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Routledge
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Mental Health of Lesbian, Bisexual, and Other-Identified Parents and Non-Parents from a Population-Based Study

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ABSTRACT

Studies have compared sexual minority mothers (mostly lesbian) to heterosexual mothers on mental health, but little research has compared sexual minority women with and without children. This was the first study to compare sexual minority women who did or did not have children, using a population-based sample with three age cohorts. Unlike prior convenience studies, this study finds parents more likely to be bisexual, in a relationship with a man, and non-urban. Bisexual parents scored higher than lesbian parents on psychological distress and lower on life satisfaction and happiness; they also reported less connection to the lesbian, gay, bisexual, and transgender (LGBT) community. Among lesbians, the oldest non-parents reported more happiness and less psychological distress than the youngest non-parents. Parents with other identities perceived more social support from friends and reported lower levels of internalized homophobia than bisexual parents. The results will help professionals and policymakers understand how parenthood status affects women across sexual identities.

Convenience studies of lesbians conducted in the 1970s and 1980s, which rarely included bisexual women, found them to be demographically different from heterosexual women (c.f. Albro & Tully, 1979; Rothblum, 1989). This was often attributed to the fact that lesbians and heterosexual women were recruited via different sources. However, once population-based studies included items about sexual orientation, these differences persisted, showing that women who were members of sexual minority communities were usually more highly educated, less religious, in relationships of shorter duration, and less likely to have children (c.f. Rothblum, Balsam, Riggle, Rostosky, & Wickham, 2020a, for a review). Whereas parenthood has been the norm for most heterosexual women, it is a minority status for sexual minority women.

It was this consistent cultural difference in parenthood status that was the impetus for our research. We wanted to know what it means to be a sexual

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minority parent in terms of mental health and connection to the sexual minority community. We were also interested in whether there were differences across age cohorts given that older sexual minority women were rearing children at a time when the lesbian communities were often separatist (and thus hostile to male children and male partners or ex-partners; Bradford, Ryan, Rothblum, & Honnold, 2013), and there were few role models or resources for sexual minority parenting. In addition, there is a need for demographic descriptive data on sexual minority women with and without children from population-based studies.

The effects of parenthood status on adults have mainly been studied in heterosexual men and women, despite societal changes in attitudes toward same-sex parenting and advancements in lesbian, gay, bisexual, transgender, and queer/questioning (LGBTQ) rights. While most children of sexual minority parents were conceived within different-sex relationships (Goldberg, Gartrell, & Gates, 2014), advancements and availability of reproductive technology have led to an increasing number of same-sex couples choosing parenthood (Ryan & Berkowitz, 2009). The present study is the first to use a United States (U.S.) population-based sample to compare the mental health of sexual minority women (lesbian, bisexual, and those with other non-heterosexual sexual identities) with children to those without children. It also compared sexual minority women across three age cohorts, given the changes in attitudes toward sexual minority parents during the past three decades. There has been little theorizing about how parenthood status affects the mental health of sexual minority women as attitudes toward them—by the general public as well as the LGBTQ communities—have changed.

Changing attitudes toward sexual minority mothers over time

Historically, the U.S. public had very negative attitudes toward lesbian and bisexual mothers involved in relationships with other women. Homosexuality was viewed as immoral, so lesbian mothers often lost custody of their children (Falk, 1989). Judges frequently made decisions based more on their own homophobic stereotypes than on the cases presented to them. Moreover, homosexuality was considered a mental illness until 1973 (*Diagnostic and Statistical Manual of Mental Disorders, DSM-II*, American Psychiatric Association, 1968), and "ego-dystonic homosexuality" continued as a diagnosis until 1987 (*DSM-III;* American Psychiatric Association, 1987).

These negative attitudes were also evident among the predominantly White and middle-class lesbian communities of the 1980s. Lesbian communities were not welcoming to children, and many lesbian feminists eschewed traditional gender roles, including childcare (Bradford et al., 2013). In the National Lesbian Health Care Survey, many lesbian and bisexual women stated that they did not want children, their lover didn't want children, they didn't want

male children, they didn't want to rear children in an unaccepting world, or they didn't want to rear a child in the lesbian or gay community (Bradford et al., 2013).

Yet by the early 1980s, attitudes in lesbian communities toward parenting had become more positive. It was clear that many lesbians were becoming mothers and that their children were comparable to children with heterosexual parents in several ways (c.f., Bos & Gartrell, 2020, for a review). More recently, in the U.S. National Longitudinal Lesbian Family Study (NLLFS; Gartrell, Rothblum, Koh, Van Beusekom, & Bos, 2019), parents were asked to reflect back on their most challenging and best parenting experiences over 25 years. They mentioned distress about their children's experiences of stigmatization, non-acceptance by their family of origin, the need to educate others about their non-traditional family, and lack of legal protection. They spoke favorably about being role models, participating in the LGBTQ-parent community, teaching their children to value diversity, and witnessing their children's pride in their family.

Consequently, when conducting research on sexual minority (SM) parents versus non-parents it is important to take different age cohorts into account, because attitudes, policies, and laws concerning SM individuals and parenting have evolved over time. Acceptance of LGBT individuals has increased in most countries from the 1980s to the present decade (The Williams Institute, UCLA School of Law, 2019b) although discrimination still exists (c.f. Mallory, Vasquez, & Meredith, 2020; Romero, Goldberg, & Vasquez, 2020). Regarding attitudes toward SM parenting, 29% of respondents indicated their support of adoption by same-sex couples in a 1992 U.S. population-based study; by 2014, 63% of respondents endorsed it (Gallup, 2014). Thus, older SM parents reared their children in a society that was quite negative about nontraditional families. Younger sexual minority parents had the benefit of advances in reproductive technology and greater acceptance by the general public.

Understudied groups of sexual minority mothers

Generally, the research on SM parents has compared them with heterosexual parents or with population-based samples (presumed heterosexual). Many of these studies, though, refer to same-gender parents as "lesbian" and "gay," thus rendering invisible parents who are bisexual or who have other sexual identities.

Bisexual mothers

The terms biphobia and binegativity have been used to illustrate that there is a unique form of bias against people who have both same-sex and different-sex attractions and sexual relationships. Bisexuals encounter this bias within

heterosexual as well as sexual minority communities (see, for instance, the work of Dodge & Sandfort, 2016; Garelick et al., 2017). Dyar, Feinstein, and London (2014) compared single bisexual women and those in relationships with women or men. Bisexual women in relationships with women reported that they were often assumed to be lesbian even when they had disclosed their bisexual identity. Bisexual women in relationships with men reported more exclusion by lesbian women and gay men, less openness about their sexual orientation, and more depressive symptoms.

