

Sexual Health

Background/Introduction

Sexual health has a profound impact on physical and psychological well-being, regardless of one's sex, gender, or sexual orientation. However, sex, gender and sexual orientation shape people's opportunities to live out their sexuality and to receive appropriate sexual health care. Specifically, in most societies, cisnormativity and heteronormativity lead to the assumption that all people are cisgender and heterosexual (Bauer, et al., 2009) and that this combination is superior to all other genders and sexual orientations (Nieder et al., 2020; Rider et al., 2019). Heteronormativity negates the complexity of gender, sexual orientation, and sexuality and disregards the diversity and fluid understanding of these concepts. This is all the more important since both the sexual identities and orientations of transgender and gender diverse (TGD) people and their sexual practices are characterized by an enormous diversity (Galupo et al., 2016; T'Sjoen et al., 2020). Therefore, the World Health Organization (WHO, 2010) emphasizes that sexual health depends essentially on whether the sexual rights of all people are respected, including the right to express diverse sexualities and to be treated respectfully, safely, and free from discrimination and violence. Sexual health discourses have focused on agency and body autonomy, which include consent, sexual pleasure, partnerships, and family life (Cornwall & Jolly, 2006).

In light of this, the WHO defines sexual health as “a state of physical, emotional, mental, and social well-being in relation to sexuality and not merely the absence of disease, dysfunction, or infirmity. Sexual health requires a positive and respectful approach to sexuality and sexual relationships, as well as the possibility of having pleasurable and safe sexual experiences, free of coercion, discrimination, and violence. For sexual health to be attained and maintained, the sexual rights of all persons must be respected, protected, and fulfilled” (WHO, 2006, p. 5).

Focusing on the promotion of sexual health, the World Association for Sexual Health (WAS) asserts the importance of sexual pleasure and considers self-determination, consent, safety, privacy, confidence and the ability to communicate and negotiate sexual relations as major facilitators (Kismödi et al., 2017). To contribute to the sexual health of TGD people, health care professionals (HCPs) need both trans-related expertise and sensitivity (Nieder et al., 2020). With the goal of improving sexual health for TGD people to a comparable, ethically-sound, evidence-based and high-quality level, HCPs must provide their health services with the same care (i.e., with trans-related expertise) and respect (i.e., with trans-related sensitivity) they provide for cisgender people (Holmberg et al., 2018).

Performances of TGD people, such as gender atypical expressions, can have strong reactions in many people. Thus, when initiating a health-related contact or establishing a therapeutic relationship, being sensitive here means first of all not to let oneself be guided by the fact that the person seeking care is TGD. A nonjudgmental, open, and welcoming manner is most likely ensured when HCPs reflect on their emotional, cognitive, and interactional reactions to the person (Nieder et al., 2020). In addition, trans-related expertise refers to identifying the biographical impact of growing up as transgender or gender diverse on the person being cared for (Rider et al., 2019). To adequately address the specific physical, psychological, and social conditions of TGD people, HCPs must be aware these conditions are generally overlooked for reasons of heteronormativity, lack of knowledge and lack of skills (Rees, et al., 2021). In addition, HCPs must be sensitive to the history of (mis)use of sexual identity and orientation as a gatekeeping function to exclude transgender people from transition-related care (Nieder & Richter-Appelt, 2011; Richards et al., 2014). The following recommendations aim to improve sexual health care for TGD people.

Summary of Recommendations

Statement 1: We recommend health care professionals who provide care to transgender and gender diverse patients acquire the knowledge and skills needed to address sexual health issues (relevant to their care provision).

Statement 2: We recommend health care professionals who provide care to transgender and gender diverse patients offer the possibility of including partner(s) in sexuality-related care, if appropriate.

Statement 3: We recommend health care professionals counsel transgender and gender diverse patients about the potential impact of stigma and trauma on sexual risk behavior, sexual avoidance, and sexual functioning.

Statement 4: We recommend any health care professional who offers care that may impact sexual health provide information, ask about the patient's expectations, and assess their level of understanding of possible changes.

Statement 5: We recommend health care professionals who provide care to transgender and gender diverse patients counsel adolescents and adults regarding prevention of sexually transmitted infections.

Statement 6: We recommend health care professionals who provide care to transgender and gender diverse patients follow local and World Health Organization guidelines for human immunodeficiency virus/sexual transmitted infections (HIV/STIs) screening, prevention, and treatment.

Statement 7: We recommend health care professionals who provide care to transgender and gender diverse patients address concerns about potential interactions between antiretroviral medications and hormones.

All of these statements have been recommended based on the large amount of background literature and a favorable risk-benefit ratio of providing sexual health counseling to patients, partners, and loved ones. We recognize in some areas evidence is limited, sexual health services may not be accessible or desirable, or both situations may exist.

Statement 1:

We recommend health care professionals who provide care to transgender and gender diverse patients acquire the knowledge and skills to address sexual health issues (relevant to their care provision).

It is important HCPs addressing the sexual health of TGD people be familiar with commonly used terminology (see terminology chapter) and invite those seeking care to explain terms with which the provider may not be familiar. In this context, it is also important HCPs (are prepared to) take a sexual history and offer treatment (according to their competencies) in a trans-affirming way (Centers for Disease Control, 2020). To achieve this, it is crucial HCPs providing transition-related medical interventions be sufficiently informed about possible effects on sexual function and pleasure (T'Sjoen et al., 2020). Considering that clinical data indicate that TGD people score significantly lower in sexual pleasure compared to cisgender

individuals, this is even more important (Gieles et al., submitted). If the HCP cannot provide information about the effects of their treatment on sexual function and pleasure, they are at least expected to refer the individual to someone qualified to do so. If the sexuality-related effects of their treatment are not known, HCPs should inform their patients accordingly. As introduced above, the sexuality of TGD people often challenges heteronormative views. Nevertheless, there is a large amount of literature (e.g., Bauer, 2018; Laube et al., 2020; Hamm & Nieder, 2021; Stephenson et al., 2017) highlighting the spectrum character of sexuality that does not fit into expectations of what male and female sexuality entails (neither cis- nor transgender), let alone gender diverse people (e. g., nonbinary, agender, genderqueer). Thus, these aspects should be carefully considered by HCPs as cisnormativity, heteronormativity, and transition-related medical interventions, all have a strong impact on sexual health.

