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Unintended pregnancy and the changing demography of American women, 1987–2008

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Abstract

BACKGROUND—In 1987, the U.S. unintended pregnancy rate was 59 per 1,000 women aged 15–44; the rate fell to 54 in 2008. Over this period, American women experienced dramatic demographic shifts, including an aging population that was better educated and more racially and ethnically diverse.

OBJECTIVE—This study aims to explain trends in unintended pregnancy and understand what factors contributed most strongly to changes in rates over time, focusing on population composition and group-specific changes.

METHODS—We used the 1988 and 2006–10 waves of the National Survey of Family Growth and employed a decomposition approach, looking jointly at age, relationship status, and educational attainment.

RESULTS—When we decomposed by the demographic factors together, we found that changes in population composition contributed to an increase in the overall rate, but this was more than offset by group-specific rate declines, which had an impact nearly twice as great in the downward direction. Increases in the share of the population that was cohabiting and the share that was Hispanic were offset by declines in rates among married women.

CONCLUSIONS—Our findings suggest that a combination of compositional shifts and changes in group-specific rates drove unintended pregnancy, sometimes acting as counterbalancing forces and at other times operating in tandem.

1. Introduction

The persistence of unintended pregnancy in the United States is a major public health concern. Births from unintended conceptions are associated with increased risk of many negative health and social outcomes, independently or because of their association with women's disadvantaged social and economic status (Gipson, Koenig, and Hindin 2008).

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Since surveillance efforts began about 25 years ago, about half of all U.S. pregnancies have been unintended. Most developed nations report much lower rates in comparison (Singh, Sedgh, and Hussain 2010). In addition, there is a great deal of variation by subgroup (Cubbin et al. 2002; Finer and Henshaw 2006; Finer and Zolna 2011; Forrest and Singh 1990; Forrest 1994; Williams 1991; Koren and Mawn 2010). Women aged 18–24, poor women, unmarried (and particularly cohabiting) women, and women of color report unintended pregnancy rates several times higher than the national rate (Finer and Zolna 2011).

Between 1987 and 2008, the U.S. unintended pregnancy rate declined from 59 to 54 per 1,000 women aged 15–44 (Guttmacher Institute 2013). Policymakers who hope to further reduce the unintended pregnancy rate may wish to better understand the factors that have contributed to this small but important decline. Efforts to understand disparities typically involve examining proximate determinants of fertility, specifically the biological and behavioral factors described by the Bongaarts (1978) framework (Forrest and Singh 1990; Forrest 1994; Frost, Singh, and Finer 2007; Schirm et al. 1982). More recent work focuses on the availability of contraceptives, the role of contraceptive use (Frost, Singh, and Finer 2007; Schirm et al. 1982; Westoff 1988), and the role of sexual partners in contraceptive use negotiation (Koren and Mawn 2010; Miller 1986).

Research has less frequently explored the impact of changes in population composition on unintended pregnancy rates. For example, less-educated women have higher unintended pregnancy rates than women with more education (Finer and Zolna 2011). If the proportion of the population that is educated were to increase, it is possible that the unintended pregnancy rate could decrease even if reproductive behavior did not change. And in fact, the percentage of women with at least a high school education rose from 59% to 87% between 1970 and 2009, and the percentage of women 19 and older pursuing post-secondary education has also rapidly increased (U.S. Department of Commerce Economics and Statistics Administration & Executive Office of the President Office of Management and Budget 2011). Other shifts in population composition have also occurred. Between 1987 and 2008, the proportion of women 35 and older increased by 13% (U.S. Census Bureau, Population Division 2010). Rates of cohabitation also increased dramatically in the same period (Teachman, Tedrow, and Crowder 2000; Cherlin 2010). Increases in cohabitation began in the 1970s and continue unabated today (Kennedy and Bumpass 2013; Manning 2013). The rise in cohabitation continues to redefine family formation patterns, and unintended pregnancy is particularly high among cohabiting women. Increases in the proportion of women who are cohabiting could lead to an increase in the rate, even if behaviors of cohabiting women do not change.

