	24 - Cricken appraise	al summary by questio	n														
dy ID St		NOS total score NOS Q1 repr	esentative of population	NOS Q1 score	NOS Q8 adequacy of follow-up Scori	NOS Q3 Ascertainment o	treatment exposure so	5 Q3 NOS Q2 Selection of non-exposed group scor	Q2 NOS Q5 comparability of cohorts (part 1 - controls for key demographics; part 2 - controls for co-interventions)	NOS Q5 part 1 score p	NOS Q5b part 2 score	IOS Q7 follow-up duration	NOS Q7 score	NOS Q6 assessment of outcome	NOS Q6 score	NOS Q4 Demonstration that outcome of interest not present at study start	NOS Q4 score
hort																Jewin & Abdy alait	
ille 2020 Pri	rospective cohort tudy	States that v 4 but no value clinic.	ast majority of eligible population entered study, s or percentages provided. Recruited from single	0	116 participants entered study - 50 who completed questionnaires reported on. No information on those lost to follow-up.	Information in paper pro clinic data used.	vides confidence that	Participants who had received puberty blockers were compared to participants who've received nothing at all or only cross sex-hormonies.	Controlled for outcome at baseline, psychiatric medication and psychotherapy. Separate analysis by gender. Did not control for age or report differences between groups. Did not control for other hormone treatment.	0.5	0.5 Fr	follow-up not linked to treatment duration. Exposure to reatment at any time used as variable - not duration.	0	Validated scales designed for self-completion.	1	N/A	
ul 2019 Re co	letrospective ohort study	3 Ten out of the to be match	nirty participants excluded due to not being able and with controls.	0	For most outcomes, no information given on follow-up rates. For the satisfaction outcome, the follow-up rate was less than 90%.	Procedure codes for LNG medical records.	IUS insertion used in	Matched with adelescents who received the 52 mg LNG-IUS primarily for nencontraceptive purposes (seen at the same subspecialty clinic by many of the same providers).	Participants were matched on age. Only participants assigned female at birth were included. Unadjusted analyses were used.	1	0 Ir	nsuffucient information given to assess follow-up duration.	0	Mixture of clinical record data and Likert scales to measure satisfaction.	0.5	N/A	
ker-Hebly 2020 Re	tetrospective ohort study		seen by clinic, 204 with baseline data and invited to take part. Large proportion not ggle clinic.	0	Response rate for follow-up 37% (n=75).	Self-reported treatment clinicians' reports.	eath then controlled via	Those not treated with hormones from same clinic sample.	Did not control for gender / sex, other treatments or outcome at baseline. Used age- adjusted population norms to compare outcomes. Did not control for distribution in intervention group.	o	e Tr	reatment started after baseline but duration and start of reatment not reported or included in analysis.	0	Validated scales - combination of self-report and clinician-report.	1	N/A	
ta 2015 Pr	rospective cohort tudy	5.5 National clir	ric. Included all eligible adolescents.	1	None lost at 12 months, around half lost at 18 months - reasons not reported	Information in paper pro clinic data used.	vides confidence that	Drawn from same source; plus comparison to adolescents without observed psychological / psychiatric symptoms.	Spit analysis by delayed eligible and immediately eligible, presented some analysis re: natal sex differences but main analysis didn't control for this.	0	•	sufficient follow-up period - 12 month follow-up was reported is 6 months of puberty suppression.	1	Validated measures used.	1	N/A	
Sie 2022 Re co	tetrospective phort study	Single clinic orchiectomy random sam	population - only those who underwent bilateral combined with vaginoplasty were eligible - ple taken for study.	0	Of the 263 sampled, 49 were then excluded due to no tissue being stored or no testicular paren chyma on slides.	Authors state data was co records.	blected from medical	Adults presenting to the same clinic who underwent bilateral orchiectomy combined with vaginoplasty.	Study participants are birth-registered males only, groups are split by puberty stage (Tanner stage 2-3; Tanner stage 4-5; Adult). Study does not control for use of medications such as contraceptive pill.	1	0 Ir	nformation on follow-up period not explicitly given. ndications some participants would have had a duration of nedical treatment longer than 12 months.	0.5	Detailed information on sample testing given.	2	N/A	
nstad 2021b Re	letrospective phort study	3.5 Single-clinic incomplete l	population, very small number excluded due to neight data (6/195 eligible patients).	0.5	Only those with complete height data were included, those had not reached adult height by the end of the study were excluded.	Data obtained from med	cal records.	1 Drawn from same source. 1	Only participants who were assigned a female sex at birth were included. Unadjusted analyses were carried out.	0.5	0 N	to information provided on time between start of treatment and measurement of final height.	0	Height measured in triplicate at each clinic visit. Participants were defined as growing if they demonstrated a growth velocity of 0.5cm per year.	0	N/A	
