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Healthcare provider communication and current contraceptive use among transgender men and gender-diverse people: results from an online, cross-sectional survey in the United States

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### Abstract (word count: 246/250)

Objectives: To explore whether discussing contraceptive use with a healthcare provider is associated with current contraceptive use among transgender men and gender-diverse (TMGD) individuals.

Study design: In 2019, we conducted a cross-sectional survey among transgender men and gender-diverse adults in the United States who were assigned female or intersex at birth. We measured whether respondents had ever discussed contraception with a healthcare provider as well as current use of contraception, reasons for use, and barriers to use. We described frequencies and ranges for key variables and implemented a series of nested logistic regression models to evaluate the association between ever having spoken to a provider about contraception and current use of contraception for any reason, overall and by method type.

Results: Among 1,694 respondents, about half (48%) were currently using a method of contraception for any reason, most commonly barrier methods (17%) and long-acting-reversible-contraception (LARC) (17%). Compared to those who never had a conversation about contraception with a provider, respondents who spoke with a provider were more likely to be currently using contraception – particularly among those who self-initiated the conversation (aOR: 3.8, 95% CI: 2.5-5.6). Having discussed contraception with a healthcare provider was most strongly associated with current LARC use.

Conclusions: Having had a conversation with a provider about contraception use was positively associated with current contraception use among a large, national sample of transgender men and

gender-diverse people. Facilitating patient participation in contraception counseling for transgender and gender-diverse patients should be emphasized in provider training. *Implications:* Given formidable barriers to healthcare faced by TMGD people, training providers on how to initiate affirming and relevant conversations with TMGD patients about contraceptive needs and preferences is essential, as are efforts to educate and empower TMGD individuals to advocate for the information they need in these interactions. Keywords: Communication, Contraception, Gender-diverse, Gender minority, Healthcare providers, Patient-centered care 

### 1. Introduction

Transgender men and gender-diverse (TMGD) people use contraception for many reasons, including pregnancy and sexually transmitted infection (STI) prevention, for menstrual suppression to reduce gender dysphoria, and for other reasons[1,2]. However, research on contraception use and access among TMGD is limited[1-4]. Across studies, 33-70% of TMGD participants report negative healthcare experiences, such as poor and/or abusive communication, explicit discrimination based on their gender identity, denied or delayed healthcare service, and inconsistent levels of care[5-8]. Considering that over 1 million individuals in the United States are transgender and that access to contraception is a core indicator of healthcare quality, research is needed to understand how to facilitate access to contraception for TMGD people in the United States[5,6,8-10].

Research indicates that contraceptive counseling can positively affect long-term contraceptive use and achievement of reproductive goals[11-13]. Conversely, inadequate counseling and poor provider communication about contraception can lead to the use of misaligned methods given contraceptive goals or dissuade people from contraceptive use entirely[14]. Factors such as deterrence of patient advocacy (*i.e.*, disregarding patient preferences and values, passive provider listening, lack of respect for patient bodily autonomy, minimum or no discussion of options, discouraging informed choice, *etc.*) and lack of provider knowledge about contraceptive options can prevent patients from making informed decisions about their contraceptive needs[13,15-17]. These deficits in care are experienced more acutely by TMGD individuals and can be exacerbated by provider misconceptions, discrimination, and misinformation[18,19], as

well as exclusion from family planning research. In previous studies, 5.5% to 9% of transgender men believed testosterone had contraceptive benefits based on a healthcare provider's advice[2,3]. This statistic highlights the role of inaccurate counseling by providers; while testosterone can induce hypothalamic-pituitary-gonadal suppression resulting in anovulation, the degree and duration of this anovulation is not fully understood and thus testosterone is not generally considered a fully reliable or primary form of contraception to prevent pregnancy[20-23].

A lack of national-level data on the experiences of TMGD people with contraceptive use, reasons for use, and if and how TMGD individuals talk with their healthcare providers about contraception limits evidence-based care. To address this gap, we analyzed survey data collected from a cross-sectional study that examined contraception care experiences of TMGD adults in the United States.

#### 2. Materials and Methods

### 2.1 Study recruitment

Between May and September 2019, we recruited individuals for an online survey from (1) among enrolled participants of an existing panel of lesbian, gay, bisexual, transgender, queer, questioning, intersex, asexual and more (LGBTQIA+) adults, The Population Research in Identity and Disparities for Equality (PRIDE) Study, as well as (2) an anonymous study-specific website distributed to the public via community organizations, listservs, and in-person LGBTQIA+ health events. Eligible respondents identified as transgender men, nonbinary, and/or gender-diverse, some also identified as intersex, selected "Female" or "Not listed" for their sex assigned at birth, and were aged 18 years or older, resided in the US or its territories, and could read and write in

English. We excluded individuals who were assigned male at birth. We programmed the survey on the Qualtrics platform (Qualtrics LLC; Provo, UT), and implemented several custom and automated steps to prevent duplicate submissions from the same respondent. Respondents who completed the survey were entered in a raffle to win one of 100 \$50 electronic gift cards. Further details on recruitment and survey content, design, and format have been described previously[14,15].