The aim of our paper is to use decomposition techniques to describe the factors underlying the decline in the unintended pregnancy rate from 59 per 1,000 women aged 15–44 in 1987 to 54 in 2008. We examine how the dramatic changes in the educational attainment, marital status, and racial-ethnic composition of American women in the last two decades have affected unintended pregnancy rates.

2. Data and methods

We decomposed the overall rate simultaneously by multiple demographic characteristics, specifically race and ethnicity, relationship status, and educational attainment. For each demographic subgroup, we decomposed the rates to determine what caused the change between two time points. We used a decomposition tool proposed by Preston, Heuveline, and Guillot to identify how much of a change in a rate can be attributed to change in population composition and how much to changes in subgroup-specific rates (2001). Although there is no single standard for decomposition, these authors' approach has the advantage of not having a residual or interaction term.

The difference between the two rates UPR^{t1} and UPR^{t2} is the change,

$$\begin{aligned} \Delta &= UPR^{t2} - UPR^{t1} = \sum_i (C_i^{t2} \times UPR_i^{t2}) - \sum_i (C_i^{t1} \times UPR_i^{t1}) \\ &= \sum_i [(C_i^{t2} - C_i^{t1}) \times (UPR_i^{t1} + UPR_i^{t2}) / 2] + \sum_i [(UPR_i^{t2} - UPR_i^{t1}) \times (C_i^{t1} + C_i^{t2}) / 2] \end{aligned}$$

where UPR = unintended pregnancy rate, C = demographic composition, and i = demographic subgroup.

The results decompose the total difference into two parts. The first part, $\sum [(C_i^{t2} - C_i^{t1}) \times ((UPR_i^{t1} + UPR_i^{t2}) / 2)]$, is the contribution of changes in population composition to the change in the overall rate. The second part, $\sum [(UPR_i^{t2} - UPR_i^{t1}) \times ((C_i^{t1} + C_i^{t2}) / 2)]$, is the contribution of group-specific rate changes to the overall rate change.

In order to perform the decomposition, we need the unintended pregnancy rate at times 1 and 2 for each subgroup, as well as the population composition across subgroups at both times. The ideal analysis would have a separate 'cell' for each combination of all the variables we are interested in – age, education, income, race and ethnicity, and relationship status – and would carry out a single multivariate decomposition in order to determine which subgroup combination had the most impact on the change in rates. However, calculating rates and proportions for every subgroup would be prohibitively difficult, for two reasons: first, very small sample sizes would result in each cell; and, second, data are not currently available for the years we are studying. However, if we limit ourselves to using a smaller number of demographic variables at once (say, three), and use a single data source that contains all these variables, it is possible to produce subgroup cells for which rates and population proportions can be calculated. The National Survey of Family Growth (NSFG) is one such dataset.

It is well established that abortions are substantially underreported in the NSFG. This means that the unintended pregnancy rate produced from such an analysis would be lower than the true rate because many abortions, which are typically unintended conceptions, are missing. However, we are primarily interested in the change in rates over time. If we assume that abortion underreporting does not change significantly over time (a reasonable assumption given published studies on this topic), we can perform a decomposition using these (artificially low) rates (Jones and Kost 2007; Fu et al. 1998). We refer to these rates as

“pseudo-unintended pregnancy rates” because these are not actual rates for the population. With these “pseudo” rates we can decompose and analyze the effects of changes in rates and changes in population composition for smaller groups of women representing multiple demographic characteristics, because we can easily tabulate the NSFG dataset to create population subgroups.

For this analysis, we mainly use women’s reports of the intendedness of their pregnancies from two waves of the NSFG (U.S. Department of Health and Human Services, National Center for Health Statistics 1988, 2010). The only additional data we use to calculate the rates are population-level birth counts from the NCHS (U.S. Department of Health and Human Services, National Center for Health Statistics 2011) and total pregnancy counts, which are estimates based on data from several sources, including the NSFG and NCHS.

In order to examine one of our key variables of interest, cohabitation, we overcame a data limitation of Cycle 4 (1988) of the NSFG. Unlike more recent cycles, the 1988 cycle did not have a complete cohabitation history. However, Hayford and Morgan analyzed the quality of retrospective data on cohabitation and found that although Cycle 4 data were not as detailed as later cycles of the NSFG, reports within five years of interview were comparable (2008). From these variables we created a nearly complete marital status history that included the cohabitation experience of women and were thus able to determine cohabitation status at pregnancy outcome for almost all pregnancies.

