



Medical Approaches to Alleviate Suffering from Gender Dysphoria: Revisit

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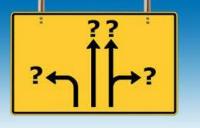




- I have no financial disclosures relevant to this presentation
- I am not representing Washington University or St Louis Children's Hospital



Summary and Conclusions from 2023



- Many people with gender dysphoria have significant suffering
- The etiology of sex-gender identity discordance remains unclear
- The affirmation approach is heavily influenced by ideological assumptions
- Scientific evidence supporting the affirmation only approach is weak
- Many patients continue to suffer after gender affirming medical interventions
- There remains an urgent need for exploration of alternate approaches to alleviating suffering in gender dysphoric youth

Approaches to Treat Gender Dysphoria

Scientific Premise

A bodily defect present within an individual with normal psychological function

Hypothesis

Health will be restored if the body is changed to align with gender identity

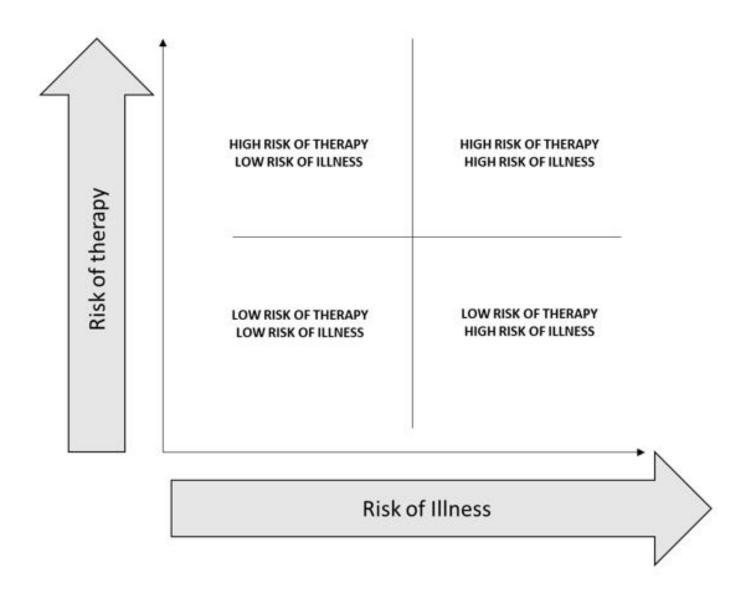
Scientific Premise

Largely influenced by or the result of psychological factors

<u>Hypothesis</u>

Health will be restored by addressing the contributing psychological difficulties