ia-Otero 2021 Re	letrospective phort study	Single-clinic 4 blood tests a number excl	- only included patients who had undergone at baseline and 2-12 months. No information on uded.	0	Only those with blood test data were included.	Retrospective review of r	nedical records.	Adolescents with central precocious puberty. Substantial differences between groups in age and sex.	Separate analyses for males and females were carried out. Unadjuited analyses were used	0.5	0 m	dean time between onset of therapy and follow-up was 5.9 nonths (SD2.9). Patients were eligible if they'd had a blood test -12 months after starting treatment.	t 0.5	Retrospective review of medical records.	1	N/A	
e-Twaddell 2022 Re co	letrospective ohort study	5 Two clinics. I excluded.	Participants without follow-up data were	0	Only participants with follow-up data were included.	Data was extracted from	medical records.	Patients with central precocious puberty were selected from the same study clinics as the exposed group.	Separate analyses were carried out for males and females. No other covariates were adjusted for.	0.5	0 B	taseline and single follow-up (17 to 65 months post-insertion).	1	All relevant study data were retrieved retrospectively from medical records.	1	N/A	
ulmeister 2022 Pri	rospective cohort tudy	5 Four large cl recruit all tre exclusions.	inics in the US (different localities). Aimed to nated. No information given on consent rates,	0.5	12 participants excluded from analysis due to not having a documented height at between 10-12 months of Ginfirla treatment.	Information given on wh received implant or injectused.	other participant tion - medical records	Prepubertal adelescents (presumed not to have GD) not roceiving hormonal intervention was drawn from the Bone Mineral Density in Childhood Study.	Analyses comparing exposed group to non-exposed group, stratified by sex and controlled for age. Other important covariates such as BMI, ethnicity and baseline hormones were used as covaniates.	1	0 F	follow-up carried out between 10-14 months post-treatment.	1	Anthropometric and laboratory data collected during clinical care were abstracted from the medical record.	1	N/A	
doff 2022 Pr	rospective cohort tudy	3.5 Single-clinic	study. 30% of eligible patients did not take part.	0	Follow-up rates less than 90% at each follow-up timepoint.	Data on puberty suppres report.	sion collected via self-	Drawn from same source as exposed population.	Gender, but not sex-was controlled for as a confounder. Ethnicity was also controlled for. The analysis controlled for receipt of mental health therapy.	0.5	0.5 B	, 6, 9, 12 month - follow-up not linked to treatment initiation uut some participants with sufficient follow-up	0.5	Collected via validated scales.	1	N/A	
	letrospective ohort study	5 Single-clinic excluded.	study. Patients lost to follow-up (n=68) were	0	Only participants with complete follow-up data were included.	Registry and patient reco	rd data collection used.	Drawn from same source as exposed group.	Males and females were analysed separately. Unadjusted analyses were used.	0.5	0 lr	nitiation of different therapies in treatment protocol indicate nost participants followed up for considerable duration.	0.5	Data collected as part of routine clinical practice.	1	N/A	
-post																	
michael 2021 pc	rospective pre- lost single group tudy	4.5 Included seq who discuss	uentially eligible from single clinic. 44 out of 48 ed the study took part.	0.5	Very few lost to 12 month follow-up. However, around half lost at 24 months.	Recruitment to study war medical records data.	for treatment in clinic -	1 N/A	Sex / gender, puberty status at baseline controlled for in some analyses of continuous variable outcomes but not others. Co-interventions not controlled for.	0.5	0 S	afficient follow-up period.	1	Validated measures for psychosocial / mental health; validated approaches for physiologic measures.	1	N/A	
niara 2018 po sti	tetrospective pre- lost single group tudy		study, 15/218 excluded due to missing data.	0.5	Low follow-up rates reported.	Retrospective review of r	nedical records.	1 N/A	Separate analyses were conducted by sex.	0.5	o R	repeat hormonal levels measured after 3.8 ± 1.9 months of nitiation of GnRH-a therapy	0.5	Validated scales and clinical record data used.	1	N/A	
/ries 2011 pc str	rospective pre- lost single group tudy	4 adolescents who exclude		0.5	Not all 70 provided data. Response across questionnaires: CBC1, YSR: 54; BDI, TPI, STAI, CGAS, and UGS: 41; BIS: 57.	Information presented or medical records data.	n start of treatment -	1 N/A	Sex was controlled for. Study does not control for age/puberty stage or co-interventions.	0.5	0 T	ime between start of GnRHa and follow-up ranged between .42 and 5.06 years.	1	Validated measures used.	1	N/A	