Statement 2:

We recommend health care professionals who provide care to transgender and gender diverse clients offer the possibility of including partner(s) in sexuality-related care, if appropriate.

When appropriate and relevant to clinical concerns, inclusion of a sexual partner, romantic partner(s), or both in sexual health care decision-making can increase TGD patients' sexual well-being and satisfaction outcomes (Kleinplatz, 2012). TGD patients may choose a range of transition-related medical interventions, and these interventions may have mixed results in shifting experiences of anatomical dysphoria (Bauer & Hammond, 2015). When discussing the impact of medical interventions on sexual functioning and pleasure, inclusion of partner(s) can increase knowledge of potential changes and encourage communication between partners (Dierckx et al., 2019). Because the process of transitioning is not a completely solitary endeavor, including a sexual partner, romantic partner, or both in transition-related health care can facilitate the process of 'co-transitioning' (Lindley et al., 2020; Siboni et al., 2021; Theron & Collier, 2013) and can also support sexual growth and adjustment both in the individual as well as in the relationship. Social and psychological barriers to sexual functioning and pleasure, including experiences of gender dysphoria, stigmatization, lack of sexual and relationship role models, and limited skills, can have negative impacts on overall sexual health (Kerckhof et al., 2019). Supportive, gender-affirming sexual communication between partners improves sexual satisfaction outcomes for TGD patients (Stephenson et al., 2017; Wierckx et al., 2011). Inclusion of partners, when appropriate and as desired by patients, offers an opportunity to set realistic expectations, disseminate helpful and accurate information, and facilitate gender-affirming positive communication related to sexual health.

Statement 3:

We recommend health care professionals counsel transgender and gender diverse patients about the potential impact of stigma and trauma on sexual risk behavior, sexual avoidance, and sexual functioning.

The TGD community is disproportionately impacted by stigma, discrimination, and violence (de Vries et al., 2020; EU FRA, 2020; McLachlan, 2019). These experiences are often traumatic in nature (Burnes et al., 2016; Mizock & Lewis, 2008) and can create barriers to sexual health, functioning, and pleasure (Bauer & Hammond, 2015). For example, stigmatizing narratives about trans sexualities can increase dysphoria and sexual shame, increasing potential avoidance of the sexual communication needed for safety and optimizing pleasure (Stephenson et al., 2017). Research demonstrates that stigma, a history of sexual violence, and body image concerns can negatively impact sexual self-esteem and

agency, for example the ability to assert what is pleasurable or to negotiate condom use (Clements-Nolle et al., 2008; Dharma et al., 2019). Additionally, gender dysphoria can be exacerbated by past trauma experiences and ongoing trauma-related symptoms (Giovanardi et al., 2018) as well as that childhood adversities are associated with adult depression and suicidality even after gender affirming treatment (Biedermann et al., 2021). For example, it may be difficult for some TGD individuals to engage sexually using the genitals with which they were born, and they may choose to avoid such stimulation altogether, disrupting arousal, orgasmic processes, or both (Anzani et al., 2021; Bauer & Hammond, 2015; Iantaffi & Bockting, 2011). Some level of disconnect or dissociation may also be present, particularly in the case of acute trauma symptoms (Colizzi et al., 2015). It is important for HCPs to be aware of these potential impacts on sexual health, functioning, and pleasure so they may refer patients, as needed, to trauma-informed sexual counselors, mental health providers, or both, who may be of further assistance.

Statement 4:

We recommend any health care professional who offers care that may impact sexual health provide information, ask about the patient's expectations, and assess their level of understanding of possible changes.

HCPs should inform their TGD patients about treatments among the ones being offered that can affect sexual function and pleasure and, specifically, how these will be impacted (Garcia, 2021; Holmberg et al., 2018). Transition-related care can affect sexual function and pleasure, both in positive and negative ways (Holmberg et al., 2018; Kerckhof et al., 2019; Tirapegui et al., 2020). Sexual desire and arousal, the ability to have an erection and ejaculation, a satisfying orgasm, and general sexual satisfaction may be affected by the use of psychotropic drugs (Montejo et al., 2015). As some TGD people are prescribed similar medication to treat depression (Heylens et al., 2014), anxiety (Millet, Longworth & Arcelus, 2017) or other mental health concerns (Dhejne et al., 2016), their potential side effects on sexual health should be considered. Furthermore, transition-related hormones may have similar effects on sexual function and pleasure, among others that are not yet fully understood (Garcia & Zaliznyak, 2020; Kerckhof et al., 2019; Wierckx et al., 2011). Transition-related hormones may affect mood, sexual desire, and sexual arousal processes, which in turn can affect sexual function and pleasure as well as sexual self-expression (Defreyne et al., 2020; Klein & Gorzalka, 2009).

Many gender affirming surgeries can have significant effects on erogenous sensation, sexual desire and arousal as well as sexual function and pleasure. The impact of these changes for patients may be mixed (Holmberg et al., 2018). Chest surgeries (breast reduction, mastectomy, and breast augmentation) and body contouring surgeries, for example, may offer desired changes in form and appearance thereby reducing psychological distress that can disrupt sexual functioning, but may adversely affect erogenous sensation (Bekeny et al., 2020; Claes et al., 2018; Rochlin et al., 2020). Genital surgeries in particular can potentially affect sexual function and pleasure in adverse ways, although they are likely to be experienced positively as the patient's body becomes more aligned with their gender, potentially opening new avenues for sexual exploration, pleasure, and satisfaction (Hess et al., 2018; Holmberg et al., 2018; Kerckhof et al., 2019).

