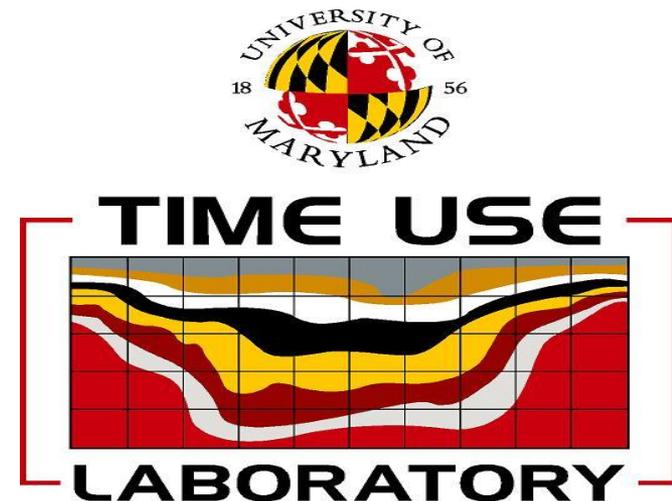


# MEASURING CHILD CARE TIME WITH ATUS-X

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LIANA C. SAYER

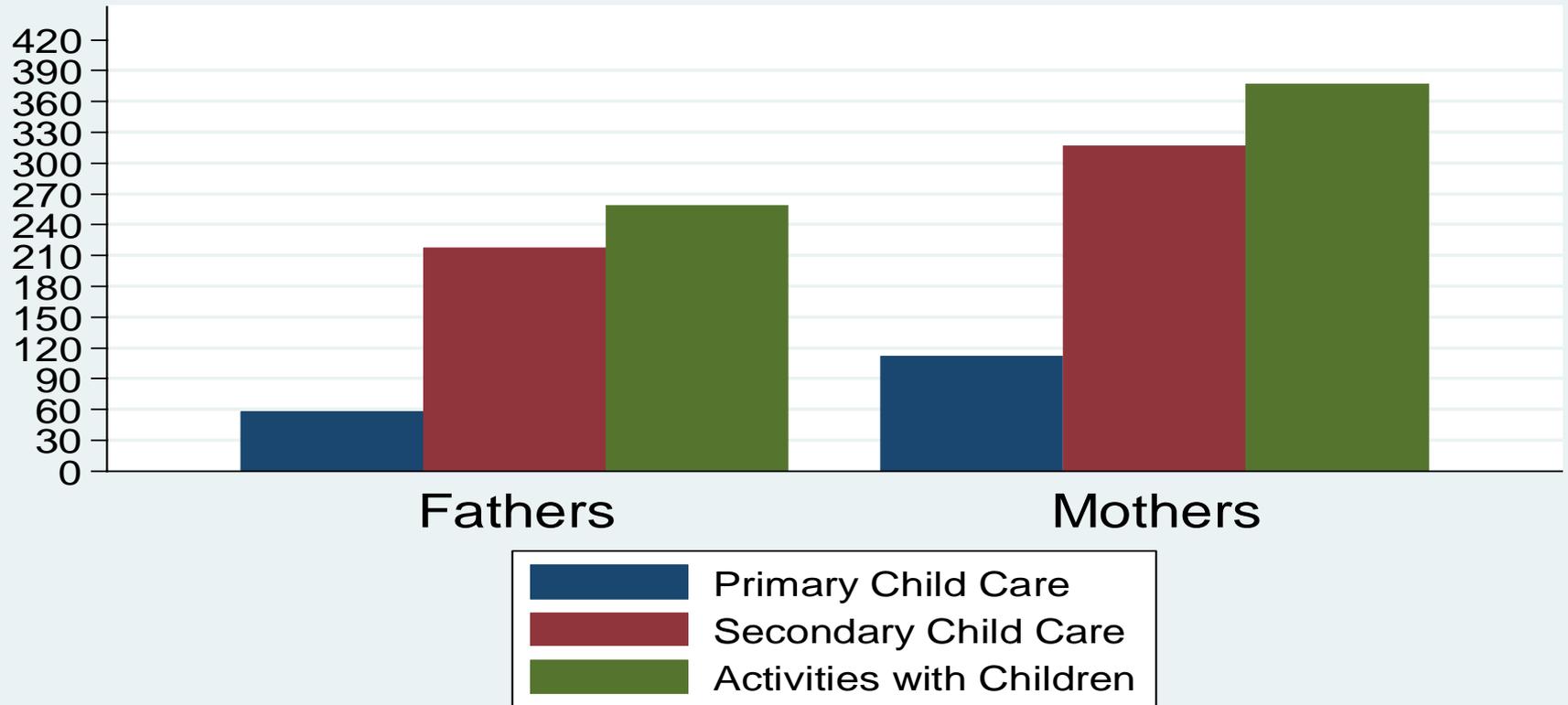


# MEASURING CHILD CARE

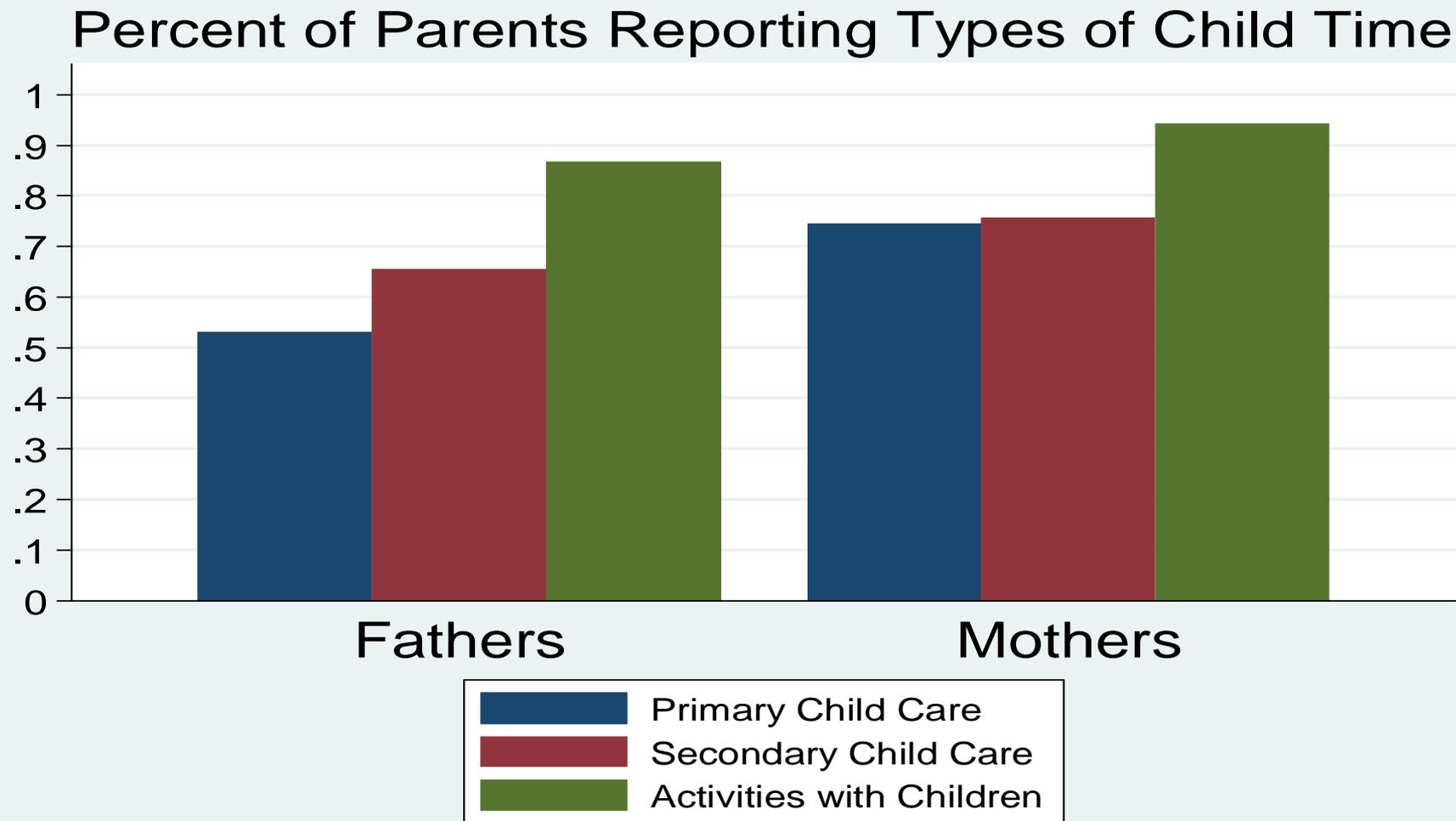
- ◎ Primary Child Care
- ◎ “Secondary” child care
  - Child “in your care”
  - Responsibility / monitoring of child(ren)
  - In ATUS-X ≠ simultaneous child care activity
- ◎ Time with Children
  - Any activity with household & nonhousehold children

