjusted Difference 0.0356**			
Pre Post	0.03898 0.09901	0.00250 0.00149	0.0365**	0.0356***			
Difference	0.09901	-0.00149	0.0975***	0.0312			
	0.0000	3.3010	3.3310	0.0603**			
Reg-Adjusted Difference	0.0554**	-0.0008		(0.0214)			
Reg-Adjusted Difference	0.0554**	-0.0008					

Notes: The data come from the 1999-2010 March CPS surveys. The treatment group consists of women with a youngest child aged <1 year in the household who reported working any hours last year and who reside in California. Control group 1 consists of women with a youngest child aged 5-17 years in the household who reported working any hours last year and who reside in California.

The outcome is an indicator for being absent from work last week for maternity leave. Regression-adjusted differences control for age categories

The outcome is an indicator for being absent from work last week for maternity leave. Regression-adjusted differences control for age categories (<20, 20-29, 30-39, 40-49, 50-59, 60+), indicators for race/ethnicity (non-Hispanic white, black, Hispanic, other), indicators for marital status (married, divorced, separated, widowed, never-married), an indicator for being born in the US, and indicators for education categories (<HS, HS, some college, college+). The treatment-control regression-adjusted differences and the regression-adjusted differences also include indicators for youngest child's single years of age, and dummies for the year of the survey — appropriate controls are omitted for subgroup analysis. Significance levels: +p<0.10 **p<0.05 ***p<0.001. All statistics are weighted by the March CPS Supplement person weights.