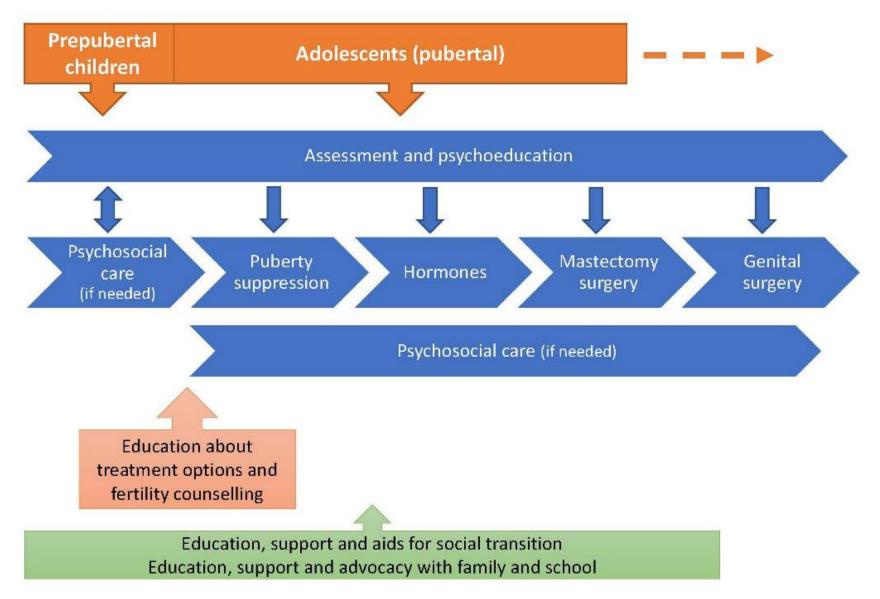
Risk Benefit Analysis



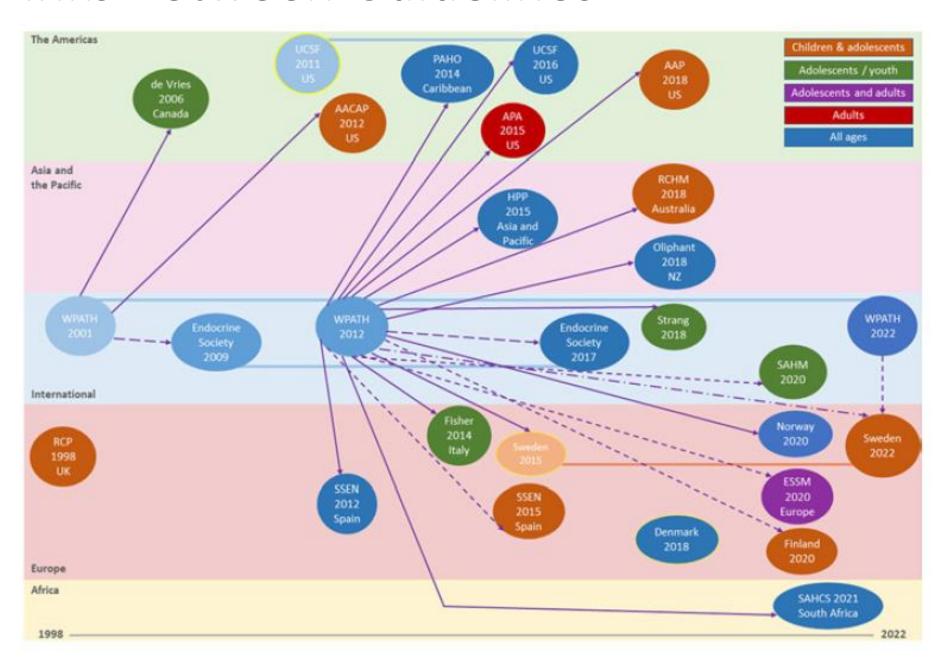


Rigorous investigation Uncontrolled of health interventions experience CLAIRVOYANCE EVIDENCEeMINENCEbased medicine based medicine TRUST IN THE NUMBERS TRUST IN THE EXPERTS WAIT? THERAPEUTIC NIHILISM? TREAT? OVERTREATMENT? **PRIMUM NON-NOCERE**

Affirmative Care Model

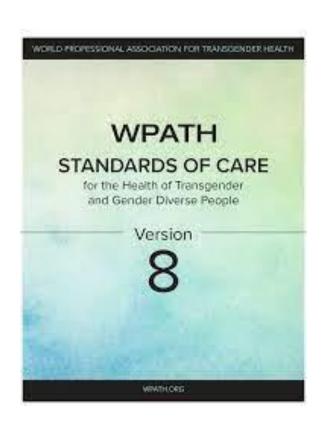


Links Between Guidelines









- Endorses widespread use of affirmative approach for trans-identified youth despite rising scientific skepticism
- Endorses early medicalization as fundamental despite international move to promote psychosocial support as the first line of treatment
- Removal of nearly all lower age limits for suggested medical and surgical interventions
- Removal of discussion of ethical considerations
- Inclusion of "eunich identified" as new gender identity
- Failure to acknowledge that the evidence for genderaffirming treatments in youth to be of very low quality and subject to confounding and bias

