Individuals Treated for Gender Dysphoria with Medical and/or Surgical Transition Who Subsequently Detransitioned: A Survey of 100 Detransitioners

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Abstract

The study’s purpose was to describe a population of individuals who experienced gender dysphoria, chose to undergo medical and/or surgical transition and then detransitioned by discontinuing medications, having surgery to reverse the effects of transition, or both. Recruitment information with a link to an anonymous survey was shared on social media, professional listservs, and via snowball sampling. Sixty-nine percent of the 100 participants were natal female and 31.0% were natal male. Reasons for detransitioning were varied and included: experiencing discrimination (23.0%); becoming more comfortable identifying as their natal sex (60.0%); having concerns about potential medical complications from transitioning (49.0%); and coming to the view that their gender dysphoria was caused by something specific such as trauma, abuse, or a mental health condition (38.0%). Homophobia or difficulty accepting themselves as lesbian, gay, or bisexual was expressed by 23.0% as a reason for transition and subsequent detransition. The majority (55.0%) felt that they did not receive an adequate evaluation from a doctor or mental health professional before starting transition and only 24.0% of respondents informed their clinicians that they had detransitioned. There are many different reasons and experiences leading to detransition. More research is needed to understand this population, determine the prevalence of detransition as an outcome of transition, meet the medical and psychological needs of this population, and better inform the process of evaluation and counseling prior to transition.

Keywords Gender dysphoria · Detransition · Transgender

Introduction

Detransition is the act of stopping or reversing a gender transition. The visibility of individuals who have detransitioned is new and may be rapidly growing. As recently as 2014, it was challenging for an individual who detransitioned to find another person who similarly detransitioned (Callahan, 2018). Between 2015 and 2017, a handful of blogs written by individual detransitioners started to appear online, private support groups for detransitioners formed, and interviews with detransitioners began to appear in news articles, magazines, and blogs (Anonymous, 2017; 4thwavenow, 2016; Herzog, 2017; McCann, 2017). Although few YouTube videos about detransition existed prior to 2016, multiple detransitioners started to post videos documenting their experiences in 2016 and the numbers of these videos continues to increase. In late 2017, the subreddit r/detrans (r/detrans, 2020) was revitalized and in four years has grown from 100 members to more than 21,000 members. A member poll of r/detrans conducted in 2019 estimated that approximately one-third of the members responding to the survey were desisters or detransitioners (r/detrans, 2019). The Pique Resilience Project, a group of four detransitioned or desisted young women, was founded in 2018 as a way to share the experiences of detransitioners with the public (Pique Resilience Project, 2019). In late 2019, the Detransition Advocacy Network, a nonprofit organization to “improve the well-being of detransitioned people everywhere” was launched (The
Detransition Advocacy Network, 2020) and the first formal, in-person conference for detransitioned people was held (Bridge, 2020). In the face of this massive change, clinicians have called for more research into the experiences of detransitioners (Butler & Hutchinon, 2020; Entwistle, 2021; Marchiano, 2020).

Although there were rare published reports about detransitioners prior to 2016, most of the published literature about detransition is recent (Callahan, 2018; D’Angelo, 2018; Djerdevic et al., 2016; Kuiper & Cohen-Kettenis, 1998; Levine, 2018; Marchiano, 2017; Pazos Guerra et al., 2020; Stella, 2016; Turban & Keuroghlian, 2018; Turban et al., 2021; Vandenbussche, 2021). The prevailing cultural narratives about detransition are that most individuals who detransition will retransition and that the reasons for detransition are discrimination, pressures from others, and nonbinary identification (Turban et al., 2021). However, case reports are shedding light on a broader and more complex range of experiences that include trauma, worsened mental health with transition, re-identification with natal sex, and difficulty separating sexual orientation from gender identity (D’Angelo, 2018; Levine, 2018; Pazos Guerra et al., 2020).

Detransitioners and desisters, in their own words, have provided additional depth to the discussion, describing that:

1. Trauma (including sexual trauma) and mental health conditions contributed to their transgender identification and transition (Callahan, 2018; Herzog, 2017; twitter.com/fmtdetransed & twitter.com/radfemjourney, 2019).
2. Their dysphoria and transition were due to homophobia and difficulty accepting themselves as homosexual (Bridge, 2020; Callahan, 2018; upperhandMARS, 2020).
3. Peers, social media, and online communities were influential in the development of transgender identification and desire to transition (Pique Resilience Project, 2019; Tracey, 2020; upperhandMARS, 2020).
4. Their dysphoria was rooted in misogyny (Herzog, 2017).

Two recently published convenience sample reports provide additional context about the topic of detransition. First, Turban et al. (2021) analyzed data from the United States Trans Survey (USTS) (James et al., 2016). The USTS contains data from 27,715 transgender and gender diverse adults from the U.S. who were recruited through lesbian, gay, bisexual, transgender, queer (LGBTQ), and allied organization outreach. The USTS included the question, “Have you ever detransitioned?” In other words, have you ever gone back to living as your sex assigned at birth, at least for a while?” with the multiple choice options of “yes,” “no,” and “I have never transitioned.” For the 2,242 participants who answered “yes,” Turban et al. analyzed the responses to the multiple choice question, “Why did you detransition?” In other words, why did you go back to living as your sex assigned at birth? (Mark all that apply). Although most of the offered answer options were about external pressures to detransition (pressure from spouse or partner, pressure from family, pressure from friends, pressure from employer, discrimination, etc.), participants could write in additional reasons that were not listed. Turban et al.’s sample included more natal males (55.1%) than natal females (44.9%). Roughly half (50.2%) had taken cross-sex hormones and 16.5% had obtained surgery. The findings revealed that most (82.5%) of the sample expressed at least one external factor for detransitioning and 15.9% expressed at least one internal factor (factors originating from self).

The second study by Vandenbussche (2021) recruited detransitioners from online communities of detransitioners and analyzed data for the participants who answered affirmatively to the question, “Did you transition medically and/or socially and then stopped?” The sample of 237 participants was predominantly natal female (92%), and from the U.S. (51%) and Europe (32%). Most (65%) had transitioned both medically and socially. Participants selected from multiple choice options to indicate why they detransitioned with options covering a range of experiences. Respondents also had the option to write in additional reasons. Frequently endorsed reasons for detransition included realizing that their gender dysphoria was related to other issues (70%); health concerns (62%); observing that transition did not help their dysphoria (50%); and that they found alternatives to deal with their dysphoria (45%). In contrast to Turban et al. (2021), external factors such as lack of support, financial concerns, and discrimination were less common (13%, 12%, and 10%, respectively). Many in the sample described that when they detransitioned they lost support or were ostracized from lesbian, gay, bisexual, and transgender (LGBT) communities, suggesting that many of the participants in Vandenbussche (2021) would not have been reached by the recruitment efforts of the USTS (James et al., 2016).

The objective of the current study was to describe a population of individuals who experienced gender dysphoria, chose to undergo medical and/or surgical transition and then detransitioned by discontinuing medications, having surgery to reverse the effects of transition, or both. In contrast to Turban et al. (2021) and Vandenbussche (2021), this study focused only on
individuals who transitioned and detransitioned medically, surgically, or both. For the purpose of this study, medical transition refers to the use of puberty blockers, cross-sex hormones, or anti-androgens and surgical transition refers to any of a variety of surgical procedures (common surgical procedures include mastectomy, genital surgery, and breast augmentation). This study does not describe the population of individuals who undergo medical or surgical transition without issue nor is it designed to assess the prevalence of detransition as an outcome of transition. Instead, the goal was to identify detransition reasons and narratives in order to inform clinical care and future research.