# FIGURE 1. COMPARING TYPES OF CHILD TIME

Minutes per Day of Child Time Types



# FIGURE 2. COMPARING REPORTS OF TYPES OF CHILD TIME



# CONCEPTUALIZING PRIMARY CHILD CARE

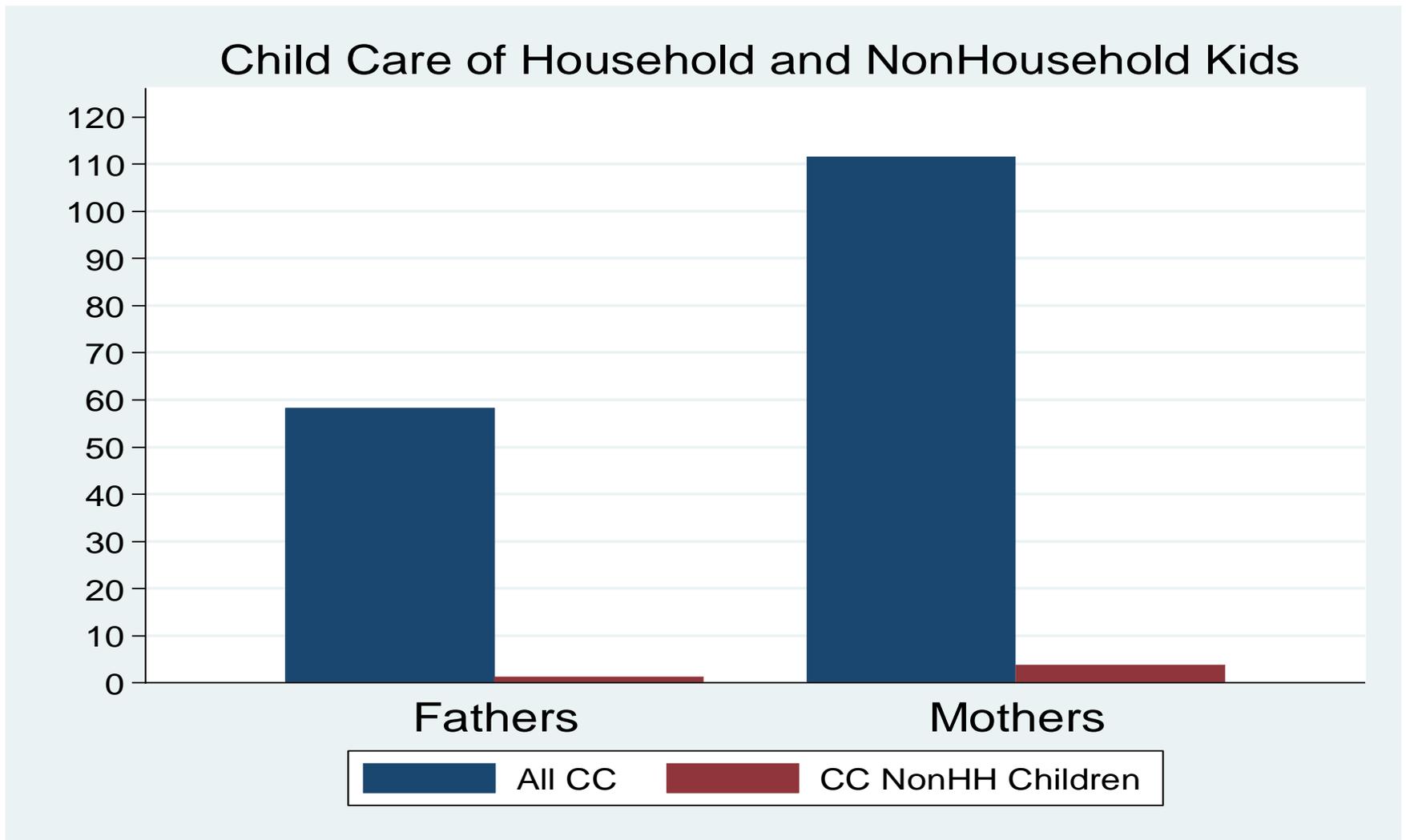
- ⦿ Physical care
- ⦿ Developmental care
- ⦿ Managerial care

# CODING PRIMARY CHILD CARE TIME

## ATUS 2003-12 Activity coding lexicon

Major category	First and second-tier categories	6-digit activity code	Activity	Notes
	0299		Household activities, n.e.c.*	
		029999	Household activities, n.e.c.*	
<b>03</b>	<b>Caring For &amp; Helping Household Members</b>			
	0301		Caring For & Helping HH Children	
		030101	Physical care for hh children	
		030102	Reading to/with hh children	
		030103	Playing with hh children, not sports	
		030104	Arts and crafts with hh children	
		030105	Playing sports with hh children	
		030186	Talking with/listening to hh children	includes 030106 (all years), 030107 (2003)
		030108	Organization & planning for hh children	
		030109	Looking after hh children (as a primary activity)	
		030110	Attending hh children's events	
		030111	Waiting for/with hh children	
		030112	Picking up/dropping off hh children	
		030199	Caring for & helping hh children, n.e.c.*	
	0302		Activities Related to HH Children's Education	
		030201	Homework (hh children)	
		030202	Meetings and school conferences (hh children)	
		030203	Home schooling of hh children	
		030204	Waiting associated with hh children's education	
		030299	Activities related to hh child's education, n.e.c.*	
	0303		Activities Related to HH Children's Health	
		030301	Providing medical care to hh children	
		030302	Obtaining medical care for hh children	
		030303	Waiting associated with hh children's health	
		030399	Activities related to hh child's health, n.e.c.*	

# FIGURE 3. MORE CHILD CARE TIME OF HOUSEHOLD CHILDREN



# CREATING PRIMARY CHILD CARE MEASURES

Select Variables

Household ▾ Person ▾ Activity ▾ Who ▾ Time Use ▾ Search

Create Time Use Variable

Select Samples

Rectangular [2]  
 Hierarchical [2]  
[Help](#)  
[Display options](#)

Activity coding structure

Add to cart	Name	Label
<input type="radio"/>	<a href="#">ACT_PCARE</a>	ACT: Personal care
<input type="radio"/>	<a href="#">ACT_HHACT</a>	ACT: Household activities
<input type="radio"/>	<a href="#">ACT_CAREHH</a>	ACT: Caring for and helping household members
<input type="radio"/>	<a href="#">ACT_CARENHH</a>	ACT: Caring for and helping non-household members
<input type="radio"/>	<a href="#">ACT_WORK</a>	ACT: Working and Work-related Activities
<input type="radio"/>	<a href="#">ACT_EDUC</a>	ACT: Educational activities
<input type="radio"/>	<a href="#">ACT_PURCH</a>	ACT: Consumer purchases
<input type="radio"/>	<a href="#">ACT_PROFSEV</a>	ACT: Professional and personal care services
<input type="radio"/>	<a href="#">ACT_HHSEV</a>	ACT: Household services
<input type="radio"/>	<a href="#">ACT_GOVSEV</a>	ACT: Government services and civic obligations
<input type="radio"/>	<a href="#">ACT_FOOD</a>	ACT: Eat and drinking
<input type="radio"/>	<a href="#">ACT_SOCIAL</a>	ACT: Socializing, relaxing, and leisure
<input type="radio"/>	<a href="#">ACT_SPORTS</a>	ACT: Sports, exercise, and recreation
<input type="radio"/>	<a href="#">ACT_RELIG</a>	ACT: Religious and spiritual activities
<input type="radio"/>	<a href="#">ACT_VOL</a>	ACT: Volunteer activities
<input type="radio"/>	<a href="#">ACT_PHONE</a>	ACT: Telephone calls
<input type="radio"/>	<a href="#">ACT_TRAVEL</a>	ACT: Traveling

## IPUMS

### 030000 CARING FOR AND HELPING HOUSEHOLD MEMBERS

#### Category Description

2003+: This category captures activities the respondent did to care for or help any child or adult in the respondent's household, regardless of relationship, age, or physical or mental health status. Care for household children and adults is coded separately in sub-categories under 030000. Household members are considered children if under the age of 18.