Qualitative research by Tasker and Delvoye (2015) with bisexual mothers in the United Kingdom found that, regardless of partner gender, bisexual parents often concealed their identity when interacting with the children's schools, while acknowledging that this had psychological costs. All participants had experienced binegativity, and most had been excluded by lesbian communities. Yet, some research has identified the ways bisexual mothers experience positive aspects of parenting, including prioritizing their commitment to their children, maintaining strong identities as bisexual, and feeling encouraged to teach their children to accept sexual and gender diversity (Bowling, Dodge, & Bartelt, 2017; Tasker & Delvoye, 2015).

Other sexual minorities

Population-based surveys have overwhelmingly asked respondents if they identify as lesbian, gay, or bisexual, omitting newer identities (c.f., Reczek, 2020, for a review). Yet recent research on queer (Goldberg, Rothblum, Russell, & Meyer, 2020), pansexual (Galupo, 2020), and asexual (Rothblum, Krueger, Kittle, & Meyer, 2020b) samples has found that individuals with these identities are different on demographic variables and relationship patterns. There has been almost no research on parenting status among SM individuals who do not identify as LGB (Goldberg & Allen, 2020).

Ross et al. (2017) compared pregnant plurisexual (those who were attracted to more than one gender) women partnered with women versus men. Women whose partners in the past five years had been predominantly male reported less outness, less connection to the LGBT community, and greater anxiety. Manley, Goldberg, and Ross (2018) interviewed pregnant or postpartum plurisexual women about their connections with the LGBTQ communities. Whereas most women had joined parenting groups, the women varied widely in their involvement with LGBTQ communities. About one-third had never been involved in LGBTQ community events other than individual friendships, and about one-third expressed no interest in being involved in LGBTQ communities. The women mentioned a variety of barriers to joining LGBTQ communities, including not feeling accepted, not being close to, or not feeling authentic within LGBTQ community spaces.

Sexual minorities without children

The effects of parenthood status on the mental health of heterosexual parents have been studied for many decades (c.f., Umberson, Pudrovska, & Reczek, 2010, for a review), but there has been little research on correlates of being or not being a parent among sexual minorities. Morris, Balsam, and Rothblum (2002) compared lesbian and bisexual mothers who had children before coming out, those who had children after coming out, and those without children. Women who had children before coming out were older, more likely to have married men, and the most likely to have ever sought mental health counseling of the three groups. Lesbian and bisexual women with children were more likely to identify as African American or Native American than Latina or White, and least likely to identify as Asian American. Women without children came out at younger ages than women who had children before coming out. Regarding ethnicity, several studies found that women of color across the U.S. are more likely to parent than White women (Kastanis & Wilson, 2014; The Williams Institute, UCLA School of Law, 2019a). Henehan, Rothblum, Solomon, and Balsam (2007) found that members of male and female same-sex couples without children reached milestones in the coming out process (e.g., coming out to someone else, having their first same-sex relationship) at earlier ages than those with children.

Aims of the present study

The two principal research questions in the present study were: (1) are there differences in mental health variables between SM parents and non-parents, comparing lesbian, bisexual, and women with other sexual identities; and (2) what is the effect of age cohort for parents and non-parents, given the changes in attitudes toward SM parenting over past decades? In examining these questions, a broad perspective on mental health was adopted that considered direct measures of mental health (i.e., psychological distress, life satisfaction, and happiness) as well as measures influencing mental health (i.e., social support, felt stigma, internalized homophobia, and community connectedness). These mental health factors and those that influence mental health are measured in the *Generations* study (e.g., Krueger, Lin, Kittle, & Meyer, 2020; Meyer, Marken, Russell, Frost, & Wilson, 2020; Rothblum et al., 2020b), and provide a unique opportunity to study differences between sexual minority parents and non-parents.

Regarding parenting status, we hypothesized that the groups would differ on the studied mental health measures. We predicted that bisexual parents may score better than lesbian parents on measures of mental health because bisexual mothers may be viewed as heterosexual by the general public and thus be more accepted as parents. At the same time, we also predicted that, due to binegativity, bisexual parents may experience less connection to the LGBT

community than lesbian parents. We did not have any predictions for the other sexual identities given the lack of prior research on this population.

In addition, we hypothesized differences among subgroups of parents regarding generational cohorts, based on experiences in their early life. We were fortunate to have permission to use the *Generations* dataset, which surveyed three age cohorts of sexual minorities, described as coming of age during the Stonewall Inn riots (1969), the formation of ACT UP (1987), and marriage equality in some states (2003). Although societal acceptance of same-sex couples having children has increased in the past decades, implying that non-heterosexual parents may no longer experience substantial rejection from society, these changes are relatively recent. Therefore, we predicted that the oldest age cohort of parents would score lower on mental health measures than the younger two age cohorts.

Materials and methods

Participants

We had access to the data from the first wave of the *Generations* study (Meyer et al., 2020), which collected data on health and well-being across three cohorts of lesbian women, gay men, and bisexual people (LGB) who did not identify as transgender and who came of age in the U.S. at different time periods. That study included a measure of psychological distress, measures related to mental health (life satisfaction, happiness, and social support from family and friends), and measures focused on LGB mental health (felt stigma, internalized homophobia, and community connectedness).

In the *Generations* study, the youngest cohort of participants, referred to as the *cultural inclusion* generation or *Equality* cohort, consisted of those who were 18–25 years old when recruited, and entered adulthood after sodomy laws were ruled unconstitutional, the federal policy "Don't ask, don't tell" was reversed by Congress, and significant parts of the Defense of Marriage Act were invalidated by the Supreme Court. Participants in the middle cohort, called the *institutional advancement* generation or *Visibility* cohort, were 34–41 years old when recruited. These participants entered adulthood at the height of the HIV/AIDS epidemic as treatments were being developed. The oldest cohort, called the *identity formation generation* or *Pride* cohort, was 52–59 years old when recruited and comprised participants who entered adulthood in a time when homosexuality was considered a mental health disorder. They experienced the start of the modern gay liberation movement and were impacted by the emergence of a gay identity, discourse about gay pride, and coming out. The label of each age cohort (i.e., *Equality, Visibility*, and *Pride*) was chosen by the *Generations* study to reflect a significant and distinct event in LGB history that participants experienced in their early life:

marriage equality in Massachusetts (2003), the formation of ACT UP (1987), and the Stonewall Inn riots (1969). These events occurred when participants were 10 years old plus/minus 3 years, as this age span is considered important for sexual development (Herdt & McClintock, 2000).