Method

Participants and Procedure

During the recruitment period, 101 individuals who met the study criteria completed online surveys. Inclusion criteria were (1) completion of a survey via Survey Monkey; (2) answering that they had taken or had one or more of the following for the purpose of gender transition: cross-sex hormones, anti-androgens, puberty blockers, breast surgery, genital surgery, other surgery; and (3) answering that they had done any of the following for the purpose of detransitioning: stopped taking cross-sex hormones, stopped taking anti-androgens, stopped taking puberty blockers, had any surgery to reverse transition. One survey was excluded for nonsense answers leaving 100 surveys for analysis. The sample included more natal females (69.0%) than natal males (31.0%) with respondents who were predominantly White (90.0%), non-Hispanic (98.0%), resided in the U.S. (66.0%); had no religious affiliation (63.0%), and support the rights of gay and lesbian couples to marry legally (66.0%); had no religious affiliation (63.0%), and predominantly White (90.0%), non-Hispanic (98.0%), resided in the U.S. (66.0%); had no religious affiliation (63.0%), and support the rights of gay and lesbian couples to marry legally (66.0%). At the time of survey completion, the mean age of respondents was 29.2 years (SD = 9.1) though natal (92.9%) (see Table 1). At the time of survey completion, the mean age of respondents was 29.2 years (SD = 9.1) though natal females were significantly younger ($M = 25.8; SD = 5.0$) than natal males ($M = 36.7; SD = 11.4$), $t(98) = −6.56$, $p < .001$. Prior to transitioning, natal females were more likely to report an exclusively homosexual sexual orientation and natal males were more likely to report an exclusively heterosexual sexual orientation.

A 115-question survey instrument with multiple choice, Likert-type, and open-ended questions was created by the author and two individuals who had personally detransitioned. The author had met both detransitioners by way of introductions from colleagues. The author and both individuals who had detransitioned created questions for the survey, provided feedback, and revised the survey questions collaboratively with a focus on content, clarity, and relevance to a variety of transition and detransition experiences. The survey instrument included two questions that were adapted from an online survey of female detransitioners (Stella, 2016). Once completed, the survey was uploaded onto Survey Monkey (SurveyMonkey, Palo Alto, CA) via an account that was HIPAA-enabled.

Recruitment information with a link to the survey was posted on blogs that covered detransition topics and shared in a private online detransition forum, in a closed detransition Facebook group, and on Tumblr, Twitter, and Reddit. Recruitment information was also shared on the professional listservs for the World Professional Association for Transgender Health, the American Psychological Association Section 44, and the SEXNET listserv (which is a listserv of sex researchers and clinicians) and the professionals on the listservs were asked to share recruitment information with anyone they knew who might be eligible. Efforts were made to reach out to communities with varied views about the use of medical and surgical transition and recruitment information stated that participation was sought from individuals regardless of whether their transition experiences were positive, negative or neutral. Potential participants were invited to share recruitment information with any potentially eligible person or community with potentially eligible people. The survey was active from December 15, 2016 to April 30, 2017 (4.5 months). The median time to complete a survey was 49 min; 50% of the surveys were completed between 32 and 71 min. There were no incentives offered for participating. Data were collected anonymously, without IP addresses, and stored securely with Survey Monkey.

Participation in this study was voluntary. Electronic consent was obtained from all participants in the following manner. The first page of the online survey informed respondents about the research purpose, potential risks and benefits, that participation was voluntary, and provided contact information for the researcher. Survey questions were only displayed if the participant clicked “agree” which indicated that they read the information, voluntarily agreed to participate and were at least 18 years of age.

Measures

Demographic and Baseline Characteristics

Information was collected about participant age, natal sex, race/ethnicity, country of residence, educational attainment, socioeconomic status, religion, attitudes about legal marriage for gay and lesbian couples, and where they first heard about the study. The term sexual orientation in this article is intended to refer to the natal sex of the participant and the natal sex of the individuals with whom they are sexually attracted. Participants were asked to select one or more labels for how they identified their sexual orientation prior to transition with options inclusive of participant sex (e.g., asexual female, bisexual female, heterosexual female, etc.). These responses were coded to be consistent with participant natal sex and were categorized into homosexual, heterosexual, bisexual, pansexual, asexual, and multiple. The multiple category included respondents who
Table 1: Demographic and baseline characteristics

| Race/ethnicity* | Natal female N (%) | Natal male N(%) |
|----------------|--------------------|----------------|
| White          | 62 (89.9%)         | 28 (90.3%)     |
| Multiracial    | 6 (8.7%)           | 3 (9.7%)       |
| Other          | 4 (5.8%)           | 0 (0%)         |
| Asian          | 1 (1.4%)           | 1 (3.2%)       |
| Hispanic       | 1 (1.4%)           | 1 (3.2%)       |
| Black          | 0 (0%)             | 0 (0%)         |

| Country of residence | Natal female N (%) | Natal male N(%) |
|---------------------|--------------------|----------------|
| USA                 | 46 (66.7%)         | 20 (64.5%)     |
| UK                  | 8 (11.6%)          | 1 (3.2%)       |
| Canada              | 5 (7.2%)           | 4 (12.9%)      |
| Australia           | 2 (2.9%)           | 2 (6.5%)       |
| Other               | 8 (11.6%)          | 4 (12.9%)      |

| Education | Natal female N (%) | Natal male N(%) |
|-----------|--------------------|----------------|
| Bachelor’s or graduate degree | 29 (42.0%) | 18 (58.1%) |
| Associates degree | 3 (4.3%) | 1 (3.2%) |
| Some college but no degree | 28 (40.6%) | 9 (29.0%) |
| High school graduate or GED | 8 (11.6%) | 2 (6.5%) |
| < High school | 1 (1.4%) | 0 (0%) |
| Other | 0 (0%) | 1 (3.2%) |

| Socioeconomic status compared to others in country of residence | Natal female N (%) | Natal male N(%) |
|---------------------------------------------------------------|--------------------|----------------|
| Above average (somewhat or very much) | 19 (27.5%) | 12 (38.7%) |
| About average | 20 (29.0%) | 7 (22.6%) |
| Below average (somewhat or very much) | 27 (39.1%) | 12 (38.7%) |
| Prefer not to say | 3 (4.3%) | 0 (0%) |

| Categorized sexual orientation (by natal sex) prior to transition† | Natal female N (%) | Natal male N(%) |
|-----------------------------------------------------------------|--------------------|----------------|
| Homosexual | 18 (26.1%) | 2 (6.5%) |
| Heterosexual | 6 (8.7%) | 12 (38.7%) |
| Bisexual | 15 (21.7%) | 8 (25.8%) |
| Pansexual | 4 (5.8%) | 1 (3.2%) |
| Multiple | 20 (29.0%) | 5 (16.1%) |
| Asexual | 6 (8.7%) | 3 (9.7%) |

