

Changes in Marriage and Divorce as Drivers of Employment and Retirement of Older Women

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PRE-CONFERENCE ON WOMEN WORKING LONGER
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INTRODUCTION

- Individual employment and marital history are both important determinants of wealth but there are significant gender, education, and cohort differentials in these patterns (e.g., Wilmoth and Koso, 2002; Zargosky, 2005; Ulker, 2009; Vespan and Painter, 2011; Zissimopoulus, Karney, and Rauer, 2015; others).
- Current marital status and marital history may differently shape employment behavior at later ages.
- In a life-cycle perspective, the age at which a woman experiences a divorce might matter because it may affect
 - The probability of re-marriage.
 - Investment in human and financial capital.

INTRODUCTION

Increased divorce risk might also impact the work decisions of married women through changes in household bargaining power and economic incentives:

- Self insurance motives (Greene and Quester, 1982; Johnson and Skinner, 1986). Greater divorce risk implies:
 - A higher probability of being in a low consumption state (i.e. becoming a divorced mother with children).
 - A greater incentive to increase earning potential (through labor market experience, education, and/or occupational choice).
- Desire to accumulate financial capital.
- Desire to accumulate of marriage-specific capital (Stevenson, 2007).

WHAT WE DID SO FAR

- Used SIPP 1985-2008 Panels to study the relationships between current marital status, past marital history, and current employment and retirement outcomes of women aged 50-74 at interview.
 - Cohorts included women born in 1920s to 1950s.
 - Most observations for 1930-1949 birth cohorts.
- Empirical strategy: exploit the state and time variation in unilateral divorce laws to provide a causal interpretation of the effect of divorce timing on women's employment later in the life-cycle.

MAIN FINDINGS

- For ever married women aged 50-74, having ever divorced a spouse is associated with:
 - Increased employment.
 - Increased likelihood of collecting social security.
 - Decreased likelihood of having ever retired from a job.
- Both current marital status and past divorce history matter
- Among ever-divorced women aged 50-74, women who divorce at later ages are:
 - Less likely to be currently married.
 - More likely to be employed.
 - Less likely to collect social security.
 - Less likely to classify themselves as having ever retired from a job.
- Evidence that increase in age at divorce (among ever-divorced) causes increase in employment.
 - Based on instrumental variables regression, using age when unilateral divorce was introduced as instrument for age at divorce.

LITERATURE REVIEW

- Changes in divorce laws during the 1960s and 1970s had (short run) effects on divorce rates (Friedberg, 1998; Gruber, 2004; Wolfers, 2006).
 - Consent to unilateral divorce.
 - Property division regimes (title based to equitable distribution vs. community property; will not discuss today).
- Past work has used cross-state differences in the timing of divorce laws to identify a plausibly causal effect of divorce risk on:
 - Women's labor supply (Peters, 1986; Gray, 1998; Stevenson, 2008).
 - Marriage-specific capital (Stevenson, 2007).
 - Intertemporal household savings decisions (Voena, 2015).

LITERATURE REVIEW

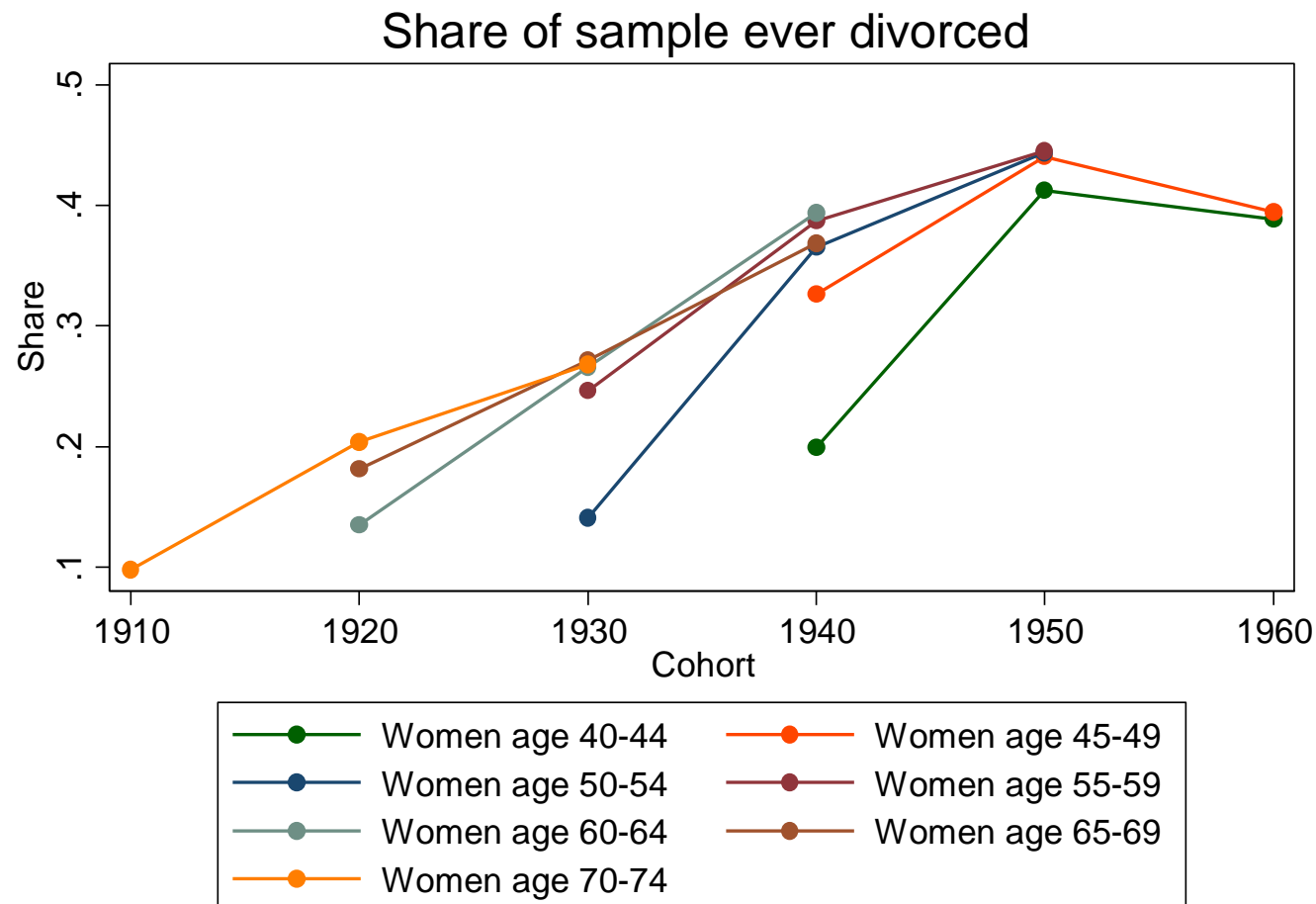
- Changes in exposure to divorce risk across cohorts is also potentially important (Fernandez and Wong, 2014).
 - Examine effects on female LFP (for both married and divorced women) and household savings.
 - Two cohorts: 1935 and 1955.
 - Examine outcomes up to age 59.
 - Dynamic quantitative approach: life-cycle framework.
- Our contribution:
 - Document the importance of current marital status, marital history, and age at divorce for work/retirement outcomes.
 - Use changing divorce laws as a source of plausibly exogenous variation to quantify the effects of divorce timing and divorce risk on women's work and retirement later in the life cycle.

