Providing Gender-Affirming Care to Transgender and Gender-Diverse Individuals Living with and At Risk for HIV

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Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years:

Dr. Blumenthal has received research support paid to her institution from Gilead Sciences, Inc. (Updated 11/28/22)

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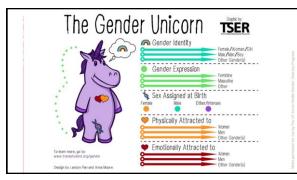
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Learning Objectives

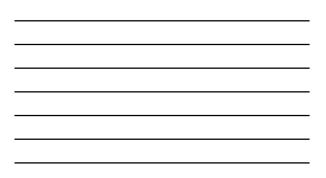
After attending this presentation, learners will be able to:

- Use key terminology for gender identity and gender affirmation
- Describe best practices for gender-affirming hormone therapy management
- Discuss HIV treatment and prevention in transgender populations
- Identify strategies to improve HIV and PrEP care in transgender communities

5.6 Percent of U.S. Adults	Misseatment at School			28% avoid or delay care when sick or injured		
Identify as LGBT	Physically Attached / Verbally Harassed / Desie		Discrimination in Healthcare	40% avoid preventative care 38% had a physician who was visibly uncomfortab with their actual or perceived orientation		
dentify as LGBT, by birth year Gen Z Millennials Generation J	481					
Baby boomers Traditionalists	30'			as% had a physician refuse to give them care relati		
 3Pts of L0100 yourk as includy sensitive at alternative as 28:45% of benegender individuals asgerieses satisfail at 27% of L0100 yeak regarded hadrong and an isopalical to an isopalical program of the annexes individuals asgeries and an isopalical program of the annexes individuals are used in a state of the an isopalican term the annexes individual frame when the an isopalican term term terming an even frame when the an individual set. 	nation. at local two weeks in the post your, see them to charge their second arises		Top surgeries U.S. patients ages 13-27 under 2039 226 2032 226 2032 226 2032 226 2032 200 Secure Revords Revords Realth to: 201	going mastedomy with a prior gender dysphoria diagnosis		
71% of LOBTON youth in our study reported discrimination gender identity.			Analysis of insura	nce claims found 56 genital patients ages 13 to 17 with a		
87% of LGERO* yourh sold it was important to them to not that focuses on LGERO* youth.	ch ear to a chas american organiz					



Female (cisgender)	A person assigned female sex at birth whose gender identity is woman/female
Male (cisgender)	A person assigned male sex at birth whose gender identity is man/male
Transgender	Person whose gender identity and assigned sex at birth do not correspond Trans woman or transgender female or male-to-female (MTF)* Trans man or transgender male or female-to-male (FTM)*
Genderqueer	Person who does not follow gender identity and/or expression for assigned sex. May identify as neither, both, or a combo of genders
Nonbinary	Person who does not identify with binary expectations of being strictly a man or woman
*medical model terms (n	ot recommended unless patient uses)



Gender Affirmation

The process of recognizing, accepting and expressing one's gender identity

- Medical hormones, surgery
- Social/Emotional Name, pronoun, dress, coming out to others
- Psychological Gender validation, internalized stigma/transphobia
- Legal Identity documents (name/gender marker)
- Medicalized with the diagnosis of "gender dysphoria," (ICD-10 F64.0) distress related to incongruence between gender identity and sex assigned at birth

APA 2013; Keatley et al 2014; Sevelius 2013; Lawrence 2003; www.lgbthealtheducation.org;

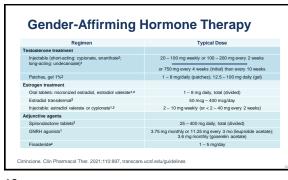
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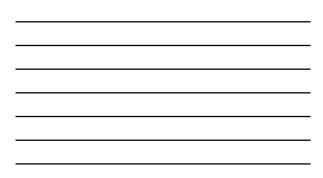
Treatment Guidance

- Endocrine treatment of transsexual persons: an Endocrine Society clinical practice guideline, 2017. Wylie C. Hembree, et al.
- WPATH Standards of Care for the Health of Transgender and Gender Diverse People, Version 8, 2022. Coleman, E., et al.
- Guidelines for the Primary and Gender-Affirming Care of Transgender and Gender Nonbinary People, 2nd edition 2016. Deutsch, M. et al.