| Religious affiliation | Natal female N (%) | Natal male N(%) |
|-----------------------|--------------------|----------------|
| No religious affiliation | 41 (59.4%) | 22 (73.3%) |
| Liberal Christian | 5 (7.2%) | 3 (10.0%) |
| Liberal Jewish | 5 (7.2%) | 0 (0%) |
| Conservative Christian | 1 (1.4%) | 2 (6.7%) |
| Liberal Muslim | 1 (1.4%) | 0 (0%) |
| Conservative Jewish | 0 (0%) | 0 (0%) |
| Conservative Muslim | 0 (0%) | 0 (0%) |
| Other | 16 (23.2%) | 3 (10.0%) |

| Legal marriage for gay and lesbian couples | Natal female N (%) | Natal male N(%) |
|------------------------------------------|--------------------|----------------|
| Favor | 65 (97.0%) | 26 (83.9%) |
| Oppose | 1 (1.5%) | 5 (16.1%) |
| Don’t know | 1 (1.5%) | 0 (0%) |

| Source where participant first heard about study | Natal female N (%) | Natal male N(%) |
|-----------------------------------------------|--------------------|----------------|
| Detransition blogs | 26 (37.7%) | 15 (48.4%) |
| Other social media | 37 (53.6%) | 11 (35.5%) |
| A person they know | 3 (4.3%) | 3 (9.7%) |
| Other | 3 (4.3%) | 2 (6.5%) |

*May select more than one answer

†Natal females were more likely to express an exclusively homosexual sexual orientation prior to transition ($\chi^2 = 5.15$. The p-value is .023). Natal males were more likely to express an exclusively heterosexual sexual orientation prior to transition ($\chi^2 = 5.15$. The p-value is .023).
selected more than one response where responses indicated more than one pattern of sexual attraction (e.g., lesbian female and heterosexual female). Other questions about baseline characteristics included questions about diagnosed psychiatric disorders and neurodevelopmental disabilities, trauma, and non-suicidal self-injury (NSSI) before the onset of gender dysphoria.

**Gender Dysphoria Onset and Typologies**

Participants were asked how old they were when they first experienced gender dysphoria and whether this was during childhood, at the onset of puberty, during puberty, or later. Respondents were categorized as having early-onset gender dysphoria if they indicated that their gender dysphoria began “during childhood” and late-onset gender dysphoria if their gender dysphoria began “at the onset of puberty” or later. To evaluate typologies, participants were characterized by Blanchard’s (1985, 1989) typology as homosexual (if the sexual orientations listed prior to transition were exclusively homosexual) or non-homosexual which includes heterosexual, asexual, bisexual, pansexual, and multiple responses.

**Transition**

Participants were asked for their age and the year that they first sought care to transition, sources that encouraged them to believe that transition would be helpful to them, and whether they felt pressured to transition. The friendship group dynamics that were identified in previous work were assessed by asking respondents whether their friendship group mocked people who were not transgender, whether people in their pre-existing friend group transitioned before the participant decided to transition, and how participant popularity changed after announcing that they would transition (Litman, 2018). Questions were asked about participant experiences with clinicians, the social, medical, and surgical steps they took to transition, and the duration of time spent taking each medication.

**Detransition**

Participants were asked for their age and the year that they decided to detransition, how long they were transitioned before deciding to detransition, their reasons for wanting to detransition, what sources encouraged them to believe that detransition would be helpful to them, and whether they felt pressured to detransition. Participants were also asked which social, medical, and surgical steps they took to detransition and whether they contacted the doctor or clinic that they used for their transition to tell them that they detransitioned.

**Transition and Detransition Narratives**

In this article, “narratives” denote participant interpretations of their experiences and rationales surrounding their decisions to transition and detransition. To associate each participant survey with a set of relevant narratives, the data were reviewed with horizontal (beginning to end) passes and vertical passes for selected questions (these questions are listed in the supplemental materials). Surveys were coded as belonging to zero or more of the following narrative categories: discrimination, nonbinary, retransition, trauma and mental health, internalized homophobia, social influence, and misogyny. Each narrative and the responses that were associated with them are detailed below. Example quotes were selected with care taken to avoid quoting a participant more than once per narrative. Narratives are ordered and reported with the more commonly accepted narratives first and the newer narratives next.

The discrimination narrative was defined as when someone detransitioned due to experiencing discrimination or external social pressures. The nonbinary narrative consisted of answering that their current identification was “nonbinary/genderqueer” or providing open-text responses that described aspects of discovering or maintaining a nonbinary identification. Although there were no questions in the survey specifically asking about retransition, the retransition narrative was identified if participants expressed that they had retransitioned or resumed transition in any of the open-text responses in the survey. The gender dysphoria was caused by trauma or a mental health condition narrative was identified by selection for the answers, “what I thought were feelings of being transgender were actually the result of trauma,” “what I thought were feelings of being transgender were actually the result of a mental health condition,” “I discovered that my gender dysphoria was caused by something specific (ex. trauma, abuse, mental health condition)” or open-text responses consistent with these reasons. The internalized homophobia/difficulty accepting oneself as a lesbian female, gay male, or bisexual person narrative consisted of descriptions that the respondents’ discomfort and distress about being lesbian, gay, or bisexual was related to their gender dysphoria, transition, or detransition, or that they assumed they were transgender because they did not yet understand themselves to be lesbian, gay or bisexual. The social pressure to transition narrative was identified with an affirmative
answer to whether they felt pressured to transition with an open-turn response indicating that the pressure came from a person or group of people. The *misogyny* narrative was identified for natal female respondents with open-text responses using the word “misogyny” or expressing a hatred of femaleness.

**Gender Identification at Start of Transition and at Survey Completion**

Participants were asked how they identified their gender when they started their transition and at the time of survey completion. They were given options of female, male, nonbinary/genderqueer, trans man/FTM, trans woman/MTF, none of the above, and other. Responses were coded by natal sex and categorized as transgender, birth sex, nonbinary, and other. Answers that were combinations of the above categories were reported as combinations such as “birth sex and nonbinary.”

**Self-Appraisal of Transition and Detransition**

One question asked if participants believe they were helped and another if they were harmed by their transition with options of “very much,” “a little,” or “not at all.” These results were categorized into exclusively helped, exclusively harmed, and both helped and harmed. Participants were asked which of the following reflected their feelings about their transition: “I am glad that I transitioned,” “I wish I had never transitioned,” “Transitioning distracted me from what I should have been doing,” “Transition was a necessary part of my journey.” Participants were asked to rate their regret about their transition (“no regrets,” “mild regrets,” “strong regrets,” and “very strong regrets”) and were asked to indicate their satisfaction with their decisions to transition and detransition (“extremely satisfied,” “very satisfied,” “somewhat satisfied,” “somewhat dissatisfied,” “very dissatisfied,” and “extremely dissatisfied”). Satisfaction options were collapsed into “satisfied” and “dissatisfied.” In addition, participants were asked if they knew then what they know now, would they have chosen to transition.

**Data Analysis**

After data were cleaned, statistical analyses were performed using google sheets. Results are presented as frequencies, percentages, medians, means and standard deviations. *t* tests and chi-square tests were performed for selected variables and were considered significant for *p* < .05. Qualitative data were obtained from the open-text answers to questions that allowed participants to provide additional information. Selected open-text responses were categorized, tallied, and reported numerically. Salient respondent quotes and summaries from the qualitative data were selected to illustrate the quantitative results and to provide relevant examples.