The participants were recruited by the U.S. survey research company Gallup, Inc., which used random-digit dialing of landlines and cell phones to interview U.S. adults. Participants were recruited in a daily random sample of U.S. adults between March 2016 and March 2017, with an over-sample of Black and Latino respondents who were sampled between April 2017 and March 2018. A total of 366,644 participants representing the U.S. population of people with a landline or mobile phone were screened by Gallup for inclusion in the *Generations* study (Meyer et al., 2020). This screening comprised a two-step process in which LGBT individuals were first identified in the general U.S. population. Next, eligible respondents who agreed to participate completed a self-administered online or paper-based questionnaire. Straight/heterosexual respondents were not eligible for the *Generations* study, and respondents identifying as transgender regardless of sexual orientation were recruited into a different study (www.trans pop.org).

Of all 366,644 participants, 3.5% identified as LGBT, and 27.5% of these participants met the eligibility criteria for study participation. Eighty percent of the eligible respondents agreed to participate, and of those, 48% completed the survey, for a total response rate of 39%. The dataset for the first wave of the *Generations* study comprised 1,563 participants, of whom 1,369 were recruited in the original sample, and 194 were recruited in the oversample. Of the 1,563 enrolled participants, 45 participants were removed from the dataset because they identified as transgender ($n = 27$), or because they provided an ineligible year of birth ($n = 18$). Therefore, the final *Generations* baseline dataset comprised 1,518 participants (1,331 from the original sample and 187 from the oversample).

Given the current study aims, we excluded all participants with a male sex assigned at birth ($n = 706$) based on the survey question "What sex were you assigned at birth, on your original birth certificate?" with female and male as response categories (there were no participants with male sex assigned at birth who identified as lesbian or bisexual). Next, based on the survey question "Which of the following best describes your current sexual orientation?" nine participants identifying as straight/heterosexual were excluded. Based on the survey question "Do you have any children?" another seven participants for which the parenthood status was unknown were excluded. Last, two participants with missing values on most variables of interest were excluded. In the end, our sample comprised 794 participants (692 from the original sample and 102 from the oversample), including 222 parents (22.8%) and 572 non-parents (77.2%).

Measures

Demographic characteristics

The following demographic characteristics were assessed in the *Generations* study (Meyer et al., 2020) and taken into account in the current study: year of birth (from which a respondent's age in years was derived), sexual orientation (with choices straight/heterosexual, lesbian, gay, bisexual, queer, same-gender loving, or other [write-in]), current gender identity (woman, man, transgender woman/male-to-female, transgender man/female-to-male, non-binary/genderqueer), race/ethnicity (Asian/Asian-American, Black/African-American, Hispanic/Latino/Spanish origin, Middle Eastern/North-African, Native Hawaiian/Pacific Islander, White, American-Indian/Alaskan-Native), whether or not the participant was born in the U.S., the U.S. region of residence (Northeast, Midwest, South, West), the participant's level of education (high school or less, some college, college degree, more than college), employment status (employed full time, employed part time, unemployed, not in work force), urbanicity (non-urban, urban), whether or not the participant was partnered at the time of data collection, and if so, the partner's gender (woman, man, transgender woman/male-to-female, transgender man/female-to-male, non-binary/genderqueer).

Psychological distress

The Kessler-6 Psychological Distress Scale (Kessler et al., 2002) was used to assess psychological distress. Items asked how often in the past 30 days participants had felt "nervous," "hopeless," "restless or fidgety," "so depressed that nothing could cheer you up," "that everything was an effort," and "worthless." Participants answered on a 5-point Likert scale ranging from "none of the time" to "all of the time" (Cronbach's α = .892). For each participant, the individual item scores were added into a total scale score with higher values indicating more psychological distress. Multiple validation studies found that the Kessler-6 has very good concordance with clinical diagnoses of severe mental illnesses in general U.S. population samples (Kessler et al., 2003).

Life satisfaction

Life satisfaction was assessed with the Satisfaction with Life Scale by Diener, Emmons, Larsen, and Griffin (1985). This scale assesses participants' global satisfaction with life as a "cognitive-judgmental process" (Diener et al., 1985, p. 71) and comprises 4 items that are rated on a 7-point Likert scale ranging from strongly disagree to strongly agree (Cronbach's α = .924). Examples of items are: "The conditions of my life are excellent" and "I am satisfied with life." A mean score was calculated for each participant with higher values representing greater satisfaction with life. Many different studies found that

this scale to be a valid and reliable measure of life satisfaction across different cultural contexts (e.g., Pavot & Diener, 2008).

Happiness

A single item was used to assess happiness (i.e., "Generally, how would you say things are these days in your life? Would you say ... ") to which participants responded on a 3-point Likert scale ranging from not too happy to very happy. A higher score represented more happiness. Studies have shown that a single item can accurately measure happiness (e.g., Cheung & Lucas, 2014)

Social support

Two subscales of the Multidimensional Scale of Perceived Social Support (MSPSS; Zimet, Dahlem, Zimet, & Farley, 1988) were used to assess social support from family (4 items; Cronbach's α = .924) and social support from friends (4 items; Cronbach's α = .946). Scale items (e.g., "My family really tries to help me") asked participants to rate their levels of agreement on a 7-point Likert scale ranging from very strongly disagree to very strongly agree. For each participant, a mean score was calculated for each of the two subscales with higher values indicating more perceived social support (from family or friends). The validity and factor structure of the MSPSS have been demonstrated in different samples and contexts (López Ramos, Fernández Muñoz, Navarro-Pardo, & Murphy, 2016).

Felt stigma

The participants' perceptions of stigma in their environment were assessed with Herek's (2008) scale. This scale consists of three items, such as "Most people where I live think less of a person who is LGB," which are scored on a 5-point Likert scale ranging from strongly disagree to strongly agree (Cronbach's α = .702). A mean score was calculated for each respondent with higher scores representing more felt stigma. Although Herek's scale is very often used in research, it has not been validated yet.

Internalized homophobia

The degree to which participants accept sexual stigma as part of their value system and self-concept (i.e., internalized homophobia) was assessed with the Revised Internalized Homophobia Scale (IHP-R; Herek, Gillis, & Cogan, 2009). The five items (e.g., "I wish I weren't LGB") were scored on a 5-point Likert scale ranging from strongly disagree to strongly agree (Cronbach's α = .730). A mean score was calculated for each respondent with higher scores representing more internalized homophobia. Acceptable construct validity has been found for the original IHP scale (Herek, Cogan, Gillis, & Glunt, 1998), and high correlations were found between the original and revised IHP (Herek et al., 2009).

Community connectedness

An adapted 7-item scale of Frost and Meyer's (2011) 8-item scale was used for assessing the desire for and strength of LGBT community affiliation. Items (e.g., "You feel you're a part of the LGBT community") were scored on a 4-point Likert scale ranging from strongly disagree to strongly agree (Cronbach's α = .865). A mean score was calculated for each respondent with higher scores indicating greater community connectedness. The factorial, convergent, and discriminant validity of the 8-item scale in different populations of sexual minority individuals were demonstrated by Frost and Meyer (2011).

