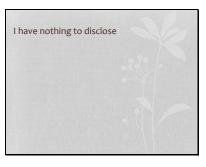


Slide 2



Slide 3

Objectives 1) Define transgender and relevant terminology 2) Identify screening techniques 3) Describe some health disparities and co-morbidities associated with transgender identity 4) Discuss referral and medical management recommendations



Slide 5

Dr. Francis Peabody, 1926

Quoted by Dr. Lynch and Wood, 2019

"One of the essential qualities of the clinician is interest in humanity, for the secret of the care of the patient is in caring for the patient."



LGBTQ • L, G, B refer to sexual orientation or sexual identity • Sexual orientation / Sexual identity: Pattern of romantic or sexual attractions. Describes the gender of the persons to whom one is attracted
 An internally applied label. Applies to gay and straight individuals

• T: transgender, trans • Q: questioning or queer

Slide 8

Gender definitions Gender identify: A person's internal sense of being male or female, or neither or both
 For most people, gender identify matches the sex assigned at birth
 Gender identify may not match. Or monscense or genetals
 Gender identify is separate from secural orientation
 Social science research reveals a nonbinary paradigm for gender

Transgender or trans – a term for someone whose gender identity does not match the gender they were assigned a birth based on external anatomy or chromosomes • Mismatch/incongruence between the brain/heart(soul and external anatomy • Conder identity al different didatic time secual orientation • A cransgender person may identify as straight, gay, lesbian, bisewal, or none of the • Reported throughout history and cultures • Not simply a social construct

Slide 9

Gender definitions

Gender dysphoria (GD): Distress or discomfort that may occur when a person's internal sense of gender does not match his or her sex asigned a birth.
 A DSM 5 diagnosis
 A traplaces the DSM IV diagnosis, Gender Identity Disorder
 Cender incongruence
 Cender incongruence

Cisgender: a person whose gender aligns with their sex assigned at birth.



Slide 11

 Gender diverse or gender nonconforming: A person whose identity, behavior or appearance does not match cultural and societal stereotypcial expectations for what is appropriate for his or her assigned gender.
 Gender queer or nonbinary = a term for someone who identifies as something other than male or female, or who doesn't identify exclusively as male or female.
 Gender fluid: a person whose gender identity shifts / varies over time Gender fluid: a person whose gender identity shifts / varies over time Gender fluid: a person whose gender identity shifts / varies over time Gender aparsive
 A gender

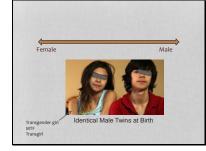
Slide 12

•TGNC: Transgender and gender nonconforming. Used to identify all gender minority or gender diverse

•GSM: Gender and sexual minorities

Definitions

patients



Slide 14



Slide 15

How to conceptualize gender and sexual variations

variations
voung children often exhibit very gendered choices in terms of toys, games, clothing choices (even when raised in a gender neutral environment). This is not because they have looked at their genitals and decided on their gender, but rather it comes from inside.
variability is a normal part of biology
vififerent does not mean abnormal or bad
Diversity in gender identity and expression are normal aspects of the human condition and of human biology
cender differences have been described throughout history
Written about at least since late 180ss
Provider role to advocate for marginalized or minority populations

Questions about transgenderism What causes it?How common is it?At what age does it present? • Short answer – we don't know

Slide 17

Etiology of transgenderism: hypotheses

- Androgens:
 Noko d prenatal and possibly postnatal androgens in gender identity development as supported by studies of disorders of sexual development, e.g. (AH
 Prenatally, gentials develop prior to maximal hormone saturations ⇒ potential for discontect or mismatch?
 Anatomic/ neurobiologic
 Miti studies, have reported brain differences in transgender individuals vs controls, supporting a neurobiologic basis for transgenderism
 Genetic susceptibility?
 Supported by twin studies

• Disproportionately found in autistic children*

De Wies, AL, et al. autism Spectrum Disorders in gender dysphoric children and adolescents. J J Dev Discond. 2010 Mirrarg III et al. Increased gender variance in autism spectrum disorders and attention deficit hyperachity disorder. Arch Sex and Behav. 2004.

