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Manuscript NO: 52389

Manuscript Type: SYSTEMATIC REVIEW

Effects of gender-affirming hormone therapy on insulin resistance and body composition in transgender individuals: A systematic review

Cassandra Spanos, Ingrid Bretherton, Jeffrey D Zajac, Ada S Cheung

Abstract

BACKGROUND

Transgender individuals receiving masculinising or feminising gender-affirming hormone therapy with testosterone or estradiol respectively, are at increased risk of adverse cardiovascular outcomes, including myocardial infarction and stroke. This

Match Overview



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www.cjhp.org

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"Endocrinology of the Testis and Male Reproduction", Springer Science and Business Media LLC, 2017

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20,800 Results

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Gender-Affirming Hormone Therapy, Vascular Health and ...

<https://www.ahajournals.org/doi/10.1161/HYPERTENSIONAHA.119.13080>

In addition, there is a need to understand how gender-affirming hormone therapy impacts **cardiovascular disease risk** and events as transgender individuals age. This review explores the available evidence on the associations between gender-affirming hormones and cardiovascular events such as **coronary artery disease, stroke, hypertension, thrombosis, lipid abnormalities, and diabetes mellitus.**

Author: Paul J. Connelly, E. Marie Freel, Colin... Publish Year: 2019

Effects of Gender-Affirming Hormones on Lipid, Metabolic ...

clinchem.aaccjnl.org/content/65/1/119 ▾

Jan 01, 2019 - CONTENT: A literature research was conducted on PubMed, Embase, and Scopus, searching for relevant articles on the **effects of gender-affirming hormone therapy** on cardiometabolic risk and thrombosis. After screening 734 abstracts, 77 full text articles were retained, of which 11 were **review ...**

Cited by: 4 Author: Justine Defreyne, Laurens D.L. Van de Br...

Publish Year: 2019

Effects of sex steroids on components of the insulin ...

<https://onlinelibrary.wiley.com/doi/full/10.1046/j.1365-2265.2003.01753.x>

Effects of **sex steroids** on components of the **insulin resistance syndrome** in transsexual subjects
Jolanda M. H. Elbers Department of Endocrinology, Andrology Unit,

Cited by: 284 Author: Jolanda M. H. Elbers, Erik J. Giltay, Tom ...

Publish Year: 2003

Effects of Gender-Affirming Hormones on Lipid, Metabolic ...

https://www.researchgate.net/publication/330099403_Effects_of_Gender-Affirming...

This review examines the impact of **gender affirming hormone therapy** used in the transgendered and non-binary populations on cardiovascular outcomes and surrogate markers of cardiovascular health.



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<https://www.ahajournals.org/doi/10.1161/HYPERTENSIONAHA.119.13080>

In addition, there is a need to understand how **gender-affirming hormone therapy** impacts cardiovascular disease risk and events as **transgender individuals** age. This review explores the available evidence on the associations between **gender-affirming hormones** and cardiovascular events such as coronary artery disease, stroke, hypertension ...

Author: Paul J. Connelly, E. Marie Freel, Colin... Publish Year: 2019

[Effects of Gender-Affirming Hormones on Lipid, Metabolic ...](#)

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Jan 01, 2019 - BACKGROUND: **Gender-affirming hormonal therapy** consists of **testosterone** in **transgender men** and **estrogens** and **antiandrogens** in **transgender women**. Research has concluded that **gender-affirming therapy** generally leads to high satisfaction rates, increased quality of life, and higher psychological well-being.

Cited by: 4 Author: Justine Defreyne, Laurens D.L. Van de Br...

Publish Year: 2019

[Effects of sex steroids on components of the insulin ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1046/j.1365-2265.2003.01753.x>

objective **Sex differences** are found in most components of the **insulin resistance syndrome** and the associated **cardiovascular risk profile**. These differences are attributed to sex-specific **sex steroid profiles**, but the **effects of sex steroids** on the individual components of the **insulin resistance syndrome** remain incompletely understood.

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Publish Year: 2003

[Effects of Gender-Affirming Hormones on Lipid, Metabolic ...](#)

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This review examines the impact of **gender affirming hormone therapy** used in the transgendered and non-binary populations on cardiovascular outcomes and surrogate markers of cardiovascular health.

[\(PDF\) Gender-Affirming Hormone Therapy, Vascular Health ...](#)

https://www.researchgate.net/publication/336854345_Gender-Affirming_Hormone_Therapy...

Gender-affirming or **cross-sex hormone therapy** is integral to the management of **transgender individuals** yet our appreciation of the **effects of such hormones** on cardiovascular health is limited.