#### Activity Coding Rules

Talking with son/daughter/household child

2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/Talking with or listening to household children (030106).

Talking with a child and other adults

2003+: Code as Socializing, Relaxing, and Leisure/Socializing and Communicating/Socializing and communicating with others (120101).

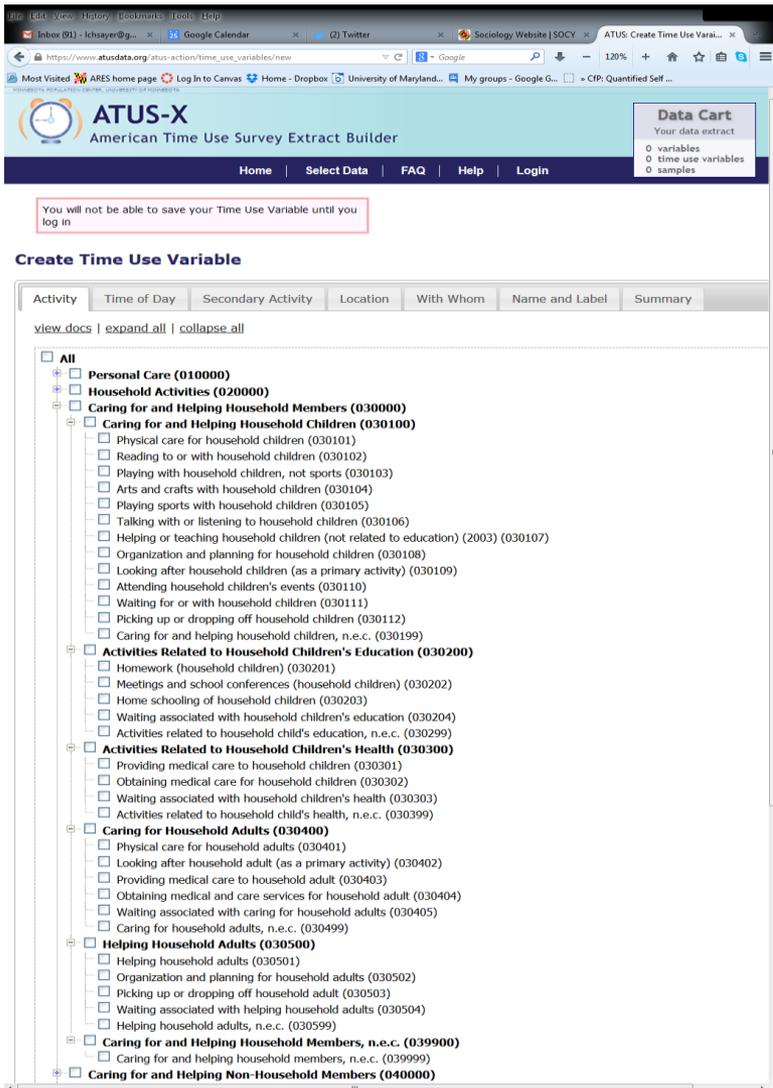
Talking with household child and non-household child

2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/Talking with or listening to household children (030106).

Doing arts and crafts, playing games, and playing sports with household child

2003+: Code as Caring for and Helping Household Members/Caring for and Helping Household Children/relevant activity (030100). *Exception:* If the verbatim does not mention children (e.g. "playing Monopoly") but the WHO

# CREATING PRIMARY CHILD CARE VARIABLES FROM SCRATCH



## Physical

- 030101 + 030109 + 030199 + 030301 + 030302 + 030303 + 030399 + 180381

## Developmental

- 030102 + 030103 + 030104 + 030105 + 030106 + 030201 + 030203

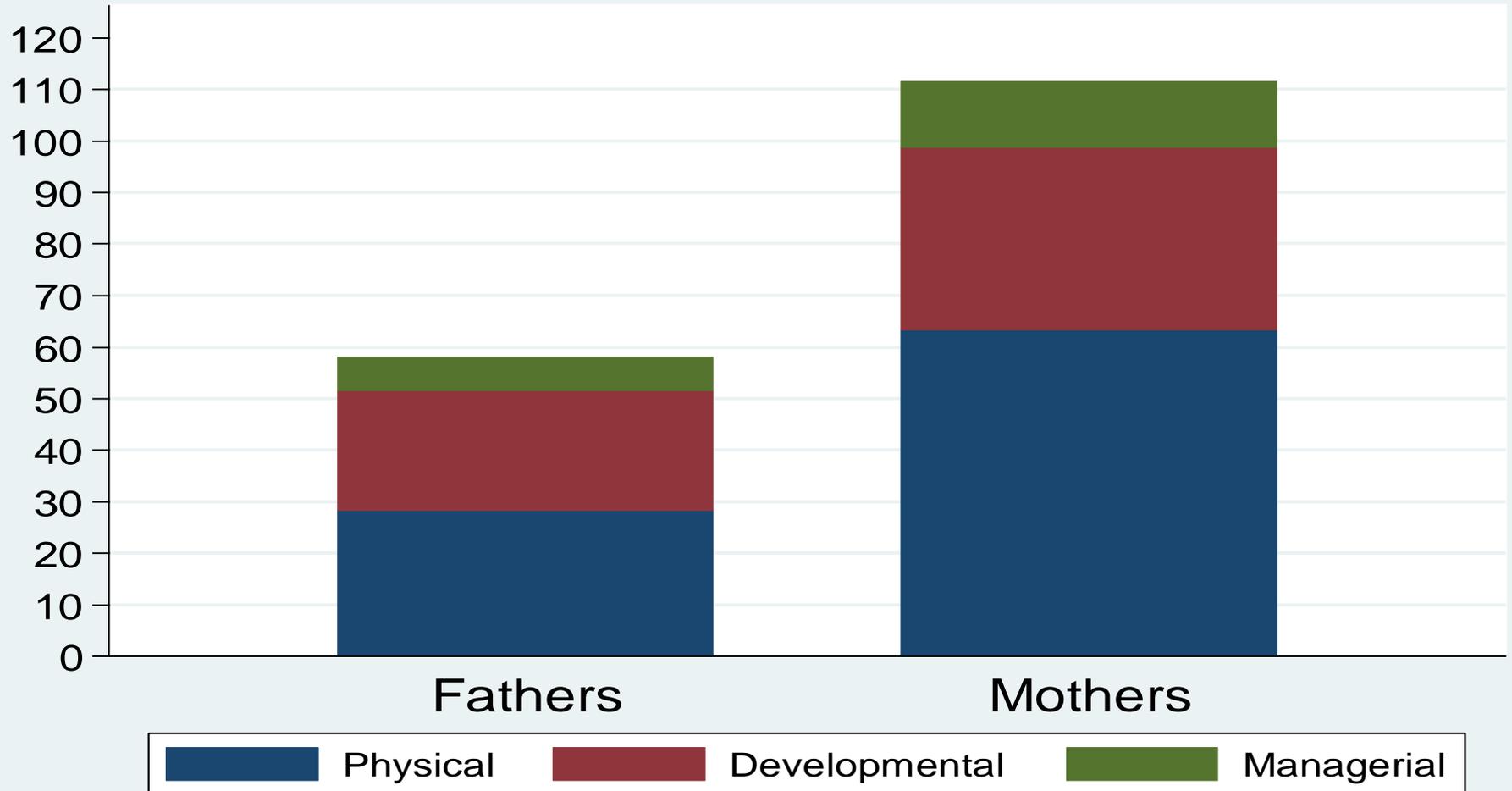
## Managerial

- 030108 + 030110 + 030111 + 030112 + 030202 + 030204 + 030299 + 080101 + 080102 + 080199 + 160107 + 180801

⑦ [https://www.atusdata.org/atus-action/time\\_use\\_variables/new](https://www.atusdata.org/atus-action/time_use_variables/new)