DESCRIPTIVE ANALYSIS

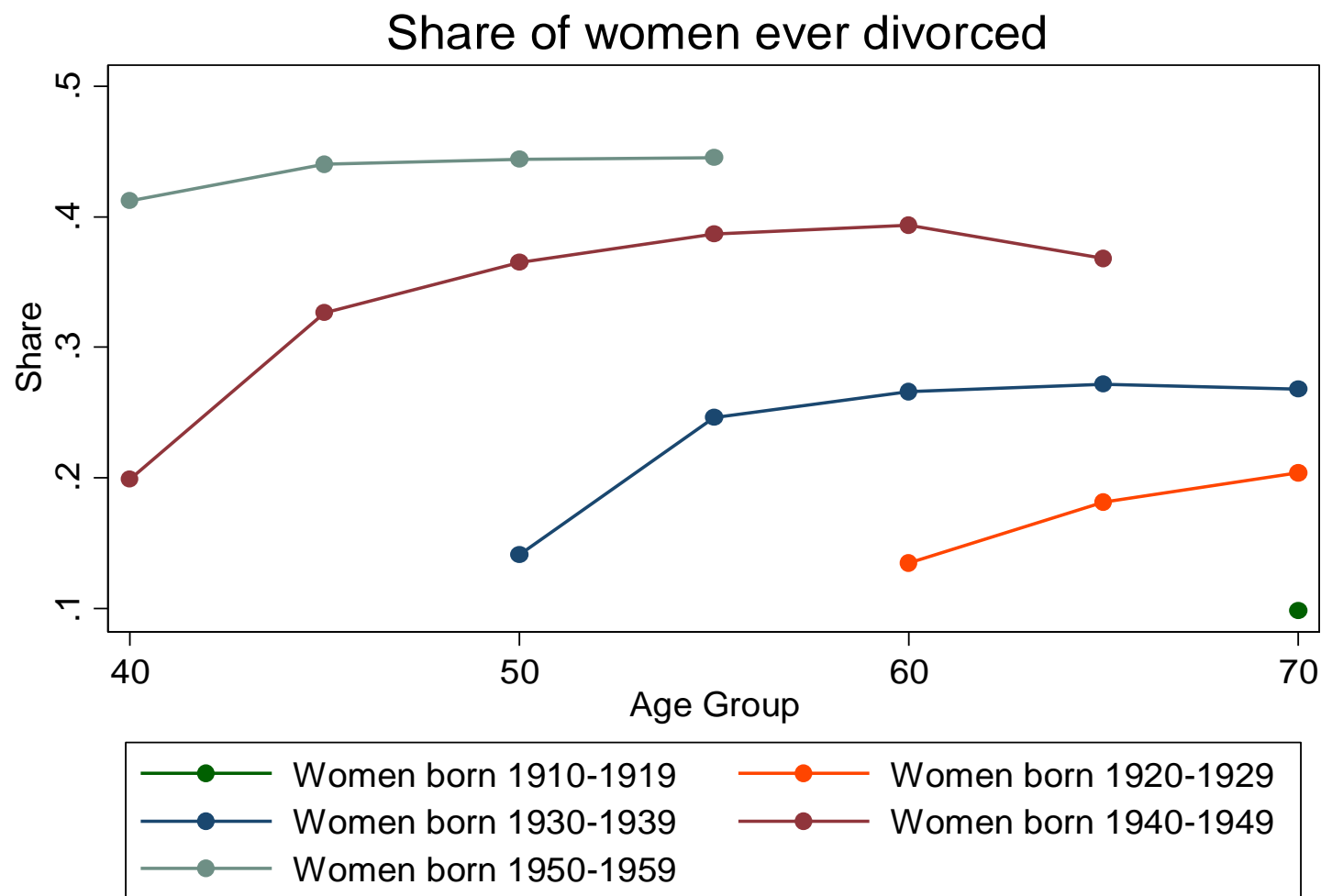
DATA

- Survey of Income and Program Participation (SIPP), 1985-1988, 1990-1993, 1996, 2001, 2004, and 2008 Panels.
- Collated current employment and marital status, and other demographic/background variables, from the core files of every panel and wave.
- Retrospective information in the topical modules used to construct:
 - Marital history
 - Education history
 - Employment history
 - Fertility history
 - Assets and retirement funds.
- Current analysis: only exploits marital history data.

