**Supplemental Material: Replication Program Code**

This document contains the Stata code for the Comment “The Single Motherhood Penalty as a Gender Penalty”. It was authored by Susan Harkness and run through LISSY, available at [www.lisdatacenter.org/data-access/lissy/](http://www.lisdatacenter.org/data-access/lissy/) . It uses and adapts the replication program material available at: <https://bradydave.files.wordpress.com/2017/03/demriskreplication2.pdf>

The data are available from the Luxembourg Income Study (LIS). The LIS is accessible with registration through [www.lisdatacenter.org](http://www.lisdatacenter.org). The LIS data may not be downloaded and must be accessed remotely through the LISSY interface (http://www.lisdatacenter.org/data-access/lissy/). LIS registration is free for students, and fee requirements are posted at http://www.lisdatacenter.org/data-access/access-eligibility/ .

Stata Do files can be submitted to LISSY as “jobs”, and results are returned as text only.

\*\* Step 1: Data creation files

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* SH ADDITION

\*\* POVERTY CREATION LOOP ADDED ALL COUNTRIES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*SETUPS\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*

program define setups

\*\*\* select only records if dhi filled

drop if dhi==. | dhi==0

\* select only if there is a weight

drop if hwgt==. | hwgt==0

\* generate mi

generate mi=factor+hitp

\* set equivalence scale as square root of household member

generate ey=(dhi/(nhhmem^0.5))

generate ey\_mi=(mi/(nhhmem^0.5))

\* create person weight as hwgt times number of household member

generate wt=hwgt\*nhhmem

\* create child weight as hwgt times number of household members 17 or younger

generate ct=hwgt\*nhhmem17

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*Bottom and Top Coding\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

program define bottop

setups

quietly sum ey [w=wt]

generate botlin=0.01\*\_result(3)

replace ey=botlin if ey<botlin

quietly sum ey [w=wt], de

generate toplin=10\*\_result(10)

replace ey=(toplin/(nhhmem^0.5)) if ey>toplin

quietly sum ey\_mi [w=wt]

generate botlinmi=0.01\*\_result(3)

replace ey\_mi=botlinmi if ey\_mi<botlinmi

quietly sum ey\_mi [w=wt], de

generate toplinmi=10\*\_result(10)

replace ey\_mi=(toplinmi/(nhhmem^0.5)) if ey\_mi>toplinmi

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*Poverty Lines Equal to 50%, 60% of Median ey\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

program define povl

quietly sum ey [w=wt], de

quietly generate povl2=\_result(10)\*.5

quietly generate povl3=\_result(10)\*.6

quietly sum ey\_mi [w=wt], de

quietly generate povl2mi=\_result(10)\*.5

quietly generate povl3mi=\_result(10)\*.6

end

global c "au10 at10 be00 ca10 ch10 cz10 dk10 ee10 fi10 fr10 de10 gr10 hu09 ie10 il10 it10 is10 jp08 lu10 nl10 no10 pl10 sk10 si10 kr06 es10 se05 uk10 us10"

foreach x of global c {

\*HH file

use did hid nhhmem nhhmem17 dhi hi hitpiha hwgt deflator factor hitp using $`x'h, clear

bottop

povl

keep did hid povl\* ey\* hi ct hitpiha mi hwgt wt deflator

save $mydata/`x'pov, replace

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* BFH PROGRAM

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* Loop for create the country files and put them together

\*\*\* except Switzerland --> nearn has to be calculated by hand \*\*\* except Hungary --> educ has to be recoded

global c "au10 at10 be00 ca10 cz10 dk10 ee10 fi10 fr10 de10 gr10 ie10 il10 it10 is10 jp08 lu10 nl10 no10 pl10 sk10 si10 kr06 es10 se05 uk10 us10"

foreach x of global c {

\*HH file

use $`x'h, clear

drop if dhi==.

drop if dhi==0

drop if hwgt==.

gen multearn=.

replace multearn=0 if nearn==0 | nearn==1

replace multearn=1 if nearn>1 & nearn!=.