Data analysis

The analytical procedure comprised several steps, and all analyses were conducted in SPSS version 25 using the Complex Samples module so that sample weights were applied to the analyses. First, F tests were performed to examine bivariate associations between the demographic characteristics and parenting status separately for lesbian/gay women, bisexual women, and women reporting a sexual orientation other than lesbian/gay or bisexual. Next, two by three ANOVAs were performed to evaluate differences in the mental health factors between non-parents and parents, and between the three age cohorts (youngest vs. middle vs. oldest age cohort). These analyses were done for lesbian/gay women, bisexual women, and women reporting a sexual orientation other than lesbian/gay or bisexual, separately. As we were also interested in whether or not potential mental health differences between non-parents and parents are equal across women in the different age cohorts, the interaction between parenthood status and age cohort was tested in each of these ANOVAs. Whenever this interaction effect and/or the main effect of age cohort was significant, post-hoc analyses were performed to further examine significant effects. Finally, we performed three-way ANOVAs separately for non-parents and parents to examine differences in mental health factors across lesbian/gay, bisexual women, and other sexually oriented women, while controlling for the effect of age cohort. In this way, we looked into mental health differences between mothers with different sexual orientations, and between non-mothers with different sexual orientations. As for the pathway to parenthood in the sampled sexual minority women, the *Generations* questionnaire did not ask about how family formation occurred. Therefore, this could not be further examined here.

Missing values were present in both the demographic characteristics and the mental health factors, though the numbers of missing values were rather low. Specifically, in all studied demographics, missing values (%) were only present for whether or not a participant was born in the U.S. (0.1%), employment status (4.9%), whether or not a participant was in a relationship (0.5%), and if so, the

gender of the partner (<0.1%). As for the mental health factors, missing values were present in felt stigma (0.5%), internalized homophobia (1.4%), community connectedness (3.5%), social support of family (0.9%) and friends (1.1%), psychological distress (0.8%), life satisfaction (1.13%), and happiness (2.6%). Missing values for scale scores were imputed by chained equations (fully conditional specification) using predictive mean matching (Little, 1988) by the *Generations* Study researchers (see Krueger et al., 2020). In this imputation method, each imputed variable serves as a predictor in the imputation regression models for all other imputed variables that are used to predict the missing values. Rather than (total) scale scores, individual scale items were imputed, implying that a maximum percentage of missing item responses was required for a single imputation. To improve matching, the variables age, race/ethnicity, and sex assigned at birth were included in each imputation model. For all imputations, the full Generations baseline sample (N = 1,518) was used. Krueger et al. (2020) note that predictive mean matching can be considered a general form of hot-deck imputation, in which missing values are replaced by matching non-respondents to respondents in the same dataset only using categorical predictors (p. 30). These matching-imputation methods are commonly used, because they recreate distributions well by using observed values for imputations, and they are also more robust to violation of the normality assumption than parametric imputation methods (Morris, White, & Royston, 2014).

In all analyses, survey weights were utilized to allow for generalization to the U.S. population of sexual minority women aged 18–25, 34–41, and 52–59 (i.e., each age cohort). The sample is not necessarily representative of all people in the U.S., because the target population and sampling frame excluded people in other age groups, people with low educational attainment, and people with no cell or landline phone (see Krueger et al., 2020 for details). For all analyses, p values smaller than .05 were considered statistically significant.

Ethical approval

This study received research ethics committee approval from the Institutional Review Board of the University of California, Los Angeles, and the Ethics Review Board of the Faculty of Social and Behavioral Sciences of the University of Amsterdam (the Netherlands) approved it for secondary analyses (Protocol number: 2019-CDE-10651).

Results

Demographic characteristics by sexual orientation and parenthood status

Table 1 presents demographic characteristics of the respondents by sexual orientation and parenthood status. In the full sample of N = 794 respondents

who identified their sex assigned at birth as female, most women identified as bisexual (n = 352; 52.4%), followed by lesbian/gay (n = 301; 30.0%), and another sexual orientation (n = 141; 17.7%; Unweighted sample sizes and weighted percentages are reported here and in Table 1). The latter group comprised women identifying as queer (n = 68; 8.2%), same-gender loving (n = 15; 1.2%), pansexual (n = 31; 4.4%), asexual (n = 9; 1.4%), or as sexually oriented in any other way (n = 18; 2.4%). Although a substantial number of queer-identifying respondents were part of this group, we decided not to create a separate queer group as sample sizes would be too small for intelligible analyses (but see the work of Goldberg et al., 2020, who focused specifically on queer-identifying respondents in the *Generations* study).

Table 1 reveals that in each of the three sexual orientation groups, non-parents were more prevalent than parents, and most women belonged to the youngest age cohort. Further, most lesbian/gay and bisexual participants identified as woman and to a far lesser extent as non-binary/gender queer. However, in women who identified their sexual orientation as Other, the proportion of non-binary/gender queer identified people was largest (see Table 1). Frequency analyses also revealed that most participants were White, although a substantial number of participants were Black, Latino, or of a different race (See note in Table 1 for details). Most participants were born in the U.S., full-time employed, urban dwellers, and in a relationship. Non-transgender woman and non-transgender man were the most prevalent gender of the current partner. Partners of lesbian/gay participants were overwhelmingly female and partners of bisexual women were overwhelmingly male. Most participants had some college education or less. In general, the participants were equally distributed across the four U.S. census regions, although most lesbian/gay women were living in the South. The full sample (N = 794) included an oversample (n = 102; 14.6%) of Black (n = 40; 6.7%, of whom 26 were non-parents [6.6%] and 14 parents [7.1%]), Latino (n = 20; 2.5%, of whom 16 were non-parents [2.9%] and 4 parents [1.2%]), White (n = 3; 0.2%, of whom 1 was a non-parent [0.1%] and 2 [0.6%] were parents), and other-race (n = 39; 5.2%, 29 of whom were non-parents [5.7%] and 10 [3,6%] parents) participants.

The results of adjusted chi-square association tests revealed associations between parenthood status and several demographics. First, across lesbian/gay, bisexual, and other sexual orientations, parents were less likely to be in the youngest age cohort (adjusted residual [AR] = −6.352, AR = −9.902, and AR = −5.904, respectively) than in the middle age cohort (AR = 2.484, AR = 8.548, and AR = 5.025, respectively) and the oldest age cohort (AR = 4.425, AR = 4.976, AR = 1.292(ns), respectively). Further, parents in the other sexual orientation category were less likely to identify as non-binary/gender queer (AR = −3.961). Bisexual and other sexually oriented parents were more likely

Table 1. Demographics of the sample by sexual orientation and parenthood status with unweighted sample sizes and weighted percentages (N = 794).