/ries 2014 pc str	rospective pre- lost single group tudy	3.5 approached proportion of	iic. 111 prescribed GnRHa. 70 participants one-year post-surgery - 55 took part. Large of eligible population missing.	0	Only participants with data at all waves were included. Numbers: CGAS 32, BDI 32, TPI 32, STAI 32, CBCL-ABCL 40, YSR ASR 43: UGDS 33, BIS 45.	Information presented o medical records data.	n start of treatment -	1 N/A	Separate analyses were conducted by sex, and age was adjusted for.	1	0 F	inal follow-up took place one year after surgery.	1	All validated scales except 'self-constructed' objective measure of wellbeing.	0.5	N/A	
emarre-van de al 2006 sti	rospective pre- lost single group tudy	25 given.	inadequate information on response rates	0	Inadequate information on follow-up given.	Follow-up protocol integ practice - medical record	ated into clinical i data.	1 N/A	No adjustment made for age, sex, co-interventions or sociodemographic confounders.	0	0 P	farticipants were treated for two years or longer.	1	Clinical measurements presented, but no information given on how this information was obtained.	0.5	N/A	
flani 2020 po stu	tetrospective pre- lost single group tudy	4.5 National dir excluded sor anorexia or l	tic. Only those with complete data included and me based on confounding lifestyle factors such as a odybuilding.	0	Only those with complete data were included.	Data was collected as pa practice - medical record	t of routine clinical i data.	1 N/A	Segrate analysis carried out by sex. No adjustment made for age or co-interventions or sociodemographic confounders.	0.5	0 F	follow-up was from treatment and up until 12 months.	1	Whole-body impedance measured using Tarita Body Composition Analyzer, SDS for lean mass - UK reference data. Height, weight and BMI SDS - UKNO data.	1	N/A	
e-Gorman 2021 Re sti	tetrospective pre- lost single group tudy	* Health Syste		0.5	No information given on missing data.	Obtained from pharmacy	records.	1 N/A	Analyses adjusted for age and sex. Some important covariates such as parental rank adjusted for:	1	0 M	dedian follow-up post-treatment was 1.5 years (IQR 0.7 to 1.7).	0.5	Outcome data collected from Military Healthcare Data Repository	1	N/A	
ph 2019 pc sh	tetrospective pre- lost single group tudy	S excluded, wi excluded.	ric, participants without complete data were th no information given on how many were	0.5	Only those with complete data were included in the study.	Data was collected as par practice.	t of routine clinical	1 N/A	Separate analyses were carried out for sex. No other covariates were adjusted for.	0.5	0 A	II participants were followed up for at least one year post tarting GnRHA treatment.	1	Assessed as part of clinical practice.	1	N/A	
tchadourian 2014 po sto	tetrospective pre- lost single group tudy	3 Single-clinic	study, included all patients.	0.5	No information given on missing data.	Data obtained from clinis	al records.	I N/A	Descriptive summaries were presented separately for males and females.	0.5	0 N	to information given on time between start of treatment and sssessment of outcomes.	0	Clinical outcomes assessed as part of routine medical care.	1	N/A	
ver 2018 pc	tetrospective pre- lost single group tudy	3 excluded (n- treatment pr	study, participants without whole-body DXA -5). 66 participants excluded on different otocol - reason unclear.	0	No information given on follow-up rates.	Data collected from med	cal records.	I N/A	Analyses were carried out separately for sex. No other covariates were adjusted for.	0.5	0 2 N	buration of GnRHA monotherapy median 2.1 years (IQR 1.0- .8) for birth-registered males and median 1.0 (0.5-2.9) for birth egistered females.	0.5	Collected from medical records.	1	N/A	
ner 2020 po str	letrospective pre- lost single group tudy	3.5 and with no reported.		0	No information given on follow-up timepoint.	Data collected from med	cal records.	I N/A	Separate analyses were carried out for makes and females. No other covariates were adjusted for.	0.5	o A	at addition of cross sex hormones - sufficient follow-up ndicated by age at starting this.	1	Collected from medical records.	1	N/A	
k 2015 pc str	letrospective pre- lost single group tudy	4 Single-clinic available at not reported	study. Only included participants with data each timepoint. Number of patients excluded	0	High follow-up rates at final timepoint.	Detailed information on given.	iming of treatment	1 N/A	Separate analyses were carried out for males and females. No other covariates were adjusted for.	0.5	0 A	at addition of cross sex hormones - sufficient follow-up for nost participants but not all.	0.5	Collected from medical records.	1	N/A	