J Clin Endocrinol Metab 102: 3869–3903, 2017; Int J Transgender 23:sup1, 2022; Center of Excellence for Transgender Health, Department of Family and Community Medicine, UCSF 2016

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								Targ	et Teste	osterone	•				
										J					
Initial	3	6	9	12	18	24									
Visit			M	onths				ng/dL 250 nmol/L	350 12	450 15.6	550 19	650	750 26	850	950 33
ATH SECON		_	Mon	itorin	g										
							E2 ± antiandrogen	Testost	erone						
							< 55 ng/dl	Mid norm	al range						
				To	tal testosteror	10									
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				Es El Lij He	stradiol* ectrolytes pids	ne	100-200 pg/mL spironolactone	<50 pq	g/mL						

Feminizing Surgery

Surgery (4-25%)

- Breast augmentation, orchiectomy, chondrolaryngoplasty, facial feminization, vaginoplasty, labioplasty, vulvopasty
- Increasing numbers of transgender women have genital surgery and many desire it

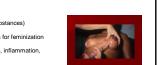
Fillers (~17%)

- Loose fillers (industrial silicone, other substances)
- Injected into breasts, face, hips, buttocks for feminization
- Risk of bloodborne pathogens, migration, inflammation, emboli, disfigurement and death

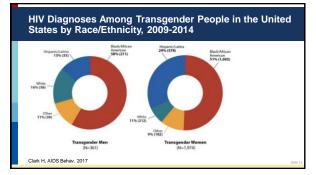
Poteat T. CROI Plenary 2016; Nolan I, Transl Androl Urol, 2019. James S, Report of the 2015 U.S. Transgender Survey. Drinane J, Urological Care for the Transgender Patient, 2021

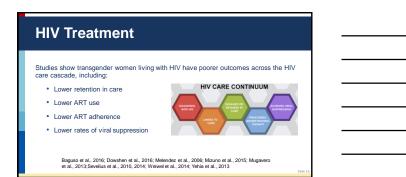
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Masculinizing Surgery • Chest surgery (25-50%) • Breast reduction Chest reconstruction • TAH/BSO (~14%) • Penis (2-5%) . Metoidioplasty/Metaoidoplasty (meto/meta) Phalloplasty Urethroplasty Scrotoplasty • Modified ring metoidioplasty (Dr. Ming Chen Facial masculinization • Nolan I, Transl Androl Urol, 2019. Agarwal JPRAS 2018; Cleveland Clinic 2021

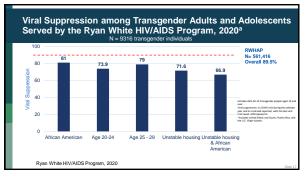


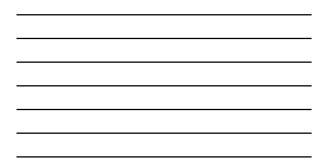






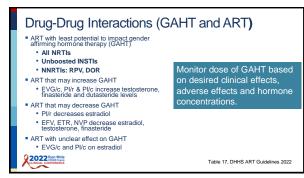






Factors Associated with Viral Non-suppression

- · Prioritization of transition-related medical care over HIV care
- Concerns about drug interactions between hormones and HIV
- · Lower adherence self-efficacy
- · Negative experiences with providers/health systems
- Fear of discrimination
- · HIV stigma
- Mental health issues
- Substance use
- Unstable housing
- Sevelius J, et al. J Assoc Nurses AIDS Care. 2010. 21(3): 256–264; Sevelius J, et al. AIDS Care. 2014 August. 26(8): 976–982; Chung, et al. 2016. Transgender Law Center; Reback CJ 2019; Reback CJ 2018







Considerations:

- HIV: ART meds (e.g., INSTI, TAF) GAHT
 - · Can cause weight redistribution and changes in muscle mass
 - Although muscle mass reduction can occur with feminizing HT, estrogens
 - known to cause weight gain
 Increased body mass typically results
 - can vary
- Life stressors

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- ART: Switching ART is not recommended by current guidelines, could consider switch to NNRTI-based regimen
- GAHT: Reduce estrogen dose, if patient amenable
- from testosterone therapy, but weight gain Lifestyle: Diet and exercise
 - Other: If diabetic or prediabetic, consider GLP-1 agonist

Bansi-Matharu, Lancet HIV 2021. 8:e711. transcare.ucsf.edu/guidelines; transcare.ucsf.edu/patients/information-testosterone-hormone-therapy; Block. Am J Epidemiol. 2009;15:181:DHES Aduit and Addescerent ART Guidelines. Sept 2022; Kumar. AIDS 2020. Abstr OAB0605; Monroe. Clin Infect Dis. 2015. 60:453.