	Sexual orientation																	
	Lesbian/gay women(n = 301; 30.0%)						Bisexual women(n = 352; 52.4%)						Other sexual orientation(n = 141; 17.7%)					
	No children (n = 213; 76.5%)		Children[a] (n = 88; 23.5%)				No children (n = 238; 73.5%)		Children[b] (n = 114; 26.5%)				No children (n = 121; 89.2%)		Children[c] (n = 20; 10.8%)			
	n	%	n	%	F	p[d]	n	%	n	%	F	p[d]	n	%	n	%	F	p[d]
Age cohort					16.328	<.001					54.005	<.001					27.975	<.001
Youngest (18–25)	84	64.2	6	16.0			183	88.0	23	33.8			91	85.2	3	19.9		
Middle (34–41)	38	15.5	24	32.6			41	9.7	63	53.0			20	11.2	13	68.8		
Oldest (52–59)	91	20.4	58	51.3			14	2.3	28	13.3			10	3.6	4	11.3		
Gender identity					0.008	.927					0.139	.709					7.632	.007
Woman	208	98.3	85	98.5			233	97.4	111	96.4			77	59.3	18	90.1		
Non-binary/gender queer	5	1.7	3	1.5			5	2.6	3	3.6			44	40.7	2	9.9		
Race/Ethnicity					1.145	.330					1.046	.370					2.080	.104
Black	32	22.8	11	15.4			29	11.6	13	14.0			16	18.9	4	14.1		
Latino	21	11.0	6	6.4			23	9.2	6	5.9			7	15.1	3	9.1		
White	132	49.6	57	63.3			140	61.5	75	68.5			77	26.5	7	58.8		
Other[e]	28	16.6	14	14.8			46	17.8	20	11.5			21	39.6	6	18.0		
Born in U.S.					0.219	.640					0.077	.782					0.970	.326
No	10	4.2	3	2.9			11	3.7	5	3.0			5	3.2	0	0		
Yes	202	95.8	85	97.1			227	96.3	109	97.0			116	96.8	20	100.0		
U.S. Region of residence					0.199	.891					0.469	.702					1.025	.381
Northeast	45	18.3	17	17.3			48	18.8	26	23.6			23	20.5	4	17.6		
Midwest	32	14.5	13	16.1			50	21.5	22	24.7			30	27.8	2	10.5		
West	50	21.4	28	25.7			64	26.0	34	22.4			37	28.7	7	39.2		
South	86	45.7	30	40.8			76	33.7	32	29.4			31	22.9	7	32.8		
Level of education					2.308	.088					3.661	.020					3.268	.031
High school or less	38	42.2	12	33.1			68	51.8	19	37.8			20	32.7	1	13.8		
Some college	66	31.9	22	27.0			88	31.8	51	42.2			41	37.9	5	34.9		
College degree	64	16.2	21	16.9			58	11.9	20	8.9			45	23.3	4	14.3		
More than college	45	9.8	33	23.0			24	4.5	24	11.1			15	6.2	10	37.0		
Employment					0.990	.370					2.944	.054					0.304	.737
Full time	131	55.2	59	60.4			105	37.7	49	37.9			60	49.5	10	52.7		
Part time	31	19.0	6	9.3			64	34.3	24	20.8			33	28.7	3	19.5		

(Continued)

Table 1. (Continued).

	Sexual orientation																	
	Lesbian/gay women (n = 301; 30.0%)						Bisexual women (n = 352; 52.4%)						Other sexual orientation (n = 141; 17.7%)					
	No children		Children[a]				No children		Children[b]				No children		Children[c]			
	(n = 213; 76.5%)		(n = 88; 23.5%)				(n = 238; 73.5%)		(n = 114; 26.5%)				(n = 121; 89.2%)		(n = 20; 10.8%)			
	n	%	n	%	F	p[d]	n	%	n	%	F	p[d]	n	%	n	%	F	p[d]
Unemployed	44	25.9	19	30.2			55	28.0	34	41.3			23	21.8	5	27.7		
Urbanicity					1.381	.241					4.888	.028					0.396	.530
Non-urban	26	14.1	15	22.0			26	11.4	22	23.3			11	8.0	2	13.3		
Urban	187	85.9	73	78.0			212	88.6	92	76.7			110	92.0	18	86.7		
Relationship					6.503	.011					13.226	<.001					0.496	.482
No	86	38.0	17	19.4			92	39.5	21	17.6			45	39.2	4	28.6		
Yes	126	62.0	71	80.6			144	60.5	93	82.4			76	60.8	15	71.4		
Gender of current partner[f]					0.959	.372					0.987	.406					2.657	.053
Woman (non-TG)	123	96.6	70	98.3			20	9.2	8	9.2			29	33.3	9	56.1		
Man (non-TG)	1	0.6	1	1.7			118	87.4	84	90.4			43	62.8	3	25.4		
TG woman	0	0	0	0			1	0.6	0	0			2	1.4	1	3.9		
TG man	0	0	0	0			3	2.5	0	0			0	0	0	0		
Non-binary/genderqueer	2	2.8	0	0			1	0.3	1	0.5			2	2.5	2	14.6		

[a]Child(ren) under age 18 living with the parent: n = 40 (n = 6, n = 20, and n= 14, for the youngest, middle, and oldest cohort, respectively). Child(ren) 18 years or older living with the parent: n = 21 (all in the middle cohort). Child(ren) under age 18 not living with the parent: n = 4 (all in the oldest cohort). Child(ren) 18 years or older not living with the parent: n = 35 (n = 1, n = 1, and n = 33 for the youngest, middle, and oldest cohort, respectively).

[b]Child(ren) under age 18 living with the parent: n = 80 (n = 23, n = 52, n = 5, for the youngest, middle, and oldest cohort, respectively). Child(ren) under age 18 not living with the parent: n = 15 (n = 2, n = 11, n = 2, for the youngest, middle, and oldest cohort, respectively). Child(ren) 18 years or older living with the parent: n = 19 (n = 10 and n = 9 for the middle and oldest cohort, respectively). Child(ren) 18 years or older living with the parent: n = 22 (n = 5 and n = 17 for the middle and oldest cohort, respectively).

[c]Child(ren) under age 18 living with the parent: n = 15 (n = 2, n = 12, and n = 1, for the youngest, middle, and oldest cohort, respectively). Child(ren) under age 18 not living with the parent: n = 4 (n = 1, n = 2, n = 1, for the youngest, middle, and oldest cohort, respectively). Child(ren) 18 years or older not living with the parent: n = 2 for the oldest cohort).

[d]Analyses are based on weighted data. The F test is based on the second-order Rao-Scott adjusted chi-square statistic.

[e]Other comprises participants with an Asian, (n = 1 for lesbian women), American Indian/Native American (n = 1 for bisexual women) or multiracial background (n = 41 for lesbian women, n = 65 for bisexual women, and n = 27 for women with another sexual orientation).