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**Results**

**Before Transition**

Mental health diagnoses and traumatic experiences before the onset of gender dysphoria. Table 2 shows data about psychiatric disorders, neurodevelopmental disabilities, NSSI, and trauma that were reported as occurring prior to the onset of gender dysphoria. Because these conditions and events occurred before participants began to feel gender dysphoric, they cannot be considered to be secondary to gender incongruence or transphobia.

Gender dysphoria onset and typology. Most participants (82.0%) were living with one or both parents when they first experienced gender dysphoria at a mean age of 11.2 years (SD = 5.6). The mean age of gender dysphoria onset was not statistically different between natal females (*M* = 11.3; SD = 5.4) and natal males (*M* = 11.0; SD = 5.9), *t*(96) = 0.25. By Blanchard typologies, 26.1% of natal females were exclusively homosexual and 73.9% non-homosexual while 6.5% of natal males were exclusively homosexual and 93.5% non-homosexual (Blanchard, 1985, 1989). Slightly more than half of the respondents (56.0%) experienced early-onset gender dysphoria and slightly less than half (44.0%) experienced late-onset gender dysphoria. Although late-onset gender dysphoria in natal females was largely absent from the scientific literature prior to 2012 (Steensma et al., 2013; Zucker & Bradley, 1995; Zucker et al., 2012a), 55.1% of the natal female participants reported that their gender dysphoria began with puberty or later. Because the information about the timing of gender dysphoria onset was obtained from participants reporting on their own experiences, it can be assumed that these cases were indeed late-onset rather than early-onset gender dysphoria that was concealed from parents and other people.

**Transition reasons.** Table 3 shows data about the reasons that individuals wanted to transition and the most frequently endorsed were: wanting to be perceived as the target gender (77.0%); believing that transitioning was their only option to feel better (71.0%); the sensation that their body felt wrong the way it was (71.0%), and not wanting to be associated with their natal sex (70.0%). Most participants believed that transitioning would eliminate (65.0%) or decrease (63.0%) their gender dysphoria and that with transitioning they would become their true selves (64.0%).

Sources of transition encouragement and friend group dynamics. Participants identified sources that encouraged them to believe transitioning would help them. Social media and online communities were the most frequently reported, including YouTube transition videos (48.0%), blogs (46.0%), Tumblr (45.0%), and online communities (43.0%) (see supplemental materials). Also common were people who the respondents knew offline such as therapists (37.0%); someone (28.0%) or a group of friends (27.0%) that they knew in-person. A subset of
### Table 2  Mental health diagnoses and traumatic experiences prior to the onset of gender dysphoria

| Diagnosis                                              | Natal female N (%) | Natal male N (%) |
|--------------------------------------------------------|--------------------|------------------|
| Depression                                             | 27 (39.1%)         | 5 (16.1%)        |
| Anxiety                                                | 22 (31.9%)         | 5 (16.1%)        |
| Attention deficit hyperactivity disorder (ADHD)        | 10 (14.5%)         | 2 (6.5%)         |
| Post-traumatic stress disorder (PTSD)                  | 10 (14.5%)         | 1 (3.2%)         |
| Eating disorders                                       | 10 (14.5%)         | 0 (0%)           |
| Autism spectrum disorders                              | 9 (13.0%)          | 1 (3.2%)         |
| Bipolar disorder                                       | 9 (13.0%)          | 0 (0%)           |
| Obsessive compulsive disorder                          | 6 (8.7%)           | 3 (9.7%)         |
| Borderline personality disorder                        | 5 (7.2%)           | 0 (0%)           |
| Schizophrenia or other psychotic disorders             | 1 (1.4%)           | 0 (0%)           |
| None of the above                                      | 28 (40.6%)         | 17 (54.8%)       |
| Other                                                  | 7 (10.1%)          | 2 (6.5%)         |

*a* Natal sex difference for one or more pre-existing diagnoses (100-none of the above) was not significant \[\chi^2(1, 100) = 1.76\]

*b* Natal sex differences for NSSI before the onset of gender dysphoria was not significant \[\chi^2 = 1.52\]

*c* Experiencing a trauma less than one year before the start of gender dysphoria was statistically different \[\chi^2(1, 100) = 11.19, p < .001\] with natal females > natal males

### Table 3  Transition reasons

| Reason for transition*                                    | Natal female N (%) | Natal male N (%) |
|-----------------------------------------------------------|--------------------|------------------|
| I wanted others to perceive me as the target gender       | 53 (76.8%)         | 24 (77.4%)       |
| I thought transitioning was my only option to feel better | 50 (72.5%)         | 21 (67.7%)       |
| My body felt wrong to me the way it was                  | 50 (72.5%)         | 21 (67.7%)       |
| I didn’t want to be associated with my natal sex/natal gender | 51 (73.9%)         | 19 (61.3%)       |
| It made me uncomfortable to be perceived romantically/sexually as a member of my natal sex/natal gender | 49 (71.0%)         | 18 (58.1%)       |
| I thought transitioning would eliminate my gender dysphoria | 43 (62.3%)         | 22 (71.0%)       |
| I felt I would become my true self                        | 42 (60.9%)         | 22 (71.0%)       |
| I identified with the target gender                       | 40 (58.0%)         | 24 (77.4%)       |
| I thought transitioning would lessen my gender dysphoria  | 45 (65.2%)         | 18 (58.1%)       |
| I felt I would fit in better with the target gender       | 36 (56.5%)         | 20 (64.5%)       |
| I felt I would be more socially acceptable as a member of the target gender | 38 (55.1%)         | 11 (35.5%)       |
| I felt I would be treated better if I was perceived as the target gender | 35 (50.7%)         | 14 (45.2%)       |
| I saw myself as a member of the target gender             | 31 (44.9%)         | 18 (58.1%)       |
| I thought transitioning would reduce gender-related harassment or trauma I was experiencing | 35 (50.7%)         | 5 (16.1%)        |
| I had erotic reasons for wanting to transition            | 9 (13.0%)          | 12 (38.7%)       |
| Other                                                     | 9 (13.0%)          | 3 (9.7%)         |

*a* May select more than one answer

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participants experienced the friendship group dynamics identified in previous work, including belonging to a friendship group that mocked people who were not transgender (22.2%), having one or more friend from the pre-existing friend group transition before the participant decided to transition (36.4%), and experiencing an increase in popularity after announcing plans to transition (19.6%) (Littman, 2018). Most did not have this experience (68.7%, 61.6%, and 62.9%, respectively).

Pressure to transition. More than a third of the participants (37.4%) felt pressured to transition. Natal sex differences in feeling pressured to transition were significant by chi-square test with natal females > natal males $\chi^2(1, 99) = 4.22, p = .04$. Twenty-eight participants provided open-text responses of which 24 described sources of pressure (17 described social pressures and 7 described sources that were not associated with other people). Clinicians, partners, friends, and society were named as sources that applied pressure to transition, as seen in the following quotes: “My gender therapist acted like it [transition] was a panacea for everything;” “[My] [d]octor pushed drugs and surgery at every visit;” “I was dating a trans woman and she framed our relationship in a way that was contingent on my being trans;” “A couple of later trans friends kept insisting that I needed to stop delaying things;” “[My] best friend told me repeatedly that it [transition] was best for me;” “The forums and communities and internet friends;” “By the whole of society telling me I was wrong as a lesbian;” and “Everyone says that if you feel like a different gender…then you just are that gender and you should transition.” Participants also felt pressure to transition that did not involve other people as illustrated by the following: “I felt pressured by my inability to function with dysphoria” and “Not by people. By my life circumstances.”