er 2020 po str	rospective pre- lost single group tudy	2.5 Single-clinic missing follo	study that excluded 22/209 patients due to w-up.	0.5	Despite those with follow-up data being excluded, less than 90% of participants included in analysis of each outcome.	Clinician data were enter database.	ed into a research	1 N/A	Hypothesis testing (not separately by age or sex). Regression controlling for demographic and treatment variables planned, but no correlations found between change scores and demographic/treatment variables.	0	0 N	to information given on time between start of puberty uppresion and follow-up.	0	Validated scales used.	1	N/A	
ch 2015 po str	tetrospective pre- lost single group tudy	2.5 Single-clinic proportion of	study, not enough information given to ascertain if eligible patients included in study.	0	Study makes reference to participants being lost to follow- up, but does not present information on follow-up rates.	Clinical data extracted fro	om medical records.	1 N/A	Narrative summary presented.	0	0 B	asseline and relevant data from clinic follow-up at 1 and 6- nonthly intervals (duration of follow-up not reported)	0.5	Extracted from medical records.	1	N/A	
abi 2021 po str	tetrospective pre- lost single group tudy	3 Single-clinic measuremen	study. Only participants with at least one DXA it were included.	0	Considerable number not included in analysis.	Retrospective review of r	nedical records.	1 N/A	Separate analyses carried out for males and females. Unadjusted analyses used.	0.5	0 B	taseline and single follow-up (median 352.5 median days after infitia initiation, range 188-576 days)	0.5	Outcomes collected via DXA.	1	N/A	
man 2019 pc str	letrospective pre- lost single group tudy	3 Single-clinic	study. No information given on eligibility.	0	Less than 90% follow-up for some outcomes.	Collected from medical r	icords.	1 N/A	Narrative summary presented. Only birth-registered males were included.	0.5	0 Ti	ime between baseline and first follow-up ranged from 2.18 to months.	0.5	Extracted from medical records.	1	N/A	
on-Kennedy 2021 pc str	letrospective pre- lost single group tudy	4 have data be	er of clinics. Participants excluded if they did not ofore and after histrelin implant placement. No provided.	0	Only one participants excluded from one analysis.	Charts of existing patient implant in place were re-	s who had a histrelin iewed.	1 N/A	Stratified analyses by sex were carried out. No other covariates were adjusted for.	0.5	0 B	laseline and single follow-up (2-12 months after treatment)	0.5	Abstracted from the medical record and from the larger study data pool.	1	N/A	
2020 Pe str	tetrospective pre- lost single group tudy	5 Participants participants	ecruited from a national clinic, only 3 were excluded due to missing BP data.	1	Those with missing data were excluded from the study.	Medical records data use treatment.	d to identify those on	1 N/A	Only birth-registered females were included in the study. No information is given on adjustment for baseline variables.	0.5	0 B	laseline, and follow-ups at end of GnRHa treatment (average 3 nonths SD 1).	0.5	Most measures extracted from medical records. BP measured during clinic visit using Welch Allyn Vital Signs Monitor VSM 300 (Welch Allyn, Inc., Beaverton, OR)	1	N/A	

Peri 2021	Retrospective pre- post single group study	Participants were recruited from national clinic, only 1 participant was excluded due to missing BP data.	1	Those with missing data were excluded from the study.	1	Data extracted from medical records.	1	N/A		Only birth-registered males were included in the study. Un adjusted analyses were used.	0.5	0	Baseline, and follow-ups at end of GnRHa treatment (mean 9 months 90 6).	0.5	Most measures extracted from medical records. BP measured during clinic visit using Welch Allyn Vital Signs Monitor VSM 300 (Welch Allyn, Inc., Beaverton, OR)	1	N/A
Russell 2021	Retrospective pre- post single group study	Two national clinics. Participants with incomplete outcome data were excluded (27/122).	0.5	Only participants with complete outcome data were included.	1	Details on GnRHa consent given.	1	N/A		The analysis adjusted for sex. No other covariates were adjusted for.	0.5	0	Baseline and 12 month follow-up (plus / minus 3 months)	1	Validated scale used:	1	N/A
Schagen 2016	Prospective pre- post single group study	National clinic. All eligible.	1	Low follow-up rates reported.	0	Participants excluded based on treatment duration and receipt of medication, which implies access to medical records.	1	N/A		Separate analyses carried out for males and females. Unadjusted analyses used.	0.5	0	Baseline, and 3, 6, 12, 24 and 36 months	1	Detailed information given on laboratory investigations and use DXA provided.	1	N/A