gen unemphh=.

replace unemphh=0 if nearn>0 & nearn!=.

replace unemphh=1 if nearn==0

sort hid

keep did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hitsa nearn unemphh multearn

save $mydata/`x'h, replace

\*Person File

use $`x'p, clear

gen head=.

replace head=1 if relation==1000

replace head=0 if relation>1000 & relation!=.

gen spouse=.

replace spouse=1 if relation>=2000&relation<=3000

replace spouse=0 if (relation<2000|relation>3000) & relation!=.

recode sex (1=0)(2=1)(.=.), gen(female)

recode sex (1=1)(2=0)(.=.), gen(male)

sort hid

keep hid pid did year hhmem relation partner children nchildren ageyoch parents age sex immigr yrsresid ethnic\_c educ emp hours secjob inda1 indb1 indc1 sector1 occa1 occb1 ///

pmi pmxit pmxiti ppension pi pil pmil pi pile pmile pils pmils pit pmit pits pmits pitsis pitsisun pmitsisun ptime gross1 educ\_c marital head spouse male female

save $mydata/`x'p, replace

merge m:1 hid using $mydata/`x'h, keepusing (did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hitsa nearn ///

unemphh multearn) keep(match) nogen

\*create variable for lead earner\*

recode pil (.=0)

egen maxinc=max(pil), by(did hid)

gen lead=pil==maxinc

egen maxage=max(age) if lead, by(did hid)

replace lead=0 if age~=maxage

egen numlead = sum(lead), by(did hid)

gen rlead = runiform()

egen maxrlead = max(rlead) if lead, by(did hid)

replace lead = 0 if numlead>1 & rlead<maxrlead

\*create variables for education\*

gen leadeduc\_a=educ\*lead

egen leadeduc=max(leadeduc\_a), by(hid)

recode leadeduc (3=1) (nonmiss=0), gen(highed)

recode leadeduc (1=1)(nonmiss=0), gen(lowed)

gen agelead\_a=age\*lead

egen agelead=max(agelead\_a), by(hid)

gen ageleadsq=agelead^2

\*create family structure variables\*

gen married=.

replace married=0 if marital>=200 & marital!=.

replace married=1 if marital<200 | partner==110

gen marriedhh\_a=married\*head

egen marriedhh=max(marriedhh\_a), by(hid)

recode marriedhh (1=0)(0=1)(.=.), gen(single)

\*\*\* singmom (based on nchildren & ageyoch)

recode nchildren 2/17=1, gen(nchild)

replace nchild=0 if ageyoch>17 & ageyoch!=.

gen sing\_mom\_a=head\*female

gen sing\_mom\_b=sing\_mom\_a\*single

gen sing\_mom\_c=sing\_mom\_b\*nchild

replace sing\_mom\_c=0 if age>54

egen singmom=max(sing\_mom\_c), by(hid)

replace singmom=1 if singmom>1 & singmom!=.

gen sing\_dad\_a=head\*male

gen sing\_dad\_b=sing\_dad\_a\*single

gen sing\_dad\_c=sing\_dad\_b\*nchild

egen singdad =max(sing\_dad\_c), by(hid)

replace singdad=1 if singdad>1 & singdad!=.

gen fhnk\_a=0

replace fhnk\_a=1 if sing\_mom\_b ==1 & nhhmem17==0

egen fhnk=max(fhnk\_a), by(hid)

gen mhnk\_a=0

replace mhnk\_a=1 if sing\_dad\_b ==1 & nhhmem17==0

egen mhnk=max(mhnk\_a), by(hid)

// generate employed couple with kids, 1 earner

g c\_k=head\*married\*nchild

egen ck=max(c\_k), by(hid)

drop c\_k

g ck\_onearner=ck==1 & nearn==1

g ck\_multearn=ck==1&multear==1

g ck\_noear=ck==1&unemph==1

save $mydata/`x', replace

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\* build the Swiss file \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

use $ch10h, clear

drop if dhi==.