Experiences with clinicians. When participants first sought care for their gender dysphoria or names (88.0%), and the vast majority (97.1%) of natal females wore a binder. Most participants identified as either transgender (80.0%), nonbinary (15.0%), or both transgender and nonbinary (3.0%). Participants identified which social, medical, and surgical steps they had taken to transition. Table 4 shows these steps, separated by natal sex where appropriate. Most respondents adopted new pronouns (91.0%) and names (88.0%), and the vast majority (97.1%) of natal females wore a binder. Most participants took cross-sex hormones (96.0%) and most natal males took anti-androgens (87.1%). The most frequent transition surgery was breast or chest surgery for natal females (33.3%). Genital surgery was less common (1.4% of natal females and 16.1% of natal males). Natal females took testosterone for a mean duration of 2.0 years (SD = 1.6). Natal males took estrogen for a mean duration of 5.1 years (SD = 5.9) and anti-androgens for 2.8 years (SD = 2.6). The minority of patients who took puberty blockers took them for a mean duration of less than a year ($M = 0.9$ years; SD = 0.6).

Detransition

Before deciding to detransition, participants remained transitioned for a mean duration of 3.9 years (SD = 4.1) with natal females remaining transitioned for a shorter period of time ($M = 3.2$ years; SD = 2.7) than natal males ($M = 5.4$ years; SD = 6.1). $t(96) = − 2.40, p = .018$. When participants decided to detransition they were a mean age of 26.4 years old (SD = 7.4) though natal females were significantly younger ($M = 23.6$; SD = 4.5) than natal males ($M = 32.7$; SD = 8.8). $t(97) = − 6.75, p < .001$. The mean calendar year when participants decided to detransition was 2014 ($M = 2014$; SD = 3.3), but the difference...
between natal females and natal males was not significant ($M = 2014$, SD = 3.3; $M = 2014$, SD = 3.5), $t(95) = 0.52$.

Respondents detransitioned for a variety of reasons and most (87.0%) selected more than one reason. The most frequently endorsed reason for detransitioning was that the respondent’s personal definition of male and female changed and they became comfortable identifying with their natal sex (60.0%) (see Table 5). Other commonly endorsed reasons were concerns about potential medical complications (49.0%); transition did not improve their mental health (42.0%); dissatisfaction with the physical results of transition (40.0%); and discovering that something specific like trauma or a mental health condition caused their gender dysphoria (38.0%). External pressures to detransition such as experiencing discrimination (23.0%) or worrying about paying for treatments (17.0%) were less common.

Encouragement and pressure to detransition. Participants were asked to select sources that encouraged them to believe that detransitioning would help them. These included blogs (37.0%), Tumblr (35.0%), and YouTube detransition videos (23.0%) (see supplemental materials). At some point in their process, 23.2% felt pressured to detransition. There was no significant difference between natal females and natal males for feeling pressured to detransition, $\chi^2(1, 99) = 1.11$. Of the 21 open-text responses provided, 14 respondents expressed social pressure to detransition; three expressed internal pressure to detransition and four provided responses that were neither

Table 4 Steps taken for social, medical, and surgical transition

| Social transition*          | N (%)  |
|-----------------------------|--------|
| Pronouns                    | 91 (91.0%) |
| Different name              | 88 (88.0%) |
| Clothes/hair/makeup         | 90 (90.0%) |
| Legal name change           | 49 (49.0%) |
| Gender/sex changed on government documents | 36 (36.0%) |
| Voice training              | 20 (20.0%) |
| Natal female               |        |
| Wore a binder              | 67 (97.1%) |
| Medical transition*         |        |
| Cross-sex hormones          | 96 (96.0%) |
| Puberty blockers            | 7 (7.0%)  |
| Natal male                 |        |
| Anti-androgens              | 27 (87.1%) |
| Surgical transition*       |        |
| Face/neck surgery           | 5 (5.0%)  |
| Natal female               |        |
| Breast/chest surgery        | 23 (33.3%) |
| Genital surgery (to create a penis) | 1 (1.4%) |
| Natal male                 |        |
| Breast implants             | 5 (16.1%) |
| Genital surgery (to create a vagina) | 5 (16.1%) |

*May select more than one answer

Table 5 Reasons for detransitioning

| Reasons for detransitioning* | Natal female N (%) | Natal male N (%) |
|------------------------------|-------------------|------------------|
| My personal definition of female or male changed and I became more comfortable identifying as my natal sex | 45 (65.2%) | 15 (48.4%) |
| I was concerned about potential medical complications from transitioning | 40 (58.0%) | 9 (29.0%) |
| My mental health did not improve while transitioning | 31 (44.9%) | 11 (35.5%) |
| I was dissatisfied by the physical results of the transition/felt the change was too much | 35 (50.7%) | 5 (16.1%) |
| I discovered that my gender dysphoria was caused by something specific (ex, trauma, abuse, mental health condition) | 28 (40.6%) | 10 (32.3%) |
| My mental health was worse while transitioning | 27 (39.1%) | 9 (29.0%) |
| I was dissatisfied by the physical results of the transition/felt the change was not enough | 22 (31.9%) | 11 (35.5%) |
| I found more effective ways to help my gender dysphoria | 25 (36.2%) | 7 (22.6%) |
| My physical health was worse while transitioning | 21 (30.4%) | 11 (35.5%) |
| I felt discriminated against | 12 (17.4%) | 11 (35.5%) |
| I had medical complications from transitioning | 12 (17.4%) | 7 (22.6%) |
| Financial concerns about paying for transition care | 11 (15.9%) | 6 (19.4%) |
| My gender dysphoria resolved | 10 (14.5%) | 5 (16.1%) |
| My physical health did not improve while transitioning | 9 (13.0%) | 2 (6.5%) |
| I resolved the specific issue that was the cause of my gender dysphoria | 6 (8.7%) | 4 (12.9%) |
| I realized that my desire to transition was erotically motivated | 1 (1.4%) | 5 (16.1%) |
| Other | 19 (27.5%) | 6 (19.4%) |

*May select more than one answer
or unclear. Regarding social pressure to detransition, seven participants expressed that the pressure came from partners, parents, or other family members as shown in the following example quotes: “I was threatened that if I did not immediately detransition I would NEVER see my […] children again,” “My father very much wanted me to desist,” and “Parents constantly encouraging me to detransition.” Five participants expressed societal pressure to detransition as expressed in the following quotes: “I did not pass, I was mocked in public, I could not get a job. It was not ok to be trans” and “Well, I mean basically the entire world was against me transitioning, so yeah.” One participant felt pressured by doctors and another one from a blog.

Detransition steps. Table 6 shows data about the social, medical, and surgical steps participants took to detransition. Nearly all participants medically detransitioned by ceasing cross-sex hormones (95.0%). Social detransition steps were also common and included returning to the use of previously used pronouns (63.0%) and birth names (33.0%) and changing one’s clothes and hair presentations (48.0%). Surgical detransition steps were less common (9.0%).

Finding better ways of coping with gender dysphoria. Participants were asked to select responses that that they considered to have been better ways for them to cope with their gender dysphoria. Responses included community (44.0%), mindfulness/meditation (41.0%), exercise (39.0%), therapy (24.0%), trauma work (24.0%), medication to treat a mental health condition (18.0%), and yoga (14.0%).