Schagen 2018	Prospective pre- post single group study	National clinic. No information on consent rates but selected from all eligible.	0.5	No information given on follow-up rates.	0	Details on duration of treatment provided.	1	N/A		Separate analyses carried out for males and females. No other covariates were adjusted for.	0.5	0	Analyses used data up to two years post-treatment.	1	Detailed information given on laboratory investigations.	1	N/A
Schagen 2020	Prospective pre- post single group 5 study	National clinic. Small number excluded due to DXA scans not being available at the start of GnRHa.	1	No information given on missing data rates at follow-up.	0	Detailed treatment protocol provided.	1	N/A		Analyses adjusted for pubertal stage and sex. No other covariates were adjusted for.	1	0	Analyses presented up to 36 months of treatment.	1	Dual-energy x-ray absorptiometry (DXA) using Hologic QDR 4500. Markers of bone formation and resorption used fasting blood samples, drawn on day of DXA.	1	N/A
Segev-Becker 2020	Retrospective pre- post single group 3 study	National clinic. Consecutive participants recruited.	1	No information given on follow-up rates.	0	Information on treatment delivery presented.	1	N/A		Some but not all descriptive summaries stratified by gender/sex. Participants were split into pre-pubertal and pubertal groups.	0	٥	No information given on follow-up period.	0	Data collected retrospectively from clinical records.	1	N/A
Stoffers 2019	Retrospective pre- post single group 4 study	Single-clinic study. Only 2/64 participants declined to participate.	0.5	High rates of follow-up at 6 months post-treatment, but low rates at 12 and 24 months post-treatment.	0.5	Information provides confidence that medical data were used.	1	N/A		Only birth-registered females were included. Unadjusted analyses were used.	0.5	٥	The median duration of follow-up was 12 months (range 5-33 months).	0.5	Data collected via chart review.	1	N/A
Tack 2016	Retrospective pre- post single group study	Single-centre study in country with three clinics. Small number (5 out of 43) excluded due to missing laboratory data.	0.5	No information given on follow-up rates at each timepoint.	0	Information provides confidence that medical data were used.	1	N/A		Only birth-registered female adolescents were included. Unadjusted analyses were used.	0.5	٥	Data collected 6 and 12 months after start of lynestrenol,	1	Data collected as part of clinical follow-up.	1	N/A
Tack 2017	Retrospective pre- post single group study	Single-centre study in country with three clinics. All those who received CA for at least 6 months during study period were included.		No information given on follow-up rates at each timepoint.	0	Information provided on age at start of treatment - medical records data.	1	N/A		Only birth-registered males were included in the study. Unadjusted analyses were used.	0.5	0	Baseline, 6 and 12 month follow-up with Cyproterone acetate.	1	Data collected as part of clinical follow-up.	1	N/A
Tack 2018	Prospective pre- post single group 3 study	Single-centre study in a country with three clinics. No information on eligibility or consent rates.	0	No information given on follow-up rates at each timepoint.	0	Mean age at start of treatment given - medical records data.	1	N/A		Separate analyses were carried out for males and females. Unadjusted analyses were used	0.5	0	The mean time interval between both examinations was 11.64 (4 to 40) months in birth-registered females and 10.57 (5 to 31) months in birth-registered males.	0.5	Detailed information on assessment of outcomes provided.	1	N/A
van der Loos 2021	Retrospective pre- post single group study	Single-clinic study. 123 excluded due to DXA not being available.	0	Only participants who had a DXA were included.	1	Information presented on start of treatment - medical records data.	1			Separate analyses were carried out for males and females. Analyses were stratified by puberty stage.	1	٥	Some participants received GnRHA alone for less than one year.	0.5	Detailed information on DXA testing given.	1	N/A
Viot 2017	Retrospective pre- post single group 3.5 study	Single-clinic study. A large number of eligible participants were excluded due to incomplete data.	0	Data indicates that more than 20% were missing data for outcomes.	0	Data collection took place at point of treatment.	1	N/A		Analysis stratified on sex and bone age. Unadjusted analoyses were used.	1	٥	Age ranges given at each timepoint indicate follow-up sufficient for some patients.	0.5	Detailed information on DXA testing provided.	1	N/A
Waldner 2022	Retrospective pre- post single group study	15 out of 48 patients excluded due to incomplete data.	0	Only participants with complete data were included.	1	Retrospective chart review of medical records.	1	N/A		The mean post-tupron QTc was presented separately for patients assigned male and assigned female at birth.	0.5	0	Stated that time between baseline and follow-up was at least 6 weeks, but no further information given.	0	Assessed as part of clinical practice.	1	Table 3 shows QTC range was 1 384-454ms.