CHANGES IN INCIDENCE OF DIVORCE ACROSS COHORTS, BY AGE GROUP

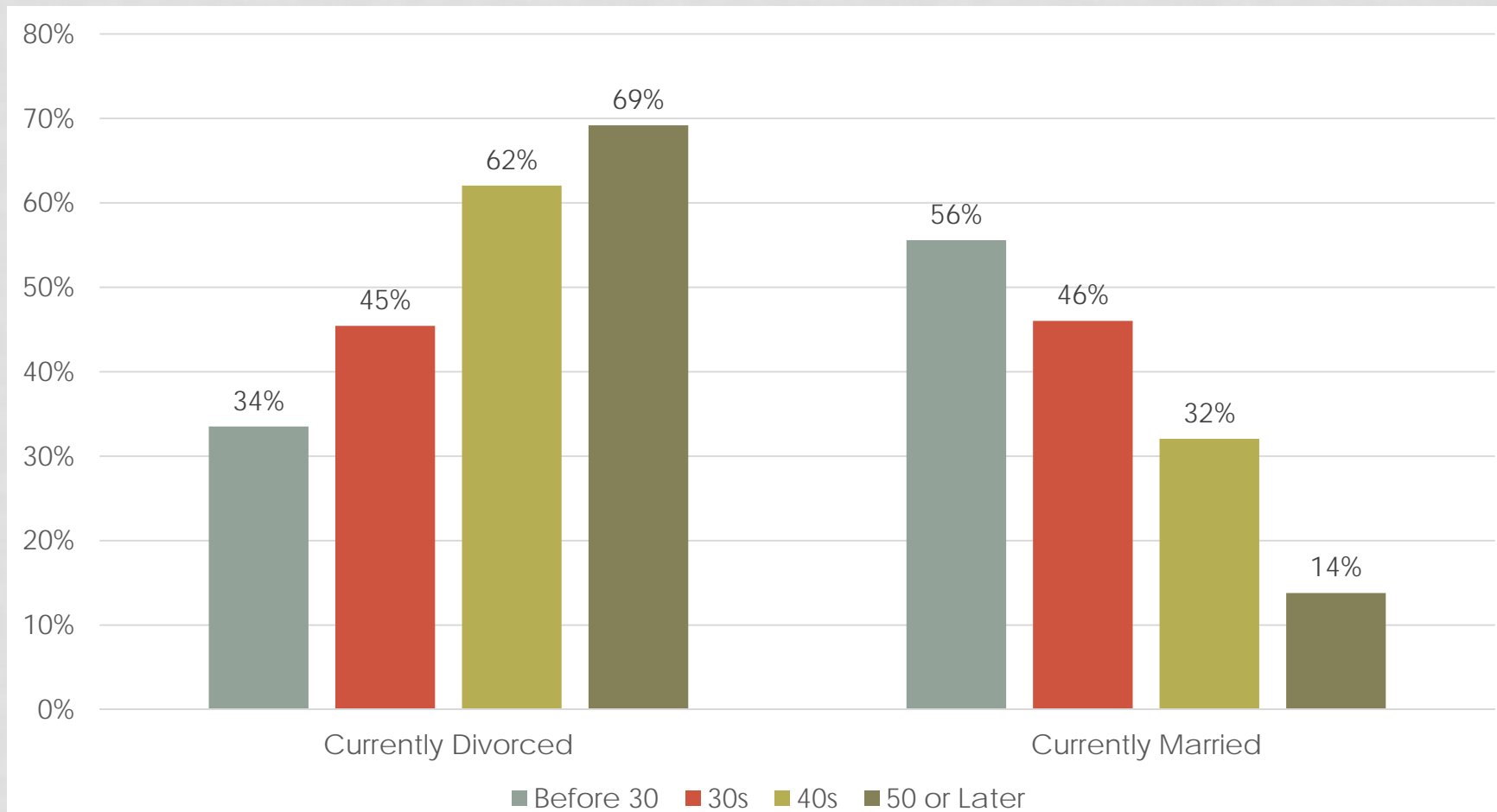


CHANGES IN INCIDENCE OF DIVORCE: PROFILES BY COHORT



AGE AT DIVORCE AND CURRENT MARITAL STATUS

EVER-DIVORCED WOMEN



MARITAL STATUS AND LATER-LIFE OUTCOMES: ALL WOMEN

During First Panel Month						
Outcomes	Employed		Collected Social Security		Classify Self as Ever Retired	
Ever divorced	0.0474*** (0.00484)	0.0125** (0.00595)	0.0157*** (0.00357)	0.0157*** (0.00433)	-0.0158*** (0.00425)	0.0108** (0.00526)
Ever widowed	0.000307 (0.00586)	-0.0268** (0.0108)	0.0592*** (0.00475)	0.0272*** (0.00869)	0.0165*** (0.00550)	0.0290*** (0.00971)
Currently divorced		0.0834*** (0.00763)		0.00547 (0.00580)		-0.0650*** (0.00655)
Currently separated		-0.0523*** (0.0169)		0.0271** (0.0133)		-0.0677*** (0.0129)
Currently widowed		0.0482*** (0.0119)		0.0440*** (0.00963)		-0.0292*** (0.0109)
Age at marriage	0.000562 (0.000352)	0.000594* (0.000351)	-0.00118*** (0.000263)	-0.00116*** (0.000263)	0.000316 (0.000323)	0.000330 (0.000323)
Observations	48,437	48,437	48,437	48,437	48,437	48,437

Source: Ever-married women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

MARITAL STATUS AND LATER-LIFE OUTCOMES #2: ALL WOMEN

Outcomes	At Any Point in Panel			
	Employed Full Time During First Panel Month	Employed	Collected Social Security	Classify Self as Ever Retired
Ever divorced	0.0186*** (0.00567)	0.0208*** (0.00580)	0.0260*** (0.00469)	0.0131** (0.00539)
Ever widowed	-0.0217** (0.00946)	-0.0270** (0.0108)	0.0276*** (0.00869)	0.0204** (0.00940)
Currently divorced	0.114*** (0.00767)	0.0713*** (0.00734)	-0.00933 (0.00636)	-0.0972*** (0.00703)
Currently separated	0.00771 (0.0162)	-0.0506*** (0.0165)	0.0343** (0.0147)	-0.0893*** (0.0145)
Currently widowed	0.0535*** (0.0102)	0.0441*** (0.0119)	0.00328 (0.00947)	-0.0424*** (0.0103)
Age at marriage	0.000632* (0.000323)	0.00102*** (0.000347)	-0.00101*** (0.000283)	0.000510 (0.000322)
Observations	48,437	48,437	48,437	48,437

Source: Ever-married women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

MARITAL STATUS AND LATER-LIFE OUTCOMES: WOMEN WITH HIGH SCHOOL EDUCATION OR LESS

Outcomes	During First Panel Month					
	Employed	Collected Social Security	Classify Self as Ever Retired			
Ever divorced	0.0413*** (0.00707)	0.0108 (0.00854)	0.0177*** (0.00542)	0.0190*** (0.00655)	-0.0168*** (0.00621)	0.00708 (0.00761)
Ever widowed	0.00289 (0.00748)	-0.0132 (0.0139)	0.0549*** (0.00622)	0.0166 (0.0116)	0.0126* (0.00734)	0.0173 (0.0131)
Currently divorced		0.0781*** (0.0119)		0.00557 (0.00925)		-0.0638*** (0.00984)
Currently separated		-0.0607*** (0.0222)		0.0169 (0.0181)		-0.0804*** (0.0169)
Currently widowed		0.0304** (0.0152)		0.0512*** (0.0127)		-0.0184 (0.0146)
Age at marriage	0.000731 (0.000472)	0.000773 (0.000471)	-0.00142*** (0.000365)	-0.00138*** (0.000366)	0.000293 (0.000440)	0.000318 (0.000440)
Observations	26,245	26,245	26,245	26,245	26,245	26,245