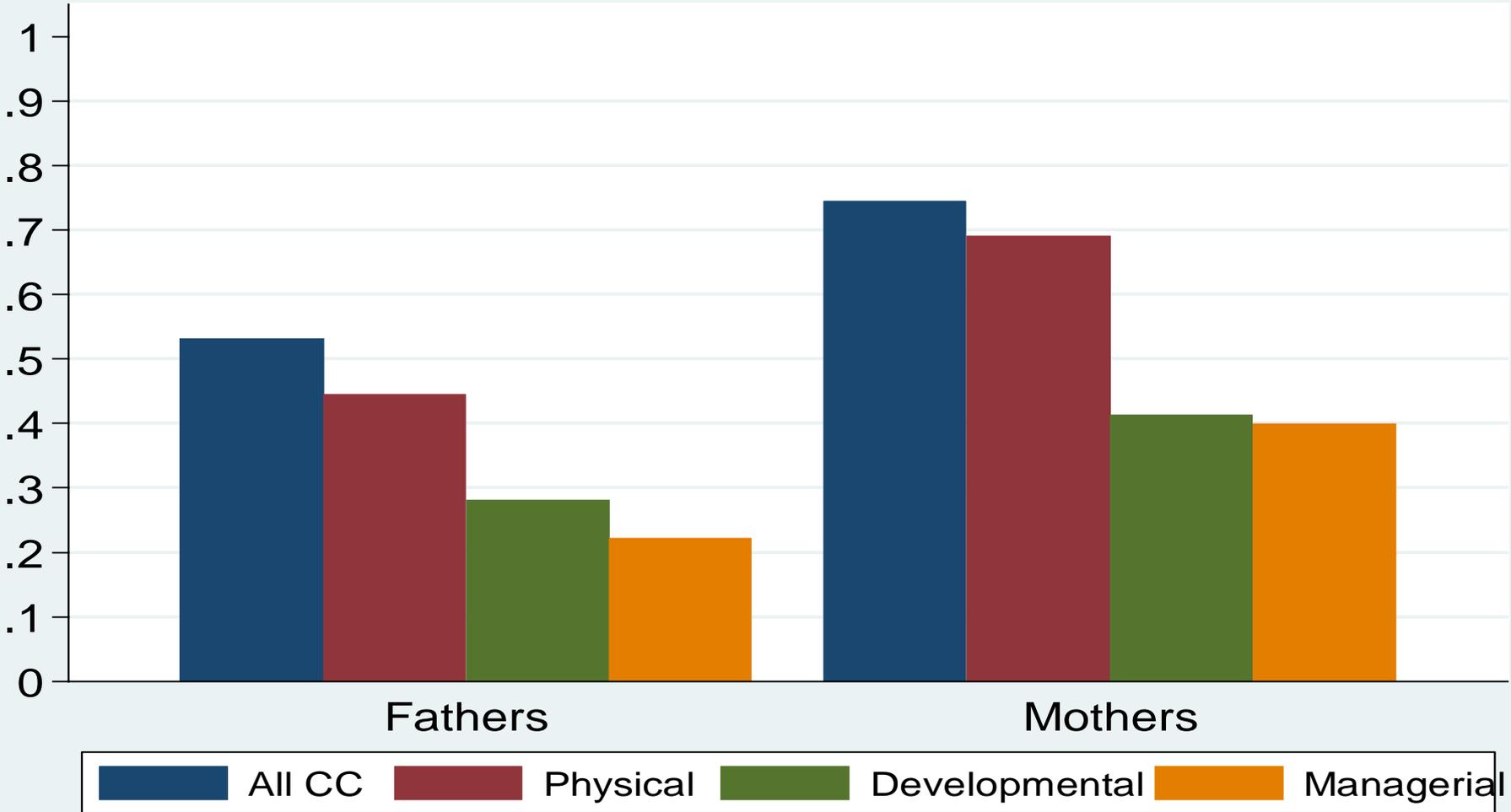
# FIGURE 4. MORE DAILY TIME IN PHYSICAL CHILD CARE TIME

## Primary Child Care Minutes per Day



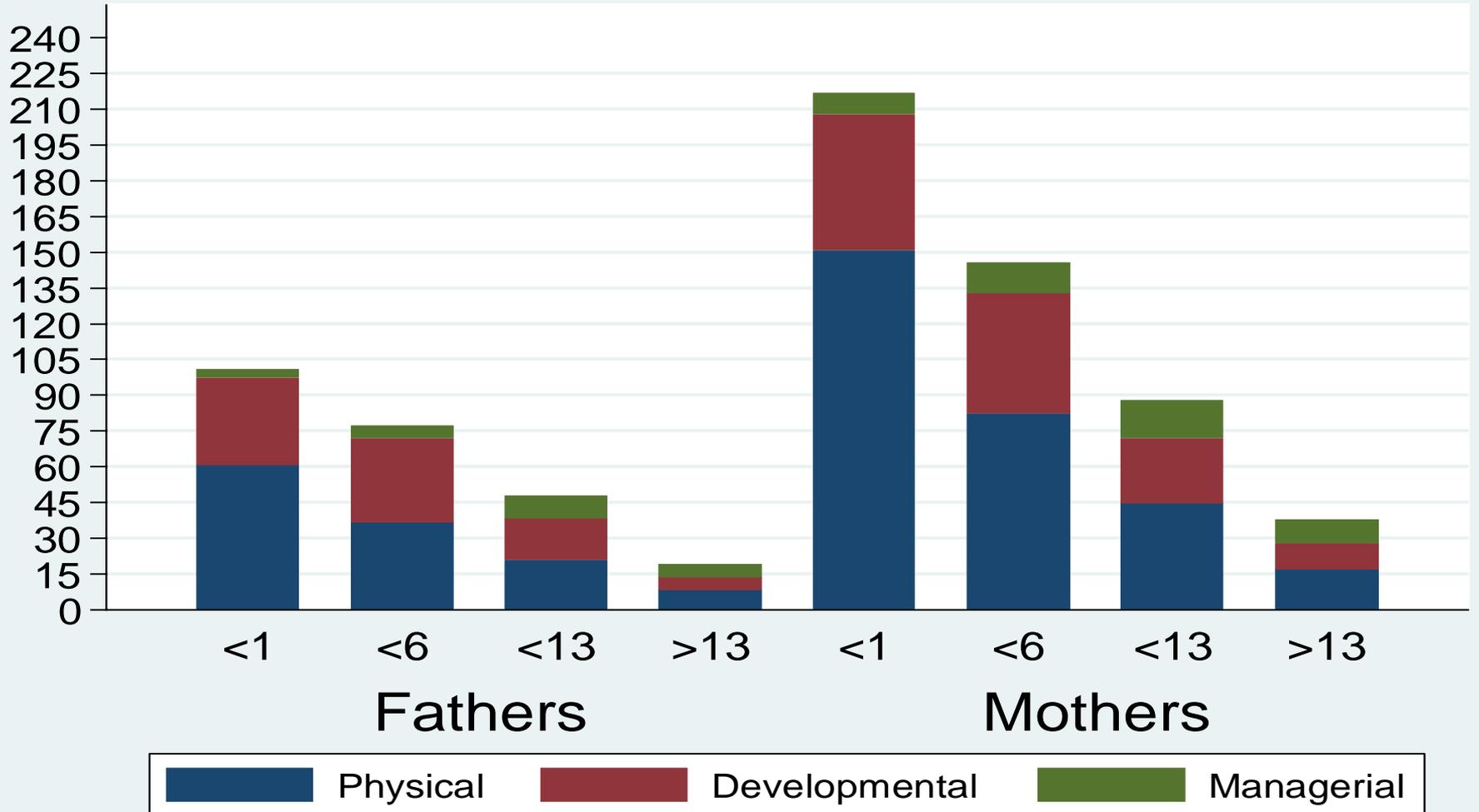
# FIGURE 5. HIGHER % OF PARENTS REPORT PHYSICAL CHILD CARE ACTIVITIES

% Parents Reporting Primary Child Care



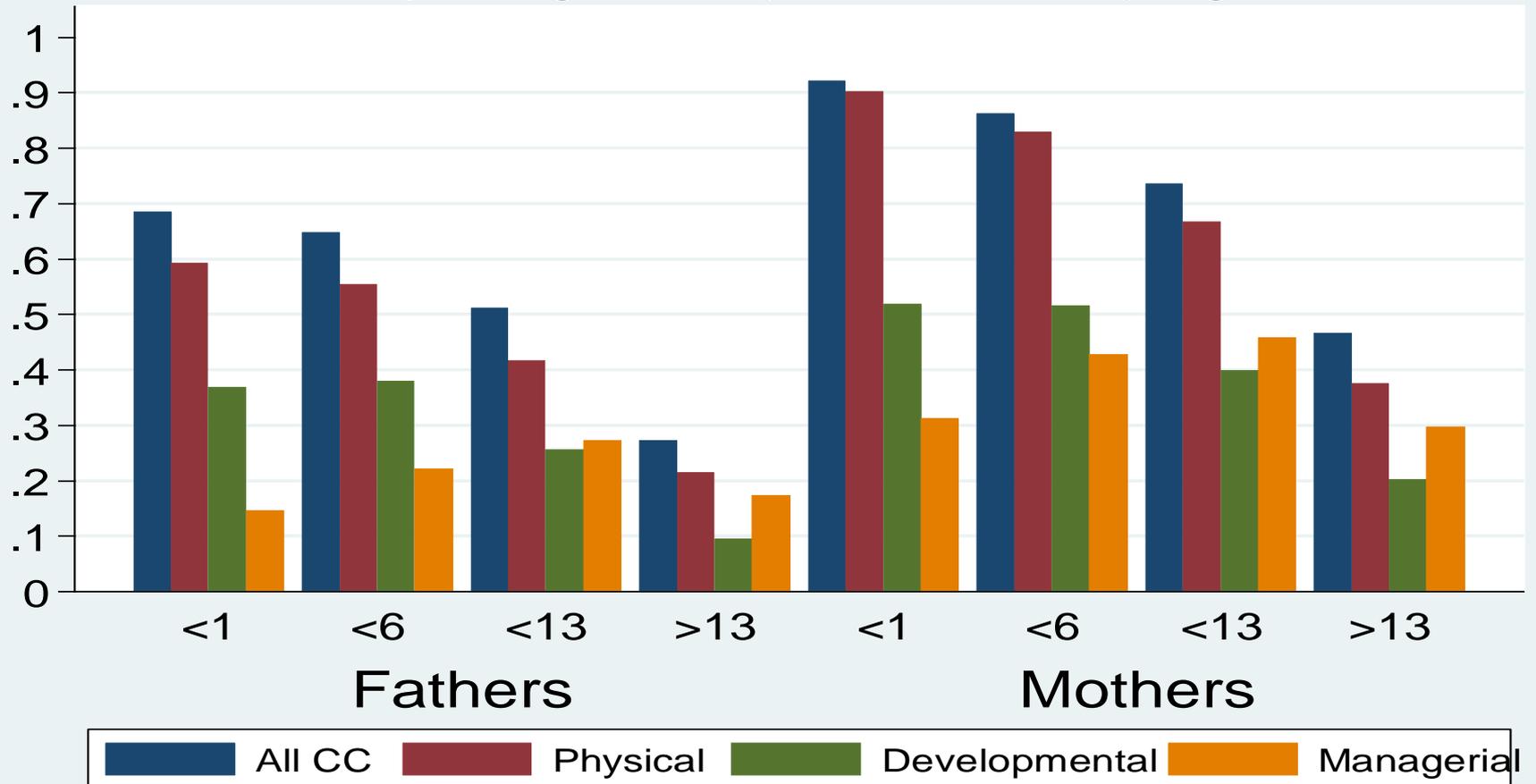
# FIGURE 6. MORE CHILD CARE TIME WHEN YOUNG CHILDREN PRESENT

## Primary Child Care Minutes per Day by Age of Kids



# FIGURE 7. HIGHER % OF PARENTS REPORT CHILD CARE WHEN CHILDREN ARE <6

% Parents Reporting Primary Child Care by Age of Children



# SECONDARY CHILD CARE TIME

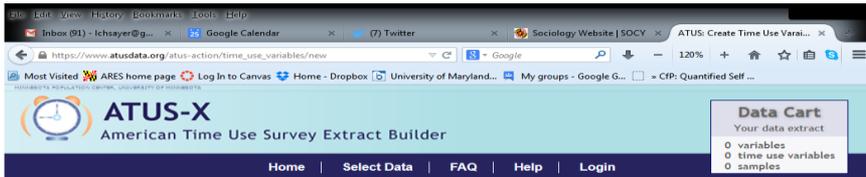
- ◎ Data collected after main diary
  - “at which times or during which activities was a child in your care?”
- ◎ Children ages 0-12
- ◎ Secondary child care not collected if
  - children are asleep
  - respondent is asleep
  - primary activity is child care

# ATUS-X SECONDARY CHILD CARE MEASURES

- ◎ Summary and Activity-level measures
- ◎ Types of secondary child care, 2003
  - Household and own, non-household children
  - Non-household, non-own children
- ◎ Types of secondary child care, 2004-2007
  - Own *household* children
  - Own *non-household* children
  - *Non-own* household children
  - *Non-own, non-household* children



# CREATING SECONDARY CHILD CARE MEASURES



## Create Time Use Variable

Activity Time of Day Secondary Activity Location With Whom Name and Label Summary