Slide 18

MRI studies

- Structural brain differences between the sexes transgender individuals have brains that match their affirmed gender, (Seme test Piso Gene 2011)
 Prior to hormone treatment

- Proor to normone retarment
 Prypothalamic activation to odorous steroids dependent on sex differs in adult transwomen vs adult cisgender men. (nergouf is at cereb care. 2008)
 Adolescents with gender dysphoria had MRI activation responses similar to those of their affirmed gender and not to sex assigned at birth. (nume Ster at. Front Endors. 2014)

Twin studies – monozygotic twins

Cender dysphoria has a 30.1% concordance in monozygotic twins
 Based on 23 identical twins with at least one with gender dysphoria
 This concordance rate is considered strongly suggestive of a genetic influence
 Type 1 diabetes mellitus has 50% concordance for monozygotic twins

Heylens G et al. Gender identity disorder in twins: a review of the case
sex med. 2012.

Slide 20

Transgender Identity: What age does it present?

Age of presentation varies
 It can present as young as 2 years old, when children first begin to talk
 and to express preferences regarding dothes, hair, and toys.
 Come or most young children with gender differences do not grow up to be
 transgender adults.
 Cender dysphoria that is insistent, consistent and persistent is likely to persist.

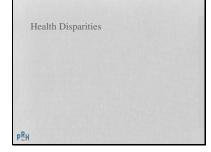
It may present during puberty, which can be an extremely distressing time for transgender children. CD often worsens after onset of puberty.
 Gender identity is unlikely to change after puberty
 CD may present during adolescence or adulthood

Slide 21

How Common Is It?

Sexual Orientation and Gender				er Ider	ntity
					,
Middle	School	Student	°C		
madad	. School	Juducin			
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	sie tiering of adults closel o				
Same strength	Designer rost	Paulitica criteran	Turning other	the landsener	
processory.				lower	Appr.
Instancements					
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Lapirismus .	1.00	15.04	-36.127	110764	2021
Garied		30.00	2.0	141.87	26.00
Terrain .	28	1,79184	13040	106767	191.3
Test .	8900	10.30.40	· XA10	9419-427	11.106.46
Telecomod	1214	8.2	1.8	8.8	112
Calebook	44	1.00	4.26	1.8	1.18
Bend		38	4.8	1.0	3.8
Beland.	2%	10.0	10.00	16.6	14.05
144	147	16.8	1.0	10.0	100
Cardie dentry					
Setale	1221	216.02	22178	4742,942	1,19634
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Tangenier	18	17.00	8.421	41.892	25125
100	125	104.20	18.42	10529	11,004,07
Analy	1221	4.2	1.21	46.00	81.01
Mark 1	1.80	10.0	2.182	46.20	9.2
	- 10		2.4	5.00	1.0

Slide 23



Slide 24

Health Disparities

Being a member of a gender minority group does not inevitably lead to health disparities
 Stigma associated with gender minority status leads to psychological distress and stress, vorsened by internalized transphobia, problems with self-image and self esteem, social isolation and rejection, which may be accompanied by an increase in risk behaviors
 We know that stress in childhood is associated with negative health outcomes
 Resiliency pro-diversity model: early identification, resources, connection, support, and a change in cultural appreciation for diversity

Transgenderism and Autism

- Inansgender youth: (where earths)
 Study at a gender clinic in the Netherlands prevalence of autism
 Wats 94% (where Autom Data Discord 2000)
 Smaller studies:
 - 34% (North America) (schame De rat. LCB Health Soul)
 - 34% (Final Original Vision B et al. LCB Health Soul)
 - 34% (Final Original Vision B et al. LCB Health Soul)
 - Steff (Final Original Vision B et al. LCB Health Soul)
 - Steff (Final Original Vision B et al. LCB Health Soul)
 - Prevalence of autism in the general population is about 1.5%
- Youth with autism: (release 3 studies)
 * 5.4% gender variance (strange stal, Arch See Behav, 2016)
 * 4% (US National Database for Autism Research) (May T et al, lot, J Transgen
 2017)
- Prevalence of transgender in the general population unknown; estimated at about 1%

Slide 26

Cranspace of the second s Diagnosis of GD is challenging in an adolescent with weaknesses in communication, self awareness, and executive function

- LOBEQD Health Disparities

 9. Actoal / Bullying / discrimination / harassment / homicide

 9. Expectably for transgender women of colle

 9. Articity and Depression, including suicide and NSSI

 9. Brain discrimination / May 2008 Parallelistic

 9. Brain discrimination / Bray 2008 Parallelistic

 9. Brain discrimination (May 2008 Parallelistic)

 9. Brain discrimination leads to economic disparities

 9. Strangender females of color

Slide 28

Transgender Health Disparities

	Trai	nsgender	
Student survey of 9 th and 11 th graders, n=81,885	Alcohol use	23%	17%
Trans/ gender fluid/ non- conforming: n=2,168 (2.7%)	No condom at last sex	51%	38%
Risk behaviors significantly higher among transgender than	No birth control at last sex	41%	25%
cisgender students	Depressive symptoms	58%	21%
Protective factors Family connectedness	Self-harm past year	54%	14%
Student-teacher relationships Feel safe in community	Suicidal Ideation	61%	20%
* reel sale in community	Physical bullying Relational bullying	25% 52%	12% 32%
	Prejudice-based reason:	35%	5%