Source: Ever-married women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

MARITAL STATUS AND LATER-LIFE OUTCOMES: WOMEN WITH SOME COLLEGE OR MORE EDUCATION

During First Panel Month						
Outcomes	Employed		Collected Social Security		Classify Self as Ever Retired	
Ever divorced	0.0519*** (0.00666)	0.0132 (0.00831)	0.0152*** (0.00472)	0.0135** (0.00573)	-0.0144** (0.00584)	0.0150** (0.00731)
Ever widowed	-0.00182 (0.00941)	-0.0414** (0.0171)	0.0654*** (0.00738)	0.0408*** (0.0132)	0.0209** (0.00831)	0.0451*** (0.0145)
Currently divorced		0.0864*** (0.0100)		0.00671 (0.00742)		-0.0665*** (0.00882)
Currently separated		-0.0350 (0.0259)		0.0424** (0.0196)		-0.0550*** (0.0199)
Currently widowed		0.0697*** (0.0192)		0.0356** (0.0148)		-0.0466*** (0.0164)
Age at marriage	0.000463 (0.000529)	0.000454 (0.000528)	-0.000946** (0.000380)	-0.000942** (0.000379)	0.000326 (0.000475)	0.000349 (0.000475)
Observations	22,192	22,192	22,192	22,192	22,192	22,192

Source: Ever-married women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

DIVORCE TIMING AND LATER-LIFE OUTCOMES: ALL EVER-DIVORCED WOMEN

Outcomes	During First Panel Month					
	Employed		Collected Social Security		Classify Self as Ever Retired	
Age at divorce	0.00199*** (0.000421)		-0.000859*** (0.000328)		-0.000676* (0.000384)	
Divorced in 30s		0.0312*** (0.00954)		-0.00741 (0.00726)		-0.00752 (0.00819)
Divorced in 40s		0.0394*** (0.0115)		-0.00673 (0.00880)		0.00741 (0.00999)
Divorced in 50s		0.0569*** (0.0168)		-0.0287** (0.0131)		-0.0484*** (0.0156)
Divorced after 59		0.0298 (0.0278)		-0.0258 (0.0215)		-0.00465 (0.0284)
Ever widowed	-0.0333* (0.0174)	-0.0329* (0.0175)	0.0405*** (0.0143)	0.0408*** (0.0143)	-0.00710 (0.0148)	-0.00681 (0.0149)
Currently divorced	0.0673*** (0.00868)	0.0685*** (0.00869)	0.0173*** (0.00656)	0.0164** (0.00659)	-0.0697*** (0.00743)	-0.0700*** (0.00743)
Currently separated	0.00271 (0.0347)	0.00274 (0.0346)	0.0181 (0.0265)	0.0184 (0.0265)	-0.0941*** (0.0246)	-0.0932*** (0.0247)
Currently widowed	0.0297 (0.0207)	0.0342* (0.0207)	0.0705*** (0.0170)	0.0700*** (0.0171)	-0.0170 (0.0184)	-0.0168 (0.0185)
Age at marriage	0.00119 (0.000960)	0.00144 (0.000956)	-0.00150** (0.000757)	-0.00174** (0.000755)	0.000776 (0.000869)	0.000586 (0.000863)
Observations	13,102	13,102	13,102	13,102	13,102	13,102

Source: Ever-divorced women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

DIVORCE TIMING AND LATER-LIFE OUTCOMES #2: ALL EVER-DIVORCED WOMEN

Outcomes	During Any Point in Panel							
	Employed Full Time During First Panel Month		Employed		Collected Social Security		Classify Self as Ever Retired	
Age at divorce	0.00163*** (0.000404)		0.00153*** (0.000415)		-0.0014*** (0.000342)		-0.0010*** (0.000385)	
Divorced in 30s		0.0289*** (0.00957)		0.0227** (0.00915)		-0.0106 (0.00792)		-0.0137 (0.00884)
Divorced in 40s		0.0362*** (0.0115)		0.0291*** (0.0111)		-0.0177* (0.00951)		-0.00723 (0.0106)
Divorced in 50s		0.0481*** (0.0169)		0.0442*** (0.0164)		-0.0283** (0.0138)		-0.0326** (0.0159)
Divorced after 59		0.0250 (0.0226)		0.0253 (0.0287)		-0.0614*** (0.0192)		-0.0363 (0.0237)
Ever widowed	-0.0288* (0.0155)	-0.0283* (0.0155)	-0.0294* (0.0172)	-0.0292* (0.0172)	0.0268* (0.0140)	0.0275** (0.0140)	0.00404 (0.0150)	0.00446 (0.0151)
Currently divorced	0.104*** (0.00879)	0.105*** (0.00880)	0.0571*** (0.00829)	0.0580*** (0.00832)	0.00392 (0.00722)	0.00229 (0.00724)	-0.0958*** (0.00809)	-0.0971*** (0.00810)
Currently separated	0.0287 (0.0333)	0.0288 (0.0333)	0.0214 (0.0329)	0.0214 (0.0328)	0.0365 (0.0293)	0.0365 (0.0293)	-0.115*** (0.0281)	-0.115*** (0.0281)
Currently widowed	0.0506*** (0.0182)	0.0543*** (0.0182)	0.0259 (0.0205)	0.0291 (0.0206)	0.0394** (0.0164)	0.0390** (0.0165)	-0.0350* (0.0179)	-0.0355** (0.0179)
Age at marriage	0.000277 (0.000950)	0.000391 (0.000942)	0.00136 (0.000925)	0.00157* (0.000919)	-0.000533 (0.000810)	-0.000894 (0.000805)	0.000855 (0.000894)	0.000594 (0.000889)
Observations	13,102	13,102	13,102	13,102	13,102	13,102	13,102	13,102