Secondary activities occur at the same time as primary activities. Secondary activities available in the ATUS include child care (2003+), eating and drinking (2006-2008), and eldercare (2011+). By applying secondary activity filters, only time spent during the primary activities in which the secondary activity also occurred will be aggregated to create a time use variable. Secondary activity filters may not be applied together. Users who are unfamiliar with how the secondary activity filters work should consult the additional documentation provided.

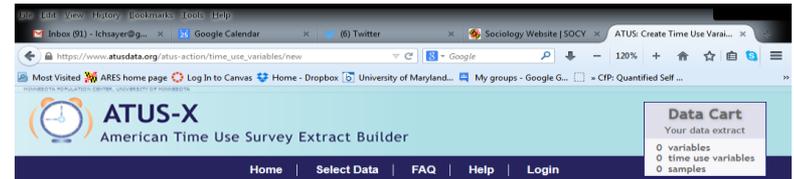
[\[more info\]](#)

Secondary Activity Filter

- Duration of entire activity
- Duration of time spent during activity on secondary child care of all children
- Duration of time spent during activity on secondary eating and drinking
- Duration of time spent during activity on secondary eldercare for household and non-household elderly

You Must Log In To Save

Quit making time use variable



## Create Time Use Variable

Activity Time of Day Secondary Activity Location With Whom Name and Label Summary

Secondary activities occur at the same time as primary activities. Secondary activities available in the ATUS include child care (2003+), eating and drinking (2006-2008), and eldercare (2011+). By applying secondary activity filters, only time spent during the primary activities in which the secondary activity also occurred will be aggregated to create a time use variable. Secondary activity filters may not be applied together. Users who are unfamiliar with how the secondary activity filters work should consult the additional documentation provided.

[\[more info\]](#)