There are numerous examples of this in the extant literature:

- Surgery may result in a decrease, a total loss, or a possible increase in erogenous stimulation and/or experienced sensation as compared to the patient's presurgery anatomy (Garcia, 2018; Sigurjónsson et al., 2017).

- A particular surgical option may be associated with specific limitations to sexual function that may manifest immediately, in the future, or at both timepoints, and which patients should consider before finalizing their choice when considering different surgical options (Frey et al., 2016; Garcia, 2018; Isaacson et al., 2017).
- Postsurgical complications can adversely affect sexual function by either decreasing the quality of sexual function (e.g., discomfort or pain with sexual activity) or by precluding satisfactory intercourse (Kerckhof et al., 2019; Schardein et al., 2019).

In general, satisfaction with any medical treatment is heavily influenced by the patient's expectations (Padilla et al., 2019). Furthermore, when patients have unrealistic expectations before treatment, they are much more likely to be dissatisfied with the outcome, their care, and with their HCP (Padilla et al., 2019). Therefore, it is important to both provide patients with adequate information about their treatment options and to understand and consider what is important to the patient with regard to outcomes (Garcia, 2021). Finally, it is important that the HCP ensure patients' understand the potential adverse effects of a treatment on their sexual function and pleasure so that a well-informed decision can be made. This is relevant for both meeting the standard of informed consent (i.e., discussion and understanding) and for providing an opportunity to offer further clarification to patients and, if desired, to their partners (Glaser et al., 2020).

Statement 5:

We recommend health care professionals who provide care to transgender and gender diverse patients counsel adolescents and adults regarding prevention of sexually transmitted infections.

TGD persons are disproportionately impacted by human immunodeficiency virus (HIV) and other sexually transmitted infections (STIs) relative to cisgender persons (Baral et al., 2013; Becasen, Denard, Mullins, Higa, & Sipe, 2018; Poteat, Scheim, Xavier, Reisner, & Baral, 2016). The United Nations Joint Programme on HIV/AIDS estimates that transgender women are 12 times more likely than other adults to be living with HIV (UNAIDS, 2019). A meta-analysis estimated a pooled global HIV prevalence of 19% among transgender women who have sex with men (Baral et al., 2013). HIV/STI risk is concentrated among TGD subgroups at the confluence of multiple biological, psychological, interpersonal, and structural vulnerabilities. In particular, transfeminine persons who have sex with cisgender men, belong to minoritized racial/ethnic groups, live in poverty, and engage in survival sex work are at elevated HIV/STI risk (Becasen et al., 2018; Poteat et al., 2016; Poteat et al., 2015). Less is known about HIV/STI risk among transgender men or gender diverse persons assigned female at birth. Small studies in high-income countries indicate a laboratory-confirmed HIV prevalence of 0-4% among transmasculine people (Becasen et al., 2018; Reisner & Murchison, 2016). However, research on sexual risk indicates that transmasculine persons who have sex with cisgender men should be a priority for HIV/STI prevention (Golub, Fikslin, Starbuck, & Klein, 2019; Reisner et al., 2019; Scheim, Bauer, & Travers, 2017).

Therefore, TGD persons who are sexually active or considering sexual activity may benefit from sexuality-related communication or counseling for the purpose of HIV/STI prevention. In primary care settings for all patients, the WHO (2015a) strongly recommends that HCPs implement brief sexuality-related communication with adolescents and adults and provides guidelines for such communication. HCPs will need to supplement these guidelines by developing knowledge and skills for discussing sexual health issues with TGD patients, such as the use of gender-affirming language (see Statement 1 in this chapter). Well-prepared HCPs (including but not limited to mental health providers) may also engage in in-depth counseling with their patients to address the underlying drivers of HIV/STI risk (see

Statement 3 in this chapter). In all cases, HCPs should be sensitive to the collective and individual histories of TGD patients (e.g., stereotypes and stigma about trans sexualities and gender dysphoria) and should explain to patients the reasons for sexuality-related enquiries and the voluntary nature of such enquiries, all the while avoiding assumptions about HIV/STI risk based solely on a patient's gender identity.

Statement 6:

We recommend health care professionals who provide care to transgender and gender diverse patients follow local and World Health Organization guidelines for human immunodeficiency virus/sexual transmitted infections (HIV/STIs) screening, prevention, and treatment.

Like cisgender patients, TGD adolescents and adults should be offered screening for HIV/STIs in accordance with existing guidelines and based on their individual risk of HIV/STI acquisition, considering anatomy rather than gender identity. Where local or national guidelines are unavailable, WHO (2015b) offers global recommendations. However, gender-affirming genital surgeries and surgical techniques have implications for STI risks and screening needs, as outlined in recent guidelines from the U.S. Centers for Disease Control (Workowski et al., 2021). For instance, transfeminine persons who have had penile inversion vaginoplasty using only penile and scrotal skin to line the vaginal canal are likely at lower risk of urogenital Chlamydia trachomatis and Neisseria gonorrhoeae, but newer surgical techniques that employ buccal or urethral mucosa or peritoneum flaps could in theory, increase susceptibility to bacterial STIs relative to use of penile/scrotal skin alone (Van Gerwen et al., 2021), though evidence of this is limited. Routine STI screening of the neovagina (if exposed) is recommended for all transfeminine persons who have had vaginoplasty (Workowski et al., 2021). For transmasculine persons who have had metoidioplasty with urethral lengthening, but not vaginectomy, testing for bacterial urogenital STIs should include a cervical swab because infections may not be detected in urine (Workowski et al., 2021).

Further, it is important for HCPs to offer testing at multiple anatomical sites as STIs in transgender patients are often extragenital (Hiransuthikul et al., 2019; Pitasi et al., 2019). Consistent with WHO (2020) recommendations, self-collection of samples for STI testing should be offered as an option, particularly if patients are uncomfortable or unwilling to undergo provider-collected sampling due to gender dysphoria, trauma histories, or both. Where relevant, integration of HIV/STI testing with regular serology used to monitor hormone therapy may better facilitate access to care (Reisner, Radix, & Deutsch, 2016; Scheim & Travers, 2017).