Source: Ever-divorced women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

DIVORCE TIMING AND LATER-LIFE OUTCOMES: EVER-DIVORCED WOMEN WITH HIGH SCHOOL EDUCATION OR LESS

During First Panel Month						
Outcomes	Employed		Collected Social Security		Classify Self as Ever Retired	
Age at divorce	0.00174*** (0.000599)		-0.000675 (0.000481)		-0.000299 (0.000557)	
Divorced in 30s		0.0314** (0.0146)		-0.00601 (0.0113)		0.00409 (0.0122)
Divorced in 40s		0.0317* (0.0178)		0.00484 (0.0141)		0.0115 (0.0151)
Divorced in 50s		0.0434* (0.0253)		-0.0240 (0.0208)		-0.0420* (0.0232)
Divorced after 59		0.0264 (0.0355)		-0.0216 (0.0282)		0.00808 (0.0397)
Ever widowed	-0.00299 (0.0233)	-0.00275 (0.0233)	0.0348* (0.0195)	0.0352* (0.0194)	-0.0256 (0.0205)	-0.0253 (0.0206)
Currently divorced	0.0642*** (0.0138)	0.0660*** (0.0138)	0.0172 (0.0106)	0.0155 (0.0106)	-0.0669*** (0.0112)	-0.0666*** (0.0113)
Currently separated	0.0285 (0.0506)	0.0288 (0.0507)	0.0271 (0.0376)	0.0265 (0.0376)	-0.101*** (0.0335)	-0.101*** (0.0335)
Currently widowed	-0.00250 (0.0271)	0.00227 (0.0272)	0.0748*** (0.0232)	0.0746*** (0.0233)	-0.00768 (0.0252)	-0.00648 (0.0253)
Age at marriage	0.00161 (0.00143)	0.00198 (0.00142)	-0.00209* (0.00119)	-0.00235** (0.00119)	-0.000660 (0.00125)	-0.000688 (0.00125)
Observations	5,759	5,759	5,759	5,759	5,759	5,759

Source: Ever-divorced women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

DIVORCE TIMING AND LATER-LIFE OUTCOMES: EVER-DIVORCED WOMEN WITH SOME COLLEGE EDUCATION OR MORE

During First Panel Month						
Outcomes	Employed		Collected Social Security		Classify Self as Ever Retired	
Age at divorce	0.00217*** (0.000597)		-0.00107** (0.000451)		-0.000944* (0.000537)	
Divorced in 30s		0.0319** (0.0128)		-0.00859 (0.00949)		-0.0174 (0.0112)
Divorced in 40s		0.0459*** (0.0153)		-0.0175 (0.0113)		0.00387 (0.0135)
Divorced in 50s		0.0665*** (0.0225)		-0.0309* (0.0171)		-0.0532** (0.0213)
Divorced after 59		0.0253 (0.0440)		-0.0271 (0.0326)		-0.0103 (0.0405)
Ever widowed	-0.0622** (0.0261)	-0.0616** (0.0261)	0.0459** (0.0211)	0.0463** (0.0211)	0.0150 (0.0218)	0.0151 (0.0218)
Currently divorced	0.0702*** (0.0112)	0.0707*** (0.0112)	0.0172** (0.00836)	0.0168** (0.00839)	-0.0733*** (0.00994)	-0.0741*** (0.00995)
Currently separated	-0.0233 (0.0483)	-0.0232 (0.0481)	0.0129 (0.0369)	0.0132 (0.0369)	-0.0934** (0.0365)	-0.0912** (0.0367)
Currently widowed	0.0646** (0.0320)	0.0694** (0.0321)	0.0630** (0.0252)	0.0618** (0.0253)	-0.0309 (0.0275)	-0.0314 (0.0276)
Age at marriage	0.000791 (0.00129)	0.000911 (0.00129)	-0.000851 (0.000977)	-0.00104 (0.000973)	0.00216* (0.00121)	0.00187 (0.00120)
Observations	7,343	7,343	7,343	7,343	7,343	7,343

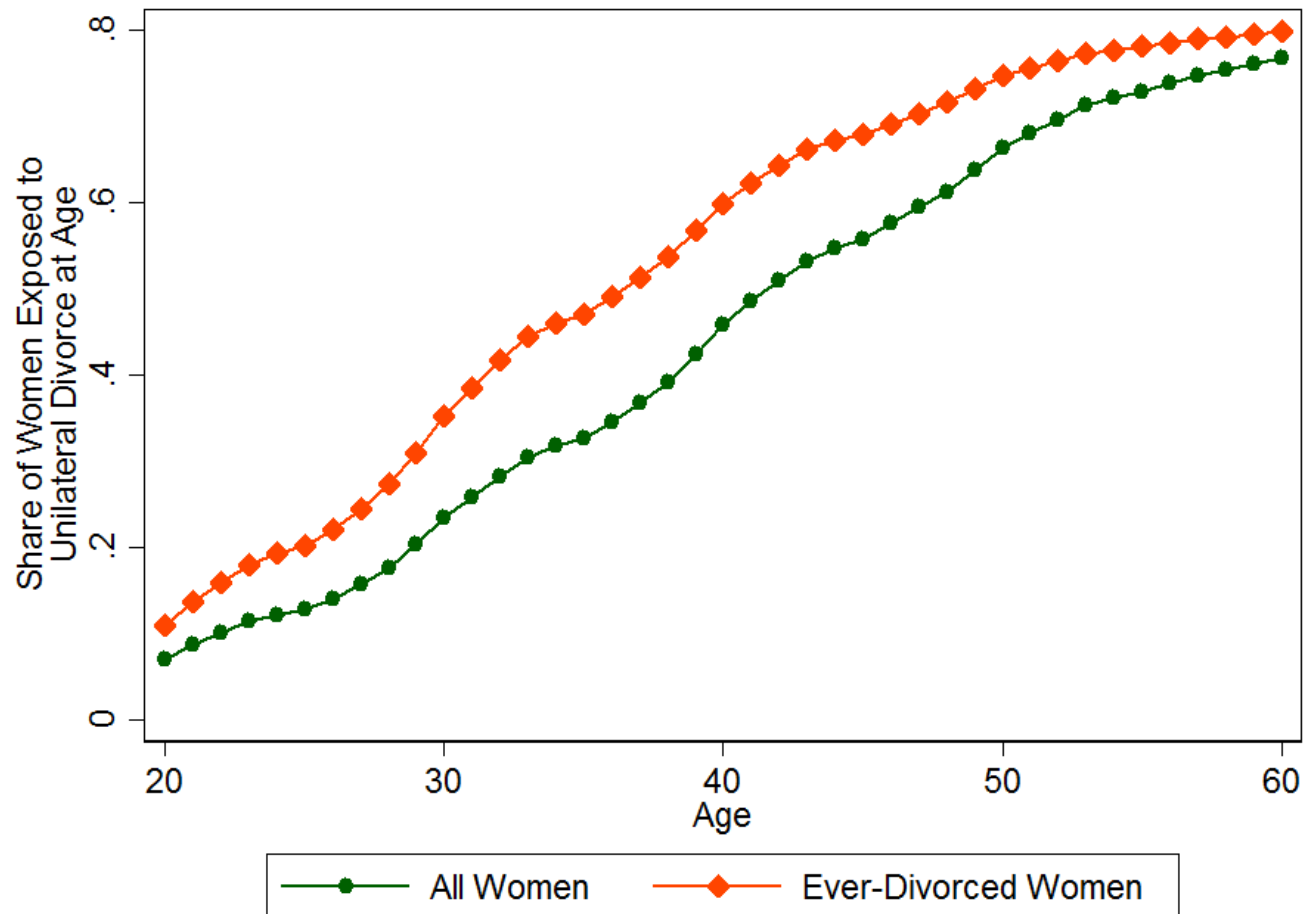
Source: Ever-divorced women over age 50-74 at first interview in the SIPP, 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race; education at interview; and urban location at interview. Robust standard errors reported in parentheses.

