```
*=====================================================================*
*  Replication code: "What Goes Around, Comes Around: Childhood     *
*  Relationship with Parents and Later-Life Caregiving Decisions"    *
*                                                                     *
*  Data: SHARE Wave 8 (Release 9.0.0), SHARELIFE (Waves 3 and 7).    *
*  Before running: merge the required SHARE modules (dn, sp, ft,     *
*  sn, cc/SHARELIFE, ep, co, gv_isced, gv_weights) into a single     *
*  respondent-level dataset and load it. Set the working directory   *
*  to the folder where output files should be written.               *
*                                                                     *
*  Required user-written packages:                                    *
*    ssc install estout                                               *
*    ssc install boottest                                             *
*  Software: Stata 19.                                                *
*  Weight: cciw_w8_main (calibrated cross-sectional, Wave 8).         *
*=====================================================================*

**#Merging of data needed before the start

*at least one parent alive
gen Alive_parent=0
replace Alive_parent=. if dn026_1==.|dn026_2==.
replace Alive_parent=. if dn026_1<0|dn026_2<0
replace Alive_parent=1 if dn026_1==1|dn026_2==1
label def Alive_parent 1 "Yes" 0"No"
label val Alive_parent Alive_parent
label var Alive_parent "Alive parent"

*Parent(s) in poor health
gen Poor_health_parent=0
replace Poor_health_parent=. if Alive_parent==0
```

```
replace Poor_health_parent=1 if dn033_1==5|dn033_2==5
replace Poor_health_parent=. if dn033_1<0&dn033_2<0
label def Poor_health_parent 1 "Yes" 0"No"
label val Poor_health_parent Poor_health_parent
label var Poor_health_parent "Any parent in poor health"

*Distance to closest parent(s)
gen Distance_parents=0
replace Distance_parents=2 if (dn030_1<5&dn030_1>0)|(dn030_2<5&dn030_2>0)
replace Distance_parents=1 if (dn030_1<3&dn030_1>0)|(dn030_2<3&dn030_2>0)
replace Distance_parents=. if dn030_1<0&dn030_2<0
replace Distance_parents=. if Alive_parent==0
label def Distance_parents 0"More than 5km away" 2"Up to 5km away" 1"In the same building"
label val Distance_parents Distance_parents
label var Distance_parents "How far closest parent(s) live"

*Sibling alive
gen Sibling=0
replace Sibling=. if dn036_<0&dn037_<0
replace Sibling=1 if dn036_>0|dn037_>0
label def Sibling 0 "No" 1"Yes"
label val Sibling Sibling
label var Sibling "Have alive sibling"

*Gift worth at least 250€ to parents
gen Gift250_to_parents=0
forval i=1/3 {
replace Gift250_to_parents=. if  Ft003_`i'<0
replace Gift250_to_parents=1 if Ft003_`i'==2|Ft003_`i'==3 |Ft003_`i'==6 |Ft003_`i'==7
}
```

```
*Gift worth at least 250€ from parents

gen Gift250_from_parents=0

forval i=1/3 {

replace Gift250_from_parents=. if Ft010_`i'<0

replace Gift250_from_parents=1 if Ft010_`i'==2|Ft010_`i'==3 |Ft010_`i'==6 |Ft010_`i'==7

}




gen Regime=0

replace Regime=1 if  country==13|country==18|country==55

replace Regime=2 if  country==15|country==16|country==19|country==33|
country==47|country==53|country==59|country==25

replace Regime=3 if country==28|country==29 |country==32|country==34 |country==35
|country==48 |country==51|country==57|country==61|country==63

replace Regime=4 if
country==11|country==12|country==14|country==17|country==20|country==23|country==31

label def Regime 1"Social democratic" 2"Mediterranean" 3"Eastern European" 4"Continental"

label val Regime Regime

label var Regime "Welfare Regime"




*Marital status


gen Married=0

replace Married=1 if dn014_<4&dn014_>0

label def Married 0"Not married" 1"Married"

label val Married Married

label var Married "Married"

replace Married=. if missing(dn014_)

replace Married=. if dn014_<0
```

```
*Gender


gen Female=0

replace Female=1 if dn042_==2

label def Female 0 "Male" 1"Female"

label val Female Female

label var Female "Female"


*Age (survey year 2020); see https://share-eric.eu/data/data-documentation/waves-overview/wave-8

gen Age=2020-dn003_

gen Age_group=Age

recode Age_group 0/49=0 50/54=1 55/59=2 60/64=3 65/69=4 70/74=5 75/79=6 80/200=7

label def Age_group 0"<50" 1"50-54" 2"55-59" 3 "60-64" 4 "65-69"  5"70-74" 6"75-79" 7"80+"

label val Age_group Age_group

label var Age_group "Age group"


*Education*

gen Education=isced1997_r

recode Education 0/2=1 3/4=2 5/6=3

label def Education 1"Low" 2 "Medium" 3 "High"

label val Education Education

label var Education "Education"

replace Education=. if Education<0|Education>50


*zaposlen*

gen Employed=0

replace Employed=1 if ep005_==2

replace Employed=. if ep005_<0|ep005_==.
```

```
*Health*
gen In_poor_health=0
replace In_poor_health=1 if sphus==5
replace In_poor_health=. if sphus==.|sphus<0



gen Education_m=isced1997_m
recode Education_m 0/2=1 3/4=2 5/6=3
label def Education_m 1"Low" 2 "Medium" 3 "High"
label val Education_m Education_m
label var Education_m "Education_m"
replace Education_m=. if Education_m<0|Education_m>50

gen Education_f=isced1997_f
recode Education_f 0/2=1 3/4=2 5/6=3
label def Education_f 1"Low" 2 "Medium" 3 "High"
label val Education_f Education_f
label var Education_f "Education_f"
replace Education_f=. if Education_f<0|Education_f>50


gen Help_from_parents=0
forval i=1/3 {
replace Help_from_parents=1 if sp003_`i'<8&sp003_`i'!=1
replace Help_from_parents=. if sp003_`i'<0
}
```

```
gen Close_with_parents=0

forval i=1/7 {

replace Close_with_parents=1 if (sn005_`i'==2|sn005_`i'==3 |
sn005_`i'==6|sn005_`i'==7)&sn009_`i'>2

replace Close_with_parents=. if sn005_`i'<0

}



gen Unexpected_expense=0

replace Unexpected_expense=1 if co206_==1

replace Unexpected_expense=. if co206_<0|co206_==.

bys hhid8: egen Household_unexpected_expense=max(Unexpected_expense)


gen Both_alive=Alive_parent_cat

replace Both_alive=0 if Alive_parent_cat!=3

replace Both_alive=1 if Alive_parent_cat==3



gen mother_intensity=.