**Transition and Detransition Narratives**

Several transition and detransition narratives emerged from the data. A sizable minority of participants (41.0%) expressed more than one narrative in their responses.

The discrimination and external pressures to detransition narrative was described by 29.0% of participants. Examples include: “I had to detransition in order to get a job”; “I was afraid of being homeless and unable to support myself”; “I felt much happier with myself but I couldn’t go anywhere without being afraid. I passed okay but not perfectly. I was stared down and sneered at in the women’s clothes section, I wouldn’t dare use a public toilet because I’d find either violent men or women who wished an encounter with a violent man on me.”

A nonbinary narrative was expressed by 16.0% of participants. Some described that they discovered their nonbinary gender identity during their transition, as in the following quotes: “I still was uncomfortable with my body and figured I should stop and make sure I really wanted to keep going. I didn’t and I decided I must be nonbinary, not FTM”; “Transitioning didn’t do what I thought I wanted it to. I had transitioned to the wrong gender. I still felt wrong. Then, I realized I was not male, but genderqueer. I detransitioned to suit my true identity.” And others described a consistent nonbinary identification, as in the following quote, “I identified the same way that I did before. I had gotten what I wanted out of HRT and was ready to stop taking it.” (Cross-sex hormones are sometimes referred to as “hormone replacement therapy” and abbreviated as HRT).

Three participants (3.0%) expressed the retransition narrative in open-text answers indicating that they had retransitioned, including the following quotes: “I am now transitioning for a second time”; I retransitioned after 5 years of detransition” and “Anyway, I retransitioned over 10 years after detransitioning.”

Most participants (58.0%) expressed the gender dysphoria was caused by trauma or a mental health condition narrative which included endorsing the response options indicating that their gender dysphoria was caused by something specific, such as a trauma or a mental health condition. More than half of the participants (51.2%) responded that they believe that the process of transitioning delayed or prevented them from dealing with or being treated for trauma or a mental health condition. The following are example quotes that were in response to why participants chose to detransition: “I slowly began addressing the mental health conditions and traumatic experiences that caused such a severe disconnect between myself and my body…”; “I was starting to become critical of transition because I felt that many people were doing it out of self-hatred and started to realize that applied to me as well”; “I was deeply uncomfortable with my secondary sex characteristics, which I now understand was a result of childhood trauma and associating my secondary sex characteristics with those events.”

Despite the absence of any questions about this topic in the survey, nearly a quarter (23.0%) of the participants expressed the internalized homophobia and difficulty accepting oneself as lesbian, gay, or bisexual narrative by spontaneously describing that these experiences were instrumental to their gender dysphoria, their desire to transition, and their detransition. All

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**Table 6** Social, medical, and surgical detransition steps

| Detransition Steps                        | N (%)       |
|------------------------------------------|-------------|
| Social detransition*                     |             |
| Previous pronouns                        | 63 (63.0%)  |
| Clothes/hair/makeup                      | 48 (48.0%)  |
| Birth name                               | 33 (33.0%)  |
| New name (not birth name)                | 24 (24.0%)  |
| None of the above                         | 2 (2.0%)    |
| Medical detransition*                    |             |
| Stopped cross-sex hormones                | 95 (95.0%)  |
| Stopped puberty blockers                  | 4 (4.0%)    |
| Started hormones consistent with natal sex| 14 (14.0%)  |
| Natal male                               |             |
| Stopped anti-androgens                    | 17 (54.8%)  |
| Surgical detransition*                   |             |
| Surgery to reverse changes from transition| 9 (9.0%)    |

*May select more than one answer*
of the participants in this category indicated that they were either same-sex attracted exclusively or were same-sex attracted in combination with opposite-sex attraction (such as bisexual, pansexual, etc.). The following responses were written in as "other" for the question about why participants transitioned: “Transitioning to male would mean my attraction to girls would be ‘normal’”; “being a ‘gay trans man’ (female dating other females) felt better than being a lesbian, less shameful”; “I felt being the opposite gender would make my repressed same-sex attraction less scary”; “I didn’t want to be a gay man.” Some participants described that it took time for them to gain an understanding of themselves as lesbian, gay, or bisexual as seen in the following: “At the time I was trying to figure out my identity and felt very male and thought I was transgender. I later discovered that I was a lesbian...”; and “Well, after deep discovery, I realized I was a gay man and realized that a sexual trauma after puberty might have confused my thought. I wanted to live as a gay man again.” Several natal female respondents expressed that seeing other butch lesbians would have been helpful to them as shown by the following: “What would have helped me is being able to access women’s community, specifically lesbian community. I needed access to diverse female role-models and mentors, especially other butch women.”

The social influence narrative was identified where participants added information to the question about if they had felt pressured to transition and the response described pressure from a person or people. One-fifth (20.0%) of participants expressed that they felt pressured by a person or people to transition. Example quotes for social influence were described in a previous section.

Of the natal females, 7.2% expressed the misogyny narrative. Example quotes include: “…I realized how much of it [dysphoria] may have been caused by internalized misogyny and homophobia”; “Finally realizing there’s nothing wrong or disgusting or weak about being female”; and “My transition was a desperate attempt to distance myself from womanhood and femaleness due to internalized lesbophobia and misogyny combined with a history of sexual trauma.”

After Detransition

Disposition. At the time of survey completion, most participants had returned to identifying solely as their birth sex (61.0%) with an additional 10.0% identifying as their birth sex plus another identification. Fourteen percent of the participants identified solely as nonbinary with an additional 11.0% identifying as nonbinary plus a second identification. Eight percent of the participants identified solely as transgender with an additional 5.0% identifying as transgender plus another identification. Four percent of the responses did not fit into the above categories and were coded as “other.” Figure 1 illustrates the distribution of participants’ current gender identification (post-detransition). Only 24.0% of participants had informed the doctor or clinic that facilitated their transitions that they had detransitioned.

Self-appraisal of past transgender identification. Table 7 presents the data for responses endorsed by participants to reflect how they feel currently about having identified as transgender in the past. The statements most frequently selected included: “I thought gender dysphoria was the best explanation for what I was feeling” (57.0%), “My gender dysphoria was similar to the gender dysphoria of those who remain transitioned” (42.0%), “What I thought were feelings of being transgender actually were the result of trauma” (36.0%), “What I thought were feelings of being transgender actually were the result of a mental health condition” (36.0%).

Self-appraisal of transition and detransition. When asked to select which statement best reflects their feelings about their transition, nearly a third (30.0%) indicated that they wish they had never transitioned while 11.0% indicated they were glad they transitioned. Some (34.0%) selected the statement that transition “was a necessary part of [their] journey” but others (21.0%) indicated that the process of transitioning distracted them from what they should have been doing. Responses about whether transition helped or harmed them were also complicated. While 50.5% selected answers consistent with being both helped and harmed, 32.3% indicated that they were only harmed and 17.2% indicated that they were only helped. The majority of respondents were dissatisfied with their decision to transition (69.7%) and satisfied with their decision to detransition (84.7%). At least some amount of transition regret was
common (79.8%) and nearly half (49.5%) reported strong or very strong regret. Most respondents (64.6%) indicated that if they knew then what they know now, they would not have chosen to transition.