Statement 7:

We recommend health care professionals who provide care to transgender and gender diverse patients address concerns about potential interactions between antiretroviral medications and hormones.

For TGD adolescents and adults at substantial risk of HIV infection (generally defined as an ongoing serodiscordant relationship or condomless sex outside of a mutually monogamous relationship with a known HIV-negative partner; WHO, 2017), pre-exposure prophylaxis (PrEP) is an important HIV prevention option (Golub et al., 2019; Sevelius, Deutsch, & Grant, 2016). For treatment among people living with HIV, transgender-specific guidelines are available in some settings (e.g., PAGAA, 2019). For both HIV prevention and treatment, there are antiretroviral dosing and administration considerations specific to TGD persons. For example, only daily dosing of PrEP is currently recommended for TGD patients, as studies demonstrating the effectiveness of event-driven PrEP with tenofovir disoproxil

fumarate/emtricitabine have been limited to cisgender men (WHO, 2019). As long-acting injectable antiretroviral formulations of PrEP and HIV treatment become available, indicated injection sites (i.e., the gluteal muscle) may be unsuitable for patients who have used soft tissue fillers (Rael et al., 2020).

There is little evidence supporting the occurrence of drug-drug interactions between gender-affirming hormones and PrEP medications. A few small studies, primarily relying on self-reported PrEP use, have shown reduced PrEP drug concentrations in transgender women undergoing hormone therapy, although concentrations remained in the protective range (Yager & Anderson, 2020). A subsequent drug-drug interaction study using directly observed PrEP therapy failed to detect an impact of hormone therapy on PrEP drug concentrations in transgender women and found that transgender women and men on hormone therapy achieved high levels of protection against HIV infection (Grant et al., 2020). Most importantly, for many TGD patients, no impact of PrEP on hormone concentrations have been detected. With regard to HIV treatment, specific antiretroviral medications may impact hormone concentrations; however, these can be managed by selecting alternative agents, monitoring and adjusting hormone dosing, or both (Cirrincione, Senneker, Scarsi, & Tseng, 2020) as detailed in guidelines from the US Department of Health and Human Services (PAGAA, 2019). Nevertheless, concerns about drug-drug interactions, and particularly interactions that may limit hormone concentrations, represent a key barrier to the implementation and adherence to antiretroviral therapy for HIV prevention or treatment (Radix, Harris, & Goldstein, 2020; Sevelius, Deutsch, & Grant, 2016). Therefore, it is advisable for HCPs to proactively address such concerns with patients who are candidates for PrEP or HIV treatment. Integration of PrEP or HIV treatment with hormone therapy may further reduce barriers to implementation and adherence (Reisner et al., 2016). Integration may be achieved through colocation or through coordination with an HIV specialist if the primary care provider does not have the necessary expertise.

References:

Anzani, A., Lindley, L., Prunas, A., & Galupo, P. (2021). "I Use All the Parts I'm Given": A Qualitative Investigation of Trans Masculine and Nonbinary Individuals' Use of Body during Sex. *International Journal of Sexual Health*, 33(1), 58-75.

<https://doi.org/10.1080/19317611.2020.1853300>

Baral, S. D., Poteat, T., Strömdahl, S., Wirtz, A. L., Guadamuz, T. E., & Beyrer, C. (2013). Worldwide burden of HIV in transgender women: a systematic review and meta-analysis.

The Lancet Infectious Diseases, 13(3), 214-222. doi:[https://doi.org/10.1016/S1473-3099\(12\)70315-8](https://doi.org/10.1016/S1473-3099(12)70315-8)

Bauer, G. R., & Hammond, R. (2015). Toward a broader conceptualization of trans women's sexual health. *The Canadian Journal of Human Sexuality*, 24(1), 1-11.

doi:10.3138/cjhs.24.1-CO1

Bauer, G. R., Hammond, R., Travers, R., Kaay, M., Hohenadel, K. M., & Boyce, M. (2009). "I don't think this is theoretical; this is our lives": how erasure impacts health care for transgender people. *Journal of Association in Nurses in AIDS Care*, 20(5), 348-361.

doi:10.1016/j.jana.2009.07.004

Bauer, R. (2018). Bois and grrrls meet their daddies and mommies on gender playgrounds: Gendered age play in the les-bi-trans-queer BDSM communities. *Sexualities*, 21(1-2), 139-155. doi:10.1177/1363460716676987

Becasen, J. S., Denard, C. L., Mullins, M. M., Higa, D. H., & Sipe, T. A. (2018). Estimating the Prevalence of HIV and Sexual Behaviors Among the US Transgender Population: A Systematic Review and Meta-Analysis, 2006–2017. *Am J Public Health, 109*(1), e1-e8. doi:10.2105/AJPH.2018.304727

Bekeny, J. C., Zolper, E. G., Fan, K. L., & Del Corral, G. (2020). Breast augmentation for transfeminine patients: methods, complications, and outcomes. *Gland surgery, 9*(3), 788-796. doi:10.21037/gS.2020.03.18

Biedermann, S. V., Asmuth, J., Schröder, J., Briken, P., Auer, M. K., & Fuss, J. (2021). Childhood adversities are common among trans people and associated with adult depression and suicidality. *J Psychiatr Res, 141*, 318-324. <https://doi.org/10.1016/j.jpsychires.2021.07.016>

Burnes, T. R., Dexter, M. M., Richmond, K., Singh, A. A., & Cherrington, A. (2016). The experiences of transgender survivors of trauma who undergo social and medical transition. *Traumatology, 22*(1), 75-84. doi:10.1037/trm0000064

[CDC] Center for Disease Control. (2020). *Transforming Health: Patient-Centered HIV Prevention and Care*: <https://www.cdc.gov/hiv/clinicians/transforming-health/health-care-providers/sexual-history.html>.