forval i=1/3 {

replace mother_intensity=sp011_`i' if sp009_`i'==2

}

replace mother_intensity=. if mother_intensity<0


gen father_intensity=.

forval i=1/3 {

replace father_intensity=sp011_`i' if sp009_`i'==3

}

replace father_intensity=. if father_intensity<0


gen stmother_intensity=.
```

```
forval i=1/3 {
replace stmother_intensity=sp011_`i' if sp009_`i'==6
}
replace stmother_intensity=. if stmother_intensity<0

gen stfather_intensity=.
forval i=1/3 {
replace stfather_intensity=sp011_`i' if sp009_`i'==7
}
replace stfather_intensity=. if stfather_intensity<0



egen parent_intensity = rowmin(mother_intensity father_intensity  stmother_intensity stfather_intensity)
replace parent_intensity=5 if Alive_parent==1&parent_intensity==.

gen Daily_parents=0
forval i=1/3 {
replace Daily_parents=1 if (sp009_`i'==2|sp009_`i'==3|sp009_`i'==6|sp009_`i'==7)&sp011_`i'==1
replace Daily_parents=. if (sp009_`i'==2|sp009_`i'==3|sp009_`i'==6|sp009_`i'==7)&sp011_`i'<0
replace Daily_parents=. if sp008_==.|sp008_<0
}


gen Daily_m=0
forval i=1/3 {
replace Daily_m=1 if (sp009_`i'==2|sp009_`i'==6)&sp011_`i'==1
replace Daily_m=. if (sp009_`i'==2|sp009_`i'==6)&sp011_`i'<0
replace Daily_m=. if sp008_==.|sp008_<0
}
```

```
gen Daily_f=0
forval i=1/3 {
replace Daily_f=1 if (sp009_`i'==3|sp009_`i'==7)&sp011_`i'==1
replace Daily_f=. if (sp009_`i'==3|sp009_`i'==7)&sp011_`i'<0
replace Daily_f=. if sp008_==.|sp008_<0
}

gen Any_parents=0
forval i=1/3 {
replace Any_parents=1 if (sp009_`i'==2|sp009_`i'==3|sp009_`i'==6|sp009_`i'==7)
replace Any_parents=. if sp008_==.|sp008_<0
}

gen Any_mother=0
forval i=1/3 {
replace Any_mother=1 if (sp009_`i'==2|sp009_`i'==6)
replace Any_mother=. if sp008_==.|sp008_<0
}


gen Any_father=0
forval i=1/3 {
replace Any_father=1 if (sp009_`i'==3|sp009_`i'==7)
replace Any_father=. if sp008_==.|sp008_<0
}


gen Daily_parents_all=0
forval i=2/5 {
```

```
replace Daily_parents_all=1 if (sp019d`i'==1)

replace Daily_parents_all=. if sp018_==.|sp018_<0

replace Daily_parents_all=0 if (sp019d4==1|sp019d5==1)&(sp019d2==0&sp019d3==0)

replace Daily_parents_all=1 if Daily_parents==1

}



gen mother_relation=cc722_1

replace mother_relation=. if cc722_1==.|cc722_1<0


gen father_relation=cc722_2

replace father_relation=. if cc722_2==.|cc722_2<0

recode mother_relation (1=5)(2=4)(3=3)(4=2)(5=1), gen(mother_rel)

recode father_relation (1=5)(2=4)(3=3)(4=2)(5=1), gen(father_rel)

label define relL 1 "Poor" 2 "Fair" 3 "Good" 4 "Very good" 5 "Excellent"

label values mother_rel father_rel relL

recode mother_rel (1 2 = 1 "Poor/Fair")(3 = 2 "Good")(4 = 3 "Very good")(5 = 4 "Excellent"),
gen(mother_rel4)

recode father_rel (1 2 = 1 "Poor/Fair")(3 = 2 "Good")(4 = 3 "Very good")(5 = 4 "Excellent"),
gen(father_rel4)


gen majka=cc722_1

gen otac=cc722_2

replace majka=. if cc722_1<0|cc722_2<0

replace otac=. if cc722_2<0|cc722_1<0

replace otac=0 if otac==.&majka!=.

replace majka=0 if majka==.&otac!=.


gen childhood=majka+otac

replace childhood=childhood*2 if otac==.|majka==.

replace childhood=. if childhood==0
```

```
recode childhood 2/3=1 4/5=2 6/7=3 8/9=4 10=5
label def childhood 1"E" 2 "VG" 3 "G" 4 "F" 5 "P"
label val childhood childhood


gen childhood_new=(majka+otac)
replace childhood_new=childhood_new/2 if (otac!=0&majka!=0)
replace childhood_new=. if childhood_new==0
recode childhood_new 1/1.9=1 2/2.9=2 3/3.9=3 4/4.9=4 5=5
label def childhood_new 1"E" 2 "VG" 3 "G" 4 "F" 5 "P"
label val childhood_new childhood_new

*ssc install asdoc
*ssc install reghdfe

gen childhood_con=(majka+otac)
replace childhood_con=childhood_new/2 if (otac!=0&majka!=0)
replace childhood_con=. if childhood_con==0

gen relation=childhood_new
replace relation=1 if childhood_new==5
replace relation=2 if childhood_new==4
replace relation=3 if childhood_new==3
replace relation=4 if childhood_new==2
replace relation=5 if childhood_new==1
label def relation 1"P" 2 "F" 3 "G" 4 "VG" 5 "E"
label val relation relation


*****1.63 EU average****
gen ltc_gdp_2019=0
```

```
replace ltc_gdp_2019= 1.52 if country==11
replace ltc_gdp_2019= 2.52 if country==23
replace ltc_gdp_2019= 0.01 if country==51
replace ltc_gdp_2019= 0.21 if country==47
replace ltc_gdp_2019= 0.29 if country==53
replace ltc_gdp_2019= 1 if country==28
replace ltc_gdp_2019= 1.3 if country==25
replace ltc_gdp_2019= 2.17 if country==18
replace ltc_gdp_2019= 0.62 if country==35
replace ltc_gdp_2019= 1.60 if country==55
replace ltc_gdp_2019= 1.76 if country==17
replace ltc_gdp_2019= 2.23 if country==12
replace ltc_gdp_2019= 0.13 if country==19
replace ltc_gdp_2019= 0.28 if country==32
replace ltc_gdp_2019= 1.43 if country==30
replace ltc_gdp_2019= 0.92 if country==16
replace ltc_gdp_2019= 0.34 if country==57
replace ltc_gdp_2019= 0.52 if country==48
replace ltc_gdp_2019= 1.03 if country==31
replace ltc_gdp_2019= 1.67 if country==59
replace ltc_gdp_2019= 2.77 if country==14
replace ltc_gdp_2019= 0.43 if country==29
replace ltc_gdp_2019= 0.45 if country==33
replace ltc_gdp_2019= 0.32 if country==61
replace ltc_gdp_2019= 0.03 if country==63
replace ltc_gdp_2019= 0.87 if country==34
replace ltc_gdp_2019= 0.99 if country==15
replace ltc_gdp_2019= 2.97 if country==13
replace ltc_gdp_2019= 2.44 if country==20

preserve
```

```
    bysort country: keep if _n==1        // one row per country
    xtile ltc_q_tmp = ltc_gdp_2019, nq(4)  // quartiles across countries
    keep country ltc_q_tmp
    tempfile ltcq