[f]TG = transgender. To increase expected cell counts, we also conducted three adjusted F tests of independence using three rather than five categories—cis woman, cis man, and other identity than cisgender. Because these three tests were also non-significant (p = .549 for lesbian women, p = .223 for bisexual women, and p = .707 for women with another sexual orientation), the full list of partner gender options and their associated frequencies is presented here for descriptive purposes.

Table 2. Differences in mental health factors across parenthood status and age cohort for three groups of different sexual orientations.

	Parenthood		Age cohort			Parenthood		Age cohort		Parenthood x Age cohort	
	No children	Children	Youngest (18–25 years)	Middle (34–41 years)	Oldest(52–59 years)	Wald F	p	Wald F	p	Wald F	p
Lesbian/Gay women	(n = 213; 76.5%)	(n = 88; 23.5%)	(n = 90; 52.9%)	(n = 62; 19.5%)	(n = 149; 27.6%)						
Felt stigma	2.752 (0.082)	2.871 (0.117)	2.842 (0.108)	2.807 (0.133)	2.643 (0.104)	3.200	.075	2.213	.111	0.190	.827
Internalized homophobia	1.603 (0.062)	1.515 (0.105)	1.644 (0.088)	1.619 (0.109)	1.438 (0.055)	0.015	.903	1.172	.311	0.952	.387
Community connectedness	3.115 (0.060)	3.087 (0.070)	3.292 (0.063)[a]	2.899 (0.142)[b]	2.907 (0.057)[b]	3.837	.051	7.924	**<.001**	1.210	.300
Social support family	4.589 (0.158)	4.940 (0.227)	4.636 (0.205)	4.641 (0.308)	4.760 (0.167)	0.797	.373	0.197	.821	1.001	.369
Social support friends	5.416 (0.136)	5.320 (0.191)	5.322 (0.183)	5.526 (0.222)	5.437 (0.140)	0.222	.638	0.093	.911	0.450	.638
Psychological distress	7.700 (0.444)	5.810 (0.758)	8.800 (0.566)[a]	6.840 (0.934)[ab]	4.600 (0.460)[b]	0.743	.389	8.562	**<.001**	4.297	**.014**
Life satisfaction	4.280 (0.136)	4.580 (0.207)	4.110 (0.175)	4.510 (0.246)	4.690 (0.168)	0.467	.495	0.292	.747	1.844	.160
Happiness	1.950 (0.050)	2.120 (0.093)	1.900 (0.067)	2.100 (0.96)	2.080 (0.068)	2.407	.122	0.223	.800	3.357	**.036**
Bisexual women	(n = 238; 73.5%)	(n = 114; 26.5%)	(n = 206; 73.6%)	(n = 104; 21.2%)	(n = 42; 5.2%)						
Felt stigma	2.743 (0.069)	2.792 (0.088)	2.761 (0.069)	2.765 (0.101)	2.648 (0.172)	0.111	.739	0.556	.574	0.262	.769
Internalized homophobia	1.547 (0.088)	1.592 (0.076)	1.618 (0.079)	1.492 (0.086)	1.598 (0.130)	0.154	.695	0.614	.542	0.287	.751
Community connectedness	2.963 (0.040)	2.867 (0.065)	3.005 (0.042)[a]	2.764 (0.065)[b]	2.670 (0.065)[b]	0.608	.436	8.447	**<.001**	0.671	.512
Social support family	4.629 (0.1223)	4.598 (0.197)	4.672 (0.128)	4.552 (0.201)	4.173 (0.277)	0.577	.448	1.713	.182	0.209	.812
Social support friends	5.306 (0.113)	4.826 (0.204)	5.284 (0.119)	4.822 (0.209)	5.140 (0.218)	1.114	.292	0.463	.630	1.670	.190
Psychological distress	10.590 (0.423)	10.900 (0.625)	11.050 (0.430)[b]	9.890 (0.672)[b]	8.490 (1.020)[b]	2.348	.126	5.384	**.005**	0.110	.896
Life satisfaction	3.970 (0.114)	3.800 (0.184)	4.010 (0.117)	3.560 (0.193)	4.070 (0.278)	0.000	.998	1.932	.146	0.026	.974
Happiness	1.830 (0.044)	1.810 (0.082)	1.860 (0.048)	1.720 (0.071)	1.780 (0.113)	0.096	.756	1.570	.210	1.109	.331
Other sex. oriented women	(n = 121; 89.2%)	(n = 20; 10.8%)	(n = 94; 78.2%)	(n = 33; 17.4%)	(n = 14; 4,4%)						
Felt stigma	2.697 (0.091)	2.430 (0.177)	2.438 (0.117)	2.576 (0.176)	2.676 (0.210)	1.803	.182	0.566	.569	1.693	.188
Internalized homophobia	1.518 (0.072)	1.262 (0.090)	1.520 (0.079)	1.354 (0.111)	1.511 (0.221)	8.683	**.004**	0.001	.999	1.883	.156
Community connectedness	3.054 (0.063)	3.192 (0.170)	3.090 (0.061)[a]	3.053 (0.194)[ab]	2.770 (0.196)[b]	0.163	.687	3.150	**.046**	1.414	.247
Social support family	4.439 (0.168)	4.452 (0.440)	4.462 (0.172)	4.202 (0.409)	5.002 (0.641)	1.741	.189	2.752	.067	2.645	.075
Social support friends	5.429 (0.139)	5.621 (0.265)	5.462 (0.152)	5.559 (0.255)	4.804 (0.315)	2.360	.127	0.980	.378	1.759	.176
Psychological distress	10.970 (0.578)	9.300 (1.618)	11.370 (0.624)[a]	9.490 (1.339)[a]	5.760 (1.333)[b]	0.481	.489	9.942	**<.001**	0.299	.742
Life satisfaction	3.930 (0.180)	4.480 (0.565)	3.900 (0.196)[ab]	4.030 (0.416)[a]	5.430 (0.396)[a]	0.051	.821	3.276	**.041**	0.899	.409
Happiness	1.760 (0.072)	1.980 (0.164)	1.760 (0.080)	1.860 (0.135)	1.920 (0.206)	0.192	.662	0.867	.423	7.619	**.001**

Unweighted sample sizes, weighted percentages, and unadjusted means and standard errors are reported. Estimated means in each row that share subscripts do not differ significantly. p values < .05 are in boldface. Sex. = sexually.

to have had some college education (AR = 2.609 and AR = 3.062, respectively), and fewer bisexual parents had a high school degree or less (AR = −1.934). Bisexual parents were more likely to reside in a non-urban area (AR = 2.105) than urban area, and lesbian/gay and bisexual parents more likely to be in a relationship (AR = 2.826 and AR = 4.112, respectively) than single.