Secondary Activity Filter

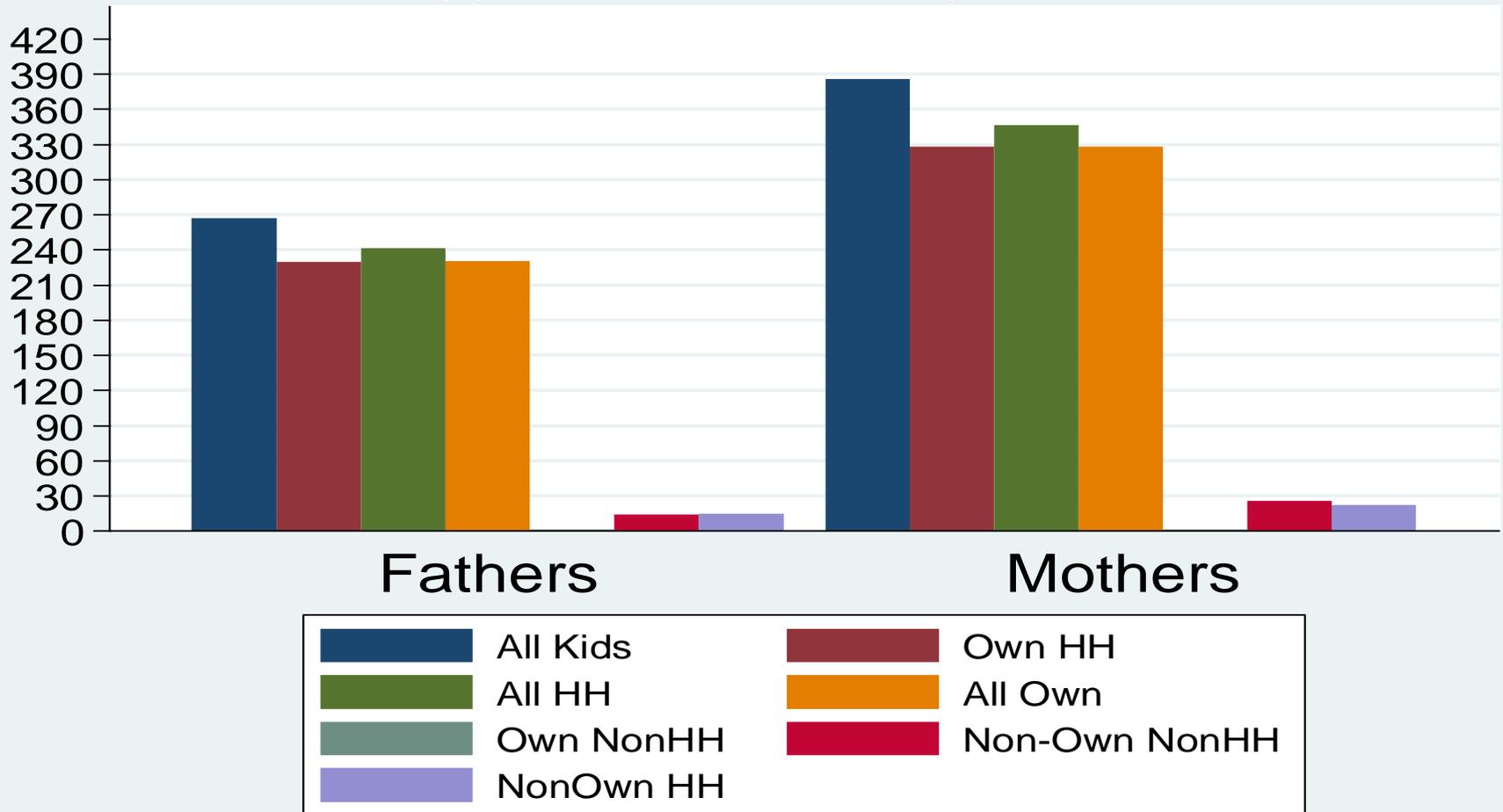
- Duration of entire activity
- Duration of time spent during activity on secondary child care of all children
- Time spent during activity on secondary child care of household and own, non-household children
  - Time spent during activity on secondary child care of own, household children
  - Time spent during activity on secondary child care of own, non-household children
  - Time spent during activity on secondary child care of non-own, household children
  - Time spent during activity on secondary child care of non-own, non-household children
- Duration of time spent during activity on secondary eating and drinking
- Duration of time spent during activity on secondary eldercare for household and non-household elderly

You Must Log In To Save

Quit making time use variable

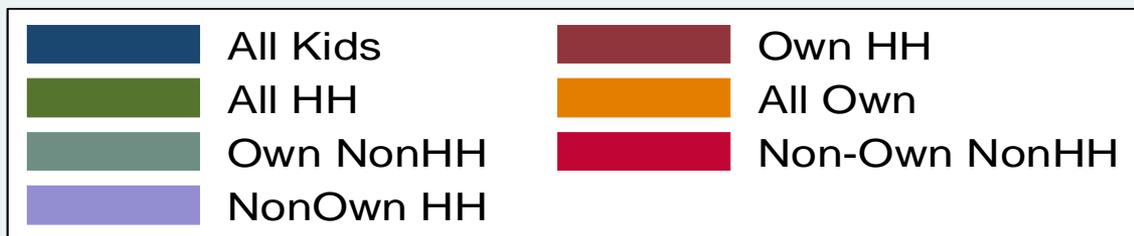
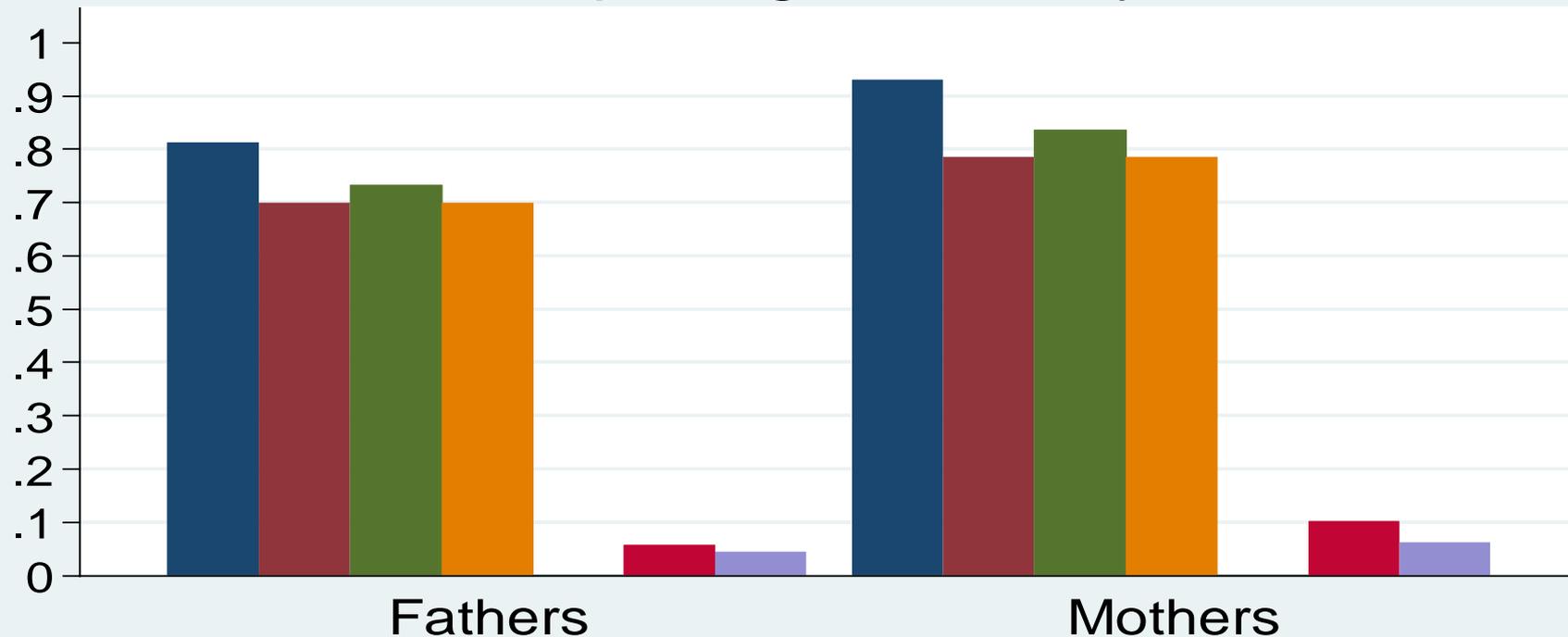
# FIGURE 8. COMPARING MINUTES PER DAY OF TYPES OF SECONDARY CHILD CARE TIME

## Parents' Types of Secondary Child Care Time



# FIGURE 9. COMPARING REPORTS OF SECONDARY CHILD CARE

% Parents Reporting Secondary Child Care



# WITH WHOM DATA

- ◎ Use “who with” variables to create
  - How much time is spent with children in all activities
  - How much time is spent in “solo” and “shared” child care
- ◎ With whom data is not collected if primary activity is
  - Sleep
  - Personal care

# CREATING MEASURES USING WITH WHOM DATA

The screenshot shows the ATUS-X American Time Use Survey Extract Builder interface. At the top, there is a navigation bar with links for Home, Select Data, FAQ, Help, and Login. A 'Data Cart' widget on the right shows 0 variables, 0 time use variables, and 0 samples. A message box states: 'You will not be able to save your Time Use Variable until you log in'. The main section is titled 'Create Time Use Variable' and has several tabs: Activity, Time of Day, Secondary Activity, Location, With Whom, Name and Label, and Summary. The 'With Whom' tab is selected, displaying a text explanation of the filter and a list of relationship categories with radio button options.

**Who Filter**

- Do not make any specifications
- I want to specify others with whom the respondent did (or did not) spend time
- I am only interested in time the respondent spent [alone].