drop if dhi==0

drop if hwgt==.

sort hid

keep iso2 did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hitsa nearn

save $mydata/ch10h, replace

\*Person File

use $ch10p, clear

gen head=. // take head as the lead

replace head=1 if relation==1000

replace head=0 if relation>1000 & relation !=.

gen spouse=.

replace spouse=1 if relation>=2000&relation<=3000

replace spouse=0 if (relation<2000|relation>3000) & relation!=.

recode sex (1=0)(2=1)(.=.), gen(female)

recode sex (1=1)(2=0)(.=.), gen(male)

sort hid

keep hid pid did year hhmem relation partner children parents nchildren ageyoch age sex immigr yrsresid ethnic\_c educ emp hours secjob inda1 indb1 indc1 sector1 occa1 occb1 pmi /// pmxit pmxiti ppension pi pil pmil pi pile pmile pils pmils pit pmit pits pmits pitsis pitsisun pmitsisun ptime gross1 educ\_c marital head spouse male female

save $mydata/ch10p, replace

merge m:1 hid using $mydata/ch10h, keepusing (iso2 did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hitsa nearn) keep(match) nogen

egen numemp=sum(emp), by(hid)

replace nearn=numemp

gen multearn=.

replace multearn=0 if nearn==0 | nearn==1

replace multearn=1 if nearn>1 & nearn!=.

gen unemphh=.

replace unemphh=0 if nearn>0 & nearn!=.

replace unemphh=1 if nearn==0

\*create variables for education\*

gen leadeduc\_a=educ\*head

egen leadeduc=max(leadeduc\_a), by(hid)

recode leadeduc (3=1) (nonmiss=0), gen(highed)

recode leadeduc (1=1)(nonmiss=0), gen(lowed)

gen agelead\_a=age\*head

egen agelead=max(agelead\_a), by(hid)

gen ageleadsq=agelead^2

\*create family structure variables\*

gen married=.

replace married=0 if marital>=200 & marital!=.

replace married=1 if marital<200 | partner==110

gen marriedhh\_a=married\*head

egen marriedhh=max(marriedhh\_a), by(hid)

recode marriedhh (1=0)(0=1)(.=.), gen(single)

\*\*\* singmom (based on nchildren & ageyoch)

recode nchildren 2/17=1, gen(nchild)

replace nchild=0 if ageyoch>17 & ageyoch!=.

gen sing\_mom\_a=head\*female

gen sing\_mom\_b=sing\_mom\_a\*single

gen sing\_mom\_c=sing\_mom\_b\*nchild

replace sing\_mom\_c=0 if age>54

egen singmom=max(sing\_mom\_c), by(hid)

replace singmom=1 if singmom>1 & singmom!=.

gen sing\_dad\_a=head\*male

gen sing\_dad\_b=sing\_dad\_a\*single

gen sing\_dad\_c=sing\_dad\_b\*nhhmem17

egen singdad =max(sing\_dad\_c), by(hid)

replace singdad=1 if singdad>1

gen fhnk\_a=0 if female!=. & head!=. & nhhmem17!=.

replace fhnk\_a=1 if sing\_mom\_b ==1 & nhhmem17==0

egen fhnk=max(fhnk\_a), by(hid)

gen mhnk\_a=0 if female!=. & head!=. & nhhmem17!=.

replace mhnk\_a=1 if sing\_dad\_b ==1 & nhhmem17==0

egen mhnk=max(mhnk\_a), by(hid)

// generate employed couple with kids, 1 earner

g c\_k=head\*married\*nchild

egen ck=max(c\_k), by(hid)

drop c\_k

g ck\_onearner=ck==1 & nearn==1

g ck\_multearn=ck==1&multear==1

g ck\_noear=ck==1&unemph==1

save $mydata/ch10, replace

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\* HUNGARY \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

use $hu09h, clear

drop if dhi==.

drop if dhi==0

drop if hwgt==.