Cirrincone, L. R., Senneker, T., Scarsi, K. K., & Tseng, A. (2020). Drug Interactions with Gender-Affirming Hormone Therapy: Focus on Antiretrovirals and Direct Acting Antivirals. *Expert Opinion on Drug Metabolism & Toxicology, 16*(7), 565-581. doi:10.1080/17425255.2020.1777278

Claes, K. E. Y., D'Arpa, S., & Monstrey, S. J. (2018). Chest Surgery for Transgender and Gender Nonconforming Individuals. *Clinics in Plastic Surgery, 45*(3), 369-380. <https://doi.org/10.1016/j.cps.2018.03.010>

Clements-Nolle, K., Guzman, R., & Harris, S. G. (2008). Sex trade in a male-to-female transgender population: psychosocial correlates of inconsistent condom use. *Sexual Health, 5*(1), 49-54. doi:<https://doi.org/10.1071/SH07045>

Colizzi, M., Costa, R., & Todarello, O. (2015). Dissociative symptoms in individuals with gender dysphoria: is the elevated prevalence real? *Psychiatry Res, 226*(1), 173-180. doi:10.1016/j.psychres.2014.12.045

Cornwall, A., & Jolly, S. (2006). Introduction: Sexuality matters. *IDS Bulletin, 37*(5), 1–11. doi:<https://doi.org/10.1111/j.1759-5436.2006.tb00295.x>

de Vries, E., Kathard, H., & Müller, A. (2020). Debate: Why should gender-affirming health care be included in health science curricula? *BMC Medical Education, 20*(1), 51. doi:10.1186/s12909-020-1963-6

Defreyne, J., Elaut, E., Kreukels, B., Fisher, A. D., Castellini, G., Staphorsius, A., T'Sjoen, G. (2020). Sexual Desire Changes in Transgender Individuals Upon Initiation of Hormone Treatment: Results From the Longitudinal European Network for the Investigation of Gender Incongruence. *J Sex Med, 17*(4), 812-825. doi:10.1016/j.jsxm.2019.12.020

Dharma, C., Scheim, A. I., & Bauer, G. R. (2019). Exploratory Factor Analysis of Two Sexual Health Scales for Transgender People: Trans-Specific Condom/Barrier Negotiation Self-Efficacy (T-Barrier) and Trans-Specific Sexual Body Image Worries (T-Worries). *Archives of Sexual Behavior, 48*(5), 1563-1572. doi:10.1007/s10508-018-1383-4

Dhejne, C., Van Vlerken, R., Heylens, G., & Arcelus, J. (2016). Mental health and gender dysphoria: A review of the literature. *Int Rev Psychiat*, 28(1), 44–57. doi:10.3109/09540261.2015.1115753

Dierckx, M., Mortelmans, D., & Motmans, J. (2019). Role ambiguity and role conflict among partners of trans people. *Journal of Family Issues*, 40(1), 85-110. doi:10.1177/0192513x18800362

[EU FRA] European Union Agency for Fundamental Rights. (2020). *EU-LGBTI II: A long way to go for LGBTI equality*. Luxembourg: Publications Office of the European Union.

Frey, J. D., Poudrier, G., Chiodo, M. V., & Hazen, A. (2016). A Systematic Review of Metoidioplasty and Radial Forearm Flap Phalloplasty in Female-to-male Transgender Genital Reconstruction: Is the "Ideal" Neophallus an Achievable Goal? *Plastic and reconstructive surgery. Global open*, 4(12), e1131. doi:10.1097/gox.0000000000001131

Galupo, M. P., Henise, S. B., & Mercer, N. L. (2016). "The labels don't work very well": Transgender individuals' conceptualizations of sexual orientation and sexual identity. *International Journal of Transgenderism*, 17(2), 93-104. doi:10.1080/15532739.2016.1189373

Garcia, M. M. (2018). Sexual Function After Shallow and Full-Depth Vaginoplasty: Challenges, Clinical Findings, and Treatment Strategies- Urologic Perspectives. *Clin Plast Surg*, 45(3), 437-446. doi:10.1016/j.cps.2018.04.002

Garcia, M. M. (2021). Decision-Making in Masculinizing Surgery and Feminizing Surgery. In D. Nikolavsky & S. A. Blakely (Eds.), *Urological Care for the Transgender Patient: A Comprehensive Guide* (pp. 7-21). Cham: Springer International Publishing.

Garcia, M. M., & Zaliznyak, M. (2020). Effects of Feminizing Hormone Therapy on Sexual Function of Transgender Women. *Journal of Urology*, 203(Supplement 4), e672-e672. doi:10.1097/JU.0000000000000900.020

Gieles, N. C., van de Grift, T. C., Elaut, E., Heylens, G., Becker-Hebly, I., Nieder, T. O., Laan, E. T. M., & Kreukels, B. P. C. (submitted). Pleasure please! Sexual pleasure and influencing factors in transgender persons: an ENIGI follow-up study. *International Journal of Transgender Health*.