    save `ltcq'
restore

merge m:1 country using `ltcq', nogen
gen ltc_q = ltc_q_tmp
drop ltc_q_tmp

label define ltcqL 1 "Q1 (lowest LTC)" 2 "Q2" 3 "Q3" 4 "Q4 (highest LTC)"
label values ltc_q ltcqL
label variable ltc_q "LTC expenditure quartile (country-level)"

summarize(ltc_gdp_2019)

gen more_avg=0
replace more_avg=1 if ltc_gdp_2019>1.63



gen care_scale = 1 if parent_intensity==4    // less often
replace care_scale = 2 if parent_intensity==3 // monthly
replace care_scale = 3 if parent_intensity==2 // tjedno
replace care_scale = 4 if parent_intensity==1 // svakodnevno
replace care_scale = 0 if care_scale==.&Alive_parent==1 // ostaje 0
label define csL 0 "No care" 1 "Less often" 2 "Monthly" 3 "Weekly" 4 "Daily"
label values care_scale csL



recode relation (1 2 = 1 "Poor/Fair")(3=2 "Good")(4=3 "Very good")(5=4 "Excellent"), gen(rel4)
```

```
glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents  Gift250_from_parents

logit Any_parents $X  [pweight=cciw_w8_main], vce(cluster country)
gen check = e(sample)

logit Daily_parents $X  [pweight=cciw_w8_main], vce(cluster country)

gen check_daily = e(sample)

**#Descriptive

preserve
keep if check==1

tab Any_parents
tab Daily_parents

tab Any_parents Age_group [aweight=cciw_w8_main], row
tab Daily_parents Age_group [aweight=cciw_w8_main], row

tab Any_parents Regime [aweight=cciw_w8_main], row
tab Daily_parents Regime [aweight=cciw_w8_main], row

tab Any_parents Female [aweight=cciw_w8_main], row
tab Daily_parents Female [aweight=cciw_w8_main], row

tab Any_parents Married [aweight=cciw_w8_main], row
```

```
tab Daily_parents Married [aweight=cciw_w8_main], row

tab Any_parents Education [aweight=cciw_w8_main], row
tab Daily_parents Education [aweight=cciw_w8_main], row

tab Any_parents Employed [aweight=cciw_w8_main], row
tab Daily_parents Employed [aweight=cciw_w8_main], row

tab Any_parents In_poor_health [aweight=cciw_w8_main], row
tab Daily_parents In_poor_health [aweight=cciw_w8_main], row

tab Any_parents Sibling [aweight=cciw_w8_main], row
tab Daily_parents Sibling [aweight=cciw_w8_main], row

tab Any_parents Poor_health_parent [aweight=cciw_w8_main], row
tab Daily_parents Poor_health_parent [aweight=cciw_w8_main], row

tab Any_parents Both_alive [aweight=cciw_w8_main], row
tab Daily_parents Both_alive [aweight=cciw_w8_main], row

tab Any_parents Distance_parents [aweight=cciw_w8_main], row
tab Daily_parents Distance_parents [aweight=cciw_w8_main], row

tab Any_parents rel4 [aweight=cciw_w8_main], row
tab Daily_parents rel4 [aweight=cciw_w8_main], row

tab Any_parents Help_from_parents [aweight=cciw_w8_main], row
tab Daily_parents Help_from_parents [aweight=cciw_w8_main], row

tab Any_parents Close_with_parents [aweight=cciw_w8_main], row
tab Daily_parents Close_with_parents [aweight=cciw_w8_main], row
```

```
tab Any_parents Household_unexpected_expense [aweight=cciw_w8_main], row
tab Daily_parents Household_unexpected_expense [aweight=cciw_w8_main], row

tab Any_parents Gift250_to_parents [aweight=cciw_w8_main], row
tab Daily_parents Gift250_to_parents [aweight=cciw_w8_main], row

tab Any_parents Gift250_from_parents [aweight=cciw_w8_main], row
tab Daily_parents Gift250_from_parents [aweight=cciw_w8_main], row
restore


preserve
keep if check==1

* --- weighted proportions + SE, by regime ---
collapse (mean) m_any=Any_parents m_daily=Daily_parents ///
    (semean) se_any=Any_parents se_daily=Daily_parents ///
    [aweight=cciw_w8_main], by(Regime)
tempfile byreg
save `byreg'
restore

preserve
keep if check==1

* --- Overall red  ---
collapse (mean) m_any=Any_parents m_daily=Daily_parents ///
    (semean) se_any=Any_parents se_daily=Daily_parents ///
    [aweight=cciw_w8_main]
gen Regime = 0
```

```
append using `byreg'
sort Regime

* --- u postotke + CI granice ---
foreach m in any daily {
   replace m_`m'  = m_`m'*100
   replace se_`m' = se_`m'*100
   gen lo_`m' = m_`m' - 1.96*se_`m'
   gen hi_`m' = m_`m' + 1.96*se_`m'
}


gen xpos  = Regime*10 + 1
gen xpos2 = xpos + 3

twoway ///
   (bar  m_any   xpos,          barwidth(2.3) color(gs5)) ///
   (rcap hi_any  lo_any  xpos,   lcolor(black)) ///
   (bar  m_daily  xpos2,         barwidth(2.3) color(gs11)) ///
   (rcap hi_daily lo_daily xpos2,  lcolor(black)) ///
   , legend(order(1 "Any care" 3 "Daily care") rows(1) position(6)) ///
     ytitle("% providing care") ///
     yscale(range(0 55)) ylabel(0(10)50) ///
     xlabel(2.5 "Overall" 12.5 "Social Dem." 22.5 "Mediterranean" ///
          32.5 "Eastern Eur." 42.5 "Continental", noticks) ///
     xtitle("") graphregion(color(white)) ///

graph export "figure1.png", replace width(2000)
restore
```

```
preserve
keep if check==1
collapse (mean) m=relation (semean) se=relation [aweight=cciw_w8_main], ///
   by(Regime Any_parents)
gen lo = m - 1.96*se
gen hi = m + 1.96*se



gen xpos = Regime*10 + Any_parents*3


twoway ///
   (bar m xpos if Any_parents==0, barwidth(2.5) color(gs11)) ///
   (bar m xpos if Any_parents==1, barwidth(2.5) color(gs5)) ///
   (rcap hi lo xpos, lcolor(black)) ///
   , legend(order(1 "Non-carers" 2 "Carers") rows(1) position(6)) ///
   title("Any care") ///
          ytitle("Mean childhood relationship quality (1–5)") ///
   yscale(range(3 4.4)) ylabel(3(0.2)4.4) ///
   xlabel(11.5 "Social Dem." 21.5 "Mediterranean" 31.5 "Eastern Eur." 41.5 "Continental", noticks)
///
   xtitle("") graphregion(color(white))