sort hid

keep iso2 did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 ey hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hxit hitsa nearn

save $mydata/hu09h, replace

\*Person File

use $hu09p, clear

gen head=. // take head as the lead

replace head=1 if relation==1000

replace head=0 if relation>1000 & relation !=.

gen spouse=.

replace spouse=1 if relation>=2000&relation<=3000

replace spouse=0 if (relation<2000|relation>3000) & relation!=.

recode sex (1=0)(2=1)(.=.), gen(female)

recode sex (1=1)(2=0)(.=.), gen(male)

sort hid

keep hid pid did year hhmem relation parents partner children nchildren ageyoch age sex immigr yrsresid ethnic\_c educ emp hours secjob inda1 indb1 indc1 sector1 occa1 occb1 pmi ///

pmxit pmxiti ppension pi pil pmil pi pile pmile pils pmils pit pmit pits pmits pitsis pitsisun pmitsisun ptime gross1 educ\_c marital head spouse male female

save $mydata/hu09p, replace

merge m:1 hid using $mydata/hu09h, keepusing (iso2 did year hid hwgt nhhmem hhtype nhhmem65 nhhmem17 hi hil hile hic hicid hit dhi hpartner hitp hits hitsi hitsu hitsa nearn ) keep(match) nogen

egen numemp=sum(emp), by(hid)

replace nearn=numemp

gen multearn=.

replace multearn=0 if nearn==0 | nearn==1

replace multearn=1 if nearn>1 & nearn!=.

gen unemphh=.

replace unemphh=0 if nearn>0 & nearn!=.

replace unemphh=1 if nearn==0

\*create variables for education\*

recode educ 9=2, gen(edu)

tab edu educ,m

gen leadeduc\_a=edu\*head

egen leadeduc=max(leadeduc\_a), by(hid)

recode leadeduc (3=1) (nonmiss=0), gen(highed)

recode leadeduc (1=1)(nonmiss=0), gen(lowed)

gen agelead\_a=age\*head

egen agelead=max(agelead\_a), by(hid)

gen ageleadsq=agelead^2

\*create family structure variables\*

gen married=.

replace married=0 if marital>=200 & marital!=.

replace married=1 if marital<200 | partner==110

gen marriedhh\_a=married\*head

egen marriedhh=max(marriedhh\_a), by(hid)

recode marriedhh (1=0)(0=1)(.=.), gen(single)

\*\*\* singmom (based on nchildren & ageyoch)

recode nchildren 2/17=1, gen(nchild)

replace nchild=0 if ageyoch>17 & ageyoch!=.

gen sing\_mom\_a=head\*female

gen sing\_mom\_b=sing\_mom\_a\*single

gen sing\_mom\_c=sing\_mom\_b\*nchild

replace sing\_mom\_c=0 if age>54

egen singmom=max(sing\_mom\_c), by(hid)

replace singmom=1 if singmom>1 & singmom!=.

gen sing\_dad\_a=head\*male

gen sing\_dad\_b=sing\_dad\_a\*single

gen sing\_dad\_c=sing\_dad\_b\*nhhmem17

egen singdad =max(sing\_dad\_c), by(hid)

replace singdad=1 if singdad>1

gen fhnk\_a=0 if female!=. & head!=. & nhhmem17!=.

replace fhnk\_a=1 if sing\_mom\_b ==1 & nhhmem17==0

egen fhnk=max(fhnk\_a), by(hid)

gen mhnk\_a=0 if female!=. & head!=. & nhhmem17!=.

replace mhnk\_a=1 if sing\_dad\_b ==1 & nhhmem17==0

egen mhnk=max(mhnk\_a), by(hid)

// generate employed couple with kids, 1 earner

g c\_k=head\*married\*nchild

egen ck=max(c\_k), by(hid)

drop c\_k

g ck\_onearner=ck==1 & nearn==1

g ck\_multearn=ck==1&multear==1

g ck\_noear=ck==1&unemph==1

save $mydata/hu09, replace

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\* append country files \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

global d "at10 be00 ca10 ch10 cz10 dk10 ee10 fi10 fr10 de10 gr10 hu09 ie10 il10 it10 is10 jp08 lu10 nl10 no10 pl10 sk10 si10 kr06 es10 se05 uk10 us10"

use $mydata/au10, clear

foreach x of global d {

append using "$mydata/`x'"