Slide 29

Many transgender individuals avoid medical care 33% have had negative healthcare experiences 23% avoided care due to fear of mistreatment 40% are out to all of their medical providers

Slide 30



Parental support mitigates psychiatric co-morbidities

 Caitlyn Ryan, Family Acceptance Project Callin Ryan, Family Acceptance Project
 Research conclusions:
 Family reactions that are experienced as rejection by the child contribute to serious health concerns and inhibit the child's development and well being
 Rejecting families tend to become less rejecting over time, and access to accurate information is critical in this process



Slide 32

Family Acceptance Project Ryan & Diaz 2011

 Recognize that parents and caregivers who are seen as rejecting their LGBT child are motivated by care and concern to help their child "Ht in," have a "good life," and be accepted by others
 Support the need for families to be heard and understood
 Understand that parents and families experience their lack of knowledge about LGBT issues as inadequacy that feels disempowering and shameful
 Beyond building a strong alliance between families and providers, family avareness of the consequences of their behavior is the most important mechanism of change



How to proceed when parent(s) disagree? No easy answers An easy answers Annies are also experiencing a transition / Journey/ process/ loss Families are also experiencing a transition / Journey/ process/ loss Ensure that everyone has a chance to express their concerns What is he most workied about? Validate father's experience and concerns. Many disk ensurements with agend end experision, and do not turn out "Provide information and data: "Proversite the difficult endipment event their children's gender identity, but extende infurnet over their children's gender health? (Dans Elbrenst, Prio) "Bing transgender or gender encourisming is a matter of diversity, not pathology." (WPATI SOC.) MRI studies have supported anatomic differences: Structural brain differences betware the same side, motivated by care and concernet for the child, and We are all on the same side.

- gender We are all on the same side, motivated by care and concern for the child, and we all want to facilitate the development of a happy, healthy, well-adjusted adolescent

Slide 35

Sexual and Reproductive Health A Unit and TKEPT OUDCLIVE HEalth * Increased prevalence of HIV * All transgender women: 27/3; black transgender women: 56.3% Transgender males * Few studies Prevalence of HIV and risk behaviors are low among transgender males COF SIT De atmost melidings now have a transpender section transgender males C OC STD Teatment guidelines now have a transgender section • Screen based on anatomy and behavior Remember that transgender females may retain a functioning peris Remember that transgender males are at rikk for DD, etc. • Case reports of pregnancies in transgender males





Slide 38

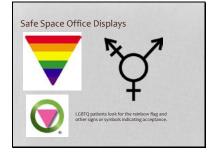
Making Your Office Welcoming • Corns • Offer options for gender: • Transgender female • Arangender female • Offer • Inquire about and use preferred name and pronoun • What promous do you use? • What promou do you use? • Document preferred name and pronoun in the medical record





Slide 41







Slide 44





History & Screening

What name would you like me to use?
What pronoun do you use?
What is your gender identity?
Do you have any questions or concerns about your gender?
Do you think of yourself as a girl, a boy, neither, or something else?
What name or pronoun fits you?
When you were born they said you were a girl. Do you fel like a girl?

Slide 47

More about screening Avoid assumptions
 Avoid assumptions
 Remember that individuals are more than their gender
 Affirm the gender but remember to focus on the whole person
 "Ally is a verb."*
 A process, not a destination
 Requires ongoing learning, continuing education, and practice • *From Lynch and Wood, 2019, unpublished work



Infastructure	Make office accepting, affirming
Training	Work with staff to create a trans-friendly environment
Screen & Identify	All patients, at various points of development All children with mood, behavior, school problems or with eating disorders or autism
	Become comfortable, take a gender history
Offer primary care	Promote open disclosure and acceptance
Offer referral and resources	Offer gender care and/or referral to gender clinics
Advocacy	Promote diversity in your professional and personal communities

Slide 50





Slide 52



Slide 53





STIs: Transgender Females

• Offer PrEP to transgender females

• High risk for HIV

 Remember that transgender females may still have a functioning penis
 Need to ask, and screen based on individual behaviors and risk
 Remember to screen extra genital sites if indicated More frequent screening, including syphilis test, may be indicated

Slide 56

STIs: Transgender Males

Few studies
 Remember that adolescent transgender males usually still have a vagina and cervix, therefore are at-risk for vaginitis, cervicitis, and pelvic inflammatory disease.
 Screen based on individual behaviors and risk.