Respondents provided electronic informed consent prior to starting the survey. The Institutional Review Boards of Stanford University School of Medicine and the University of California, San Francisco reviewed and approved this study and continuing review is now maintained additionally *via* WCG (WIRB-Copernicus Group, Inc).

#### 2.2 Measures

The primary outcomes for this analysis included current use of contraception for any purpose and communication with healthcare providers about contraceptive use. We measured current contraceptive use with the following question: "Of the birth control methods you have ever used for ANY reason, please select below the method(s) you are currently using." Respondents could select one or more of the 21 contraception options (described in detail) that were listed or could select that they were not currently using any method. Based on the descriptions of each contraceptive method, we categorized individual methods as: (1) long-acting reversible contraception (LARC) (hormonal intrauterine device (IUD), copper IUD, implant); (2) combined hormonal contraception (ring, patch, combined pill); (3) barrier methods (external condom, internal condom, diaphragm, cervical cap, sponge); (4) progestin-only methods (progestin pill,

shot); (5) permanent contraception (partner permanent contraception, respondent permanent contraception); or (6) other (abstinence, spermicide, emergency contraception, fertility awareness, withdrawal).

To assess patient-provider communication about contraception, respondents could select all that applied from: "Has a provider ever discussed birth control methods with you for the purposes of pregnancy prevention?"; "Yes, I brought it up", "Yes, my provider brought it up", "No". We categorized respondents as having had provider communication that was patient-initiated, provider-initiated, both patient- and provider-initiated, or never had a conversation. We determined the timing of conversation about contraception relative to receipt of gender-affirming care with the question: "When did you and your provider discuss these birth control methods?", for which respondents could select before and/or after pursuing gender-affirming hormone therapy and/or surgery. We also assessed respondent comfort: "How comfortable did you feel asking your provider all of the questions you had about birth control?" with answer choices that ranged from very comfortable to not at all comfortable.

To evaluate experiences trying to access contraception care, we asked: "Have any of the below difficulties ever made it HARDER for you to get birth control?" with a list of possible barriers. Respondents could also indicate their reasons for not using contraception: cost of contraception, cost of healthcare visit, time required, travel required, and difficulty finding affirming healthcare providers.

Sociodemographic characteristics measured included: age in years; race or ethnicity; gender identity (agender, cisgender man, cisgender woman, genderqueer, man, nonbinary,

transgender man, transgender woman, Two-Spirit, woman, another gender (specify if desired), and prefer not to say); intersex identification; sexual orientation (asexual, bisexual, gay, lesbian, pansexual, queer, questioning, same-gender-loving, straight/heterosexual, or another sexual orientation); relationship status; educational level; and health insurance coverage (yes, no). For racial or ethnic identity, sexual orientation, and gender identity, respondents could select multiple options. We also assessed the proportion of healthcare providers who were aware of the respondent's gender identity on a scale of 1 (out to 0% of providers) to 11 (out to 100% of providers). Respondents self-reported ZIP code, which we used to convert to US census region.

We described sociodemographic characteristics, reproductive history, and contraceptive use data with frequencies and ranges, overall and by history of provider communication. To evaluate differences across respondents who reported varying levels of provider communication about contraception, we conducted Kruskal-Wallis tests,  $\Box^2$  tests of independence and Fisher's exact tests.

Secondly, we also implemented a series of nested multivariate logistic regression models to examine the association between communication with a healthcare provider about contraception use and current contraception use. In these models, we categorized the exposure as (1) never had a conversation with a healthcare provider about contraception use (reference group), versus (2) had a patient-initiated conversation, (3) had a provider-initiated conversation, or (4) had both patient-and provider-initiated conversations with a healthcare provider about contraception use. We

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treated the outcome variable as binary: (1) any current use of a contraceptive method versus (2) no current use of a contraceptive method.

In the nested models, we adjusted for potential confounders of the communication and contraceptive use relationship (Supplemental Figure 1). In Model 1, we modeled the unadjusted association between having spoken to a healthcare provider about contraception and current use. Model 2 adjusted for the following covariates: age (continuous, centered on the mean), education (categorical: less than a college degree (reference), college degree/some graduate or professional study, or grad school degree), gender identity (transgender man/man only (reference), both transgender man + gender-diverse identities, gender-diverse identities only), gender identity outness (discrete: 0% (reference) up to 100%), health insurance coverage (categorical: yes, no (reference)), and due to limited racial diversity in the sample a crude binary measure of race/ethnicity as an imperfect proxy for experiences of racism in patient-provider interactions (binary; anyone who indicated any of the following identities (reference): American Indian/Alaska Native, Asian, Black/African American, Hispanic/Latinx, Middle Eastern/North African, or Native Hawaiian/Pacific Islander, versus people who selected White only). Model 3 adjusted additionally for a binary indicator of reasons for contraceptive use (for pregnancy prevention, versus any other reason (reference)). Given low levels of missingness across included covariates, we modeled associations among respondents with complete data.

Additionally, we modeled the association between communication with a provider as described above in model 3 and the current use of specific method types (barrier, LARC, combined

hormonal methods, progestin-only methods, permanent contraception, and other methods). All analyses were conducted in Stata version 18.0 (StataCorp, College Station, TX).