}

save $mydata/prevpen\_AJS\_CA, replace

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* SH ADDITION

\*\* MERGE IN POVERTY LINES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* FIRST APPEND POVERTY FILES

global d "at10 be00 ca10 ch10 cz10 dk10 ee10 fi10 fr10 de10 gr10 hu09 ie10 il10 it10 is10 jp08 lu10 nl10 no10 pl10 sk10 si10 kr06 es10 se05 uk10 us10"

use $mydata/au10pov, clear

foreach x of global d {

append using "$mydata/`x'pov"

}

save $mydata/prevpen\_AJS\_CApov, replace

\*\* MERGE

merge 1:m did hid using $mydata/prevpen\_AJS\_CA

drop \_merge

su ct wt hgwt

save $mydata/prevpen\_AJS\_CA, replace

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* BFH FILES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\* create some variables

\*\*\* lead age groups

gen leadu25=0

replace leadu25=1 if agelead<25 & agelead~=.

gen lead2534=0

replace lead2534=1 if agelead>24 & agelead<35

gen leado54=0

replace leado54=1 if agelead>54 & agelead~=.

\*\*\*\* alternative age definition: bottom third= young

egen young3\_a=cut(agelead), group(3)

recode young3\_a 1 2=0 0=1, gen(young3)

\*\*\* sample year: pre or post 2008 --> economic crisis

gen post08=.

replace post08=0 if year<2007

replace post08=1 if year>2007

\*\*\*\* poverty

gen thresh=did

recode thresh (140=336345.5) (190=94738) (192=8348163) (208=22630) (209=521137.5) (210=10077) ///

(235=7578) (237=7107) (240=8326) (241=6525) (245=1472827) (247=20998) (251=3798.5) ///

(252=10140.5) (253=11160) (255=12025) (256=18237.5) (259=35180.5) (261=6451.5) ///

(265=11122.5) (267=159122.5) (269=10716) (271=49670) (274=18356) (278=115334) ///

(287=1781922) (289=109964) (293=632750) (295=10510.5) (300=15977.5)

tab did thresh

gen poor5=.

replace poor5=0 if ey>=thresh & ey!=.

replace poor5=1 if ey<thresh

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* SH ADDITION - POVERTY VARIABLES ADDED FROM WITHIN PROGRAMME POV LINE

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

gen poor5dpi=.

replace poor5dpi=0 if ey>=povl2 & ey!=.

replace poor5dpi=1 if ey<povl2

gen poor6dpi=.

replace poor6dpi=0 if ey>=povl3 & ey!=.

replace poor6dpi=1 if ey<povl3

gen poor5mi=.

replace poor5mi=0 if ey\_mi>=povl2mi & ey\_mi!=.

replace poor5mi=1 if ey\_mi<povl2mi

gen poor6mi=.

replace poor6mi=0 if ey\_mi>=povl3mi & ey\_mi!=.

replace poor6mi=1 if ey\_mi<povl3mi

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* SH ADDITION - EXTRA VARIABLES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// SINGLE MUM OR DAD INCLUDING NON-HEAD

rename single singlehh /\* from Brady - single based on HOH \*/

recode married (0=1) (1=0), g(single)

// note Brady definition of NCHILD is for individual (based nchildren and ageyoch)

gen kidshh=nhhmem17>0 if nhhmem17<.