**Discussion**

This study was designed to explore the experiences of individuals who obtained medical and surgical treatment for gender dysphoria and then detransitioned by discontinuing the medications or having surgery to reverse the changes from transition. The findings of this study, however, should not be assumed to be representative of all individuals who detransition. Although this study further documents that detransitioners exist, the prevalence of detransition as an outcome of transition is unknown. Only a small percentage of detransitioners (24.0%) informed the clinicians and clinics that facilitated their transitions that they had detransitioned. Therefore, clinic rates of detransition are likely to be underestimated and gender transition specialists may be unaware of how many of their own patients have detransitioned, particularly for patients who are no longer under their care.

This research demonstrates that the experiences of individuals who detransition are varied and the reasons for detransition are complex. Nearly all participants identified as transgender or nonbinary at the start of their transition and most sought transition because they did not want to be associated with their natal sex, their bodies felt wrong the way they were, and they believed that transition was the only option to relieve their distress. Some were helped by transition and only detransitioned because they were pressured to do so by people in their lives, society, or because they had medical complications. Some were harmed by transition and detransitioned because they concluded that their gender dysphoria was caused by trauma, a mental health condition, internalized homophobia, or misogyny—conditions that are not likely to be resolved with transition. These findings highlight the complexity of gender dysphoria and suggest that, in some cases, failure to explore co-morbidities and the context in which the gender dysphoria emerged can lead to misdiagnosis, missed diagnoses, and inappropriate gender transition. Some individuals detransitioned because their gender dysphoria resolved, because they found better ways to address their symptoms, or because their personal definitions of male and female changed and they became comfortable identifying as their natal sex.

The study sample was predominantly young natal females, many of whom experienced late-onset gender dysphoria which mirrors the recent, striking changes in the demographics of gender dysphoric youth seeking care as well as the youth described by their parents in Littman (2018) (see also Aitken et al., 2015; de Graaf et al., 2018; Zucker, 2019). Concerns have been raised that this new cohort of gender dysphoric individuals is unlike previous cohorts. Professionals have started to call for caution before treating this cohort with interventions with permanent effects because the etiologies, resistance and persistence rates, and

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Table 7: Self-appraisal of past transgender identification

| Self-appraisal about identifying as transgender in the past* | Natal female N (%) | Natal male N (%) |
|-------------------------------------------------------------|--------------------|-----------------|
| I thought gender dysphoria was the best explanation for what I was feeling | 39 (56.5%) | 18 (58.1%) |
| My gender dysphoria was similar to the gender dysphoria of those who remain transitioned | 32 (46.4%) | 10 (32.3%) |
| What I thought were feelings of being transgender actually were the result of trauma | 31 (44.9%) | 5 (16.1%) |
| What I thought were feelings of being transgender actually were the result of a mental health condition | 28 (40.6%) | 8 (25.8%) |
| Someone else told me that the feelings I was having meant that I was transgender and I believed them | 25 (36.2%) | 10 (32.3%) |
| I still identify as transgender | 20 (29.0%) | 10 (32.3%) |
| I believed I was transgender then, but I was mistaken | 16 (23.2%) | 6 (19.4%) |
| I was transgender then but I am not transgender now | 15 (21.7%) | 7 (22.6%) |
| I formerly identified as transgender and now identify as genderqueer/nonbinary | 12 (17.4%) | 5 (16.1%) |
| My gender dysphoria was different from the gender dysphoria of those who remain transitioned | 11 (15.9%) | 4 (12.9%) |
| I was never transgender | 8 (11.6%) | 3 (9.7%) |
| I thought I had gender dysphoria but I was mistaken | 4 (5.8%) | 4 (12.9%) |
| I never had gender dysphoria | 1 (1.4) | 2 (6.5%) |
| N/A as I did not identify as transgender in the past | 0 (0%) | 1 (3.2%) |
| Other | 18 (26.1%) | 5 (16.1%) |

*May select more than one answer
expected duration of symptoms, and whether this new population is helped or harmed by gender transition is still unknown (D’Angelo et al., 2021; Kaltiala-Heino et al., 2018). The natal females and natal males in this sample differed on several dimensions, including that natal females were younger than natal males when they sought transition, when they decided to detransition, and at the time of survey completion. Natal females were more likely than natal males to have experienced a trauma less than one year before the onset of their gender dysphoria and were more likely to have felt pressured to transition. Compared to natal males, natal females remained transitioned for a shorter duration of time before deciding to detransition. Additionally, natal females transitioned more recently than natal males, so their experiences may vary due to changing trends in the clinical management of gender dysphoria and the cultural settings in which they became gender dysphoric.

The study findings covered a wide range of detransition experiences that are consistent with the diversity of experiences described in previously published clinical case reports and case series. Overlap of findings include: transition regret; absence of transition regret; re-identification with birth sex; continued identification as transgender; improvement or worsening of well-being with transition; retransitioning; detransitioning due to external social pressures; nonbinary identification; and recognizing and accepting oneself as homosexual or bisexual (D’Angelo, 2018; Djordjevic et al., 2016; Levine, 2018; Pazos Guerra et al., 2020; Turban & Keuroghlian, 2018; Turban et al., 2021; Vandenbussche, 2021). The population in this study is similar to the population in Vandenbussche in that both were predominantly natal females in their mid-20s. Because the current study recruited in 2016–2017 and Vandenbussche recruited in 2019, the similar mean age of participants may reflect the age of individuals who can be reached in online detransitioner communities. Several findings in this study were consistent with Vandenbussche’s findings, including similar reasons for detransition (realizing that their gender dysphoria was related to other issues, finding alternatives to address gender dysphoria, gender dysphoria resolved, etc.). Although these two studies were recruited in different years, had different eligibility criteria, and included participants from several countries, it is possible that there may be some overlap of study populations.

The current study findings provide additional insight into the complex relationships between internalized homophobia, gender dysphoria, and desire to transition. Contrary to arguments against the potential role of homophobia in gender transitions (Ashley, 2020), participants reported that their own gender dysphoria and desire to transition stemmed from the discomfort they felt about being same-sex attracted, their desire to not be gay, and the difficulties that they had accepting themselves as lesbian, gay or bisexual. For these individuals, exploring their distress and discomfort around sexual orientation issues may have been more helpful to them than medical and surgical transition or at least an important part of exploration before making the decision to transition. This research adds to the existing evidence that gender dysphoria can be temporary (Ristori & Steensma, 2016; Singh et al., 2021; Zucker, 2018). It has been established that the most likely outcome for prepubertal youth with gender dysphoria is to develop into lesbian, gay, bisexual (LGB) (non-transgender) adults (Ristori & Steensma, 2016; Singh et al., 2021; Wallien & Cohen-Kettenis, 2008; Zucker, 2018). And, temporary gender dysphoria may be a common part of LGB identity development (Korte et al., 2008; Patterson, 2018). Therefore, intervening too soon to medicalize gender dysphoric youth risks iatrogenically derailing the development of youth who would otherwise grow up to be LGB non-transgender adults. Participants who detransitioned because they became comfortable identifying as their natal sex and because their gender dysphoria resolved further support that gender dysphoria is not always permanent.