Small cell sizes also meant that in some situations we collapsed groups together. We also excluded cases where cohabitation and pregnancy reports were missing or inconsistent. We used Stata version 13 (StataCorp 2013) for data management and analysis.

3. Results

Before proceeding with our decomposition findings, we briefly discuss the population shifts during the period of our study. Table 1 shows large demographic shifts among American women. The female population aged 15–44 became slightly older, better educated, and more racially and ethnically diverse. The share of women 35 and older rose from 30% in 1987 to 34% in 2008. Compared to 1987, more and more women entered college and graduated in 2008. For instance, in 1987, 19% of women aged 20–44 obtained a college education. By 2008, this had increased to 31%.

This increasingly diverse nation became more apparent with the continued rise in the Hispanic population, from 9% in 1987 to 19% in 2008, while the share of white women declined from 78% to 65%. The relative household income distribution of women aged 15–44, however, remained fairly stable, with a small increase in the proportion of women reporting incomes below 200% of poverty.

Although comprehensive cohabitation information at pregnancy outcome was not available in the NSFG prior to 2002, we found a sharp decline in the proportion of women currently married at the time of pregnancy outcome – 52% in 1987, declining to 44% by 2008. In summary, between 1987 and 2008, population composition (in terms of age, education, race and ethnicity, and relationship status) shifted dramatically.

We now continue with the decomposition results (Table 2). The broadest finding is that changes in population composition contributed to an increase in the overall rate (total of +4.8), but this was more than offset by group-specific rate declines, which had an impact nearly twice as great in the downward direction (total of -9.0).

More specifically, the largest factor resulting in an increase in the overall rate was the growth in cohabiting women, whose average rates in every case were high, relative to the overall population. This can be seen by the positive figures in the “population change” column for all the cohabiting rows, collectively contributing +6.4. Among these, the biggest contributors were the growth in Hispanic contributors and white women with some college education. On top of this, rate increases among cohabiting subgroups collectively contributed +1.9 to the overall rate.

The overall increase in the Hispanic population, a group of women with relatively high rates of unintended pregnancy, also had a major upward effect on the overall rate. The five Hispanic rows (across education and marital groups) collectively contributed +5.7 to the overall rate.

These were offset by rate declines among married women of all races and educational levels. These groups’ rate changes collectively contributed -9.5 to the overall rate. Rate declines among single women (with the exception of black women with some college or more) contributed an additional -1.7 to the overall rate. Finally, the proportion of the population who were white, married, and with some college education declined substantially. The size of this subgroup’s population decline resulted in the group’s behavior playing a less important role in the overall rate.

4. Discussion

Our findings suggest that a combination of compositional shifts and changes in group-specific rates drove unintended pregnancy, sometimes acting as counterbalancing forces and at other times operating in tandem. Population composition was a force for change, separately from women’s reproductive behaviors.

We found that the population share of cohabiting women increased across all racial, ethnic, and education levels. Moreover, the unintended pregnancy rates of cohabiting women, which were already higher than those of married and unmarried women, increased between 1987 and 2008. However, this increase was more than offset by the decline in unintended pregnancy rates among all groups of married women. These major trends were the primary drivers of the overall decline in the rate. Hispanic women are the only group among married women whose population share is increasing, but their unintended pregnancy rates are declining. The unintended pregnancy rates of unmarried Hispanic women and more-educated black women are increasing, with a parallel increase in population share. These rates, however, are not as high as those of cohabiting women of the same education levels and race/ethnicity groups.

There are several limitations to the analysis presented. Because this is an aggregate-level analysis, we are not able to test if the differences between the components are statistically

significant, which is also a limitation of other decomposition studies (Deleone, Lichter, and Strawderman 2009). Furthermore, for the 1988 dataset we were only able to create a relationship history for women who reported dates concerning their relationships, which might have resulted in an underestimation of cohabitation rates.