### 3. Results

## 3.1 Characteristics of the study population

Over five months of data collection, 5,005 people initiated the study: 4,207 (84%) from among existing participants of The PRIDE Study (35.3% of likely eligible participants of The PRIDE Study at the time), and 798 (16%) from the study-specific website (an unknown proportion of those exposed to study information.) Among the 5,005 initiators, 1,694 (34%) expressed a gender identity that aligned with the broad umbrella of transgender or gender diverse and were female or intersex assigned at birth; 1281 (76%) were existing participants of The PRIDE Study who were invited to opt-in to this cross-sectional, stand-alone survey, and the remainder (n=413, 24%) were recruited from the general population. Among these 1,694 TMGD respondents, over half (n=916, 54%) were between the ages of 20-29, had health insurance coverage (n=1512, 89%), and had completed a college or graduate degree (n=1054, 62%) (Table 1). A minority of respondents (n=322, 19%) identified as American Indian/Alaska Native, Asian, Black/African American, Hispanic/Latinx, Middle Eastern/North African, and/or Native Hawaiian/Pacific Islander, versus White only (n=1293, 76%). Most respondents endorsed multiple gender identities (n=1036, 61%), and multiple sexual orientations (n=1010, 57%).

3.2 Experiences talking to healthcare providers about contraception

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Most respondents (n = 973, 57%) reported a conversation with a provider about contraception use in their lifetime: 397 (23%) had a provider-initiated conversation, 357 (21%) had a patient-initiated conversation, and 219 (13%) had both a provider-initiated and patient-initiated conversation (Table 1-2). Among those who had a conversation with a provider, participants reported low comfort asking about contraception: 233 (24%) reported being not at all or only a little comfortable asking their provider all the questions they had about contraception use (Table 2).

Among respondents who reported a history of gender-affirming hormone therapy, puberty blockers, and/or gender-affirming surgeries (n=879), 357 (41%) had a conversation about contraception with their provider before starting gender-affirming care, while 196 (22%) had a conversation after initiating gender-affirming care; 335 (38%) of respondents with a history of gender-affirming care reported no conversation about contraception with their provider (Table 2).

### 3.3 Current contraception use for any reason

Overall, 809 (48%) respondents were currently using any method of contraception for any reason, most commonly barrier (n=282, 17%) and LARC (n=279, 17%) methods (Table 3). Respondents who reported any prior conversation with a provider about contraception were currently using contraception at a higher proportion than were respondents who did not have a conversation: 78% among those with a patient-initiated conversation, 42% among those with a provider-initiated conversation, and 26% among those with no conversation (p<0.001). This pattern was most pronounced among LARC users.

#### 3.4 Reasons for using contraception and barriers to access

Overall, the most common reasons for ever having used contraception were to prevent pregnancy (n=837, 70%), avoid period symptoms (n=662, 55%), stop menstruation (n=537, 45%), and protect against STIs (n=439, 36%) (Table 4). Respondents who self-initiated a conversation with a provider about contraception were more likely to use contraception to prevent pregnancy or to minimize and prevent menstruation and its symptoms than were respondents who only had provider-initiated conversations, or no conversation (Table 4). The most frequently reported barriers to contraceptive use included difficulty finding affirming healthcare providers (n=535, 44%), the cost of contraception (n=379, 32%), and the cost of healthcare visits (n=357, 30%) (Table 4).

3.5 Association between provider communication and current any contraception use

In adjusted logistic regression analyses, TMGD respondents who had any conversation with a provider were more likely to currently use a contraceptive method than were respondents who had never had a conversation (Table 5). Across all models, this association was strongest for those who reported a patient-initiated conversation – these respondents had 3.8-11.9 times the odds of current contraception use compared to those who never had a conversation with their provider. However, the association between provider-initiated conversations and contraceptive use was strong as well. Adjusting for reasons for contraceptive use attenuated the association substantially across models. Communication with a healthcare provider was most strongly associated with LARC use.

### 4. Discussion

In a cross-sectional survey of 1,694 TMGD people in the United States, we found notable gaps in communication with healthcare providers about contraception: one third had never had a

conversation about contraception with their provider, and among those who had, nearly one in four did not feel comfortable asking all their questions. These findings highlight a need for provider training on contraceptive counseling for TMGD people, and the importance of patient-initiation and advocacy during these conversations.

Indeed, previous research has noted that providers who encourage patient involvement and tailor their counseling to the patients' needs and preferences – patient centered and shared decision-making – are more likely to improve patient outcomes and long-term contraceptive adherence[11,24-28]. Additionally, considering half of our respondents disclosed their gender identity to their provider, provider knowledge and respect for gender identity may also influence comfort with self-advocacy[29,30].