The data in this study strengthen, with first-hand accounts, the rapid-onset gender dysphoria (ROGD) hypotheses which, briefly stated, are that psychosocial factors (such as trauma, mental health conditions, maladaptive coping mechanisms, internalized homophobia, and social influence) can cause or contribute to the development of gender dysphoria in some individuals (Littman, 2018). Littman also postulated that certain beliefs could be spread by peer contagion, including the belief that a wide range of symptoms should be interpreted as gender dysphoria (and proof of being transgender) and the belief that transition is the only solution to relieve distress. The current study supports the potential role of psychosocial factors in the development of gender dysphoria and further suggests, by participant responses that transitioning prevented or delayed them from addressing their underlying conditions, that maladaptive coping mechanisms may be relevant for some individuals. The potential role of social influence is demonstrated as well. First, when respondents were asked to describe how they currently feel about having identified as transgender in the past, more than a third endorsed the option, “Someone told me that the feelings I was having meant that I was transgender, and I believed them.” Second, a subset of participants experienced the unique friendship group dynamics reported in Littman where peer groups mocked people who were not transgender and popularity within the friend group increased when respondents announced their plan to transition. Additionally, respondents identified several social sources that encouraged them to believe that transitioning would help them including: YouTube transition videos, blogs, Tumblr, and online communities. And finally, 20.0% of participants felt pressured to transition by social sources that included friends, partners, and society. More research is needed to further explore these hypotheses.

The current study and the Turban et al. (2021) analysis of the USTS data share some similarities and differences. Similarities include the use of convenience samples, targeted recruitment, and anonymous data collection. The findings of Turban et al. (including external pressures to detransition and transgender
The most recently emerging approach to gender dysphoria is the affirmative approach in 2018 and Planned Parenthood currently uses the informed consent model to provide medical transition. Patients considering medical and surgical interventions deserve accurate information about the risks, benefits, and alternatives to that treatment. In this sample, nearly half of the participants reported that the counseling they received about transition was overly positive about the benefits of transition and more than a quarter reported that the counseling was not negative enough about the risks. Several participants felt pressured to transition by their doctors and therapists. If these types of clinical interactions are verified, exploration is needed to determine the extent to which this situation occurs and what measures might be taken to ensure that clinicians provide patients with their options accurately and dispassionately.

There are several obstacles to obtaining accurate rates of detransition and desistance, including stigma and the low numbers of detransitioners who inform their clinicians that they detransitioned. One approach to bypass some of these barriers would be to incorporate non-judgmental questions about detransition and desistance into nationally representative surveys that collect health data. For example, the Behavioral Risk Factor Surveillance System contains an optional module about sexual orientation and gender identity that includes two questions to explore gender issues (Downing & Przedworski, 2018). By changing one existing question, “Do you consider yourself to be transgender?” into two questions, “Have you ever, at any point in your life, considered yourself to be transgender?” and “Do you currently consider yourself to be transgender?” and by adding a follow-up question if answers indicate past but not current transgender identification, “Did you ever take puberty blockers, cross-sex hormones, anti-androgens, or have any surgery as part of your transition?”, valuable information about desistance, detransition, and current transgender identification could be obtained. These types of questions may also be of use in clinical practice and electronic medical records. The information gained about rates of detransition and desistance would enhance transgender healthcare by aiding informed consent processes at the start of any medical or surgical transition.

One of the strengths of this study is that it is one of the largest samples of detransitioners to date. Other strengths include the use of a precise definition for detransition, enrollment of detransitioners regardless of their post-detransition gender identification, recruitment from communities with likely divergent views about transition and detransition, and collaboration with two individuals who had detransitioned which helped to create a survey instrument with questions relevant to a variety of detransition experiences and enhanced the recruitment efforts.

There are several limitations to this study that should be considered when interpreting the findings. Like Vandenburgsche (2021), James et al. (2016), and Turban et al. (2021), this study...
used a cross-sectional design, anonymous surveying, and a convenience sample and therefore shares the same limitations that are inherent to these methodologies. These limitations include that conclusions about causation cannot be determined, identities of participants cannot be verified, and the findings of this study may not be generalizable to the entire population of people who detransition or to people outside of the countries where participants were from. Although this study reached out to communities with differing perspectives about transition and detransition, targeted recruitment and convenience samples always introduce the limitations associated with selection biases which should be addressed in future research. Finally, many of the participants in this study had less than ideal outcomes to their medical and surgical transitions, and it is possible that these experiences may have colored some of the responses.

Additional research is needed to determine the prevalence of detransition as an outcome of transition and to identify and meet the psychological and medical needs of the emerging detransitioned population. Because many individuals who detransition re-identify with their birth sex, are no longer connected to LGBT communities, and don’t return to gender clinics, future research about detransition needs to expand recruitment efforts beyond gender clinics and transgender communities. The development and testing of non-medical interventions for gender dysphoria could provide valuable options to be used as alternatives or in conjunction with medical and surgical treatments. Because of the potential for some to experience trauma, mental health conditions, internalized homophobia, and misogyny as gender dysphoria, research needs to be conducted on the evaluation process before transition to find approaches that respectfully and collaboratively explore factors that might contribute to gender-related distress. There continues to be an absence of long-term outcomes evidence for youth treated with medical and surgical transition and a lack of information about the trajectories of youth experiencing late-onset gender dysphoria—research is needed to address these gaps. Continued work is needed to reduce rigid gender roles, increase representation of gender stereotype nonconformity, and to address discrimination and social pressures exerted against people who are transgender, lesbian, gay, bisexual, and gender stereotype non-conforming.

Conclusion

This study described individuals who, after transitioning with medications or surgery, have detransitioned. The prevalence of detransitioning after transition is unknown but is likely underestimated because most of the participants did not inform the doctors who facilitated their transitions that they had detransitioned. There is no single narrative to explain the experiences of all individuals who detransition and we should take care to avoid painting this population with a broad brush. Some detransitioners return to identifying with their birth sex, some assume (or maintain) a nonbinary identification, and some continue to identify as transgender. Some detransitioners regret transitioning and some do not. Some of the detransitioners reported experiences that support the ROGD hypotheses, including that their gender dysphoria began during or after puberty and that mental health issues, trauma, peers, social media, online communities, and difficulty accepting themselves as lesbian, gay, or bisexual were related to their gender dysphoria and desire to transition. Natal female and natal male detransitioners appear to have differences in their baseline characteristics and experiences and these differences should be further delineated. Future research about gender dysphoria and the outcomes of transition should consider the diversity of experiences and trajectories. More research is needed to determine how best to provide support and treatment for the long-term medical and psychological well-being of individuals who detransition. Findings about detransition should be used to improve our understanding of gender dysphoria and to better inform the processes of evaluation, counseling, and informed consent for individuals who are contemplating transition.

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Declarations

Conflict of interest The author has no relevant financial or non-financial conflicts of interest to disclose.

Consent to Participate Electronic consent was obtained from all participants included in the study. On the first page of the online survey, participants were informed of the research purpose and potential risks and benefits of participating, that their participation was voluntary, and were presented with a way to contact the researcher. The research survey questions were displayed only if the participant clicked “agree” which indicated that the participant read the information, voluntarily agreed to participate, and were at least 18 years of age.

Ethical Approval The research was determined to be Exempt Human Research by the Program for the Protection of Human Subjects of the Icahn School of Medicine at Mount Sinai in New York, NY. All procedures were performed in accordance with the ethical standards of the Program for the Protection of Human Subjects at the Icahn School of Medicine at Mount Sinai and with the 1964 Declaration of Helsinki and its later amendments or comparable ethical standards.

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