Table 5: Subgroup Estimates of Broad Definition of Leave Use

· · · · ·	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference
Pre	0.0818	0.0150	0.0668***	0.0693***
ost	0.1492	0.0170	0.1322***	0.1396***
ifference	0.0674***	0.0020	0.0654***	
				0.0633***
leg-Adjusted Difference	0.0586**	0.0024		(0.0185)
NOTHERS WITH HIGH SCHOOL		•	D://	D. Al' I D''
re	Treatment Group 0.0421	0.0133	0.0288**	Reg-Adjusted Differend 0.0183
Post	0.0921	0.0133	0.0288	0.0183
ost Difference	0.0487**	0.0000	0.0773	0.0327
	0.0.07	0.0000	0.0.0	0.0483**
Reg-Adjusted Difference	0.0537**	-0.0002		(0.0239)
	(-)			
NOTHERS WITH SOME COLLEC		Control Crown 1	Difference	Dog Adjusted Differen
)a	Treatment Group	Control Group 1	0.0485**	Reg-Adjusted Difference 0.0702**
Pre Post	0.0643 0.1519	0.0158		0.1369***
ost Difference	0.1519	0.0188 0.0030	0.1330*** 0.0846**	0.1369***
on erelice	0.0070	0.0030	0.0040	0.0851**
Reg-Adjusted Difference	0.0892**	0.0038		(0.0327)
NOTHERS WITH COLLEGE DEG				
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference
re	0.1489	0.0167	0.1321***	0.1266***
ost	0.1900	0.0197	0.1702***	0.1697***
Difference	0.0411	0.0030	0.0381	0.0356
eg-Adjusted Difference	0.0352	0.0039		(0.0379)
				<u> </u>
INMARRIED MOTHERS (N=4,1	23)			
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference
re	0.0274	0.0149	0.0125	0.0094
ost	0.1366	0.0137	0.1229***	0.1271***
Difference	0.1092**	-0.0013	0.1105**	0.1098**
Reg-Adjusted Difference	0.1062**	-0.0007		(0.0344)
	0.1002	0.0007		(0.00.1.)
<u> </u>				
	1)			
	Treatment Group	Control Group 1	Difference	Reg-Adjusted Difference
MARRIED MOTHERS (N=10,854	•	Control Group 1 0.0151	0.0801***	0.0708***
MARRIED MOTHERS (N=10,854 Pre Post	7 Treatment Group 0.0952 0.1522	0.0151 0.0183	0.0801*** 0.1339***	
MARRIED MOTHERS (N=10,854	Treatment Group 0.0952	0.0151	0.0801***	0.0708*** 0.1366***
MARRIED MOTHERS (N=10,854 Pre Post Difference	Treatment Group 0.0952 0.1522 0.0570**	0.0151 0.0183 0.0033	0.0801*** 0.1339***	0.0708*** 0.1366*** 0.0515**
MARRIED MOTHERS (N=10,854 Pre Post Difference	7 Treatment Group 0.0952 0.1522	0.0151 0.0183	0.0801*** 0.1339***	0.0708*** 0.1366***
MARRIED MOTHERS (N=10,854 Pre Post Difference Reg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479**	0.0151 0.0183 0.0033	0.0801*** 0.1339***	0.0708*** 0.1366*** 0.0515**
MARRIED MOTHERS (N=10,854 Pre Post Difference Reg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479**	0.0151 0.0183 0.0033	0.0801*** 0.1339***	0.0708*** 0.1366*** 0.0515** (0.0214)
MARRIED MOTHERS (N=10,854 Pre Post	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890)	0.0151 0.0183 0.0033 0.0038	0.0801*** 0.1339*** 0.0538**	0.0708*** 0.1366*** 0.0515** (0.0214)
MARRIED MOTHERS (N=10,854 Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group	0.0151 0.0183 0.0033 0.0038	0.0801*** 0.1339*** 0.0538**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference
MARRIED MOTHERS (N=10,854 Pre Post Difference Reg-Adjusted Difference MON-HISPANIC WHITE MOTHE Pre Post	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180	0.0801*** 0.1339*** 0.0538** Difference 0.0929***	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374***
Pre Post NON-HISPANIC WHITE MOTHE Pre Post Ofference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310***	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345
Pre Post NON-HISPANIC WHITE MOTHE Pre Post Ofference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310***	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374***
MARRIED MOTHERS (N=10,854 Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310***	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345
MARRIED MOTHERS (N=10,854 Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310***	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316)
Pre Post Difference Reg-Adjusted Difference Pre Post Difference Reg-Adjusted Difference Reg-Adjusted Difference Reg-Adjusted Difference Reg-Adjusted Difference Reg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316)
re ost ifference ieg-Adjusted Difference re ost ifference ieg-Adjusted Difference ieg-Adjusted Difference ieg-Adjusted Difference ieg-Adjusted Difference ieg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference
MARRIED MOTHERS (N=10,854 Pre Post JON-HISPANIC WHITE MOTHE Pre Post JOST	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0198 0.0018 0.0020 Control Group 1 0.0129	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Different 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Different 0.0150 0.1782**
Pre Post Oost Oost Oost Oost Oost Oost Oost O	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195 0.1976 0.1781**	0.0151 0.0183 0.0033 0.0038 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Different 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Different 0.0150 0.1782** 0.1607**
Pre Post Oost Oost Oost Oost Oost Oost Oost O	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195 0.1976	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Different 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Different 0.0150 0.1782**
MARRIED MOTHERS (N=10,854 Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195 0.1976 0.1781**	0.0151 0.0183 0.0033 0.0038 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Different 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Different 0.0150 0.1782** 0.1607**
re ost ifference ignated Difference ION-HISPANIC WHITE MOTHE re ost ifference ieg-Adjusted Difference LACK MOTHERS (N=950) re ost ifference ieg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195 0.1976 0.1781**	0.0151 0.0183 0.0033 0.0038 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference 0.0150 0.1782** 0.1607** (0.0687)
MARRIED MOTHERS (N=10,854 Pre Post Difference Reg-Adjusted Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.0195 0.1976 0.1781** 0.1880**	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0129 0.0248 0.0119 0.0153	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728** 0.1661**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference 0.0150 0.1782** 0.1607** (0.0687)
Pre Post Difference Di	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.1976 0.1781** 0.1880** Treatment Group	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119 0.0153 Control Group 1	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728** 0.1661**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference 0.0150 0.1782** 0.1607** (0.0687)
Pre Post Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1508 0.0399 0.0226 Treatment Group 0.1976 0.1781** 0.1880** Treatment Group 0.0567	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0180 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119 0.0153 Control Group 1 0.0153	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728** 0.1661**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference 0.0150 0.1782** 0.1607** (0.0687) Reg-Adjusted Difference 0.0492**
Pre Post Difference Pre Post Difference Distance Difference Distance Difference Distance Difference	Treatment Group 0.0952 0.1522 0.0570** 0.0479** RS (N=5,890) Treatment Group 0.1109 0.1109 0.0399 0.0226 Treatment Group 0.01976 0.1781** 0.1880** Treatment Group 0.0567 0.1204	0.0151 0.0183 0.0033 0.0038 Control Group 1 0.0198 0.0018 0.0020 Control Group 1 0.0129 0.0248 0.0119 0.0153 Control Group 1 0.0153	0.0801*** 0.1339*** 0.0538** Difference 0.0929*** 0.1310*** 0.0381 Difference 0.0066 0.1728** 0.1661**	0.0708*** 0.1366*** 0.0515** (0.0214) Reg-Adjusted Difference 0.0837** 0.1374*** 0.0345 (0.0316) Reg-Adjusted Difference 0.0150 0.1782** 0.1607** (0.0687) Reg-Adjusted Difference 0.0492**