This study is limited by several factors. One limitation is the potential for recall bias in the exposure, such that those who had a conversation with a provider that led to starting a contraceptive may be more likely to recall that conversation than those who did not go on to use a method. This could lead to misclassification of the exposure differentially by outcome, and thereby inflate the observed association. Similarly, it could be that those already using contraception are more likely to initiate a conversation with their provider to ask questions; due to the limitations of survey design, we cannot tease apart the direction of the association. Further, given that the exposure requires lifetime recall, it is possible that respondents might fail to recall conversations further in the past. An additional limitation is the difference in scope between our primary exposure of interest (a conversation about contraception use *for pregnancy prevention*) and our outcome (contraceptive use for *any reason*). Respondents may have had conversations with their

providers about contraceptive use for other reasons, which could have resulted in some respondents reporting "no conversation" here, even if they had discussed contraception for OTHER reasons with a provider. This would result in misclassification of respondents by exposure and could conservatively bias our estimates toward an underestimation of the relationship. Another limitation is that the survey did not ascertain if there were intervals beyond the past 12 months in which the respondent engaged in sexual activity that could lead to pregnancy. Thus, it is likely that some respondents were incapable of pregnancy and thus unlikely to be interested in the use of contraception to prevent pregnancy.

General limitations include the racial and ethnic composition of the study population.

Studies have demonstrated that marginalized racial and ethnic groups are more likely to experience barriers to healthcare access, receive unequal treatment, and are less likely to advocate for themselves due to racial bias[15,31-35]. Thus, the results from this study are unlikely to completely capture these disparities. Most of the sample also had at least some college education or had health insurance. Collectively, these advantages could bias the findings toward underestimation of barriers to contraceptive care among populations who must additionally navigate structural racism, underinsurance, and lack of education and/or health literacy. Further, we did not ascertain respondents' gender identity, age, or other socio-demographic characteristics at the time of their conversations with their provider, nor the frequency of these conversations — these characteristics may moderate the relationship between communication and contraceptive use. Further, as most respondents found the survey through broad LGBTQIA+ related health events and organizations, the sample may not represent the full TMGD population. Despite these limitations, this research is one of few studies among a large sample of TMGD people assigned female or

intersex at birth from across the United States, conducted in a community-engaged approach, with detailed findings on contraceptive use, motivations, and barriers to care with a particular emphasis on provider communications.

Given formidable barriers to sexual and reproductive healthcare faced by TMGD people, training providers on how to initiate affirming and relevant conversations with TMGD patients about contraceptive needs and preferences is essential, as are efforts to educate and empower TMGD individuals to advocate for the information they need in these interactions. Future research should explore the relationship between health care provider communication and contraceptive use among TMGD people in longitudinal studies that allow for the establishment of temporality for new initiators of contraceptives and that capture accurate contemporaneous measures of gender, body parts, and sexual activity. This will enable better characterization of the role and influence of health care provider communication on contraceptive initiation and sustained use among TMGD people in the United States.

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#### **Disclosures:**

Dr. Mitchell Lunn has consulted for Hims, Incorporated (2019 – present), Folx, Incorporated (2020), and Otsuka Pharmaceutical Development and Commercialization, Inc. (2023) for work unrelated to this work. Dr. Juno Obedin-Maliver has consulted for Sage Therapeutics (2017), Ibis Reproductive Health (2017-2018, 2020-present), Hims, Incorporated (2019-present), Folx, Incorporated (2019-present), and Upstream Incorporate (2024). Dr. Capriotti is on the clinical advisory board of Appa Health. None of these engagements influenced or are pertinent to the work described in this manuscript.

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**Table 1.** Sociodemographic characteristics and selected reproductive history of a sample of transgender men and gender-diverse (TMGD) people in the United States recruited online in 2019 for a survey of sexual and reproductive health (n=1,694). Characteristics are presented overall and by history of communication with a healthcare provider about contraceptive use.

	All TGE	Both provider- and patient- initiated conversatio	Only patient- initiated conversatio	Only provider- initiated conversatio	No conversatio	
Participant Characteristics	Participants (n=1,694)	ns (n=219)	ns (n=357)	ns (n=397)	ns (n=603)	p- value
	n (%)	n (%)	n (%)	n (%)	n (%)	
Age						
Median age (IQR)	27.1 (23-33)	28.9 (24-35)	27.3 (23-33)	27.9 (24-33)	26 (22-32)	< 0.001
18-19	150 (8.9)	16 (7.3)	17 (4.8)	22 (5.5)	85 (14.1)	< 0.001
20-24	469 (27.7)	45 (20.5)	102 (28.6)	103 (25.9)	190 (31.5)	
25-29	447 (26.4)	66 (30.1)	113 (31.7)	116 (29.2)	129 (21.4)	
30-34	284 (16.8)	40 (18.3)	50 (14.0)	74 (18.6)	97 (16.1)	
35-39	149 (8.8)	23 (10.5)	37 (10.4)	36 (9.1)	40 (6.6)	
40-44	88 (5.2)	16 (7.3)	12 (3.4)	29 (7.3)	21 (3.5)	
45-49	38 (2.2)	5 (2.3)	9 (2.5)	7 (1.8)	12 (2.0)	
50-79	69 (4.1)	8 (3.7)	17 (4.8)	9 (2.3)	29 (4.8)	
Race/ethnicity*						
American Indiana or Alaska native	42 (2.5)	8 (3.7)	14 (3.9)	6 (1.5)	12 (2.0)	0.098
Asian	77 (4.5)	7 (3.2)	23 (6.4)	19 (4.8)	21 (3.5)	0.134
Black/African American	67 (4.0)	4 (1.8)	12 (3.4)	17 (4.3)	30 (5.0)	0.199
Hispanic/Latinx	101 (6.0)	19 (8.7)	19 (5.3)	14 (3.5)	42 (7.0)	0.038
Middle Eastern/North African	24 (1.4)	2 (.9)	4 (1.1)	3 (0.8)	14 (2.3)	0.218
Native Hawaiian/Pacific Islander	5 (0.3)	0 (0)	2 (0.6)	2 (0.5)	1 (0.2)	0.58
White	1472 (86.9)	200 (91.3)	320 (89.6)	354 (89.2)	536 (88.9)	0.786
Another race	41 (2.4)	7 (3.2)	8 (2.2)	11 (2.8)	11 (1.8)	0.629
Unknown	12 (0.7)	3 (1.4)	1 (0.3)	5 (1.3)	2 (0.3)	0.131
More than one race/ethnicity	202 (11.9)	27 (12.3)	49 (13.7)	37 (9.3)	75 (12.4)	0.278
None of these	4 (0.2)	1 (0.5)	0 (0)	1 (0.3)	1 (0.2)	0.659
Missing	79 (4.7)	3 (1.4)	6 (1.7)	8 (2.0)	13 (2.2)	0.882
Gender Identity*						
Agender	226 (13.3)	41 (18.7)	54 (15.1)	49 (12.3)	67 (11.1)	0.027
Cisgender man <sup>a</sup>	1 (0.1)	0 (0)	0 (0)	0 (0)	0 (0)	-