In addition, there may be other more distal factors affecting the rates, such as access to reproductive services, affordability of contraception, local and state health policies, and the status of women, particularly their ability to negotiate their reproductive preferences with their partners; all of these could have an impact on the proximate determinants. We are only able to examine individual intentions and are not able to account for the role of the partner and the broader social, cultural, and economic intersecting contexts in which these decisions are made, not to mention the information, access, and health barriers that women face as they make their reproductive choices (Santelli et al. 2004).

Although unintended pregnancy rates declined over the period we studied (1987 to 2008), rates increased between 2001 and 2008 (Finer and Zolna 2014), likely due to population composition changes that may be offsetting improvements in contraceptive use. However, new data on contraceptive use through 2011–2013 indicate significant increases in use of highly effective long-acting contraceptive methods such as the IUD (Daniels, Daugherty, and Jones 2014), and data through 2010 indicate declines in many U.S. states in unintended pregnancy (Kost 2015). Although our analysis showed that population composition changes are clearly having an impact, it is possible that future trends may be driven to a greater extent by changes in behavior. Further research at the national level would provide additional insight into the impact of long-acting contraceptive methods and other group behaviors relative to continuing changes in population composition. Population shifts toward groups with higher unintended pregnancy rates mean that we must redouble our efforts to decrease unintended pregnancy through improvements in the education of providers, women, and the general public; contraceptive method development and better utilization of currently available methods; and improvements in delivery approaches and funding for reproductive health services.

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Table 1

Unintended pregnancy rates and population distribution

Group	Population distribution (%)		Unintended pregnancy rate*	
	1987	2008	1987	2008
All women			59	54
Age				
15–17	9	10	58	35
18–19	6	7	130	88
20–24	17	17	110	104
25–29	19	17	73	76
30–34	18	15	42	50
35–44	30	34	14	19
Educational attainment (limited to ages 20–44)				
Not HS graduate	15	10	66	101
HS graduate/GED	43	26	45	60
Some college/associate's degree	24	33	73	55
College graduate	19	31	39	29
Race and ethnicity (excludes other non-Hispanic)				
White non-Hispanic	78	65	48	38
Black non-Hispanic	14	15	115	92
Hispanic	9	19	70	79
Income as a percentage of poverty				
<100%	14	16	104	137
100–199%	17	19	79	85
200%	69	65	44	26
Relationship status (formal)				
Married	52	44	48	36
Unmarried	48	56	73	66

* Rate per 1,000 women in group aged 15–44.

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Table 2

Decomposition by age, relationship status, and educational attainment

Marital status	Education	Race	Population composition		Unintended pregnancy rate		Decomposition: Proportion of change in unintended pregnancy rate due to changes in...	
			1987	2008	1987	2008	Population composition	Group-specific rates
Married	HS diploma or less	Hispanic	1.6	2.6	118	60	+0.9	-1.2
Married	HS diploma or less	White	4.7	2.3	72	57	-1.5	-0.5
Married	HS diploma or less	Black	0.6	0.4	98	54	-0.2	-0.2
Married	Some college or more	Hispanic	2.7	4.2	71	48	+0.9	-0.8
Married	Some college or more	White	37.7	29.0	46	28	-3.2	-5.9
Married	Some college or more	Black	3.0	2.9	74	47	-0.1	-0.8
Cohabiting	All Educ levels	Hispanic	0.7	2.6	125	124	+2.4	-0.0
Cohabiting	HS diploma or less	White	0.8	1.4	100	123	+0.6	+0.3
Cohabiting	HS diploma or less	Black	0.2	0.3	209	219	+0.3	+0.0
Cohabiting	Some college or more	White	3.1	6.0	60	92	+2.2	+1.5
Cohabiting	Some college or more	Black	0.4	0.9	155	178	+0.9	+0.2
Not in current union	HS diploma or less	Hispanic	2.4	3.6	49	46	+0.6	-0.1
Not in current union	HS diploma or less	White	9.5	8.9	23	21	-0.1	-0.1
Not in current union	HS diploma or less	Black	3.1	3.2	72	61	+0.1	-0.4
Not in current union	Some college or more	Hispanic	2.2	4.0	50	44	+0.9	-0.2
Not in current union	Some college or more	White	21.8	21.7	32	28	-0.0	-1.0
Not in current union	Some college or more	Black	5.5	5.9	67	72	+0.3	+0.3
Overall rate					49	45	+4.8	-9.0

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