graph export "figure2_any.png", replace width(2000)


restore



preserve
keep if check==1
collapse (mean) m=relation (semean) se=relation [aweight=cciw_w8_main], ///
   by(Regime Daily_parents)
```

```
gen lo = m - 1.96*se
gen hi = m + 1.96*se

gen xpos = Regime*10 + Daily_parents*3

twoway ///
   (bar m xpos if Daily_parents==0, barwidth(2.5) color(gs11)) ///
   (bar m xpos if Daily_parents==1, barwidth(2.5) color(gs5)) ///
   (rcap hi lo xpos, lcolor(black)) ///
   , legend(order(1 "Not daily carers" 2 "Daily carers") rows(1) position(6)) ///
           title("Daily care") ///
   ytitle("Mean childhood relationship quality (1–5)") ///
   yscale(range(3 4.4)) ylabel(3(0.2)4.4) ///
   xlabel(11.5 "Social Dem." 21.5 "Mediterranean" 31.5 "Eastern Eur." 41.5 "Continental", noticks)
///
   xtitle("") graphregion(color(white))

graph export "figure2_daily.png", replace width(2000)

restore

**#Differences between groups

preserve
keep if check==1

local vars Age_group Regime Female Married Education Employed ///
   In_poor_health Sibling Poor_health_parent Both_alive ///
```

```
   Distance_parents rel4 Help_from_parents Close_with_parents ///
   Household_unexpected_expense Gift250_to_parents Gift250_from_parents

*=== ispis hi-kvadrata + skupljanje p-vrijednosti u tablicu ========*
local n : word count `vars'
matrix P = J(`n', 2, .)
local rown ""
local i = 1

foreach v of local vars {
   di _n as txt "===== `v' ====="
   * ANY care:
   tab `v' Any_parents, chi2 nofreq
   matrix P[`i',1] = r(p)
   * DAILY care:
   tab `v' Daily_parents, chi2 nofreq
   matrix P[`i',2] = r(p)
   local rown `"`rown' `v'"'
   local ++i
}

matrix rownames P = `rown'
matrix colnames P = p_anycare p_dailycare
di _n as txt "=== p-vrijednosti hi-kvadrata (any | daily) ==="
matrix list P, format(%6.4f)

*=== izvoz u Excel ================================================*
putexcel set "table3_tests_unweighted.xlsx", replace
putexcel A1 = "Hi-kvadrat testovi razlike: njegovatelji vs ne"
putexcel A2 = matrix(P), names
```

```
restore

preserve
keep if check==1



svyset [pweight=cciw_w8_main]

local vars Age_group Regime Female Married Education Employed ///
   In_poor_health Sibling Poor_health_parent Both_alive ///
   Distance_parents rel4 Help_from_parents Close_with_parents ///
   Household_unexpected_expense Gift250_to_parents Gift250_from_parents

local n : word count `vars'
matrix P = J(`n', 2, .)
local rown ""
local i = 1

foreach v of local vars {
   di _n as txt "===== `v' ====="

   di "--- ANY care (weighted) ---"
   svy: tabulate `v' Any_parents, row
   * Rao-Scott korigirani F-test p:
   matrix P[`i',1] = e(p_Pear)

   di "--- DAILY care (weighted) ---"
   svy: tabulate `v' Daily_parents, row
   matrix P[`i',2] = e(p_Pear)

   local rown `"`rown' `v'""
```

```
   local ++i
}

matrix rownames P = `rown'
matrix colnames P = p_any_wtd p_daily_wtd
di _n as txt "=== Ponderirane p-vrijednosti (Rao-Scott), any | daily ==="
matrix list P, format(%6.4f)

putexcel set "table3_tests_weighted.xlsx", replace
putexcel A1 = "Rao-Scott korigirani hi-kvadrat (ponderirano): njegovatelji vs ne"
putexcel A2 = matrix(P), names

restore

preserve
keep if check==1
summarize cciw_w8_main, detail
restore



**#Extensive margine

preserve

set scheme s1mono

glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents  Gift250_from_parents

logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo any
```

```
esttab any using "results_any_base.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Any care" "Daily care") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")

margins rel4, predict(pr)

marginsplot, ///
   xdimension(rel4) title("") ///
          title ("Any care") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability") ///
   xlabel(1 "Poor/Fair" 2 "Good" 3 "Very good" 4 "Excellent") ///
   xscale(range(0.9 4.1)) ///
   recast(line) ///
   graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_any_predprob.tif", replace width(3000)

restore
**#2 Bootstrap -> vce country
preserve
set scheme s1mono

glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents  Gift250_from_parents
```

```
logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)

local terms 2.rel4 3.rel4 4.rel4
matrix R = J(`:word count `terms'', 2, .)
local i = 1
foreach t of local terms {
   * obicni cluster-robust p:
   test `t'
   matrix R[`i',1] = r(p)
   * bootstrap p:
   boottest `t', reps(9999) cluster(country) nograph
   matrix R[`i',2] = r(p)
   local rown `"`rown' `t'"'
   local ++i
}
matrix rownames R = `rown'
matrix colnames R = p_clusterrobust p_bootstrap
matrix list R, format(%6.4f)

putexcel set "bootstrap_any.xlsx", replace
putexcel A1 = matrix(R), names

restore

**# Without motivators - extensive
preserve

set scheme s1mono
```

```
glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Household_unexpected_expense


logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)

eststo anywo

esttab anywo using "results_any_womediators.rtf", replace ///

   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///

   star(* 0.10 ** 0.05 *** 0.01) ///

   collabels("Coef." "Lower CI" "Upper CI") ///

   mtitles("Any care" "Daily care") ///

   label nobaselevels ///

   stats(N, fmt(%9.0f) labels("Observations")) ///

   title("Logistic regression: caregiving and childhood relationship quality") ///

   note("95% CI lower/upper bounds. SE clustered by country.")