\*\*\* singmom (based on nchildren & ageyoch)

g notheadspou=head==0&spouse==0

gen sing\_mom\_hidden1=nothead\*female

gen sing\_mom\_hidden2=sing\_mom\_hidden1\*single

gen sing\_mom\_hidden3=sing\_mom\_hidden1\*single\*nchild

replace sing\_mom\_hidden3=0 if age>54

egen sing\_mom\_hidden=max(sing\_mom\_hidden3), by(did hid)

replace sing\_mom\_hidden=0 if singmom==1

replace sing\_mom\_hidden=0 if age>54|age<17

egen singmomhidden=max(sing\_mom\_hidden), by(did hid)

replace singmomhidden=1 if singmomhidden>1 & singmomhidden!=.

gen sing\_dad\_hidden1=nothead\*male

gen sing\_dad\_hidden2=sing\_dad\_hidden1\*single

gen sing\_dad\_hidden3=sing\_dad\_hidden1\*single\*nchild

egen sing\_dad\_hidden=max(sing\_dad\_hidden3), by(did hid)

replace sing\_dad\_hidden=0 if singdad==1

replace sing\_dad\_hidden=0 if age<17

egen singdadhidden=max(sing\_dad\_hidden), by(did hid)

replace singdadhidden=1 if singdadhidden>1 & singdadhidden!=.

gen singmomall=singmom

replace singmomall=1 if singmomhidden==1

gen singdadall=singdad

replace singdadall=1 if singdadhidden==1

drop sing\_\*

// OTHER FAMILY STRUCTURE VARIABLES

// note married is married or living with partner

g nochild=nchild==0

g c\_k=nchild\*married

egen ck=max(c\_k), by(did hid)

g c\_nk=nochild\*married

egen cnk=max(c\_nk), by(did hid)

g s\_k=nchild\*single

egen sk=max(s\_k), by(did hid)

g s\_nk=nochild\*single

egen snk=max(s\_nk), by(did hid)

g coreside=0

replace coreside=1 if singmomall==1&singmom==0

replace coreside=1 if singmom==1 & parents==1

label define did 140 "BE00" 190 "SE05" 192 "KR06" 208 "CH10" 209 "HUN09" 210 "AT10" 229 "US10" 235 "IT10" 237 "ES10" 240 "UK10" 241 "GR10" 245 "JPN08" 247 "AU10" 251 "SK10" ///

252 "DE10" 253 "IE10" 255 "FI10" 256 "LU10" 259 "IL10" 261 "SI10" 265 "NL10" 267 "NO10" 269 "PL10" 271 "EE10" 273 "AT10" 274 "CA10" 278 "DK10" 287 "IS10" 289 "CZE10" ///

293 "HU09" 295 "FRA10" 300 "US10" 361 "ch10"

label values did did

tab did

save $mydata/prevpen\_AJS\_CA, replace

\*/

u $mydata/prevpen\_AJS\_CA, replace

// NOTE – zero individuals coded as single mums in South Korea, dropped

drop if did==192

tab did deflator

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* PREVALENCE

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

g singall=singmomall==1|singdadall==1

// Households

table did if agelead<65 [aw=hw], c(mean singmom mean singmomhidden mean singmomall mean singdadall ) f(%9.3f)

// Individuals

table did if age<65 [aw=wt], c(mean singmom mean singmomhidden mean singmomall mean singdadall) f(%9.3f)

// KIDS

table did [aw=ct], c(mean singmom mean singmomhidden mean singmomall mean singdadall ) f(%9.3f)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* NON-EMPLOYMENT MODELS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress unemphh leadu25 lead2534 leado54 singmomall singdadall coreside fhnk mhnk nhhmem17 nhhmem65 lowed highed [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265 m267, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* PENALTIES \*\*

ADJUSTMENT 1: BFH MODEL REPLICATION (see footnote 4)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress poor5dpi leadu25 lead2534 leado54 singmom fhnk mhnk nhhmem17 nhhmem65 lowed highed unemphh multearn [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265 m267, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ADJUSTMENT 2:

