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The etiology of gender identity disorder (GID) remains largely unknown. In recent literature, increased attention has been attributed to possible biological factors in addition to psychological variables. To review the current literature on case studies of twins concordant or discordant for GID. A systematic, comprehensive literature review. Of 23 monozygotic female and male twins, nine (39.1%) were concordant for GID; in contrast, none of the 21 same-sex dizygotic female and male twins were concordant for GID, a statistically significant difference (P=0.005). Of the seven opposite-sex twins, all were discordant for GID. These findings suggest a role for genetic factors in the development of GID.

Female twin pairs Male twin pairs concordant/disc...concordant/disc...

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er, PhD,† Cleo Schelfaut, M, PhD,† and

nt, Belgium; †Gender Identity Se to, ON, Canada; †Department o t Gender Clinic, Ghent Universi al, Ghent, Belgium

rgely unknown. In recent liion to psychological variables. r discordant for GID.

rdant for GID; in contrast, nor , a statistically significant di

nent of GID. Heylens G, De CE, and T'Sjoen G. Gender 112;9:751-757.

GID; Transsexualism

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Introduction

A fter decades of research, the etiology of gender identity disorder (GID) remains largely unknown. Developmental psychological models have identified temperamental vulnerabilities of the GID child, particular patterns of parent-child interaction, family dynamics, and traumatic events as possible risk factors [1–3], although, in one recent study, there was a failure to identify parental problems [4].

Recent literature has focused more on genetic and other biological factors, rather than on psychological factors, when trying to explain the genesis of GID. Research on biological factors is multifaceted: from size and cell number of different sex-dimorphic brain nuclei [5–7], prenatal exposure to abnormal androgen levels [8], and to genetically based sex hormone abnormalities [9]. The research of Hare et al. [9] provided evidence

that male-to-female transsexualism was ass with gene variants responsible for less an sensitivity. The percentage of false posit their control group was, however, extremely which weakens the results.

Coolidge et al. [10] studied parents of 31 to estimate the prevalence of GID in childa adolescents. They found a 2.3% prevalen 62% heritability, while 38% of the varian explained by a nonshared environmental anent. These results confirmed the earlier fof Bailey et al. [11], who, in a retrospective found that childhood gender nonconform substantially heritable for adult twins. Kna [12] examined genetic and environmenta ences on 3- and 4-year-old twins' atypical development based on parental ratings of pairs. They concluded that the genetic effectless strong than the environmental effects, we exception of behaviorally classified masculii

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J Sex Med 2012;9:7

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i, 17-β-hidroksisteroid tik faktörlerin de oranında saptanmış, yrıca CH'nin spesifik ır (8)(9)(10)(11)(12).

.. Genetik faktörlerin de CH'de etkili olabileceği düşünülmüş özellikle monozigot ikizlerde yapılan bir çalışmada CH, %39,1 oranında saptanmış, ancak aynı cinsiyette dizigotik ikizlerde veya karşı cinsiyetteki ikizlerde CH saptanmamıştır (8). Ayrıca CH'nin spesifik genlerle ilişkisi araştırılmış ancak yapılan çalışmalarda istatistiksel olarak anlamlılık saptanmamıştır (8) (9)(10)(11)(12). Transbireylerin çoğunda cinsiyet gelişim bozukluğu (CGB) saptanmamıştır (13); bu nedenle cinsiyet değişimi talebi ile endokrinoloji polikliniklerine başvuran çocuk ve ergenlerde endokrin tetkikler öykü ve ayrıntılı fizik muayeneye göre gerekirse istenmelidir. ...

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... [18] There is also, 33.3% concordance in monozygotic male twins and 22.8% in monozygotic female twins, [19] even in the twins, who were reared apart. [20] Trans women and trans men as well as men and women have distinct phenotypes in grey and white matter of brain. Human cerebral cortex is sexually dimorphic and has both AR and ER. ...

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.. In a study conducted on a relevant sample of twin couples (5799) of 3-4 years of age, the inheritance estimates of identity phenomena were much higher in females than in males (Knafo et al. 2005). The data was also confirmed in a study explicitly conducted on the heritability of gender dysphoria, also indicating a very high rate (40%) of homozygotes compared to dizygotes (Heylens et al. 2012). ...

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World Professional Association for Transgender Health

Jamison Green ⋅ Gail Knudson ⋅ Madeline B Deutsch ⋅ [...] ⋅ Kenneth J. Zucker

My intention with this project in the context of ResearchGate is to provide a place for researchers to locate official statements from WPATH that comment on issues that are not directly covered in ... [more]

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