Screen based on individual behaviors and risk.
 Follow CDC guidelines for males having sex with males, if
 applicable
 More frequent screening, including syphilis, extra-genital sites, H8Sag,
 HPV vacine through age 26, oxider PFEP for HIV
 Testosterone is not reliable contraception. Transgender males are
 at risk for pregnancy.



Our job •Explore the patient's identity and needs •Individualize treatment •Provide information •What to expect •What are the risks •Prescribe and monitor •Help navigate the system



Slide 59

Medical Management of a Pubertal Child with Gender Dysphoria Ubertal Child with Gender Dysphoria

• Once you document Tanner stage 2 and obtain informed consent from the youth and guardian(s), offer GnRh analog for pubertal suppression:

• Shuts down publicatie release of GnRH from the hypothalamus, thus stopping the increase of Li/FH
• standard of care, supported by evidence
• Prevents suffering for the child (current and future) • Gives the child more time to explore gender identity • Adult physical outcome is improved • Adult physical outcome is improved • Reversible, usually well tolerated • Cost may be a barrier

Slide 60

Why not just wait until they are adults? This to be remembered that giving, but also withholding endocrine treatment is a momentous and responsible decision. Accordingly, one cannot sidestep the ethical dilemmas by merely avoiding them, especially given the devastating impact puberty can have on this population.

Allowing puberty to progress in teen's assigned gender is NOT a neutral option

Gooren and De Waal, 1996

Relief > Risk or Harms

"Despite the understandable concern about potential harm that could be done by early physical medical interventions, it seems currently that withholding intervention is even more harmful for the adolescents' wellbeing during adolescence and in adulthood." (de Vries 2012)

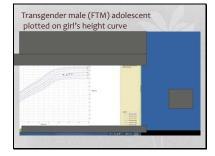
Slide 62

Checkal suppression: reversible treatment Anet and suppression: reversible treatment Anet and suppression: reversible treatment Anet and suppression therein subcurations impair Anet and Hales: Prevents voice despening. Adam's apple, Anet and he distreatment and subcurations for trans tasks Hang and are framelies: Prevents voice despening. Adam's apple, Anet and he distreatment and subcurations for trans tasks Hang and are framelies: Prevents voice despening. Adam's apple, Anet and he distreating or even unbearable for trans tasks Hang and anet albend thructioning improved. Anet and the distreat subcurations. Anet and the distreat subcurations. Anet and the distreation subcurations. Anet and the distreation subcurations. Bisks on streatments. Mathematical subcurations. Transgender Care: Pubertal Suppression

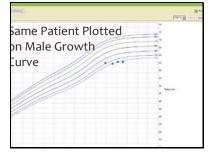
Slide 63

Leuprolide

PLAS FDA approval for treatment of precocious puberty, uterine lelomyomata (fibroids), endometriosis
Used off-label for: breast cancer, vaginal bleeding for childhood cancer, freilinty treatments, treatment of paraphilia /hypersexuality, and transgender adolescents
Adverse effects: rare - weight gain, sterile abscess, depression, initial flowering of puberty or withdrawal bleed



Slide 65



Slide 66

Transgender Care: Sex Steroids

- Insequence Cartes Sex Steroods

 Starting at age 14-65: Gender affirming hormone therapy

 Testoateron for FTM

 Usually prescribed as an injection q 1-2 weeks

 Anay be given a thome or by PCP's office

 Strongen plus spironolactone for MTF

 Usually prescribed as table to rapath, also available as an injection

 rybeta estraloid is used, chemically identical to estrogen from a
 human oray

 Different from the ethiny estradio used in contraception

 Spironolactone used as an antorgoen blocker

 Potassium sparing direttic

 Stifferent beas direct anti-androgen blocker

 Potassium sparing direttic

 At hyperbalensia, polydnaja, polydiaja, orthostasis

 At hyperbalensia, polydnaja, polydiaja, orthostasis

 Chickense doses of sex steroids gradually over 2-3 years

Transgender Care – Mental health letter (MHL) • Many specialists require a mental health letter from a qualified mental health provider prior to prescribing hormone treatment for transgender youth • This does not mean all transgender youth have mental health problems