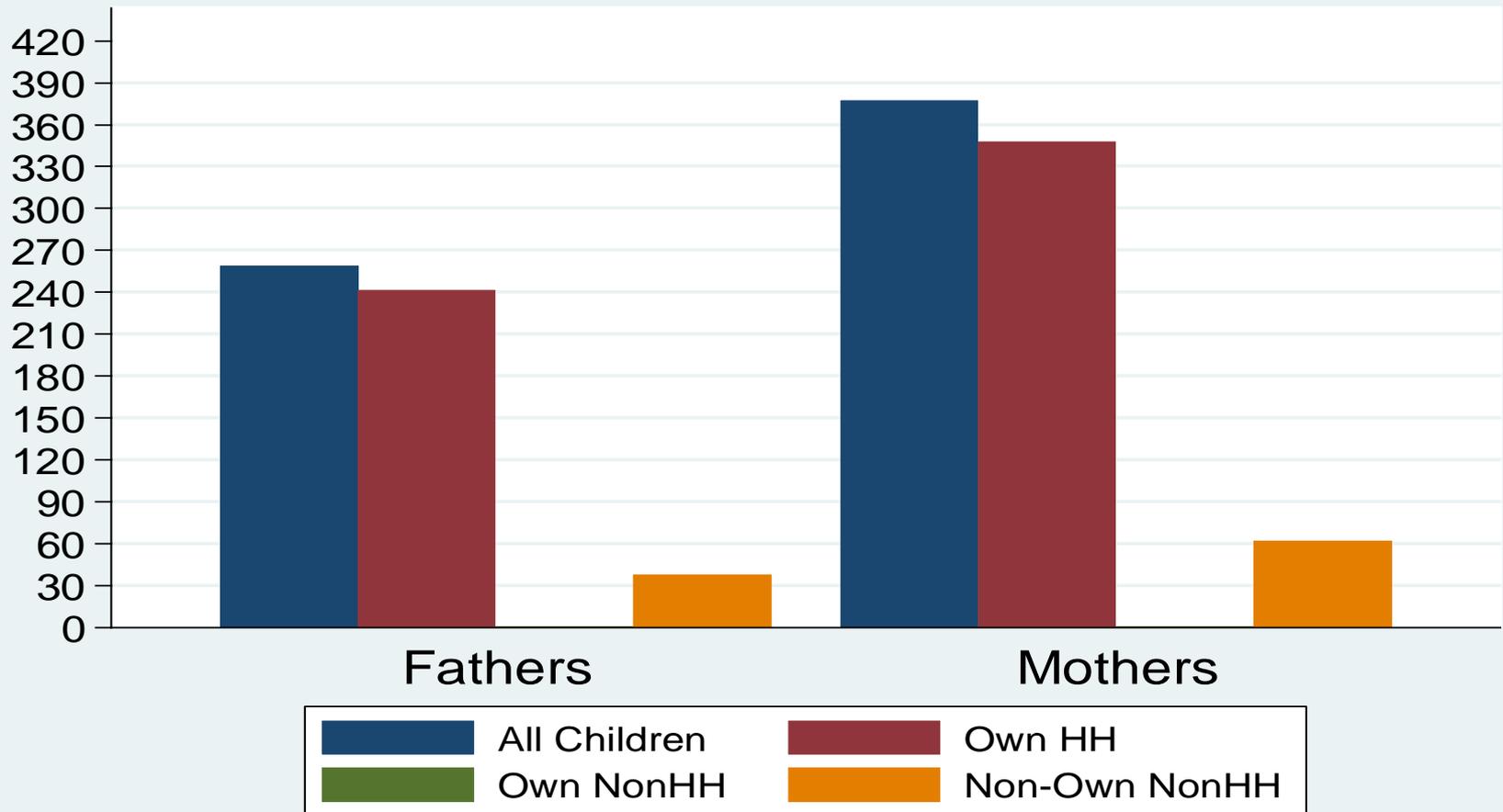
**With Whom**

- Include time spent during an activity with ANY of the people identified in the present column
- Include time spent during an activity with ALL of the people identified in the present column

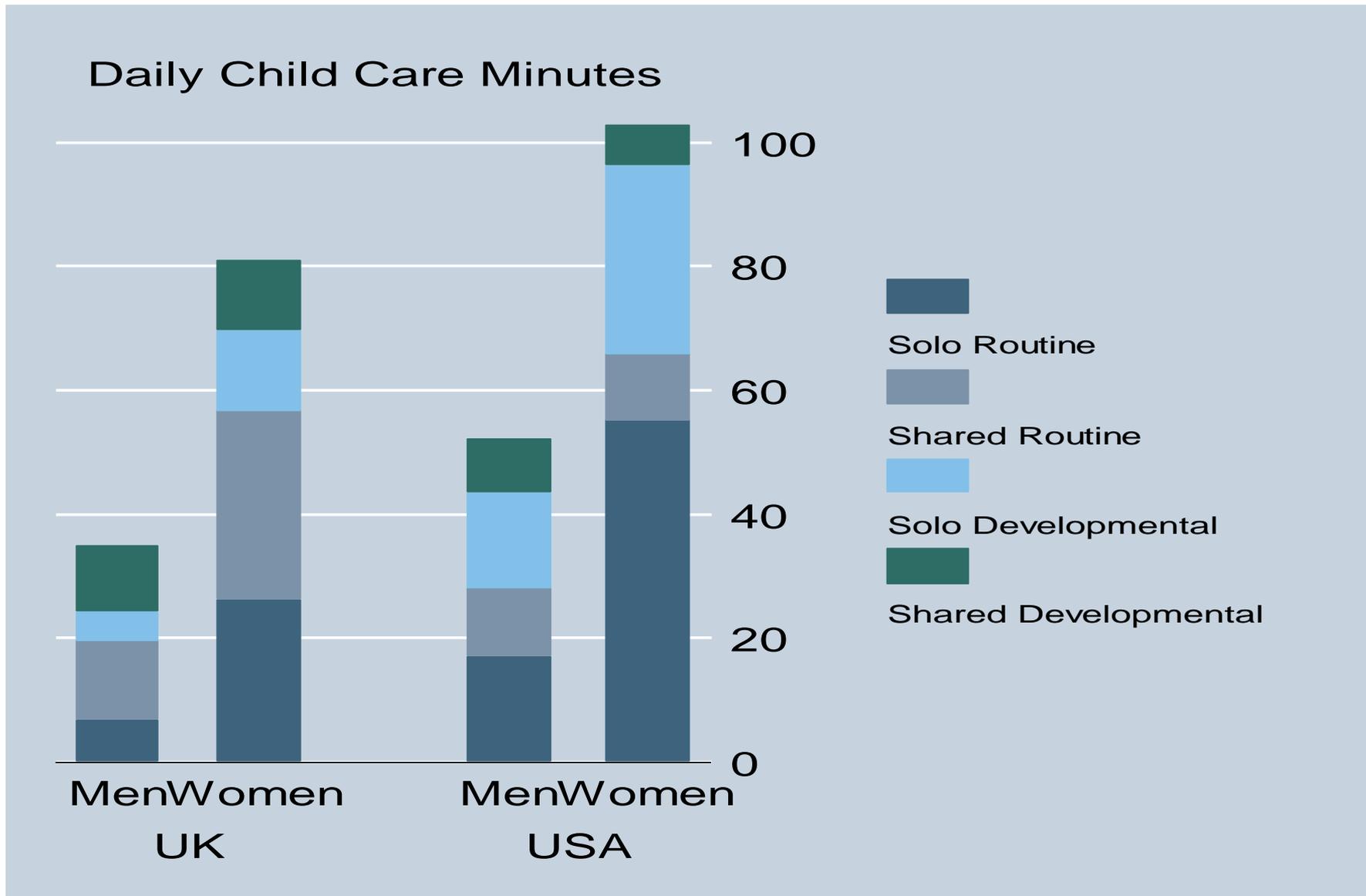
Present	Does Not Matter	Not Present	Relationship
<b>Household members</b>			
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Spouse
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Unmarried partner
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Own household child
			<a href="#">Specify Age and Sex</a>
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Grandchild
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Parent
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Brother/sister
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Other related person
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Foster child
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Housemate, roommate
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Roomer, boarder
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Other nonrelative
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<b>Own non-household child under 18</b>
<b>Other non-household people</b>			
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Parents (not living in household)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Other non-household family members under 18
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Other non-household family members 18 and older (including parents-in-law)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Friends
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Co-workers, colleagues, clients (non-work activities only)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Boss or manager (work activities only, 2010+)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	People whom I supervise (work activities only, 2010+)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Co-workers (work activities only, 2010+)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Customers (work activities only, 2010+)
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Neighbors, acquaintances
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Other non-household children under 18