Notes: Please see notes under Table 5 for information about the data, the sample, and the controls.

The outcome is an indicator for being with a job but absent from work in the last week due to for vacation/personal days, child care problems, other family/personal obligations, maternity/paternity leave, or other reasons.

Significance levels: +p<0.10 **p<0.05 ***p<0.01. All statistics are weighted by the March CPS Supplement person weights.

Table 6: Intermediate Effects of Paid Leave on Maternal Labor Market Outcomes

	Any Hours	Log Hours	Any Usual Hours	Log Usual Hours	Log Wage		
	Worked Last	Worked Last	Worked Last	Worked Last	Income Last		
Outcomes:	Week	Week	Year	Year	Year		
A. Treatment: Mothers of Children Aged 1							
Treatment Group	-0.2537***	-0.1520+	-0.2462***	-0.0792	-0.5007**		
	(0.0241)	(0.0869)	(0.0228)	(0.0589)	(0.2073)		
Treatment * 2006+	-0.0086	0.0849**	-0.0122	0.0458	0.0881		
	(0.0232)	(0.0369)	(0.0229)	(0.0335)	(0.0763)		
N	14,512	9,237	14,512	10,354	9,634		
B. Treatment: Mothers of Chi	ldren Aged 2						
Treatment Group	-0.4303***	-0.4505***	-0.2807***	-0.2294***	-0.2050		
	(0.0313)	(0.0920)	(0.0334)	(0.0524)	(0.5951)		
Treatment * 2007+	0.0300	0.0578+	0.0196	0.0492+	0.0179		
	(0.0212)	(0.0347)	(0.0208)	(0.0264)	(0.0620)		
N	17,833	11,380	17,833	12,738	11,843		
C. Treatment: Mothers of Children Aged 3							
Treatment Group	-0.2412**	0.2435	-0.2136**	-0.1295	0.7515**		
	(0.0885)	(0.3226)	(0.1003)	(0.1204)	(0.3064)		
Treatment * 2008+	-0.0078	0.0903**	0.0167	0.0587+	0.1123		
	(0.0234)	(0.0350)	(0.0225)	(0.0320)	(0.0722)		
N	16,255	10,396	16,255	11,654	10,832		

Notes: Each column in each panel is from a separate regression. The data come from the 1999-2010 March CPS surveys. The sample of analysis includes women whose youngest children are in the household in California. The control group consists of women with a youngest child aged 7-17 years in the household who reside in California. Regressions in panel A are estimated on a sample omitting year 2005; regressions in panel B are estimated on a sample omitting year 2007. Regressions in panel A control for whether the woman has any other children < 1, regressions in panel B control for whether the woman has any other children aged <1 or 1, and regressions in panel C control for whether the woman has any other children aged <1, 1, or 2. All regressions include controls for mother's age categories (<20, 20-29, 30-39, 40-49, 50-59, 60+), indicators for race/ethnicity (non-Hispanic white, black, Hispanic, other), indicators for marital status (married, separated, divorced, never-married), an indicator for being born in the US, indicators for education categories (<HS, HS, some college, college+), and indicators for youngest child's single years of age. All regressions include dummies for the year of the survey. Standard errors are robust to heterogeneity.