Cisgender woman	94 (5.5)	20 (9.1)	23 (6.4)	23 (5.8)	24 (4.0)	0.038
Genderqueer	655 (38.7)	109 (49.8)	160 (44.8)	153 (38.5)	199 (33.0)	< 0.001
Man	293 (17.3)	24 (11.0)	45 (12.6)	73 (18.4)	133 (22.1)	< 0.001
Non-binary	868 (51.2)	127 (58.0)	199 (55.7)	202 (50.9)	279 (46.3)	0.005
Transgender man	662 (39.1)	66 (30.1)	109 (30.5)	159 (40.1)	279 (46.3)	< 0.001
Transgender woman <sup>a</sup>	4 (0.2)	0 (0)	0 (0)	0 (0)	2 (0.3)	0.634
Two-spirit	26 (1.5)	4 (1.8)	7 (2.0)	4 (1.0)	7 (1.2)	0.579
Woman	204 (12.0)	32 (14.6)	51 (14.3)	45 (11.3)	67 (11.1)	0.302
Additional gender	197 (11.6)	33 (15.1)	52 (14.6)	39 (9.8)	60 (10.0)	0.029
Multiple gender identities	1036 (61.2)	141 (64.4)	229 (64.1)	241 (60.7)	360 (59.7)	0.16
Prefer not to answer	2 (0.1)	0 (0)	0 (0)	0 (0)	2 (0.3)	0.634
Gender Identity Outness to H	lealthcare Providers					0.05
0%	340 (20.1)	49 (22.4)	76 (21.3)	78 (19.6)	131 (21.7)	
10-40%	327 (19.3)	46 (21.0)	84 (23.5)	73 (18.4)	102 (16.9)	
50-90%	495 (29.1)	65 (29.5)	96 (26.8)	124 (31.4)	189 (31.4)	
100%	357 (21.1)	42 (19.2)	71 (19.9)	93 (23.4)	137 (22.7)	
I don't know	94 (5.5)	13 (5.9)	21 (5.9)	19 (4.8)	35 (5.8)	
Missing	81 (4.8)	4 (1.8)	9 (2.5)	10 (2.5)	9 (1.5)	
Sex assigned at birth						0.573
Female	1684 (99.4)	219 (100.0)	355 (99.4)	395 (99.5)	598 (99.2)	
Not listed	10 (0.6)	0 (0)	2 (0.6)	2 (0.5)	5 (0.8)	
Identifies as intersex						0.435
Yes	69 (4.1)	9 (4.1)	10 (2.8)	16 (4.0)	31 (5.1)	
Prefer not to answer	21 (1.2)	2 (0.9)	2 (0.6)	4 (1.0)	10 (1.7)	
Sexual Orientation*						
Asexual	252 (14.9)	27 (12.3)	38 (10.6)	58 (14.6)	113 (18.7)	0.004
Bisexual	571 (33.7)	117 (53.4)	165 (46.2)	113 (28.5)	151 (25.0)	< 0.001
Gay	348 (20.5)	48 (21.9)	64 (17.9)	87 (21.9)	130 (21.6)	0.484
Lesbian	218 (12.9)	17 (7.8)	36 (10.1)	63 (15.9)	89 (14.8)	0.006
Pansexual	418 (24.7)	78 (35.6)	121 (33.9)	85 (21.4)	116 (19.2)	< 0.001
Queer	1150 (67.9)	178 (81.3)	254 (71.1)	267 (67.3)	381 (63.2)	< 0.001
Questioning	69 (4.1)	14 (6.4)	11 (3.1)	7 (1.8)	32 (5.3)	0.006
Same gender loving	111 (6.6)	20 (9.1)	20 (5.6)	22 (5.5)	44 (7.3)	0.268
Straight/heterosexual	61 (3.6)	2 (0.9)	7 (2.0)	11 (2.8)	39 (6.5)	< 0.001
Another sexual orientation	129 (7.6)	19 (8.7)	24 (6.7)	25 (6.3)	51 (8.5)	0.503
Multiple selected	1010 (56.9)	168 (76.7)	231 (64.7)	218 (54.9)	343 (56.9)	< 0.001
Missing	21 (1.2)	0 (0)	0 (0)	0 (0)	1 (0.2)	
Education level	. ,		. ,	•		< 0.001
Less than a college degree	551 (32.5)	68 (31.1)	104 (29.1)	119 (30.0)	239 (39.6)	