 In our system, signed parental consent required prior to prescribing hormones to transgender youth
 This consent includes conversation about fertility

Slide 68



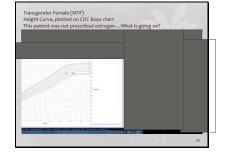
Slide 69

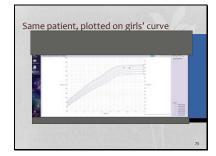
Transgender females - taking estrogen
 Sprinonlactone
 Feninization: breast growth, fat redistribution, skin softening,
 decreased of the software of the softwa

Action	Onset	Max
Male pattern facial/body hair Acne Voice deepening	6–12 mo 1–6 mo 1–3 mo	4–5 yrs 1–2 yrs 1–2 yrs
Clitoromegaly Vaginal atrophy Amenorrhea Emotional changes/ † libido	3–6 mo 2–6 mo 2–6 mo	1–2 yrs 1–2 yrs
Increased muscle mass Fat distribution Tendon weakening	6–12 mo 1–6 mo	2–5 yrs 2–5 yrs

Slide 71

Action	Onset	Max
Breast growth	3-6 months	2-3 yrs
Body fat, muscle changes Softening skin	3–6 months 3-6 months	2-3 yrs
Softer, less male pattern terminal hair	6-12 months 1-3 months	> 3 years
Emotional changes		
Change in libido, erectile dysfunction	1-3 months 25% see change	3-6 months 50% see change by
Decrease testicular volume	in 1 yr	2-3 yrs
Decrease sperm production	?	?





Slide 74



Mephan N, et al. People with gender dysphoria who self-prescribe cross-sex hormones: prevalence, sources, and side effects knowledge. J sex Med. 2014 Rotondi NK et al. Nonprescribed hormone use and self-performed surgeries: "do

Slide 75

Do-it-yourself (DIY): Why?

your

- It's "incredibly hard" to access hormones through traditional channels
 "Either they wouldn't work with my insurance, didn't know enough about transgender HRI to even consider me, kept bouncing me around to different clinics, or just told me to see a therapist or anything"
 "At times I would literally be brought to tears over being rejected so much."
 When people need to have access to care and they can't get it, they use any means possible. (Dru Levasseur, Lambda's Transgender Rights Project Director)

Branstetter, Gillian, The Atlantic. "Sketchy Pharmacies Are Selling Hormones to Transgender People." August 31, 2016

Lack of access to care
 Stigma and embarrassment, anxiety
 Negative experiences with providers
 Lack of social supports
 Limited financial resources, lack of insurance and/or lack of
 transportation

Do-It-Yourself (DIY): Why?

Slide 77





Summary

Summary
* Transgender males (asserted males) have a male gender identity but were assigned females ex at birth.
* Transgender females (asserted females) have a female identity but were assigned male sex at birth.
* Transgender identity and sexual orientation are separate concepts.
* Transgender identity and sexual orientation are separate concepts.
* Transgender identity and sexual orientation are separate concepts.
* Making the office welcoming involves updating forms, posting affirming signs, using preferred name and pronoun, and training staff.
* Specialized medical care involves puberty blockers at Tanner 2, then gender affirming hormones starting at age 13-16. There are growth curve changes and changes in some lab values, egn, hemoglobin increases for patients taking testosterone.

Slide 80





Free Local Resources

• TransParent and TransYouthgroup at our Children's Hospital • Q Center, funded by ACR Health Syracuse University Marriage and Family Therapy
 Sally Curran, volunteer lawyers project

Resources in Rochester
 Center Health Services - Colisano Children's Hospital in Rochester, Addressent meldine. Accepts patients through age 25, and patients may self refer.
 Out Alliance:
 Out Al

Slide 83

Physicians for Reproductive Health Adolescent Reproductive and Sexual Health Education Program: or honging in reproductive.

 Massachusetts Transgender Political Coalition: • The National LGBT Health Education Center:

• Center of Excellence for Transgender Health:

Resources

Callen-Lorde Community Health Center:

Slide 84

World Professional Association for Transgender Health

Resources

 Vancouver Coastal Health Guidelines for Transgender Care • The Fenway Guide to LGBT Health, American College of Physicians

 Center of Excellence for Transgender Health
 http://transhealth.ucsf.edu/ • Transgender Law Center Health Care Issues