margins rel4, predict(pr)


marginsplot, ///

   xdimension(rel4) title("") ///

         title("Any care") ///

   xtitle("Quality of childhood relationship") ///

   ytitle("Predicted probability") ///

   xlabel(1 "Poor/Fair" 2 "Good" 3 "Very good" 4 "Excellent") ///

   xscale(range(0.9 4.1)) ///

   recast(line) ///

   graphregion(color(white)) xsize(8) ysize(4.5)


graph export "fig_any_womediators.tif", replace width(3000)


restore
```

```
**#Intensive margine - Daily

preserve


set scheme s1mono


glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents  Gift250_from_parents


logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)

eststo daily

esttab daily using "results_daily_base.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Any care" "Daily care") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")


margins rel4, predict(pr)


marginsplot, ///
   xdimension(rel4) title("") ///
         title ("Daily care") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability") ///
   xlabel(1 "Poor/Fair" 2 "Good" 3 "Very good" 4 "Excellent") ///
   xscale(range(0.9 4.1)) ///
   recast(line) ///
   graphregion(color(white)) xsize(8) ysize(4.5)
```

```
graph export "fig_daily_predprob.tif", replace width(3000)


restore

**#2 Bootstrap -> vce country DAILY

preserve

set scheme s1mono


glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents  Gift250_from_parents


logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)


local terms 2.rel4 3.rel4 4.rel4

matrix R = J(`:word count `terms'', 2, .)

local i = 1

foreach t of local terms {

   * obicni cluster-robust p:

   test `t'

   matrix R[`i',1] = r(p)

   * bootstrap p:

   boottest `t', reps(9999) cluster(country) nograph

   matrix R[`i',2] = r(p)

   local rown `"`rown' `t'"'

   local ++i

}

matrix rownames R = `rown'

matrix colnames R = p_clusterrobust p_bootstrap

matrix list R, format(%6.4f)


putexcel set "bootstrap_daily.xlsx", replace
```

```
putexcel A1 = matrix(R), names

restore

**#Without motivators - intensive
preserve

set scheme s1mono

glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4 Household_unexpected_expense

logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo dailywo
esttab dailywo using "results_daily_womediators.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Any care" "Daily care") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")

margins rel4, predict(pr)

marginsplot, ///
   xdimension(rel4) title("") ///
         title("Daily care") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability") ///
```

```
   xlabel(1 "Poor/Fair" 2 "Good" 3 "Very good" 4 "Excellent") ///
   xscale(range(0.9 4.1)) ///
   recast(line) ///
   graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_daily_womediators.tif", replace width(3000)

restore

**#Additional intensive margine - ologit
replace care_scale = 0 if check==1 & missing(care_scale) & Any_parents==0
preserve

set scheme s1mono

glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents Gift250_from_parents

ologit care_scale $X [pweight=cciw_w8_main] if check==1, vce(cluster country)
eststo care

esttab care using "results_orderedlogit.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Care_scale") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")
```

```
margins rel4, predict(outcome(0)) predict(outcome(1)) predict(outcome(2)) ///
        predict(outcome(3)) predict(outcome(4))

marginsplot, ///
  xdimension(rel4) title("") ///
  xtitle("Quality of childhood relationship") ///
  ytitle("Predicted probability") ///
  xlabel(1 "Poor/Fair" 2 "Good" 3 "Very good" 4 "Excellent") ///
  xscale(range(0.9 4.1)) ///
  recast(line) ///
  plot1opts(lpattern(solid)    lcolor(black)) ///
  plot2opts(lpattern(dash)     lcolor(black)) ///
  plot3opts(lpattern(dot)      lcolor(black)) ///
  plot4opts(lpattern(dash_dot)  lcolor(black)) ///
  plot5opts(lpattern(shortdash) lcolor(black)) ///
  ci1opts(lpattern(solid)    lcolor(gs10)) ///
  ci2opts(lpattern(dash)     lcolor(gs10)) ///
  ci3opts(lpattern(dot)      lcolor(gs10)) ///
  ci4opts(lpattern(dash_dot)  lcolor(gs10)) ///
  ci5opts(lpattern(shortdash) lcolor(gs10)) ///
  legend(order(6 "Never" 7 "Less often" 8 "Monthly" 9 "Weekly" 10 "Daily") ///
      rows(1) position(6)) ///
  graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_orderedlogit.tif", replace width(3000)

restore

cap which boottest
```

```
if _rc ssc install boottest, replace
set seed 20240601


glo XINT ib3.Age_group Female Married ib2.Education Employed In_poor_health ///
   Sibling Poor_health_parent Both_alive i.Distance_parents ///
   Help_from_parents Close_with_parents Household_unexpected_expense ///
   Gift250_to_parents Gift250_from_parents

logit Any_parents ib1.Regime##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)



putexcel set "regime_interaction_diagnostics.xlsx", replace sheet("cells")
tab rel4 Regime if e(sample), matcell(C)
matrix list C
putexcel A1 = "Cell counts: rel4 (rows) x Regime (cols)"
putexcel A2 = matrix(C), names


margins rel4, over(Regime) predict(pr) post
matrix M = r(table)'
putexcel set "regime_interaction_diagnostics.xlsx", modify sheet("margins")
putexcel A1 = "Predicted probabilities by Regime x rel4"
putexcel A2 = matrix(M), names


logit Any_parents ib1.Regime##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)

* obicni Wald:
```

```
testparm i.Regime#i.rel4
scalar wald_chi2 = r(chi2)
scalar wald_p    = r(p)

* wild cluster bootstrap of the joint interaction:
boottest (2.Regime#2.rel4) (2.Regime#3.rel4) (2.Regime#4.rel4) ///
      (3.Regime#2.rel4) (3.Regime#3.rel4) (3.Regime#4.rel4) ///
      (4.Regime#2.rel4) (4.Regime#3.rel4) (4.Regime#4.rel4), ///
      reps(9999) cluster(country) nograph
scalar boot_p = r(p)

* spremi testove:
putexcel set "regime_interaction_diagnostics.xlsx", modify sheet("tests")
putexcel A1 = "Joint test of Regime x rel4 interaction"
putexcel A2 = "Wald chi2(9)"     B2 = (wald_chi2)
putexcel A3 = "Wald p"           B3 = (wald_p)
putexcel A4 = "Wild bootstrap p"  B4 = (boot_p)

di _n as txt "=== SAZETAK ==="
di "Wald chi2 = " wald_chi2 ", p = " wald_p
di "Bootstrap p = " boot_p



**# Household
preserve
keep if check==1
set seed 12345
gen rnd = runiform()
bysort hhid8 (rnd): keep if _n==1

di as txt "N nakon zadrzavanja jednog po kucanstvu:"
```

```
count


logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo any_1pp

logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo daily_1pp

*=== IZVOZ PUNOG MODELA U WORD (.rtf) ===*
esttab any_1pp daily_1pp using "robustness_household.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Any care" "Daily care") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Robustness: one randomly selected respondent per household") ///
   note("Logit coefficients. 95% CI. SE clustered by country. Weighted.")


logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)
margins rel4, predict(pr) post
eststo pp_any

logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)
margins rel4, predict(pr) post
eststo pp_daily

esttab pp_any pp_daily using "robustness_household_predprob.rtf", replace ///
   b(%9.4f) ci(%9.4f) ///
```

```
   mtitles("Any care" "Daily care") ///
   collabels("Pred. prob." "95% CI") ///
   title("Predicted probabilities by childhood relationship quality (one respondent per household)") ///
   note("Average predicted probabilities over the observed covariate distribution. 95% CI.")

restore

**#Regime - extensive

preserve

set scheme s1mono

glo X ib3.Age_group i.Regime Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents Gift250_from_parents i.Regime#i.rel4

logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo regimerel

esttab regimerel using "results_regime_main.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Care_scale") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
```

```
   note("95% CI lower/upper bounds. SE clustered by country.")



testparm i.Regime#i.rel4

margins rel4, over(Regime) predict(pr)

marginsplot, by(Regime) ///
            byopts(title("") note("")) ///
            xdimension(rel4) ///
   title("") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability of caregiving") ///
   xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
   legend(rows(1) position(6)) ///
   graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_any_regime.tif", replace width(3000)

boottest {2.Regime#2.rel4}{2.Regime#3.rel4}{2.Regime#4.rel4} ///
       {3.Regime#2.rel4}{3.Regime#3.rel4}{3.Regime#4.rel4} ///
       {4.Regime#2.rel4}{4.Regime#3.rel4}{4.Regime#4.rel4}, ///
       reps(9999) cluster(country)

restore

**#Regime - intensive
preserve

set scheme s1mono
```

```
glo X ib3.Age_group i.Regime Female Married ib2.Education Employed In_poor_health  Sibling
Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents
Close_with_parents Household_unexpected_expense Gift250_to_parents
Gift250_from_parents i.Regime#i.rel4


logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)

eststo regimerel_int


esttab regimerel_int using "results_regime_interaction.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Care_scale") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")



testparm i.Regime#i.rel4


margins rel4, over(Regime) predict(pr)



marginsplot, by(Regime) ///
          byopts(title("") note("")) ///
          xdimension(rel4) ///
   title("") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability of caregiving") ///
   xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
   legend(rows(1) position(6)) ///
```

```
   graphregion(color(white)) xsize(8) ysize(4.5)


graph export "fig_daily_regime.tif", replace width(3000)


restore

**#E-Cross-level with country and regime#relation

preserve


set scheme s1mono


glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents Gift250_from_parents i.Regime#i.rel4


logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)

eststo regimerel_excross


esttab regimerel_excross using "results_regime_crosslevel_any.rtf", replace ///

   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///

   star(* 0.10 ** 0.05 *** 0.01) ///

   collabels("Coef." "Lower CI" "Upper CI") ///

   mtitles("Care_scale") ///

   label nobaselevels ///

   stats(N, fmt(%9.0f) labels("Observations")) ///

   title("Logistic regression: caregiving and childhood relationship quality") ///

   note("95% CI lower/upper bounds. SE clustered by country.")



testparm i.Regime#i.rel4


margins rel4, over(Regime) predict(pr)
```

```
marginsplot, by(Regime) ///
        byopts(title("") note("")) ///
        xdimension(rel4) ///
  title("") ///
  xtitle("Quality of childhood relationship") ///
  ytitle("Predicted probability of caregiving") ///
  xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
  legend(rows(1) position(6)) ///
  graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_any_regime_crosslevel.tif", replace width(3000)

restore

**#I-Cross-level with country and regime#relation
preserve

set scheme s1mono

glo X ib3.Age_group i.country Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents Gift250_from_parents i.Regime#i.rel4

logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo regimerel_intcross

esttab regimerel_intcross using "results_regime_crosslevel_daily.rtf", replace ///
  cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
  star(* 0.10 ** 0.05 *** 0.01) ///
```

```
  collabels("Coef." "Lower CI" "Upper CI") ///
  mtitles("Care_scale") ///
  label nobaselevels ///
  stats(N, fmt(%9.0f) labels("Observations")) ///
  title("Logistic regression: caregiving and childhood relationship quality") ///
  note("95% CI lower/upper bounds. SE clustered by country.")


testparm i.Regime#i.rel4

margins rel4, over(Regime) predict(pr)


marginsplot, by(Regime) ///
        byopts(title("") note("")) ///
        xdimension(rel4) ///
  title("") ///
        yscale(range(0 .)) ylabel(0(.05).2) ///
  xtitle("Quality of childhood relationship") ///
  ytitle("Predicted probability of caregiving") ///
  xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
  legend(rows(1) position(6)) ///
  graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_daily_regime_crosslevel.tif", replace width(3000)

restore

**#LTC - extensive

preserve
```

```
keep if check==1

collapse (firstnm) ltc_q (firstnm) ltc_gdp_2019, by(country)

sort ltc_q country

decode country, gen(country_name)
order country_name ltc_q ltc_gdp_2019
drop country

* izvoz u Excel:
export excel country_name ltc_q ltc_gdp_2019 using "ltc_quartiles.xlsx", ///
   firstrow(variables) replace

di as txt "Izvezeno u ltc_quartiles.xlsx"
list, sepby(ltc_q)

restore

preserve

set scheme s1mono

glo X ib3.Age_group i.ltc_q Female Married ib2.Education Employed In_poor_health  Sibling
Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents
Close_with_parents Household_unexpected_expense Gift250_to_parents
Gift250_from_parents i.ltc_q#i.rel4
```

```
logit Any_parents $X [pweight=cciw_w8_main], vce(cluster country)
eststo ltcrel_ext

esttab ltcrel_ext using "results_ltc_any.rtf", replace ///
   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   collabels("Coef." "Lower CI" "Upper CI") ///
   mtitles("Care_scale") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Observations")) ///
   title("Logistic regression: caregiving and childhood relationship quality") ///
   note("95% CI lower/upper bounds. SE clustered by country.")