Mental health differences across parenthood status and age cohorts

Table 2 shows the group means of the mental health variables, as well as the results of the group difference tests. In lesbian/gay women, we found that women in the youngest age cohort scored higher on community connectedness than women in the middle ($F(1, 300) = 8.499$, $p = .004$) and oldest cohorts ($F(1, 300) = 15.561$, $p < .001$). The results also revealed a significant interaction between parenthood status and age cohort for two mental health factors. For psychological distress, we found an age cohort effect in non-parents ($F(2, 211) = 17.277$, $p < .001$), but not in parents ($F(2, 86) = 0.499$, $p = .609$). The results showed that lesbian/gay non-parents in the oldest age cohort ($M = 4.200$, $SE = 0.565$) scored significantly lower than non-parents in the youngest age cohort ($M = 9.020$, $SE = 0.598$; $F(1, 212) = 34.595$, $p < .001$) and the middle age cohort ($M = 6.840$, $SE = 0.965$; $F(1, 212) = 5.670$, $p = .018$). For happiness, there was also only an age cohort effect in lesbian/gay non-parents ($F(2, 206) = 3.736$, $p = .025$), and not in parents ($F(2, 83) = 1.498$, $p = .230$). Lesbian non-parents in the oldest age cohort ($M = 2.120$, $SE = 0.086$) were significantly happier than non-parents in the youngest age cohort ($M = 1.85$, $SE = 0.065$; $F(1, 207) = 6.074$, $p = .015$.

In bisexual women, two significant main effects of age cohort were found. Bisexual women in the youngest age cohort scored significantly higher on community connectedness than women in the middle ($F(1, 351) = 10.350$, $p < .001$) and oldest age cohorts ($F(1, 351) = 15.023$, $p < .001$), yet also scored higher on psychological distress ($F(1, 351) = 5.470$, $p = .020$, and, $F(1, 351) = 8.551$, $p = .004$, respectively) than both younger groups.

In other sexually oriented women, a main effect of parenthood status was found with non-parents scoring higher on internalized homophobia than parents (see Table 2). As for age cohort, three main effects were found. First, other sexually oriented women in the youngest age cohort scored higher on community connectedness than women in the oldest age cohort ($F(1, 140) = 5.421$, $p = .021$). Second, other sexually oriented women in the oldest age cohort experienced less psychological distress than women in the youngest ($F(1, 140) = 19.912$, $p < .001$) and middle age ($F(1, 140) = 6.069$, $p = .015$) cohorts. Third, other sexually oriented women in the oldest age cohort were more satisfied with life than women in the middle age cohort ($F(1, 140) = 4.915$, $p = .028$). Finally, there was a significant interaction between parenthood status and age cohort for happiness (see Table 2). We found an age

Table 3. Differences in mental health factors by parenthood status and sexual orientation while controlling for age cohort.

	Non-parents					Parents				
	Lesbian/Gay women (n = 213; 29.7%)	Bisexual women (n = 238; 49.9%)	Other sexually oriented women (n = 121; 20.4%)	Wald F	p	Lesbian/Gay women (n=88; 30.9%)	Bisexual women (n = 114; 60.8%)	Other sexually oriented women (n = 20; 8.4%)	Wald F	p
Felt stigma	2.717 (0.080)	2.671 (0.084)	2.685 (0.117)	0.080	.923	2.923 (0.115)	2.757 (0.097)	2.475 (0.230)	1.608	.203
Internalized homophobia	1.564 (0.060)	1.542 (0.062)	1.446 (0.079)	0.818	.442	1.530 (0.128)[ab]	1.577 (0.078)[a]	1.267 (0.095)[b]	3.575	**.030**
Community connectedness	3.019 (0.062)[a]	2.791 (0.049)[b]	2.890 (0.072)[ab]	5.075	**.007**	3.179 (0.070)[a]	2.834 (0.060)[b]	3.206 (0.165)[a]	8.587	**<.001**
Social support family	4.520 (0.159)	4.517 (0.155)	4.334 (0.197)	0.451	.637	4.940 (0.266)	4.592 (0.203)	4.440 (0.443)	0.663	.516
Social support friends	5.444 (0.127)	5.351 (0.131)	5.472 (0.157)	0.261	.770	5.352 (0.219)[ab]	4.865 (0.190)[a]	5.718 (0.290)[b]	3.423	**.034**
Psychological distress	6.760 (0.414)[a]	8.720 (0.486)[b]	9.190 (0.629)[b]	6.768	**.001**	6.360 (0.839)[a]	10.600 (0.621)[b]	9.190 (1.604)[ab]	7.091	**.001**
Life satisfaction	4.350 (0.135)	4.170 (0.145)	4.130 (0.196)	0.623	.537	4.610 (0.226)[a]	3.830 (0.183)[b]	4.560 (0.563)[ab]	3.675	**.027**
Happiness	1.980 (0.050)	1.910 (0.053)	1.840 (0.078)	1.428	.241	2.190 (0.092)[a]	1.810 (0.082)[b]	2.010 (0.171)[ab]	4.965	**.008**

Unweighted sample sizes, weighted percentages, and adjusted means and standard errors are reported. The means and standard errors are adjusted for the effect of age cohort. Estimated means in each row that share subscripts do not differ significantly. p values < .05 are in boldface. The interaction between parenthood and sexual orientation was not significant for felt stigma ($F(2, 792 = 0.940, p = .391$), internalized homophobia ($F(2, 792 = 1.052, p = .350$), community connectedness ($F(2, 792 = 1.010, p = .365$), social support from family ($F(2, 792 = 0.501, p = .606$), social support from friends ($F(2, 792 = 1.671, p = .189$), psychological distress ($F(2, 792 = 1.477, p = .229$), life satisfaction ($F(2, 792 = 1.053, p = .349$, or happiness ($F(2, 771) = 1.188, p = .305$).

cohort effect in other sexually oriented parents ($F(2, 17) = 7.061, p = .006$), but not in non-parents ($F(2, 117) = 2.024, p = .137$). Parents in the oldest age cohort ($M = 1.170; SE = 0.216$) were significantly less happy than parents in the middle age cohort ($M = 2.060, SE = 0.145; F(1, 18) = 14.540, p = .001$).