Study	Control	Sample Size	Duration	Missing Data	Design	Confounders
DeVries 2011	None	70	< 2 yr		Longitudinal	Ψ
Devries 2014	None	55		27%	Longitudinal	Ψ
Costa 2016	Ψ +/- PB	201	1.5 yr	67%	Longitudinal	
Allen 2019	None	47	< 1 yr		Longitudinal	Ψ
Katalia 2020	None	52	1 yr	N/A	Retrospective	
Lopez de Lara 2020	"cis-gender"	23	1 yr		Longitudinal	Sample Bias
Achille 2020	None	50	1 yr	47%	Longitudinal	Ψ
Kuper 2020	None	148	1 yr	33%	Longitudinal	Ψ
Turban 2020	None	3494	N/A	N/A	Retrospective	Sample Bias
Van Der Meissen 2020	+/- GAT	278/129	N/A	N/A	Cross-sectional	Age, Ψ
Carmichael 2021	None	44	1-3 yr	46%/68%*	Longitudinal	Ψ
Grannis 2021	+/- Test	19/23	N/A	N/A	Cross-sectional	Age
Green 2021	None	12K	N/A	N/A	Cross-sectional	Sample Bias
Turban 2022	None		N/A	N/A	Cross-sectional	Sample Bias
Tordoff 2022	+/- GAT	69/35	1 yr	36%/96%	Longitudinal	Sample Bias
Chen 2023	None	315	2 yr	49%*	Longitudinal	Ψ
	GAT=gender affirming therapy			*incomplete data		Ψ=psychotherapy

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REVIEW ARTICLE





A systematic review of hormone treatment for children with gender dysphoria and recommendations for research

Jonas F. Ludvigsson^{1,2,3} | Jan Adolfsson^{4,5} | Malin Höistad⁵ | Per-Anders Rydelius^{6,†} | Berit Kriström⁷ | Mikael Landén^{1,8} |

- Out of nearly 10,000 published papers considered
- Only 24 studies met the authors' PRISMA criteria as to relevance, risk of bias and quality of evidence
- No randomised controlled trials were identified
- The few longitudinal observational studies were hampered by small numbers and high attrition rates
- Conclusion: the long-term effects of hormone therapy on psychosocial health could not be evaluated

Interventions to suppress puberty in adolescents experiencing gender dysphoria or incongruence: a systematic review



Jo Taylor , Alex Mitchell, Ruth Hall, Claire Heathcote, Trilby Langton, Lorna Fraser, Catherine Elizabeth Hewitt

- No high- quality studies identified with appropriate study design to assess the outcomes of puberty suppression in adolescents with gender dysphoria
- Insufficient and/or inconsistent evidence about the effects of puberty suppression on gender-related outcomes, mental and psychosocial health, cognitive development, cardiometabolic risk, and fertility
- Consistent moderate-quality evidence, although from mainly pre- post studies, that bone density and height may be compromised during treatment

Masculinising and feminising hormone interventions for adolescents experiencing gender dysphoria or incongruence: a systematic review



Jo Taylor , Alex Mitchell, Ruth Hall, Trilby Langton, Lorna Fraser, Catherine Elizabeth Hewitt

- Lack of high-quality research assessing the outcomes of hormones for masculinization or feminization in adolescents experiencing gender dysphoria
- Limited or inconsistent evidence regarding gender dysphoria, body satisfaction, psychosocial and cognitive outcomes, fertility, height/growth, bone health and cardiometabolic effects
- Moderate-quality evidence from mainly pre—post studies that hormone treatment may in the short-term improve psychological health

The Cass Review

Independent review of gender identity services for children and young people



- The care of children under 18 years in England will no longer be based on the "gender-affirming" model of care
- The NHS will treat youth with gender distress similarly to how it treats youth with other developmental struggles



AAP reaffirms gender-affirming care policy, authorizes systematic review of evidence to guide update

August 4, 2023 Alyson Sulaski Wyckoff, Associate Editor

"The policy authors and AAP leadership are confident the principles presented in the original policy, <u>Ensuring Comprehensive Care and Support for Transgender and Gender-Diverse Children and Adolescents</u>, remain in the best interest of children."

The Cass review: an opportunity to unite behind evidence informed care in gender medicine



Kamran Abbasi *editor in chief*

- "Offering treatments without an adequate understanding of benefits and harms is unethical. All of this matters even more when the treatments are not trivial; puberty blockers and hormone therapies are major, life altering interventions"
- "Without doubt, the advocacy and clinical practice for medical treatment of gender dysphoria had moved ahead of the evidence—a recipe for harm."
- "Families, carers, advocates, and clinicians—acting in the best interests of children and adolescents—face a clear choice whether to allow the Cass review to deepen division or use it as a driver of better care."