testparm i.ltc_q#i.rel4

margins rel4, over(ltc_q) predict(pr)


marginsplot, by(ltc_q) ///
          byopts(title("") note("")) ///
          xdimension(rel4) ///
   title("") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability of caregiving") ///
   xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
   legend(rows(1) position(6)) ///
   graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_any_ltc.tif", replace width(3000)
```

```
restore

**#LTC - intensive

preserve


set scheme s1mono


glo X ib3.Age_group i.ltc_q Female Married ib2.Education Employed In_poor_health  Sibling Poor_health_parent Both_alive i.Distance_parents i.rel4  Help_from_parents Close_with_parents Household_unexpected_expense Gift250_to_parents Gift250_from_parents i.ltc_q#i.rel4


logit Daily_parents $X [pweight=cciw_w8_main], vce(cluster country)

eststo ltcrel_int


esttab ltcrel_int using "results_ltc_daily.rtf", replace ///

   cells("b(fmt(%9.3f) star) ci_l(fmt(%9.3f)) ci_u(fmt(%9.3f))") ///

   star(* 0.10 ** 0.05 *** 0.01) ///

   collabels("Coef." "Lower CI" "Upper CI") ///

   mtitles("Care_scale") ///

   label nobaselevels ///

   stats(N, fmt(%9.0f) labels("Observations")) ///

   title("Logistic regression: caregiving and childhood relationship quality") ///

   note("95% CI lower/upper bounds. SE clustered by country.")



testparm i.ltc_q#i.rel4


margins rel4, over(ltc_q) predict(pr)



marginsplot, by(ltc_q) ///

        byopts(title("") note("")) ///
```

```
            xdimension(rel4) ///
   title("") ///
   xtitle("Quality of childhood relationship") ///
   ytitle("Predicted probability of caregiving") ///
   xlabel(1 `""Poor" "/Fair"' 2 "Good" 3 "Very good" 4 `""Exc-" "ellent""') ///
   legend(rows(1) position(6)) ///
   graphregion(color(white)) xsize(8) ysize(4.5)

graph export "fig_daily_ltc.tif", replace width(3000)

restore

**#dijadni clogit - Extensive


global W     cciw_w8_main
global CLUST  country

preserve

keep mergeid Any_father Any_mother mother_rel4 father_rel4 ///
    mother_poor father_poor Distance_mother Distance_father ///
    country cciw_w8_main


rename Any_mother        care1
rename Any_father        care2
rename mother_rel4  rel1
rename father_rel4  rel2
rename mother_poor     phealth1
rename father_poor     phealth2
```

```
rename Distance_mother  dist1
rename Distance_father  dist2

reshape long care rel phealth dist, i(mergeid) j(parent)
label define parL 1 "Mother" 2 "Father"
label values parent parL


bysort mergeid (parent): egen _carevar = sd(care)
bysort mergeid (parent): egen _relvar  = sd(rel)
count if _carevar>0 & !missing(_carevar) & parent==1
di as txt ">> Informativni (razlicit ISHOD majka/otac): gore"
count if _relvar>0 & !missing(_relvar) & parent==1
di as txt ">> S razlicitim ODNOSOM majka/otac: gore"


clogit care ib1.rel i.parent, group(mergeid) vce(cluster $CLUST)
estimates store m1
testparm i.rel


clogit care ib1.rel i.parent i.phealth, group(mergeid) vce(cluster $CLUST)
estimates store m2
testparm i.rel


clogit care ib1.rel i.parent i.phealth i.dist, group(mergeid) vce(cluster $CLUST)
estimates store m3
testparm i.rel
```

```
margins rel, predict(pu0)
marginsplot, xlabel(1 "P/F" 2 "Good" 3 "Very good" 4 "Excellent") ///
   recastci(rarea) ciopt(color(gs12%40)) ///
   title("") graphregion(color(white))



esttab m1 m2 m3,  b(%9.3f) ci(%9.3f) ///
   keep(*.rel *.parent *.phealth) ///
   mtitles("No controls" "+ Health" "+ Health & distance") ///
   label nobaselevels star(* 0.10 ** 0.05 *** 0.01)

clogit care ib1.rel i.parent i.phealth i.dist, ///
   group(mergeid) vce(cluster country)
eststo dyad_m3

esttab dyad_m3 using "dyadic_clogit_any.rtf", replace ///
   b(%9.3f) ci(%9.3f) ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   mtitles("Any care (within-person)") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Parent-observations")) ///
   title("Dyadic conditional logit: any care to mothers vs fathers") ///
   note("Respondent fixed effects; 95% CI in brackets. SE clustered by country. Reference: care to mother, Poor/Fair relationship.")
restore



**#dijadni clogit - Intensive
```

```
global W     cciw_w8_main
global CLUST  country

preserve

keep mergeid Daily_m Daily_f mother_rel4 father_rel4 ///
    mother_poor father_poor Distance_mother Distance_father ///
    country cciw_w8_main



rename Daily_m        care1
rename Daily_f        care2
rename mother_rel4     rel1
rename father_rel4     rel2
rename mother_poor     phealth1
rename father_poor     phealth2
rename Distance_mother  dist1
rename Distance_father  dist2

reshape long care rel phealth dist, i(mergeid) j(parent)
label define parL 1 "Mother" 2 "Father"
label values parent parL


bysort mergeid (parent): egen _carevar = sd(care)
bysort mergeid (parent): egen _relvar  = sd(rel)
count if _carevar>0 & !missing(_carevar) & parent==1
di as txt ">> Informativni (razlicit ISHOD majka/otac): gore"
count if _relvar>0 & !missing(_relvar) & parent==1
di as txt ">> S razlicitim ODNOSOM majka/otac: gore"
```

```
clogit care ib1.rel i.parent, group(mergeid) vce(cluster $CLUST)
estimates store m1
testparm i.rel

clogit care ib1.rel i.parent i.phealth, group(mergeid) vce(cluster $CLUST)
estimates store m2
testparm i.rel



clogit care ib1.rel i.parent i.phealth i.dist, group(mergeid) vce(cluster $CLUST)
estimates store m3
testparm i.rel



margins rel, predict(pu0)
marginsplot, xlabel(1 "P/F" 2 "Good" 3 "Very good" 4 "Excellent") ///
  recastci(rarea) ciopt(color(gs12%40)) ///
  title("") graphregion(color(white))



esttab m1 m2 m3,  b(%9.3f) ci(%9.3f) ///
  keep(*.rel *.parent *.phealth) ///
  mtitles("No controls" "+ Health" "+ Health & distance") ///
  label nobaselevels star(* 0.10 ** 0.05 *** 0.01)

clogit care ib1.rel i.parent i.phealth i.dist, ///
  group(mergeid) vce(cluster country)
eststo dyad_m3

esttab dyad_m3 using "dyadic_clogit_daily.rtf", replace ///
```

```
   b(%9.3f) ci(%9.3f) ///
   star(* 0.10 ** 0.05 *** 0.01) ///
   mtitles("Daily care (within-person)") ///
   label nobaselevels ///
   stats(N, fmt(%9.0f) labels("Parent-observations")) ///
   title("Dyadic conditional logit: daily care to mothers vs fathers") ///
   note("Respondent fixed effects; 95% CI in brackets. SE clustered by country. Reference: care to mother, Poor/Fair relationship.")