Significance levels: +p<0.10 **p<0.05 ***p<0.001. All regressions are weighted by the March CPS Supplement person weights.

Appendix Table 1: Descriptive Statistics for Labor Market Outcomes

	Pre		Post			
	Mean	SD	Mean	SD		
A. Treatment: Mothers of Children Aged 1 (N=2,317)						
Any Hours Worked Last Week	0.487	0.500	0.468	0.499		
Number Hours Worked Last Week (No 0's)	33.419	12.766	34.465	11.486		
Log Hours Worked Last Week	3.398	0.558	3.451	0.498		
Any Usual Hours Worked Last Year	0.583	0.493	0.536	0.499		
Number Usual Hours Worked Last Year (No 0's)	34.724	11.790	35.323	11.553		
Log Usual Hours Worked Last Year	3.449	0.539	3.481	0.479		
Wage Income Last Year (2010 \$)	16014.167	28659.226	19889.409	43527.680		
Log Wage Income Last Year	9.686	1.281	9.943	1.279		
B. Treatment: Mothers of Children Aged 2 (N=2,900)						
Any Hours Worked Last Week	0.467	0.499	0.491	0.500		
Number Hours Worked Last Week (No 0's)	34.167	11.563	34.908	11.883		
Log Hours Worked Last Week	3.436	0.521	3.450	0.568		
Any Usual Hours Worked Last Year	0.579	0.494	0.589	0.492		
Number Usual Hours Worked Last Year (No 0's)	34.771	11.257	35.296	10.438		
Log Usual Hours Worked Last Year	3.462	0.494	3.492	0.452		
Wage Income Last Year (2010 \$)	17027.669	31222.867	20891.952	38361.454		
Log Wage Income Last Year	9.814	1.199	10.012	1.126		
C. Treatment: Mothers of Children Aged 3 (N=2,723)						
Any Hours Worked Last Week	0.493	0.500	0.483	0.500		
Number Hours Worked Last Week (No 0's)	34.852	12.573	35.583	11.934		
Log Hours Worked Last Week	3.447	0.552	3.487	0.495		
Any Usual Hours Worked Last Year	0.598	0.490	0.602	0.490		
Number Usual Hours Worked Last Year (No 0's)	35.056	11.994	35.814	11.724		
Log Usual Hours Worked Last Year	3.460	0.529	3.493	0.513		
Wage Income Last Year (2010 \$)	17278.119	35076.466	20698.828	39853.748		
Log Wage Income Last Year	9.742	1.263	9.978	1.144		
D. Control: Mothers of Youngest Children Aged 7+ (N=12,195)						
Any Hours Worked Last Week	0.682	0.466	0.674	0.469		
Number Hours Worked Last Week (No 0's)	36.823	12.100	36.125	12.484		
Log Hours Worked Last Week	3.525	0.475	3.494	0.517		
Any Usual Hours Worked Last Year	0.766	0.423	0.739	0.439		
Number Usual Hours Worked Last Year (No 0's)	36.863	11.418	36.399	11.276		
Log Usual Hours Worked Last Year	3.535	0.446	3.520	0.453		
Wage Income Last Year (2010 \$)	25877.173	37379.249	28304.259	45145.483		
Log Wage Income Last Year	10.056	1.104	10.171	1.057		

Notes: The data come from the 1999-2010 March CPS surveys. The sample of analysis includes women whose youngest children are in the household in California. In panel A, year 2005 is omitted from the sample, and post is an indicator for years 2006 or later. In panel B, year 2006 is omitted from the sample, and post is an indicator for years 2007 or later. In panel C, year 2007 is omitted from the sample, and post is an indicator for years 2008 or later. In panel D, year 2005 is omitted from the sample, and post is an indicator for years 2006 or later. All statistics are weighted by the March CPS Supplement person weights.