Giordano, S. (2012). Sliding Doors: should treatment of gender identity disorder and other body modifications be privately funded? *Med Health Care Philos*, 15(1), 31-40. doi:10.1007/s11019-010-9303-y

Glaser, J., Nouri, S., Fernandez, A., Sudore, R. L., Schillinger, D., Klein-Fedyshin, M., & Schenker, Y. (2020). Interventions to Improve Patient Comprehension in Informed Consent for Medical and Surgical Procedures: An Updated Systematic Review. *Med Decis Making*, 40(2), 119-143. doi:10.1177/0272989x19896348

Golub, S. A., Fikslin, R. A., Starbuck, L., & Klein, A. (2019). High Rates of PrEP Eligibility but Low Rates of PrEP Access Among a National Sample of Transmasculine Individuals. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 82(1), e1-e7. doi:10.1097/qai.0000000000002116

Grant, R. M., Pellegrini, M., Defechereux, P. A., Anderson, P. L., Yu, M., Glidden, D. V., Deutsch, M. B. (2020). Sex Hormone Therapy and Tenofovir Diphosphate Concentration

in Dried Blood Spots: Primary Results of the Interactions Between Antiretrovirals And Transgender Hormones Study. *Clinical Infectious Diseases*. doi:10.1093/cid/ciaa1160

Hamm, J., & Nieder, T. O. (2021). [Rethinking trans sexuality: A participatory interview-study on satisfying sexuality without genital reconstructive surgery]. *Zeitschr Sexualforsch*, 34(2), 69-78

Hiransuthikul, A., Janamnuaysook, R., Sungsing, T., Jantarapakde, J., Trachunthong, D., Mills, S., & Phanuphak, N. (2019). High burden of chlamydia and gonorrhoea in pharyngeal, rectal and urethral sites among Thai transgender women: implications for anatomical site selection for the screening of STI. *Sexually Transmitted Infections*, 95(7), 534. doi:10.1136/sextrans-2018-053835

Holmberg, M., Arver, S., & Dhejne, C. (2018). Supporting sexuality and improving sexual function in transgender persons. *Nature Reviews Urology*. doi:10.1038/s41585-018-0108-8

Iantaffi, A., & Bockting, W. O. (2011). Views from both sides of the bridge? Gender, sexual legitimacy and transgender people's experiences of relationships. *Culture Health & Sexuality*, 13(3), 355-370. doi:10.1080/13691058.2010.537770

Isaacson, D., Aghili, R., Wongwittavas, N., & Garcia, M. (2017). How Big is Too Big? The Girth of Bestselling Insertive Sex Toys to Guide Maximal Neophallus Dimensions. *J Sex Med*, 14(11), 1455-1461. doi:10.1016/j.jsxm.2017.09.012

Giovanardi, G., Vitelli, R., Maggiora Vergano, C., Fortunato, A., Chianura, L., Lingiardi, V., & Speranza, A. M. (2018). Attachment Patterns and Complex Trauma in a Sample of Adults Diagnosed with Gender Dysphoria. *Front Psychol*, 9, 60. doi:10.3389/fpsyg.2018.00060

Heylens, G., Elaut, E., Kreukels, B. P., Paap, M. C., Cerwenka, S., Richter-Appelt, H., Cohen-Kettenis, P. T., Haraldsen, I. R., & De Cuypere, G. (2014). Psychiatric characteristics in transsexual individuals: multicentre study in four European countries. *Br J Psychiatry*, 204(2), 151-156. doi:10.1192/bjp.bp.112.121954

Hess, J., Henkel, A., Bohr, J., Rehme, C., Panic, A., Panic, L., Panic, L., Rossi Neto, R., Hadaschik, B., & Hess, Y. (2018). Sexuality after Male-to-Female Gender Affirmation Surgery. *BioMed Research International*, 2018, 9037979. doi:10.1155/2018/9037979

Holmberg, M., Arver, S., & Dhejne, C. (2018). Supporting sexuality and improving sexual function in transgender persons. *Nature Reviews Urology*. doi:10.1038/s41585-018-0108-8

Joint United Nations Programme on HIV/AIDS (UNAIDS). (2019). UNAIDS Data 2019. https://www.unaids.org/sites/default/files/media_asset/2019-UNAIDS-data_en.pdf

Kerckhof, M. E., Kreukels, B. P. C., Nieder, T. O., Becker-Héblly, I., van de Griff, T. C., Staphorsius, A. S., Elaut, E. (2019). Prevalence of Sexual Dysfunctions in Transgender Persons: Results from the ENIGI Follow-Up Study. *The Journal of Sexual Medicine*, 16(12), 2018-2029. doi:<https://doi.org/10.1016/j.jsxm.2019.09.003>

Klein, C., & Gorzalka, B. B. (2009). Sexual functioning in transsexuals following hormone therapy and genital surgery: A review. *J Sex Med*, 6(11), 2922-2939. doi:10.1111/j.1743-6109.2009.01370.

Kleinplatz, P. J. (Ed.) (2012). *New directions in sex therapy: Innovations and alternatives*, 2nd ed. New York, NY, US: Routledge/Taylor & Francis Group.

Laube, J. S., Auer, M. K., Biedermann, S. V., Schröder, J., Hildebrandt, T., Nieder, T. O., Briken, P., & Fuss, J. (2020). Sexual Behavior, Desire, and Psychosexual Experience in Gynephilic and Androphilic Trans Women: A Cross-Sectional Multicenter Study. *The Journal of Sexual Medicine*, 17(6), 1182-1194. doi:<https://doi.org/10.1016/j.jsxm.2020.01.030>

Lindley, L., Anzani, A., Prunas, A., & Galupo, M. P. (2021). Sexual Satisfaction in Trans Masculine and Nonbinary Individuals: A Qualitative Investigation. *The Journal of Sex Research*, 58(2), 222-234. <https://doi.org/10.1080/00224499.2020.1799317>

McLachlan, C. (2019). Que(e)ring trans and gender diversity. *South African Journal of Psychology*, 49(1), 10-13. doi:10.1177/0081246318780774

Millet, N., Longworth, J., & Arcelus, J. (2017). Prevalence of anxiety symptoms and disorders in the transgender population: A systematic review of the literature. *Int J Transgend*, 18(1), 27-38. doi:10.1080/15532739.2016.1258353

Mizock, L., & Lewis, T. K. (2008). Trauma in Transgender Populations: Risk, Resilience, and Clinical Care. *Journal of Emotional Abuse*, 8(3), 335-354. doi:10.1080/10926790802262523

Montejo, A. L., Montejo, L., & Navarro-Cremades, F. (2015). Sexual side-effects of antidepressant and antipsychotic drugs. *Curr Opin Psychiatry*, 28(6), 418-423. <https://doi.org/10.1097/yco.000000000000198>

Nieder, T. O., Güldenring, A., Woellert, K., Briken, P., Mahler, L., & Mundle, G. (2020). Ethical Aspects of Mental Health Care for Lesbian, Gay, Bi-, Pan-, Asexual, and Transgender People: A Case-based Approach. *The Yale Journal of Biology and Medicine*, 93(4), 593-602. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7513438/>

Nieder, T. O., & Richter-Appelt, H. (2011). Tertium non datur. Either/or reactions to transsexualism amongst health care professionals: The situation past and present, and its relevance to the future. *Psychology and Sexuality*, 2(3), 224-243.