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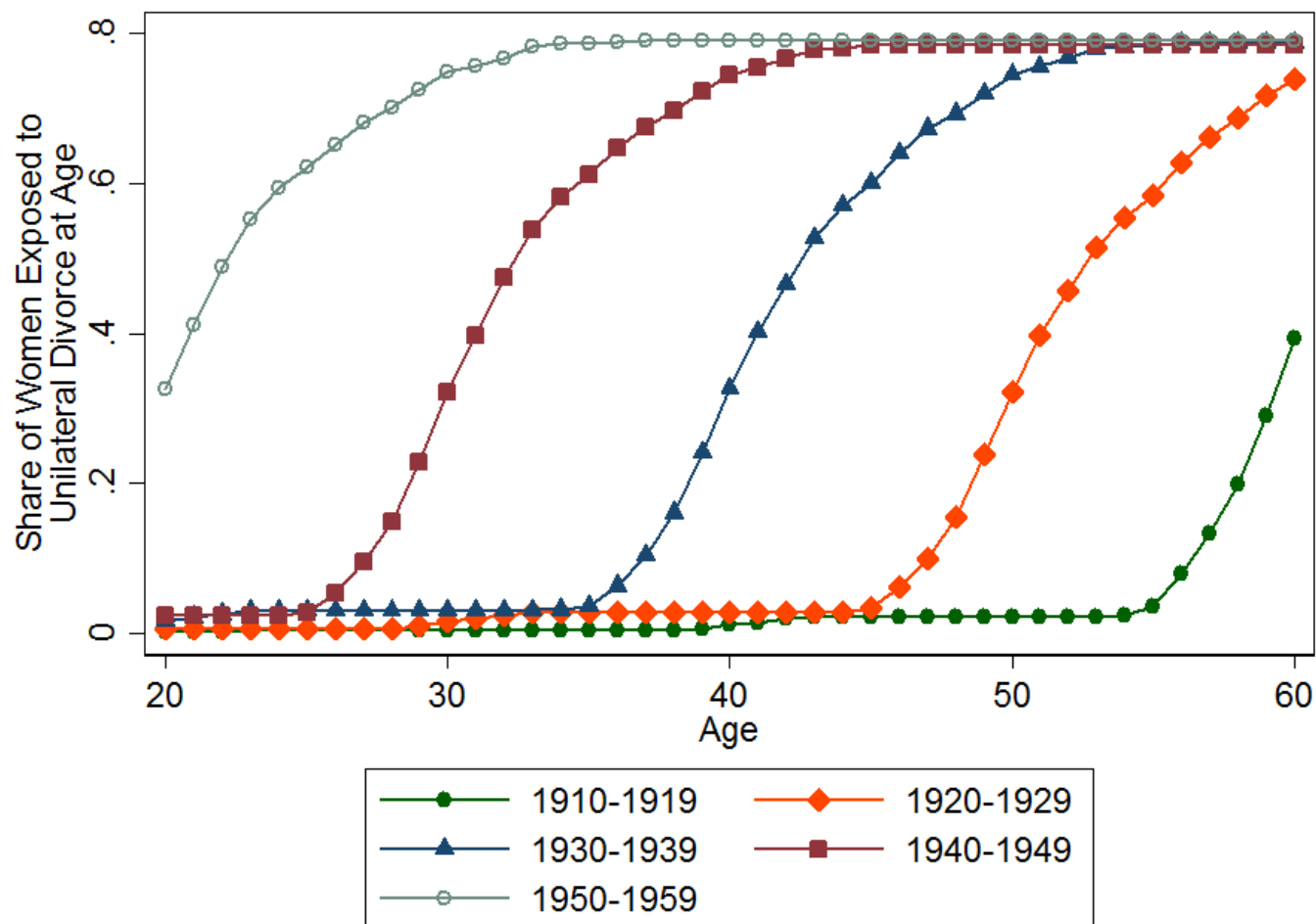
IMPACT OF CHANGING DIVORCE LEGISLATION