College degree	644 (38.0)	88 (40.2)	153 (42.9)	165 (41.6)	210 (34.8)	
Graduate/professional degree	410 (24.2)	58 (26.5)	94 (26.3)	101 (25.4)	137 (22.7)	
Missing	89 (5.3)	5 (2.3)	6 (1.7)	12 (3.0)	17 (2.8)	
Health insurance coverage	1512 (89.3)	205 (93.6)	340 (95.2)	357 (89.9)	542 (89.9)	0.209
Missing	80 (4.7)	2 (0.9)	6 (1.7)	9 (2.3)	13 (2.2)	
US Census Region						0.869
Midwest	304 (17.9)	45 (20.5)	71 (19.9)	67 (16.9)	108 (17.9)	
Northeast	411 (24.3)	60 (27.4)	84 (23.5)	98 (24.7)	149 (24.7)	
South	326 (19.2)	39 (17.8)	68 (19.0)	83 (20.9)	124 (20.6)	
West	468 (27.6)	61 (27.9)	113 (31.7)	111 (28.0)	162 (26.9)	
Missing	185 (10.9)	14 (6.4)	21 (5.9)	38 (9.6)	60 (10.0)	

<sup>\*</sup> Respondents could select more than one option for these variables. For gender identity option, despite all respondents broadly falling under the TMGD umbrella, some also additionally selected other identities. We allowed respondents to select multiple gender identity options as this is established best practice for research with sexual and gender minority subjects [36]

<sup>\*\*</sup> n=118 respondents did not provide data on whether they'd spoken with a healthcare provider about contraception

**Table 2.** Comfort asking about birth control and timing of conversations with healthcare providers about contraceptive use relative to gender affirming hormone initiation or surgery among a sample of transgender men and gender-diverse (TMGD) people in the United States who had ever discussed contraception with a health care provider. Respondents were recruited online in 2019 for a survey of sexual and reproductive health (n=973). Experiences are presented overall, and by types of communication with a healthcare provider about contraceptive use.

	<b>Overall</b> n (%)	Both provider- and patient- initiated conversations (n=219) n (%)	Only patient-initiated conversatio ns (n=357) n (%)	Only provider-initiated conversatio ns (n=397) n (%)	p- value
Comfort asking about birth control (n=973)^					< 0.001
Very comfortable	278 (29)	87 (40)	117 (33)	74 (19)	
Somewhat comfortable	326 (34)	83 (38)	138 (39)	105 (26)	
A little comfortable	134 (14)	28 (13)	55 (15)	51 (13)	
Not at all comfortable	99 (10)	16 (7)	34 (10)	49 (12)	
I did not have any questions about birth control	128 (13)	4 (2)	11 (3)	113 (29)	
Missing	8 (1)	1 (1)	2 (1)	5 (1)	
Among only those who had received gender affirming (GA) hormones or surgeries (n=879)^^					
Any conversation about contraception	n=544	n=105	n=160	n=213	
Before respondent began GA hormone therapy and/or surgery	357 (41)	84 (80)	115 (72)	158 (74)	<0.001
After respondent began GA hormone therapy and/or surgery	196 (22)	54 (51)	53 (33)	89 (42)	<0.001
I don't remember	18 (2)	2 (2)	2 (1)	14 (7)	< 0.001

<sup>^</sup> among people who had a conversation with a provider about contraception

<sup>^^</sup> among people who had a conversation with a provider about contraception AND had ever had gender affirming hormone therapy or surgeries (respondents could select more than one option for conversation timing)

**Table 3.** Types of contraception currently used for any purpose among an online sample of transgender men and gender-diverse people assigned female or intersex at birth in the United States (n=1,694), overall and by history of communication with healthcare providers about contraception.