Padilla, J. A., Feng, J. E., Anoushiravani, A. A., Hozack, W. J., Schwarzkopf, R., & Macaulay, W. B. (2019). Modifying Patient Expectations Can Enhance Total Hip Arthroplasty Postoperative Satisfaction. *J Arthroplasty*, 34(7s), S209-s214. doi:10.1016/j.arth.2018.12.038

[PAGAA] Panel on Antiretroviral Guidelines for Adults and Adolescents. (2019). *Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents with HIV: Transgender people with HIV*. Department of Health and Human Services: <https://clinicalinfo.hiv.gov/en/guidelines/adult-and-adolescent-arv/transgender-people-hiv>.

Pitasi, M. A., Kerani, R. P., Kohn, R., Murphy, R. D., Pathela, P., Schumacher, C. M., Tabidze, I., & Llata, E. (2019). Chlamydia, gonorrhea, and human immunodeficiency virus infection among transgender women and transgender men attending clinics that provide sexually transmitted disease services in six US cities: results from the Sexually Transmitted Disease Surveillance Network. *Sexually Transmitted Diseases*, 46(2), 112-117.

Poteat, T., Scheim, A., Xavier, J., Reisner, S., & Baral, S. (2016). Global Epidemiology of HIV Infection and Related Syndemics Affecting Transgender People. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 72, S210-S219. doi:10.1097/qai.0000000000001087

Poteat, T., Wirtz, A. L., Radix, A., Borquez, A., Silva-Santisteban, A., Deutsch, M. B., Operario, D. (2015). HIV risk and preventive interventions in transgender women sex

workers. *The Lancet*, 385(9964), 274-286. doi:[https://doi.org/10.1016/S0140-6736\(14\)60833-3](https://doi.org/10.1016/S0140-6736(14)60833-3)

Radix, A. E., Harris, A. B., & Goldstein, Z. G. (2020). How can we improve uptake of oral HIV pre-exposure prophylaxis for transgender individuals? *Expert Review of Anti-infective Therapy*, 18(9), 835-838. doi:10.1080/14787210.2020.1759418

Rael, C. T., Martinez, M., Giguere, R., Bocking, W., MacCrate, C., Mellman, W., & Hope, T. J. (2020). Transgender women's concerns and preferences on potential future long-acting biomedical HIV prevention strategies: The case of injections and implanted medication delivery devices (imdds). *AIDS and Behavior*, 24(5), 1452-1462.

Rees, S. N., Crowe, M., & Harris, S. (2021). The lesbian, gay, bisexual and transgender communities' mental health care needs and experiences of mental health services: An integrative review of qualitative studies. *J Psychiatr Ment Health Nurs*, 28(4), 578-589. <https://doi.org/10.1111/jpm.12720>

Reisner, S. L., Moore, C. S., Asquith, A., Pardee, D. J., Sarvet, A., Mayer, G., & Mayer, K. H. (2019). High risk and low uptake of pre-exposure prophylaxis to prevent HIV acquisition in a national online sample of transgender men who have sex with men in the United States. *Journal of the International AIDS Society*, 22(9), e25391. doi:<https://doi.org/10.1002/jia2.25391>

Reisner, S. L., & Murchison, G. R. (2016). A global research synthesis of HIV and STI biobehavioural risks in female-to-male transgender adults. *Global Public Health*, 11(7-8), 866-887. doi:10.1080/17441692.2015.1134613

Reisner, S. L., Radix, A., & Deutsch, M. B. (2016). Integrated and Gender-Affirming Transgender Clinical Care and Research. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 72, S235-S242. doi:10.1097/qai.0000000000001088

Richards, C., Barker, M. J., Lenihan, P., & Iantaffi, A. (2014). Who watches the watchmen? A critical perspective on the theorization of trans people and clinicians. *Feminism & Psychology*, 4, 248-258. doi:10.1177/0959353514526220

Rider, G. N., Vencill, J. A., Berg, D. R., Becker-Warner, R., Candelario-Pérez, L., & Spencer, K. G. (2019). The gender affirmative lifespan approach (GALA): A framework for competent clinical care with nonbinary clients. *International Journal of Transgenderism*, 20(2-3), 275-288. <https://doi.org/10.1080/15532739.2018.1485069>

Rochlin, D. H., Brazio, P., Wapnir, I., & Nguyen, D. (2020). Immediate Targeted Nipple-Areolar Complex Reinnervation: Improving Outcomes in Gender-affirming Mastectomy. *Plastic and reconstructive surgery. Global open*, 8(3), e2719. doi:10.1097/gox.0000000000002719. (Accession No. 32537367)

Schardein, J. N., Zhao, L. C., & Nikolavsky, D. (2019). Management of Vaginoplasty and Phalloplasty Complications. *Urol Clin North Am*, 46(4), 605-618. doi:10.1016/j.ucl.2019.07.012

Scheim, A. I., Bauer, G. R., & Travers, R. (2017). HIV-Related Sexual Risk Among Transgender Men Who Are Gay, Bisexual, or Have Sex With Men. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 74(4), e89-e96. doi:10.1097/qai.0000000000001222

Scheim, A. I., & Travers, R. (2017). Barriers and facilitators to HIV and sexually transmitted infections testing for gay, bisexual, and other transgender men who have sex with men. *AIDS Care*, 29(8), 990-995. doi:10.1080/09540121.2016.1271937