EXPOSURE TO UNILATERAL DIVORCE OVER THE LIFE-CYCLE



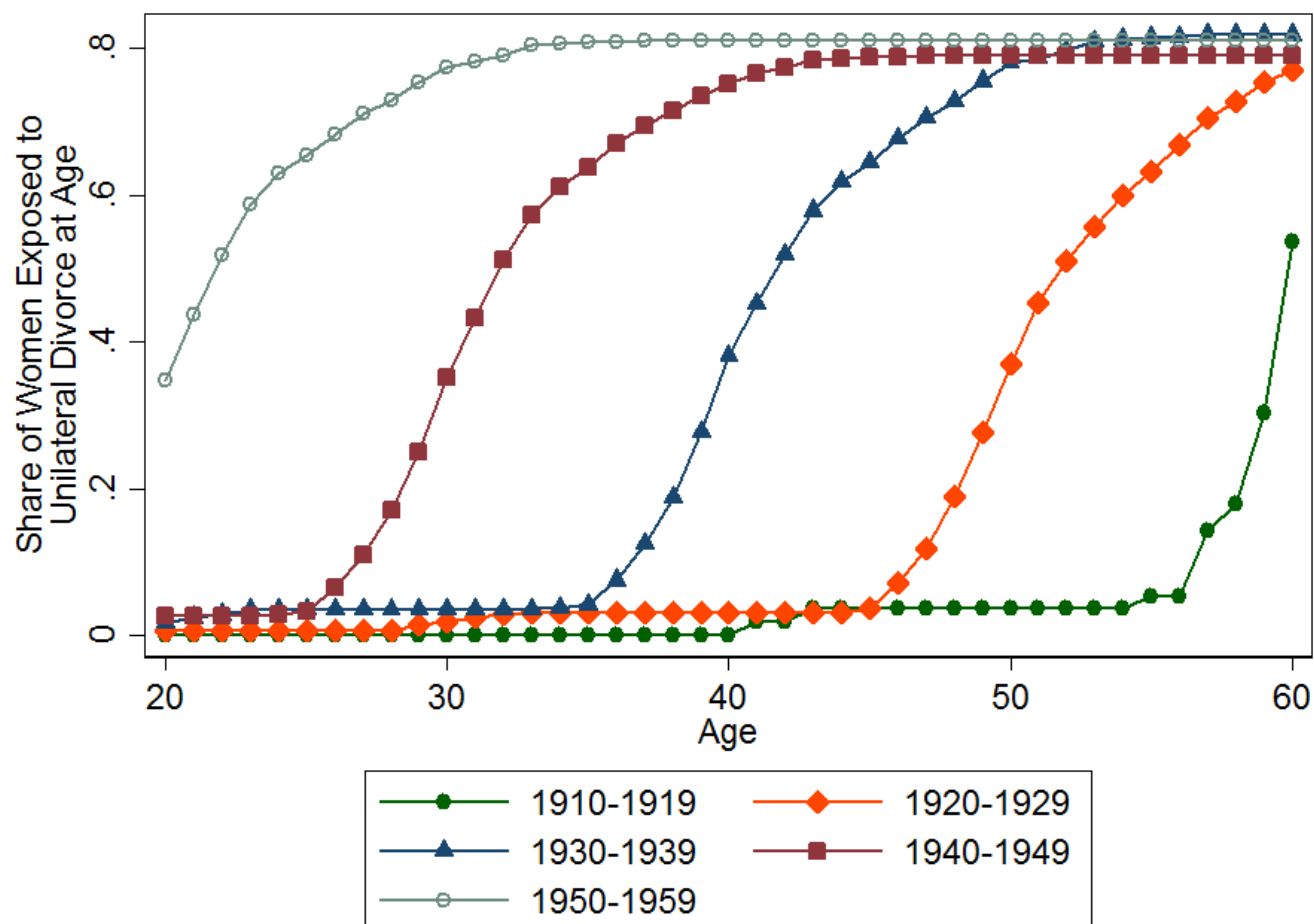
EXPOSURE TO UNILATERAL DIVORCE OVER THE LIFE-CYCLE BY COHORT

ALL WOMEN



EXPOSURE TO UNILATERAL DIVORCE OVER THE LIFE-CYCLE BY COHORT

EVER DIVORCED WOMEN



EFFECT OF AGE WHEN UNILATERAL DIVORCE BECAME AVAILABLE ON EVER-DIVORCE

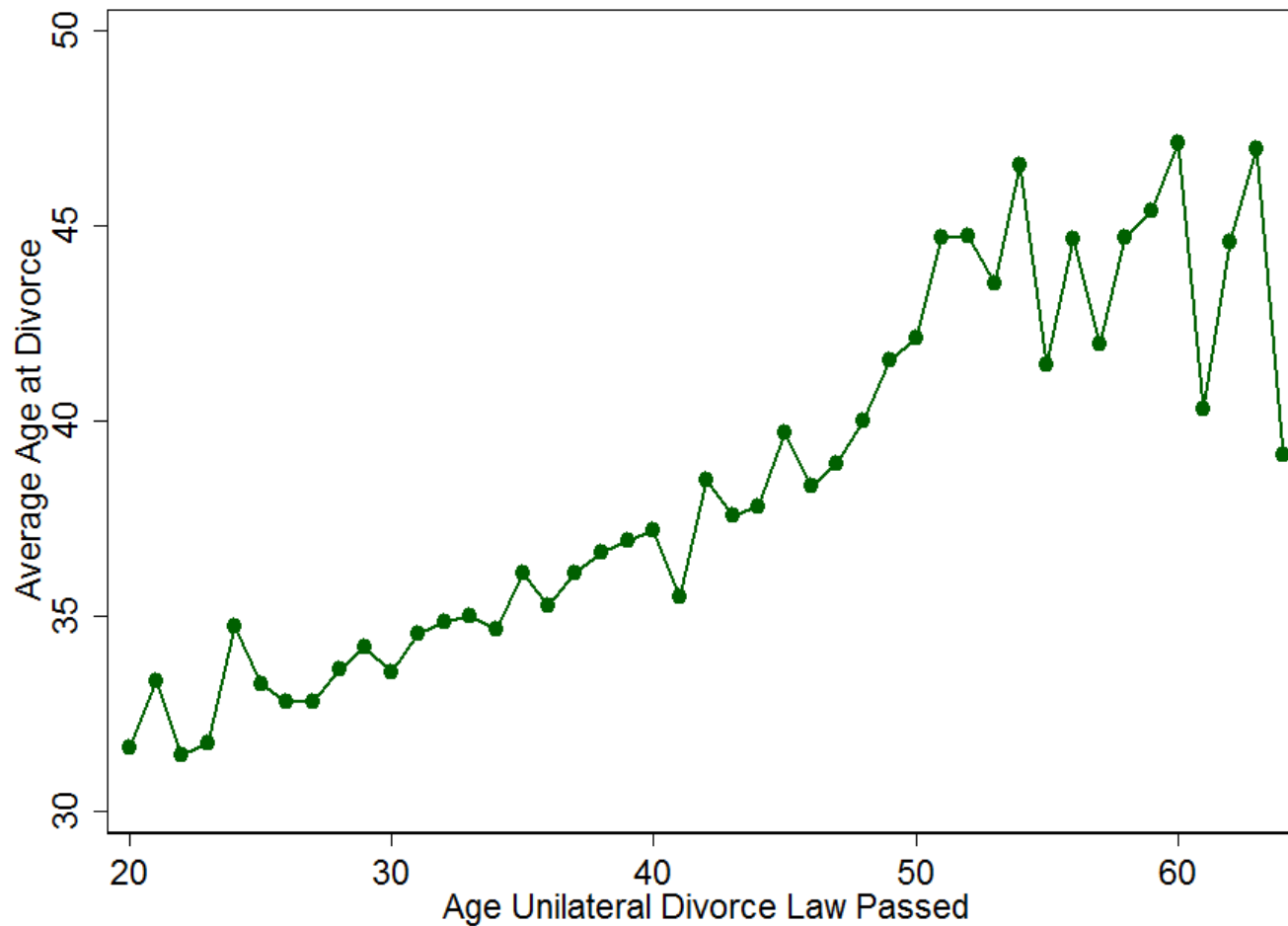
Sample:	Indicator for Ever Divorced				
	All Women	White Women	Non-White Women	Women with High School Education or Less	Women with More Than High School Education
Age Unilateral Divorce Became Available	0.00333 (0.00270)	0.00194 (0.00143)	0.00674 (0.00443)	-0.000442 (0.00204)	0.00609 (0.00370)
F-statistic	1.52	1.83	2.32	0.05	2.71
Observations	41,021	31,509	9,512	22,570	18,451

Source: Women over age 50 at first interview in the SIPP 1985-2008 Panels.