restore

**#Heterogenity all


cap which boottest
if _rc ssc install boottest, replace
set seed 20240601

glo XINT ib3.Age_group Female Married ib2.Education Employed In_poor_health ///
   Sibling Poor_health_parent Both_alive i.Distance_parents ///
   Help_from_parents Close_with_parents Household_unexpected_expense ///
   Gift250_to_parents Gift250_from_parents


matrix RES = J(6, 3, .)
matrix rownames RES = A_Regime_any A_Regime_daily A_LTC_any A_LTC_daily ///
                B_RegimeFE_any B_RegimeFE_daily
matrix colnames RES = wald_chi2 wald_p boot_p


logit Any_parents ib1.Regime##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
```

```
testparm i.Regime#i.rel4
matrix RES[1,1] = r(chi2)
matrix RES[1,2] = r(p)
boottest (2.Regime#2.rel4) (2.Regime#3.rel4) (2.Regime#4.rel4) ///
      (3.Regime#2.rel4) (3.Regime#3.rel4) (3.Regime#4.rel4) ///
      (4.Regime#2.rel4) (4.Regime#3.rel4) (4.Regime#4.rel4), ///
      reps(9999) cluster(country) nograph
matrix RES[1,3] = r(p)



logit Daily_parents ib1.Regime##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
testparm i.Regime#i.rel4
matrix RES[2,1] = r(chi2)
matrix RES[2,2] = r(p)
boottest (2.Regime#2.rel4) (2.Regime#3.rel4) (2.Regime#4.rel4) ///
      (3.Regime#2.rel4) (3.Regime#3.rel4) (3.Regime#4.rel4) ///
      (4.Regime#2.rel4) (4.Regime#3.rel4) (4.Regime#4.rel4), ///
      reps(9999) cluster(country) nograph
matrix RES[2,3] = r(p)



logit Any_parents ib1.ltc_q##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
testparm i.ltc_q#i.rel4
matrix RES[3,1] = r(chi2)
matrix RES[3,2] = r(p)
boottest (2.ltc_q#2.rel4) (2.ltc_q#3.rel4) (2.ltc_q#4.rel4) ///
      (3.ltc_q#2.rel4) (3.ltc_q#3.rel4) (3.ltc_q#4.rel4) ///
      (4.ltc_q#2.rel4) (4.ltc_q#3.rel4) (4.ltc_q#4.rel4), ///
      reps(9999) cluster(country) nograph
```

```
matrix RES[3,3] = r(p)



logit Daily_parents ib1.ltc_q##ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
testparm i.ltc_q#i.rel4
matrix RES[4,1] = r(chi2)
matrix RES[4,2] = r(p)
boottest (2.ltc_q#2.rel4) (2.ltc_q#3.rel4) (2.ltc_q#4.rel4) ///
      (3.ltc_q#2.rel4) (3.ltc_q#3.rel4) (3.ltc_q#4.rel4) ///
      (4.ltc_q#2.rel4) (4.ltc_q#3.rel4) (4.ltc_q#4.rel4), ///
      reps(9999) cluster(country) nograph
matrix RES[4,3] = r(p)



logit Any_parents i.country ib1.rel4 i.Regime#ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
testparm i.Regime#i.rel4
matrix RES[5,1] = r(chi2)
matrix RES[5,2] = r(p)
boottest (2.Regime#2.rel4) (2.Regime#3.rel4) (2.Regime#4.rel4) ///
      (3.Regime#2.rel4) (3.Regime#3.rel4) (3.Regime#4.rel4) ///
      (4.Regime#2.rel4) (4.Regime#3.rel4) (4.Regime#4.rel4), ///
      reps(9999) cluster(country) nograph
matrix RES[5,3] = r(p)



logit Daily_parents i.country ib1.rel4 i.Regime#ib1.rel4 $XINT if check==1 ///
   [pweight=cciw_w8_main], vce(cluster country)
testparm i.Regime#i.rel4
matrix RES[6,1] = r(chi2)
```

```
matrix RES[6,2] = r(p)
boottest (2.Regime#2.rel4) (2.Regime#3.rel4) (2.Regime#4.rel4) ///
    (3.Regime#2.rel4) (3.Regime#3.rel4) (3.Regime#4.rel4) ///
    (4.Regime#2.rel4) (4.Regime#3.rel4) (4.Regime#4.rel4), ///
    reps(9999) cluster(country) nograph
matrix RES[6,3] = r(p)


di _n as txt "=== Heterogenost: Wald vs wild bootstrap (Panel A bez FE, Panel B cross-level) ==="
matrix list RES, format(%9.4f)

putexcel set "heterogeneity_summary.xlsx", replace
putexcel A1 = "Joint test of interaction: Wald chi2 vs wild bootstrap"
putexcel A2 = "Panel A: Regime/LTC as predictor (no FE); Panel B: cross-level (country FE)"
putexcel A4 = matrix(RES), names


preserve
ssc install distinct
keep if check==1

di _n as txt "===== N ====="
count

di _n as txt "===== SPOL (% zena) ====="
tab Female, missing
mean Female [pweight=cciw_w8_main]

di _n as txt "===== DOBNE SKUPINE ====="
tab Age_group
tab Age_group [aweight=cciw_w8_main]
```

```
di _n as txt "===== BRACNI STATUS (% married) ====="
tab Married
mean Married [pweight=cciw_w8_main]

di _n as txt "===== OBRAZOVANJE ====="
tab Education
tab Education [aweight=cciw_w8_main]

di _n as txt "===== ZAPOSLENOST ====="
tab Employed
mean Employed [pweight=cciw_w8_main]

di _n as txt "===== ima zivog roditelja / oba ====="
tab Both_alive

di _n as txt "===== broj zemalja ====="
tab country
distinct country



di _n as txt "===== sve skupa (kompaktno) ====="
tabstat Female Married Employed In_poor_health Sibling [aweight=cciw_w8_main], ///
   stat(mean) columns(statistics)

restore
```