Current contraceptive method use for ANY	All TMGD Responde nts (n=1694)	Both provider- and patient- initiated conversati ons (n=219)	Only patient- initiated conversati ons (n=357)	Only provider- initiated conversati ons (n=397)	No conversati ons (n=603)	p- value
reason <sup>a</sup>	n (%)	n (%)	n (%)	n (%)	n (%)	
Current use of any method	809 (47.8)	169 (77.2)	278 (77.9)	167 (42.1)	158 (26.2)	<0.00 1 <0.00
Barrier	282 (16.6)	68 (31.1)	104 (29.1)	48 (12.1)	51 (8.5)	1
External condom	282 (16.6)	68 (31.1)	104 (29.1)	48 (12.1)	51 (8.5)	<0.00 1
Internal condom	22 (1.3)	9 (4.1)	8 (2.2)	2 (0.5)	2 (0.3)	<0.00 1
Diaphragm	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
Cervical cap	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
Sponge	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
Long Acting Reversible Contraceptive (LARC)	279 (16.5)	64 (29.2)	139 (38.9)	40 (10.1)	26 (4.3)	<0.00 1 <0.00
Hormonal IUD	184 (10.9)	41 (18.7)	91 (25.5)	28 (7.1)	18 (3)	1
Implant	55 (3.2)	13 (5.9)	25 (7)	8 (2)	6 (1)	<0.00 1 <0.00
Copper IUD	41 (2.4)	10 (4.6)	23 (6.4)	5 (1.3)	2 (0.3)	1
Combined hormonal contraception	117 (6.9)	19 (8.7)	41 (11.5)	28 (7.1)	26 (4.3)	<0.00 1
Combined pill	106 (6.3)	17 (7.8)	34 (9.5)	27 (6.8)	26 (4.3)	0.012
Ring	8 (0.5)	3 (1.4)	3 (0.8)	1 (0.3)	0 (0)	0.012
Patch	4 (0.2)	0 (0)	4 (1.1)	0 (0)	0 (0)	0.005
Permanent contraception	119 (7)	24 (11)	44 (12.3)	22 (5.5)	21 (3.5)	<0.00 1

Descendent permanent contracenties						< 0.00
Respondent permanent contraception	94 (5.5)	18 (8.2)	33 (9.2)	17 (4.3)	20 (3.3)	1
Partner permanent contraception				,		<0.00
·	33 (1.9)	7 (3.2)	17 (4.8)	6 (1.5)	1 (0.2)	1
Progestin only methods	54 (3.2)	9 (4.1)	20 (5.6)	11 (2.8)	9 (1.5)	0.004
Progestin pill	32 (1.9)	6 (2.7)	10 (2.8)	8 (2)	7 (1.2)	0.215
Shot	23 (1.4)	4 (1.8)	10 (2.8)	3 (0.8)	2 (0.3)	0.004
Other						< 0.00
Other	267 (15.8)	50 (22.8)	78 (21.8)	70 (17.6)	58 (9.6)	1
Abstinence						< 0.00
Abstillence	192 (11.3)	40 (18.3)	43 (12)	52 (13.1)	50 (8.3)	1
Withdrawal						< 0.00
Withdrawai	74 (4.4)	13 (5.9)	35 (9.8)	15 (3.8)	7 (1.2)	1
Fertility awareness	26 (1.5)	5 (2.3)	10 (2.8)	5 (1.3)	4 (0.7)	0.038
Emergency Contraception	8 (0.5)	1 (0.5)	3 (0.8)	1 (0.3)	2 (0.3)	0.596
Spermicide	1 (0.1)	0 (0)	1 (0.3)	0 (0)	0 (0)	0.365
Not listed	10 (0.6)	1 (0.5)	3 (0.8)	3 (0.8)	3 (0.5)	0.887

a respondents could select more than one contraceptive method IUD: intrauterine device

**Table 4.** Reasons for and barriers to contraceptive use among a sample of transgender men and gender-diverse (TMGD) people in the United States recruited online in 2019 for a survey of sexual and reproductive health (n=1,694). Experiences are presented overall, and by history of communication with a healthcare provider about contraceptive use.

	All TMGD Responden ts (n=1694)	Both provider- and patient- initiated conversatio ns (n=219)	Only patient- initiated conversatio ns (n=357)	Only provider-initiated conversatio ns (n=397)	No conversatio ns (n=603)	p- value
Ever use of contraception	<b>n (%)</b> 1203 (71)	<b>n (%)</b> 211 (96)	<b>n (%)</b> 345 (97)	<b>n (%)</b> 294 (74)	<b>n (%)</b> 284 (47)	<0.001
Reasons for using contraception a,b	1203 (71)	211 (90)	343 (97)	294 (74)	204 (47)	<0.001
Prevent pregnancy	837 (70)	197 (93)	318 (92)	178 (61)	97 (34)	< 0.001
Avoid period symptoms	662 (55)	122 (58)	199 (58)	144 (49)	162 (57)	0.1
Stop period	537 (45)	101 (48)	173 (50)	110 (37)	125 (44)	0.012
Avoid getting STIs	439 (36)	100 (47)	154 (45)	108 (37)	59 (21)	< 0.001
Reduce pelvic pain/endometriosis	210 (17)	48 (23)	56 (16)	55 (19)	43 (15)	0.13
Affirm gender	167 (14)	25 (12)	58 (17)	31 (11)	42 (15)	0.1
Treat medical condition	160 (13)	41 (19)	31 (9)	41 (14)	43 (15)	0.005
Avoid spreading STIs	53 (4)	17 (8)	17 (5)	14 (5)	4 (1)	0.006
Prevent hair growth	47 (4)	12 (6)	14 (4)	12 (4)	9 (3)	0.58
Not listed	90 (7)	10 (5)	18 (5)	32 (11)	23 (8)	0.018
Barriers to access <sup>a,b</sup>						
Difficulty finding affirming HCP	535 (44)	98 (46)	159 (46)	113 (38)	145 (51)	< 0.001
Cost of contraception	379 (32)	98 (46)	112 (32)	75 (26)	85 (30)	< 0.001
Cost of healthcare visit	357 (30)	88 (42)	106 (31)	72 (24)	84 (30)	< 0.001
Time required to obtain contraception	321 (27)	77 (36)	117 (34)	54 (18)	64 (23)	<0.001
Travel required to obtain contraception	227 (19)	52 (25)	72 (21)	44 (15)	53 (19)	0.02
Not listed	152 (13)	24 (11)	34 (10)	28 (10)	57 (20)	0.27