Note: Age when unilateral divorce is available is determined based on state of birth. Regression also controls for birth year, state of birth, and panel fixed-effects; race (if applicable); education at interview (if applicable); and urban location at interview. Women born in states where unilateral divorce was never available are omitted from this analysis. Standard errors clustered by state of birth reported in parentheses.

*/**/** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

AGE AT DIVORCE AND AGE UNILATERAL DIVORCE PASSED



EFFECT OF AGE WHEN UNILATERAL DIVORCE BECAME AVAILABLE ON AGE AT DIVORCE EVER-DIVORCED WOMEN

Sample	Age at Divorce				
	All Ever-Divorced Women	White, Ever-Divorced Women	Non-White, Ever-Divorced Women	Ever-Divorced Women with High School Education or Less	Ever-Divorced Women with More Than High School Education
Age Unilateral Divorce Became Available	0.166*** (0.0464)	0.304*** (0.0165)	-0.00714 (0.137)	0.380*** (0.126)	-0.106 (0.0735)
F-statistic	12.80	340.13	0.00	9.18	2.09
Observations	13,429	10,015	3,414	6,576	6,853

Source: Women over age 50 at first interview in the SIPP 1985-2008 Panels.

Note: Age when unilateral divorce is available is determined based on state of birth. Regression also controls for birth year, state of birth, and panel fixed-effects; race (if applicable); education at interview (if applicable); and urban location at interview. Women born in states where unilateral divorce was never available are omitted from this analysis. Standard errors clustered by state of birth reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

EFFECT OF AGE WHEN UNILATERAL DIVORCE BECAME AVAILABLE ON LATER-LIFE OUTCOMES

	Employed in First Month of SIPP Panel	Receive Social Security in First Month of SIPP Panel	Ever-Retired in First Month of SIPP Panel
All Women			
Age Unilateral Divorce Became Available	0.00479*** (0.000514)	-0.00217*** (0.000405)	0.00411** (0.00172)
Observations	44,282	44,282	44,282
Ever-Divorced Women			
Age Unilateral Divorce Became Available	0.00814*** (0.00151)	-0.00138 (0.00159)	<0.0001 (0.00352)
Observations	14,172	14,172	14,172
Never-Divorced Women			
Age Unilateral Divorce Became Available	-0.000675 (0.00129)	-0.00288*** (0.000718)	0.00680*** (0.00137)
Observations	26,849	26,849	26,849

Source: Women over age 50 at first interview in the SIPP 1985-2008 Panels.

Note: Age when unilateral divorce is available is determined based on state of birth. Regression also controls for birth year, state of birth, and panel fixed-effects; race (if applicable); education at interview (if applicable); and urban location at interview. Women born in states where unilateral divorce was never available are omitted from this analysis. Standard errors clustered by state of birth reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

AGE AT DIVORCE AND LATER-LIFE OUTCOMES

	Employed in First Month of SIPP Panel	Receive Social Security in First Month of SIPP Panel	Ever-Retired in First Month of SIPP Panel
All Ever-Divorced Women			
Age at Divorce	0.00298*** (0.000368)	-0.000864*** (0.000224)	-0.000778*** (0.000277)
Observations	13,429	13,429	13,429
White Ever-Divorced Women			
Age at Divorce	0.00312*** (0.000406)	-0.000979*** (0.000235)	-0.000526 (0.000337)
Observations	10,015	10,015	10,015
Ever-Divorced Women with High School Education or Less			
Age at Divorce	0.00244*** (0.000427)	-0.000636* (0.000361)	-0.000546 (0.000450)
Observations	6,576	6,576	6,576

Source: Women over age 50 at first interview in the SIPP 1985-2008 Panels.

Note: Regression also controls for birth year, state of birth, and panel fixed-effects; race (if applicable); education at interview (if applicable); and urban location at interview. Women born in states where unilateral divorce was never available are omitted from this analysis. Standard errors clustered by state of birth reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

INSTRUMENTAL VARIABLES REGRESSIONS: THE IMPACT OF AGE AT DIVORCE ON LATER-LIFE OUTCOMES

	Employed in First Month of SIPP Panel	Receive Social Security in First Month of SIPP Panel	Ever-Retired in First Month of SIPP Panel
All Ever-Divorced Women			
Age at Divorce	0.0510** (0.0224)	-0.00907 (0.00932)	-0.00357 (0.0223)
First-stage F-Statistic		12.80 (p=0.0009)	
Observations	13,429	13,429	13,429
White Ever-Divorced Women			
Age at Divorce	0.0299** (0.0144)	0.0112 (0.00882)	-0.0184* (0.00978)
First-stage F-Statistic		340.13 (p<0.0001)	
Observations	10,015	10,015	10,015
Ever-Divorced Women with High School Education or Less			
Age at Divorce	0.0319*** (0.00710)	-0.00115 (0.0224)	-0.0101** (0.00414)
First-stage F-Statistic		9.18 (p=0.0042)	
Observations	6,576	6,576	6,576

Source: Women over age 50 at first interview in the SIPP 1985-2008 Panels.

Note: First stage regression (impact of age unilateral divorce became available on age at divorce) in Table 2 above. Age when unilateral divorce is available is determined based on state of birth. Regression also controls for birth year, state of birth, and panel fixed-effects; race (if applicable); education at interview (if applicable); and urban location at interview. Women born in states where unilateral divorce was never available are omitted from this analysis. Standard errors clustered by state of birth reported in parentheses.

*/**/*** Significantly different from zero at the 0.10/0.05/0.01 level, two-tailed test.

SUMMARIZING ...

- We find that later exposure to unilateral divorce is associated with later age at divorce.
- For never-divorced women, we find that age when unilateral divorce was passed is associated with an increased likelihood of collecting social security and decreased likelihood of having ever retired from a job.
 - Mechanism unclear. Plan to explore employment history.
- For ever-divorced women, we find a causal effect of age at divorce on employment at age 50+.
 - We are capturing the effect of staying in marriage one more year given that the marriage will dissolve.
 - Perhaps this captures some of the self-insurance motive?
 - Perhaps employment history can help understanding mechanism?

(MUCH) MORE TO DO...

- Explore several mechanisms for the link between divorce and employment later in the life cycle such as:
 - Accumulation of human capital (via career/work choices or education).
 - Use employment history to get proxy for work attachment at time of marriage.
 - Use education history to see if individuals go back to school.
 - Accumulation of financial capital (via pension funds or other investments).
 - Presence/age of children at time of divorce.
- Other outcomes:
 - Information on assets and pensions around retirement age.
- Potentially: explore changing property division legislation, as well as unilateral divorce.