

UCSF

UC San Francisco Previously Published Works

Title

Treating Transgender Youth: Pushing the Dialogue Forward

Permalink

<https://escholarship.org/uc/item/59j5m9n0>

Journal

Journal of Adolescent Health, 57(4)

ISSN

1054-139X

Authors

Vance, Stanley R
Rosenthal, Stephen M

Publication Date

2015-10-01

DOI

10.1016/j.jadohealth.2015.07.009

Peer reviewed

Treating Transgender Youth: Pushing the Dialogue Forward

The last decade has seen increased attention to the provision of psychosocial and medical support to transgender youth. As a society, we see more visible transgender public figures, increased media attention to incidents of transphobia, and a heightened awareness of the unfortunate tragedies of transgender youth who have taken their own lives due to their suffering. As health providers, we have witnessed the formulation of clinical guidelines for medical support of transgender youth and an ever-increasing number of multidisciplinary gender clinics emerging across the country to provide that support.¹⁻⁴ And yet, the supply of transgender medical resources has been met with an overwhelming demand as more transgender youth are presenting for gender services, and a significant number of providers acknowledge that they lack adequate training to serve this population optimally.⁵⁻⁷ In this month's issue of the *Journal of Adolescent Health*, two studies—by Vrouenraets et al. and Olson et al.—shed light on the challenges of medical management of this population. While the Vrouenraets et al. study explores the ethical debates regarding pubertal suppression—a focal point of medical management for gender dysphoric, early pubertal youth⁸—the Olson et al. study provides baseline physiological and psychological profiles of youth presenting for gender services in a U.S. multi-disciplinary clinic as a preview for crucial future longitudinal studies that will help us better understand the efficacy and safety of gender-modulating medical interventions.

In Vrouenraets et al.'s qualitative study, the researchers interviewed or surveyed psychology, psychiatry, and endocrinology professionals from international treatment teams about the ethical

considerations that underlie support for or opposition to pubertal suppression as a treatment option for youth with gender dysphoria. Of note, the administration of cross-sex hormones to youth under the age of 16, as delineated in the Endocrine Society's clinical practice guidelines, is likely similarly polarizing, but this study focuses primarily on pubertal suppression.¹

Vrouenraets et al.'s study adds to the literature by using sound qualitative analysis to present the voices of *both* proponents and opponents of this therapeutic modality for gender dysphoric youth. It moves forward a crucial dialogue rooted in questions about the underlying etiology and development of gender dysphoria, the short- and long-term efficacy and safety of early medical interventions, and the ethical considerations that emerge from various themes with opposing points of view.

The Vrouenraets et al. study does not attempt to reach consensus, but following on the heels of the only long-term study thus far published (which demonstrates a benefit to pubertal suppression as a component of phenotypic transition), the article appropriately calls for more interdisciplinary, multi-center research.⁸ A limited number of studies, also carried out by the Dutch, have begun to explore potential adverse effects of pubertal blockers in gender dysphoric youth by examining the consequences of this treatment on executive function, brain development, and bone mineral density.⁹⁻¹¹ Although the Vrouenraets et al. study is strong overall, it was an oversight not to include adolescent medicine providers. The adolescent medicine subspecialty is highly represented in many multidisciplinary clinics serving gender nonconforming/transgender youth in North America.² Furthermore, adolescent medicine providers have unique training in providing medical care and assessing complex psychosocial

needs of young people transitioning into adulthood; thus, input from these subspecialists could have been particularly informative.

The Olson et al. study provides a thorough baseline assessment of physiologic and psychosocial parameters of transgender youth seeking care in the largest such program in the U.S. A unique strength of this study is that it draws on a large multi-ethnic cohort of gender dysphoric youth. The data presented highlight the significant risk for depression, risk taking behaviors, and suicidal ideation and attempts in this often marginalized population, and set the stage for important long-term studies.

Currently existing clinical practice guidelines for the care of transgender youth have been largely based on expert opinion with only limited long-term outcomes data. Both the Vrouenraets and Olson studies underscore the need for long-term data to inform optimal medical and mental health care for gender dysphoric youth.

Stanley R. Vance, Jr., MD

Fellow, Adolescent and Young Adult Medicine

UCSF Benioff Children's Hospital

Stephen M. Rosenthal, MD

Professor of Pediatrics

Emeritus Program Director, Pediatric Endocrinology

Medical Director, Child and Adolescent Gender Center

UCSF Benioff Children's Hospital

References

1. Hembree WC, Cohen-Kettenis P, Delemarre-van de Waal HA, et al. Endocrine treatment of transsexual persons: An endocrine society clinical practice guideline. *J Clin Endocrinol Metab.* 2009;94(9):3132-3154.
2. Hsieh S, Leininger J. Resource list: Clinical care programs for gender-nonconforming children and adolescents. *Pediatr Ann.* 2014;43(6):238-244.
3. Vance SR, Jr, Ehrensaft D, Rosenthal SM. Psychological and medical care of gender nonconforming youth. *Pediatrics.* 2014;134(6):1184-1192.
4. Coleman, E., Bockting, W., Botzer, M., Cohen-Kettenis, P., DeCuypere, G., Feldman, J., Fraser, L., Green, J., Knudson, G., Meyer, W. J., Monstrey, S., Adler, R. K., Brown, G. R., Devor, A. H., Ehrbar, R., Ettner, R., Eyler, E., Garofalo, R., Karasic, D. H., Lev, A. I., Mayer, G., Meyer-Bahlburg, H., Hall, B. P., Pfaefflin, F., Rachlin, K., Robinson, B., Schechter, L. S., Tangpricha, V., van Trotsenburg, M., Vitale, A., Winter, S., Whittle, S., Wylie, K. R., & Zucker,

- K. Standards of care for the health of transsexual, transgender, and gender-nonconforming people, version 7. *International Journal of Transgenderism*. 2011;13:165-232.
5. Wood H, Sasaki S, Bradley SJ, et al. Patterns of referral to a gender identity service for children and adolescents (1976-2011): Age, sex ratio, and sexual orientation. *J Sex Marital Ther*. 2013;39(1):1-6.
6. Spack NP, Edwards-Leeper L, Feldman HA, et al. Children and adolescents with gender identity disorder referred to a pediatric medical center. *Pediatrics*. 2012;129(3):418-425.
7. Vance SR, Halpern-Felsher BL, Rosenthal SM. Health care providers' comfort with and barriers to care of transgender youth. *Journal of Adolescent Health*. 2015;56(2):251-253.
8. de Vries AL, McGuire JK, Steensma TD, Wagenaar EC, Doreleijers TA, Cohen-Kettenis PT. Young adult psychological outcome after puberty suppression and gender reassignment. *Pediatrics*. 2014;134(4):696-704.
9. Staphorsius AS, Kreukels BP, Cohen-Kettenis PT, et al. Puberty suppression and executive functioning: An fMRI-study in adolescents with gender dysphoria. *Psychoneuroendocrinology*. 2015;56:190-199.
10. Klink D, Caris M, Heijboer A, van Trotsenburg M, Rotteveel J. Bone mass in young adulthood following gonadotropin-releasing hormone analog treatment and cross-sex hormone treatment in adolescents with gender dysphoria. *J Clin Endocrinol Metab*. 2015;100(2):E270-5.

11. Hoekzema E, Schagen SE, Kreukels BP, et al. Regional volumes and spatial volumetric distribution of gray matter in the gender dysphoric brain. *Psychoneuroendocrinology*. 2015;55:59-71.