HCP: healthcare provider

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**Table 5.** Crude and adjusted odds ratios for the association between types of provider communication about contraception use and current contraception use for any reason, overall and by method type, among a sample of transgender men and gender-diverse (TMGD) people in the United States recruited online in 2019 for a survey of sexual and reproductive health (n=1,694).

Never had a conversation about contraceptive use (n=603)	Had both a provider- initiated and patient- initiated conversation about contraceptive use (n=219)		Only had a patient- initiated conversation about contraceptive use (n=357)			Only had a provider- initiated conversation about contraceptive use (n=397)			
Ref	OR	95% CI	<i>p</i> -value	OR	95% CI	value	OR	95% CI	<i>p</i> -value
Ref	9.5	6.6-13.7	<0.001	9.9 11.	7.3-13.5	<0.001	2.0	1.6-2.7	<0.001
Ref	9.8	6.6-14.6	< 0.001	9	8.3-16.9	< 0.001	2.0	1.5-2.7	< 0.001
Ref	3.0	1.9-4.7	<0.001	3.8	2.5-5.6	<0.001	1.1	0.8-1.6	0.43
Ref	1.6	0.9-2.6	0.08	1.4	0.9-2.3	0.12	8.0	0.5-1.3	0.46
Ref	4.7	2.6-8.4	< 0.001	7.0	4.1-12.1	< 0.001	1.8	1.0-3.1	0.04
Ref	0.9	0.4-1.9	0.70	1.3	0.6-2.5	0.49	1.1	0.6-2.2	0.75
Ref	2.9	0.9-9.7	0.08	4.5	1.6-12.7	0.005	2.0	0.7-5.4	0.17
Ref	1.3	0.6-2.8	0.44	1.7	0.9-3.3	0.12	1.1	0.6-2.2	0.75
Ref	1.3	0.8-2.2	0.29	1.1	0.7-1.8	0.62	1.3	0.9-2.0	0.19
	conversation about contraceptive use (n=603)  Ref  Ref  Ref  Ref  Ref  Ref  Ref  Re	conversation about contraceptive use (n=603)         init init init init init about seed (n=603)           Ref         OR           Ref         9.5           Ref         9.8           Ref         3.0           Ref         4.7           Ref         0.9           Ref         2.9           Ref         1.3	conversation about contraceptive use (n=603)         initiated and initiated conversation about contract use (n=219)           Ref         OR         95% CI           Ref         9.5         6.6-13.7           Ref         9.8         6.6-14.6           Ref         3.0         1.9-4.7           Ref         4.7         2.6-8.4           Ref         0.9         0.4-1.9           Ref         2.9         0.9-9.7           Ref         1.3         0.6-2.8	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)           Ref         OR         95% CI         p-value           Ref         9.5         6.6-13.7         <0.001	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)         OR         95% CI         p-value         OR           Ref         9.5         6.6-13.7         <0.001	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)         Only had a printiated conversation about contraceptive use (n=357)           Ref         OR         95% CI         p-value         OR         95% CI           Ref         9.5         6.6-13.7         <0.001	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)         Only had a patient-initiated conversation about contraceptive use (n=357)           Ref         OR         95% CI         p-value         OR         95% CI         value           Ref         9.5         6.6-13.7         <0.001	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)         Only had a patient-initiated conversation about contraceptive use (n=357)         initiated conversation about contraceptive use (n=357)         Initiated conversation about contraceptive use (n=357)         Property of the prope	conversation about contraceptive use (n=603)         initiated conversation about contraceptive use (n=219)         Only had a patient-initiated conversation about contraceptive use (n=357)         initiated conversation about contraceptive use (n=357)         initiated conversation about contraceptive use (n=357)         initiated conversation about contraceptive use (n=357)         (n=39)           Ref         OR         95% CI         p-value         OR         95% CI         Value         OR         95% CI           Ref         9.5         6.6-13.7         <0.001

<sup>^</sup> unadjusted

<sup>&</sup>lt;sup>a</sup> respondents could select more than one option

<sup>&</sup>lt;sup>b</sup> among people who ever used contraception for any reason

<sup>^^</sup>adjusted for gender identity, age, education, insurance coverage, gender identity outness, race/ethnicity

<sup>^^^</sup>adjusted for gender identity, age, education, insurance coverage, gender identity outness, race/ethnicity, reasons for contraceptive use