# FIGURE 10. MORE TIME WITH OWN HOUSEHOLD CHILDREN

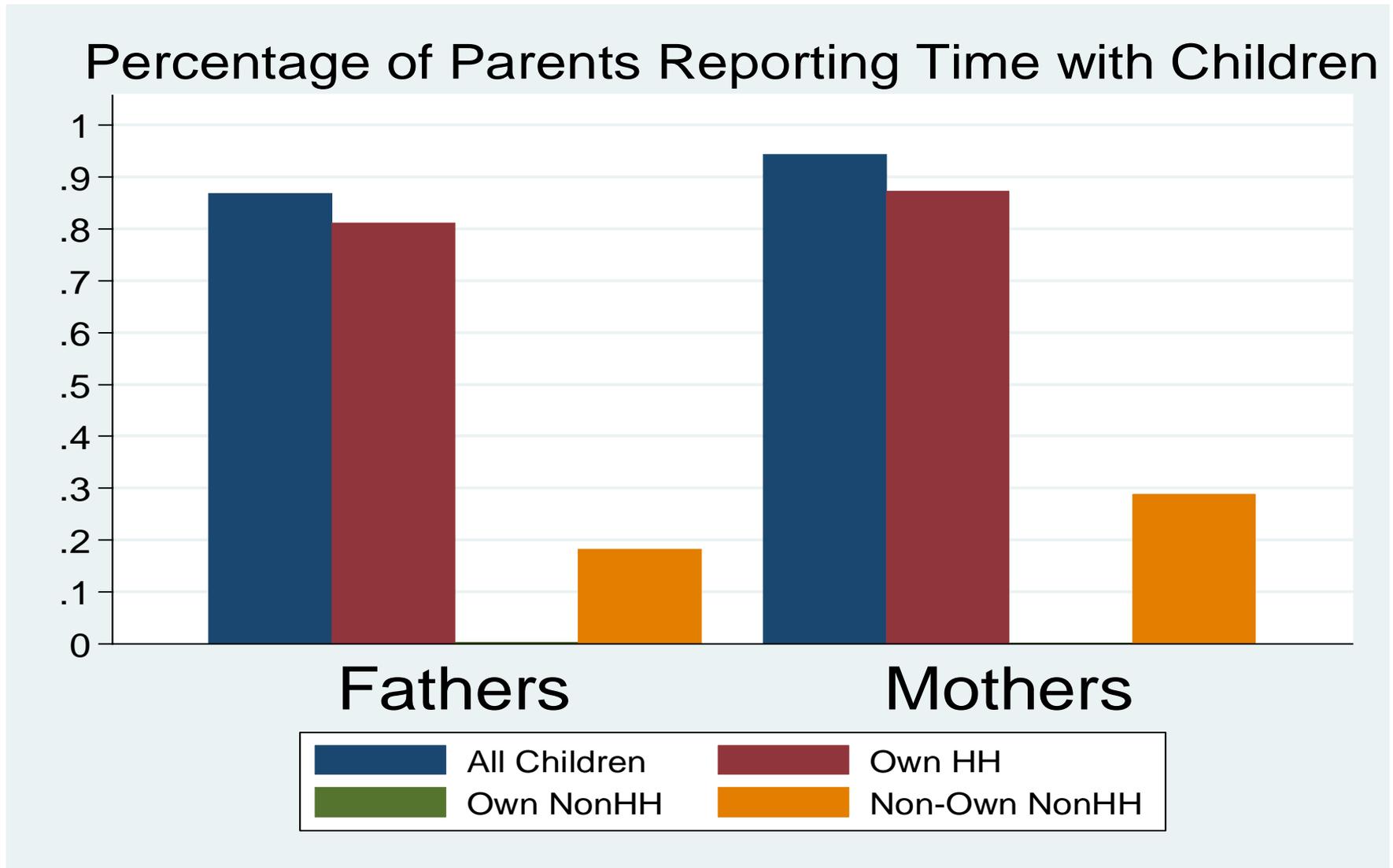
## Time with Children



# FIGURE 8. SOLO & SHARED PRIMARY CHILD CARE

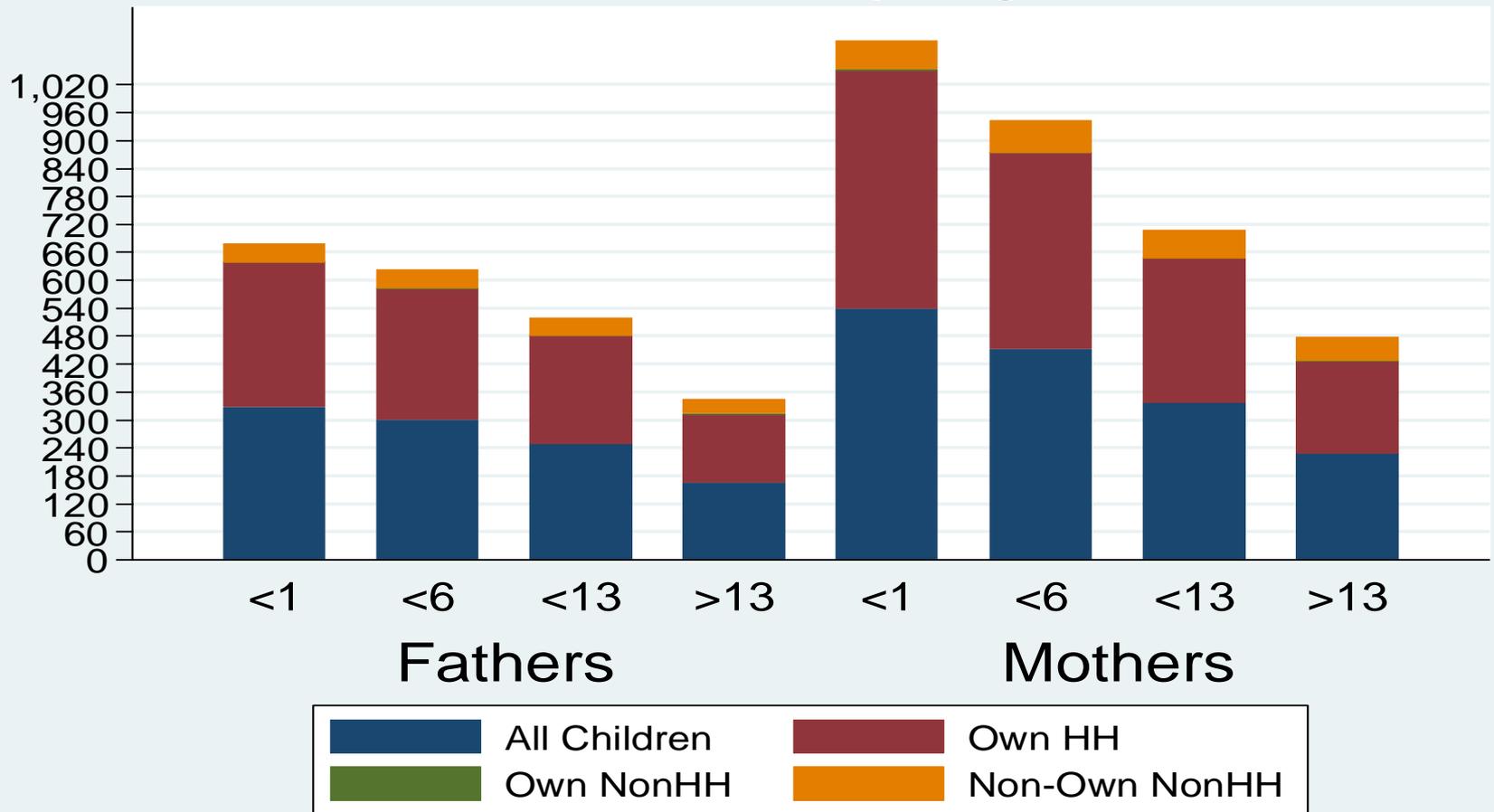


# FIGURE 11. REPORTS OF TIME WITH CHILDREN



# FIGURE 12. NEGATIVE INFLUENCE OF AGE OF CHILDREN SMALLER FOR TIME WITH CHILDREN THAN PRIMARY CHILD CARE

## Time with Children by Age of Children



# CHILD CARE & 2010 WELL-BEING MODULE

- ⦿ <http://www.pewsocialtrends.org/2013/10/08/parents-time-with-kids-more-rewarding-than-paid-work-and-more-exhausting/>

# LIMITATIONS OF TIME USE MEASURES OF CHILD CARE

- ⦿ Can't produce data on care for specific children
- ⦿ Can't determine quality of time
- ⦿ Affect data for selected activities only
- ⦿ One-day snapshot
  - May not reflect long-term child related time
  - Difficult to model causality

QUESTIONS?