Medical Comorbidities: Cardiovascular Risk HIV Considerations: Impact of viremia/inflammation ART: Consider avoiding Pls (except ATV) and ABC; TAF in patients with hyperlipidemia · ART meds (protease inhibitors, abacavir) GAHT
 Increased venous thromboembolic ■ GAHT: Use estrogen injectables or patches instead of pills for patients ≥ 40 years old risk with transgender individuals taking estrogens • Possible increased risk for HTN, dyslipidemias, and stroke Lifestyle: Smoking cessation CV risk factors and life stressors Hsue. J Infect Dis. 2012;205:5375. Lundgren. Curr Opin Infect Dis. 2018;31:8; DAD. Lancet. 2008;371:1417; Vehkavaara. Thrombo Haemott. 2001;85:619; Casnonico. Circulation. 2007;115:840; cdc.gov/heartdisease/risk_factors.htm; Block. Am J Epidemiol. 2009;15:181; DHHS Adult and Adolescent ART Guidelmes. Sept 2022; Pattel. I/Week 2021. Abstr 822. 2022 Ryan White

Medical Comorbidities: Bone Health and Renal Impairment							
 Bone health TGW at increased risk for 	Considerations: For bone health						
osteoporosis Risk factors: underutilization of 	 ART: Switch TDF to TAF Lifestyle: light weights and exercise 						
hormones after gonadectomy or use of androgen blockers with insufficient estrogen	For renal impairment						
Renal impairment Changes of body composition and lean body mass may impact creatinine levels	 ART: Switch TDF to TAF Dosing Considerations: CrCl and IBW calculations should be based on gender identity after patient has been on hormone therapy for >6 months 						
20022 Ryan White transcare.ucsf.edu/guidelines/bone-health-an	d-osteoporoxis: Collister Can J Kidney Health Dis 2021;8; indocrinol Metab Clin North Am. 2019;48:421; Webb. Am J						



Facilitating HIV Care Engagement

Gender Affirmation

- Having HIV care providers that affirm their gender (e.g., use chosen name and pronouns) were **more likely** to be virally suppressed.
- Making access to GAHT contingent upon ART adherence associated with lower likelihood of viral suppression.
- Integration of HIV Care with Gender Care
- Associated with higher rates of viral suppression
 Decreases the number of provider visits
- Makes it easier to discuss important concerns about HIV and gender health care
- Peer Navigation
- eer wavigation
- Having visible transgender staff in the clinic facilitates engagement in care.
- Trauma-Informed
- Recognizing and interacting with TPLW as women
- Accounting for various forms of violence, stigma and discrimination affecting TPLW
 - Chung C, Transgender Law Center, 2016; Dowshen N, Trans Health, 2017; Lacombe-Duncan, Health and Social Care, 2020.

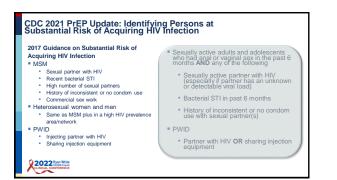
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HIV Prevention

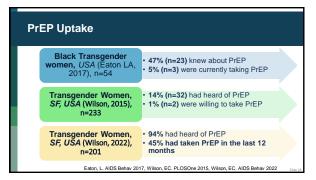
- PrEP uptake suboptimal for transgender populations
 Low PrEP adherence and persistent
- Cabotegravir LA cannot use with silicone/fillers buttocks
- Discuss options
 - Transgender women daily FTC/TDF, daily FTC/TAF*, CAB LA Transgender men – daily FTC/TDF, CAB LA

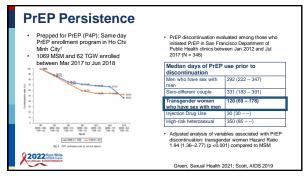
*daily FTC/TAF has not been studied in individuals engaging in vaginal sex acts

Reisner et al, LGBT Health 2021; Cooney et al, Ann. Epidemiology 2022; Grant et al, CID 2021

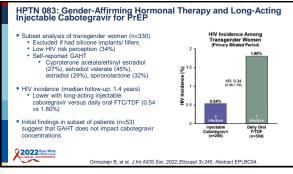














TFV-DP concentrations comparable between TGW on GAHT and MSM for those on FTC/TAF

Important to remain vigilant and run DDI check on all medications, not just PrEP medications.

DHHS Adult and Adolescent ART Guidelines. Sept 2022, Grant R et al. Clin Infect Dis 2021, Blumenthal. CROI 2022. Abstr 851, Grinsztejn. AIDS 2022. Abstr EPLBC04.

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Best Practices in Meeting (ALL) Patients and Collecting Gender Health Data • Start by introducing yourself, consider using your pronouns, then asking: • "What is your name/how would you like to be addressed here?" • "What pronouns do you use?" • Use the two-step method • Ask about current gender identity • Ask about sex assigned at birth

- Use less gendered language
 - Try to use neutral and inclusive terminology to avoid patient discomfort
- Maintain an up-to-date organ inventory
- Deutsch et al, 2013





Summary

- Transgender individuals experience many health disparities, including HIV and increased risk for HIV
- GAHT and other affirming care important for HIV care engagement
- Medical comorbidities in TLWH may be amplified by GAHT
- Different PrEP administration options available for transgender individuals, low concern for interactions with GAHT
- Clinical competency, GAHT provision, welcoming environment essential to engagement in care

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