Sevelius, J. M., Deutsch, M. B., & Grant, R. (2016). The future of PrEP among transgender women: the critical role of gender affirmation in research and clinical practices. *Journal of the International AIDS Society*, 19(7S6), 21105. doi:<https://doi.org/10.7448/IAS.19.7.21105>

Siboni, L., Rucco, D., Prunas, A., & Anzani, A. (2021). "We Faced Every Change Together". Couple's Intimacy and Sexuality Experiences from the Perspectives of Transgender and Non-Binary Individuals' Partners. *J Sex Marital Ther*, 1-24. <https://doi.org/10.1080/0092623x.2021.1957733>

Sigurjónsson, H., Möllermark, C., Rinder, J., Farnebo, F., & Lundgren, T. K. (2017). Long-Term Sensitivity and Patient-Reported Functionality of the Neoclitoris After Gender Reassignment Surgery. *J Sex Med*, 14(2), 269-273. doi:10.1016/j.jsxm.2016.12.003

Stephenson, R., Riley, E., Rogers, E., Suarez, N., Metheny, N., Senda, J., Saylor, K. M., & Bauermeister, J. A. (2017). The Sexual Health of Transgender Men: A Scoping Review. *The Journal of Sex Research*, 54(4-5), 424-445. doi:10.1080/00224499.2016.1271863

T'Sjoen, G., Arcelus, J., De Vries, A. L. C., Fisher, A. D., Nieder, T. O., Ozer, M., & Motmans, J. (2020). European Society for Sexual Medicine Position Statement "Assessment and Hormonal Management in Adolescent and Adult Trans People, With Attention for Sexual Function and Satisfaction". *J Sex Med*, 17(4), 570-584. doi:10.1016/j.jsxm.2020.01.012

Theron, L., & Collier, K. L. (2013). Experiences of female partners of masculine-identifying trans persons. *Culture, Health & Sexuality*, 15, 62-75. doi:10.1080/13691058.2013.788214

Tirapegui, F. I., Acar, Ö., & Kocjancic, E. (2020). Sexual Function After Gender-Affirming Genital Reconstruction. *Current Sexual Health Reports*, 12(4), 411-420. doi:10.1007/s11930-020-00294-0

Van Gerwen, O. T., Aryanpour, Z., Selph, J. P., & Muzny, C. A. (2021). Anatomical and sexual health considerations among transfeminine individuals who have undergone vaginoplasty: A review. *International Journal of STD & AIDS*, online ahead of print October 6.

Wierckx, K., Elaut, E., Van Caenegem, E., Van De Peer, F., Dedeker, D., Van Houdenhove, E., & T'Sjoen, G. (2011). Sexual desire in female-to-male transsexual persons: exploration of the role of testosterone administration. *European Journal of Endocrinology*, 165(2), 331-337. doi:Doi 10.1530/Eje-11-0250

Wierckx, K., Van Caenegem, E., Elaut, E., Dedeker, D., Van de Peer, F., Toye, K., T'Sjoen, G. (2011). Quality of life and sexual health after sex reassignment surgery in transsexual men. *Journal of Sexual Medicine*, 8(12), 3379-3388. doi:10.1111/j.1743-6109.2011.02348.x

Kismödi, E., Corona, E., Maticka-Tyndale, E., Rubio-Aurioles, E., & Coleman, E. (2017). Sexual Rights as Human Rights: A Guide for the WAS Declaration of Sexual Rights. *International Journal of Sexual Health*, 29(sup1), 1-92. <https://doi.org/10.1080/19317611.2017.1353865>

[WHO] World Health Organization. (2006). *Defining sexual health: Report of a technical consultation on sexual health*. 28–31 January 2002. Geneva.

https://www.who.int/reproductivehealth/publications/sexual_health/defining_sexual_health.pdf?ua=1

[WHO] World Health Organization. (2010). *Developing sexual health programmes: A framework for action*. Retrieved from Geneva:

https://www.who.int/reproductivehealth/publications/sexual_health/rhr_hrp_10_22/en/

[WHO] World Health Organization. (2015a). *Brief sexuality-related communication: recommendations for a public health approach*.

https://apps.who.int/iris/bitstream/handle/10665/170251/9789241549004_eng.pdf.

[WHO] World Health Organization. (2015b). *Consolidated guidelines on HIV testing services*.

https://apps.who.int/iris/bitstream/handle/10665/179870/9789241508926_eng.pdf.

[WHO] World Health Organization. (2017). *WHO implementation tool for pre-exposure prophylaxis (PrEP) of HIV infection*.

<https://apps.who.int/iris/bitstream/handle/10665/255889/WHO-HIV-2017.17-eng.pdf>.

[WHO] World Health Organization. (2019). *What's the 2+1+1? Event-driven oral pre-exposure prophylaxis to prevent HIV for men who have sex with men: Update to WHO's recommendation on oral PrEP*.

<https://apps.who.int/iris/bitstream/handle/10665/325955/WHO-CDS-HIV-19.8-eng.pdf?ua=1>

[WHO] World Health Organization. (2020). *WHO recommendations on self-care interventions*. <https://apps.who.int/iris/bitstream/handle/10665/332335/WHO-SRH-20.10-eng.pdf>.

Workowski, K.A., Bachmann, L.H., Chan, P.A., Johnston, C.M., Muzny, C.A., Park, I., Reno, H., Zenilman, J.M., & Bolan, G.A. (2021). Sexually Transmitted Infections Treatment Guidelines, 2021. *Morbidity and Mortality Weekly Report Recommendations and Reports*, 70(4).

Yager, J. L., & Anderson, P. L. (2020). Pharmacology and drug interactions with HIV PrEP in transgender persons receiving gender affirming hormone therapy. *Expert Opinion on Drug Metabolism & Toxicology*, 16(6), 463-474. doi:10.1080/17425255.2020.1752662

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