// INCLUDE ALL SINGLE MOMS (AND CO-RESIDENT CONTROL) AND SINGLE DADS

// REMOVE MULTIPLE EARNER CONTROL (RETAIN NONEMPLOYED HH)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress poor5dpi leadu25 lead2534 leado54 singmomall singdadall coreside fhnk mhnk nhhmem17 nhhmem65 lowed highed unemphh [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m267 m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ADJUSTMENT 3:

// AS ADJUSTMENT 2 BUT WITHOUT NONEMPLOYMENT CONTROLS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress poor5dpi leadu25 lead2534 leado54 singmomall singdadall coreside fhnk mhnk nhhmem17 nhhmem65 lowed highed [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m267 m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// Penalties w/ poverty at 60% of median income

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* PENALTIES 1: BFH MODEL REPLICAITON

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress poor6dpi leadu25 lead2534 leado54 singmom fhnk mhnk nhhmem17 nhhmem65 lowed highed unemphh multearn [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* multe ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265 m267, keep(sing\* multe) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* multe) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ADJUSTMENT 2:

// INCLUDE ALL SINGLE MOMS (AND CO-RESIDENT CONTROL) AND SINGLE DADS

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levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

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estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265 m267, keep(sing\*) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ADJUSTMENT 3:

// AS ADJUSTMENT 2 BUT WITHOUT NONEMPLOYMENT CONTROLS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

levelsof did, local(countries)

foreach i of local countries {

// estimating penalties with coefficients from linear probability models

di "did = `i'"

quietly regress poor6dpi leadu25 lead2534 leado54 singmomall singdadall coreside fhnk mhnk nhhmem17 nhhmem65 lowed highed [pw=hwgt] if agelead<65 & did==`i' , cluster(hid)

estimates store m`i'

}

estout m140 m190 m229 m235 m237 m240 m241 m245 , keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m247 m251 m252 m253 m255 m256 m259 m261 m265 m267, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

estout m269 m271 m273 m274 m278 m287 m289 m293 m295 m361, keep(sing\* ) cells(b(fmt(3)) se(fmt(3)) ci(fmt(3)) \_star) style(fixed)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* APPENDIX TABLES - SHARE of single moms, dads, multiple earner households, etc.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// Households

g oneear=nearn==1 & nearn<.

g multearnx=nearn>1&nearn<.

g singmomwork=singmomall\*oneear

g singdadwork=singdadall\*oneear

tab emp

gen ck\_mbw\_a=1 if ck==1&male==1&nearn==1 &emp==1

replace ck\_mbw\_a=0 if ck!=1|male!=1|nearn!=1 |emp!=1

egen ck\_mbw=max(ck\_mbw\_a), by(did hid)

gen ck\_fbw\_a=1 if ck==1&female==1&nearn==1 &emp==1

replace ck\_fbw\_a=0 if ck!=1|female!=1|nearn!=1 !emp!=1

egen ck\_fbw=max(ck\_fbw\_a), by(did hid)

table did if agelead<65, c(mean unemphh mean oneear mean multearnx n nearn) f(%9.3f)

table did if agelead<65 [aw=hw], c(mean singmomall mean singmomwork mean singdadall mean singdadwork ) f(%9.3f)

table did if agelead<65 [aw=hw], c(mean ck mean ck\_no mean ck\_one mean ck\_mul ) f(%9.3f)

table did if agelead<65 [aw=hw], c(mean ck\_mbw mean ck\_fbw ) f(%9.3f)

table did if agelead<65 , c(n singmomall ) f(%9.3f)

table did if agelead<65&singmomall==1 , c(n singmomall ) f(%9.3f)

table did if agelead<65&singdadall==1 , c(n singmomall ) f(%9.3f)

table did if agelead<65 [aw=hw], c(mean singmomall mean singmomwork mean singdadall mean singdadwork ) f(%9.3f)

table did if agelead<65 [aw=hw], c(mean ck mean ck\_no mean ck\_one mean ck\_mul ) f(%9.3f)

table did if agelead<65&oneea==1 , c(n singmomall ) f(%9.3f)

table did if agelead<65&ck\_one==1 , c(n singmomall ) f(%9.3f)