Mental health differences across sexual orientation in non-parents and parents

Table 3 presents means adjusted for the effect of age cohort and the results of group difference tests. In non-parents, we found that lesbian/gay women scored significantly higher on community connectedness than bisexual women ($F(1, 571) = 9.933, p = .002$). We also found in non-parents that lesbian/gay women experienced less psychological distress than bisexual ($F(1, 571) = 9.429, p = .002$) and other sexually oriented women ($F(1, 571) = 10.579, p = .001$). In parents, we found more differences across sexual orientation in mental health factors. First, the results showed that other sexually oriented parents scored lower on internalized homophobia ($F(1, 221) = 6.697, p = .010$), but higher on social support from friends ($F(1, 221) = 6.108, p = .014$) than bisexual parents. Next, we found that bisexual parents scored lower on community connectedness than both lesbian/gay parents ($F(1, 221) = 14.811, p < .001$) and other sexually oriented parents ($F(1, 221) = 4.654, p = .032$). Finally, the results showed that relative to bisexual parents, lesbian/gay parents experienced less psychological distress ($F(1, 221) = 14.220, p < .001$), more life satisfaction ($F(1, 221) = 6.829, p = .010$), and more happiness ($F(1, 213) = 9.805, p = .002$) than bisexual parents. The interaction between parenthood and sexual orientation was not significant for any of the mental health factors (see note Table 3), implying that among both parents and non-parents only main effects for sexual orientation were found.

Discussion

As this population-based study indicates, less than one-quarter of SM women were parents, and this corresponds to 2014–2016 data from the American Community Survey estimates (Goldberg & Conron, 2018) that 23.9% of female same-sex couples have children. Parents were more likely to be from the middle and older age groups, bisexual, and in a relationship. Bisexual parents had higher levels of education, had male partners, and came from rural areas. Prior convenience studies that recruited lesbian and bisexual women via social media, gay bars, women's bookstores, or membership in LGBT organizations (e.g., the National Lesbian Health Survey, Bradford, Ryan, & Rothblum, 1994) tended to find lesbian and bisexual women who were young, urban dwellers, and were less likely to capture much of the parent demographic located by Gallup, Inc., in the current report.

The lack of differences in distributions of racial identity between parent and non-parent groups was surprising given that previous research on SM status and parenting status across the U.S. has shown that women of color are more likely to parent than White women (Kastanis & Wilson, 2014; The Williams Institute, UCLA School of Law, 2019a). Prior reports on parent demographics using probability samples of LGB people have relied on data from the U.S. Census, which identifies sexual minorities through types of couples (same-sex, different-sex). For example, the 2010 U.S. Census data indicated that 37% of individuals in couples were people of color (Gates, 2013). In the present study, SM women parents were more likely to be bisexual, a group that if coupled, is also more likely to be partnered with cisgender men than the other sexual minority groups (Wilson, Kreuger, Politt, & Bostwick, in press), and thus would not have been included in the same-sex couple data in Census studies.

Mental health by parenthood status

Contrary to our first hypothesis, bisexual parents scored higher than lesbian parents on psychological distress and lower on life satisfaction and happiness. This is surprising because the overwhelming majority of bisexual parents are in relationships with male partners and thus would likely be viewed as heterosexual by the general public. This result could reflect other researchers' findings that bisexual women in different-sex relationships experience isolation and depression (Dyar et al., 2014; Molina et al., 2015; Morandini, Pinkus, & Dar-Nimrod, 2018). However, our prediction that bisexual parents would be less connected to the LGBT community was supported. These results are consistent with the findings of Ross et al. (2017) that pregnant SM women whose partners had been predominantly male reported less connection to the LGBT community and greater anxiety. Our data also support results of qualitative research by Tasker and Delvoye (2015) who found that all bisexual mothers in their study had experienced binegativity, and most had been excluded by lesbian communities. Parenthood for bisexual mothers involved with male partners thus comes at a cost from both the general public and the LGBT community. This has important implications for mental health providers, bisexual advocates, and of course bisexual mothers themselves.

Tasker and Delvoye (2015) underscored the importance of a life course perspective in their research on bisexual women, and we too found a number of main effects for age cohort. Contrary to our hypotheses, however, we did not find more negative mental health outcomes in the oldest cohort. Among lesbians, non-parents in the oldest cohort reported more happiness and less psychological distress than the youngest group. There were no significant effects for parenthood and age cohort among bisexual women. It was only

among women with other sexual identities that parents in the middle age cohort were less happy than those in the middle age group.

The results of this study also highlight the importance of including parents with "emerging identities" (Borgogna, McDermott, Aita, & Kridel, 2018; Goldberg & Allen, 2020; Manley et al., 2018), such as queer, pansexual, asexual, and others. Population-based studies have rarely included sexual orientation identities other than LGB, yet the present results indicate that parents with these identities perceived more social support from friends, and were lower on internalized homophobia than bisexual parents. Although the number of parents with other sexual identities was small, our results indicate that these parents are finding support and experiencing pride in their identities, contrary to bisexual parents. More research that examines parenthood among participants who identity with specific emerging identities is needed as more people become familiar with, and thus claim, these new identities.

Conclusion

This is the first study comparing lesbian, bisexual, and other-identified female parents and non-parents on mental health variables using a population-based sample. We identify evidence that sexual orientation is not only an important factor to examine between sexual minority and majority women, but also among sexual minority women of varying sexual orientation identities. This study also had access to women across three age cohorts who came of age at times when attitudes about SM parenting changed dramatically. The results demonstrate that parenthood status is a significant factor in understanding previously documented disparities in mental health and community connectedness among bisexual women, compared to lesbian/gay-identified women. Taking into account recent research showing that being partnered with someone who has a different sexual orientation, a partnership structure that is more common among bisexual women than lesbian/gay women (Wilson et al., in press), our study indicates that understanding the family environment of partnered bisexual women parents is a needed site of future research focused on mental health and well-being.

Nevertheless, the results are limited in that the *Generations* study did not include participants who identified exclusively as Asian American/Pacific Islander or American Indian/Native American, and also assigned those who identified as transgender into a different study. More information is needed on transgender parents and non-parents as well, although a first study on demographics and health outcomes of transgender parents and non-parents has recently been published by our research team (Carone, Rothblum, Bos, Gartrell, & Herman, 2020). The *Generations* study was not developed as a parenting study, and thus did not ask about pathways to parenthood (such

as adoption, insemination, or sexual relationship with a man). Given that study's focus on three specific age cohorts, it does not provide information about SM parents and non-parents in other age groups. As in most population-based studies, all information was via self report. Finally, the *Generations* study had only small numbers of sexual minority men who were parents, and this has been found in other population-based studies (e.g., Solomon, Rothblum, & Balsam, 2004). It is possible that more sexual minority men will become parents in future generations—or that current population-based studies could oversample for gay and bisexual fathers.

The results of this study have implications for sexual minority parents as well as sexual minorities (such as the youngest *Generations* cohort) who may be planning to have children in the future. This is a time of political and social backlash and opportunity, with laws and policies protecting sexual minorities in some locations and denying protections to those in others. Policies concerning child custody, adoption, and reproductive technologies will particularly affect sexual minority parents, so it is vital that health professionals are aware of their impact on well-being and mental health in this population.

Disclosure statement

Funding

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