SUPPLEMENTARY ONLINE MATERIALS IV

Table 1: Question 1. For children and adolescents with gender dysphoria, what is the clinical effectiveness of treatment with GnRH analogues compared with one or a combination of psychological support, social transitioning to the desired gender or no intervention? – mental health, body image

QUALITY					Summary of findings			IMPORTANCE	CERTAINTY	
				No of events/No of patients (n/N%)		Effect				
Study	Risk of bias	Indirectness	Inconsistency	Imprecision	Intervention	Comparator	Result			
Impact on n	euronal activ	vation patterns								
	=		ungry/happy vo ysphoria youth	_			ender affirming hormone treatment	t through test	osterone	
1 study Morningstar et al 2023	Very serious limitations ¹	No serious indirectness	Not applicable	Not calculable	N=19	N=25	Significant 3-way-interaction (group x speaker x emotion): GAH+ loss less response to angry caregiver vs peer voice, GAH- showed less response to happy caregiver vs. peer voice	Low	LOW	
Impact on m	iental health									
Mean depression (CDI)-Score in gender dysphoria youth reveiving gender affirming testosterone administration										
1 study Grannis et al 2021	Very serious limitations ²	No serious indirectness	Not applicable	Not calculable	N=19	N=23	Sig. lower in Intervention Group $F(1,39) = 7.39$, $p = 0.01$, $\eta^2 = 0.16$	Critical	LOW	
Mean Suicid	lality (SBQ-F	R)-Score								
1 study Grannis et al 2021	Very serious limitations ²	No serious indirectness	Not applicable	Not calculable	N=19	N=23	No sig. differences Past year: $F(1,39) = 3.85, p = 0.06, \eta^2 = 0.09.$ Lifetime: $F(1,39) = 1.25, p = 0.27, \eta^2 = 0.03$	Critical	LOW	
Mean gener	alized anxiety	y (SCARED)-S	Score				, , , , , , , , , , , , , , , , , , , ,			

1 study Grannis et al 2021	Very serious limitations ²	No serious indirectness	Not applicable	Not calculable	N=19	N=23	Sig. lower in Intervention Group $F(1,39) = 6.99, p = 0.01, \eta^2 = 0.16$	Critical	LOW				
Mean social anxiety (LSAS)-Score													
1 study Grannis et al 2021	Very serious limitations ²	No serious indirectness	Not applicable	Not calculable	N=19	N=23	Sig. lower in Intervention Group $F(1,39) = 17.21, p < 0.001, \eta^2 = 0.32$	Critical	LOW				
Impact on body image													
Mean body-image-scale (BSI)-Score													
1 study Grannis et al 2021	Very serious limitations ²	No serious indirectness	Not applicable	Not calculable	N=19	N=23	Sig. lower dissatisfaction in Intervention Group $F(1,39) = 10.47, p < 0.01, \eta^2 = 0.21$	Critical	LOW				

Very high risk of bias (lack of randomization, lack of blinding, lack of reports of baseline-testosterone-level, highly skewed variations in exogenous hormone doses and administration duration). ²Very high risk of bias (lack of randomization, lack of blinding, possible bias due to self-reported outcome measures and knowledge about treatment).