Cross-sectional																	
Arcelus 2016	Cross-sectional 3.5 study with controls	299 eligible patients - 31 did not answer questions regarding NSSI and were excluded. National clinic.	1	More than 10% excluded from analysis - no information provided on those or explanation.	0	Self-reported data on treatments received prior to assessment at adult clinic.	٥	Those not treated with hormones from same clinic sample.	1	Controlled for gender, self-esteem, transphobia, interpersonal problems, social support.	0.5	0	N/A		Validated assessment tools used.	1	N/A
Burke 2020	Cross-sectional study with controls	Single clinic population - no information provided about recruitment and response, or number of eligible individuals.	0	All participants included in analysis.	1	Clinic data used to select / categorise treatment groups.	1	Two control groups - treatment naive adolescents from same source and adolescent controls, which were appropriate for examining this outcome.	1	Controlled for puberty stage / age, sex assigned at birth but no other treatments. Cross- sectional so no baseline control.	1	0	N/A		Standard assessment - equipment and procedure explained in full - same applied to all participants (treatments and controls).	1	N/A
Fontanari 2020	Cross-sectional study with controls	Self-selecting survey.	0	All participants who completed survey were included in the analysis.	1	Self-report.	0	Non-exposed group from same survey sample.	1	No adjustment made for age, sex, co-interventions or sociodemographic confounders.	0	٥	N/A		Validated scales used.	1	N/A
Nokoff 2021	Cross-sectional 3.5 study with controls	Single-clinic study. No information provided on consent rate.	0	All participants included in analysis according to table data.	1	No information provided on ascertainment of treatment exposure.	0	Adolescents from Colorado RESistance to InSulin in Type 1 ANd Type 2 diabetes (RESISTANT) study and the Health Influences in Puberty (HIP) study.	0.5	Separate analyses were carried out for sex, and analyses matched on age. Analyses also matched on BMI.	1	٥	N/A		Body composition measured using DXA and detailed information on laboratory assays provided.	1	N/A
Staphorsius 2015	Cross-sectional 2.5 study with controls	Single-clinic study. No information given on consent rates.	0	Considerable number removed from analysis.	0	Information on treatment delivery presented.	1	Self-selective sample from friends and siblings of participants with GD.	0	ANOVA was used to examine differences in accuracy and reaction time. An analysis using ANCOVA examined the effect of IQ on group differences.	0.5	0	N/A		The Tower of London Test was used. Detailed information is provided fMRI analysis.	1	N/A
Strang 2022	Cross-sectional study with controls	Shared study protocol in two locations. No information given on consent rates.	0	Only those with complete report forms were included.	1	Collected through parent and self-report, and only verified when dates not fully recalled by families.	0	Drawn from same population as exposed group.	1	Analyses adjusted for assigned sex and age. Membership in the puberty suppression group included those who had ever taken it, including those in current receipt and those who were now taking cross-sex hormones.	1	0	N/A		Validated scales and evaluations used.	1	N/A
Turban 2020	Cross-sectional 3 study with controls	National survey covering all 50 states in collaboration with 400+ lesbian, gay, bisexual and transgender organisations.	1	No information given on number of participants excluded from analyses due to missing data.	0	Self-reported by participants.	0	Drawn from same population as exposed group.	1	Age and sex were not adjusted for. Education level, employment status, and total household income were adjusted for.	0.5	0	N/A		One validated scale used, the rest appear to be bespoke for the study.	0.5	N/A
van der Miesen 202	Cross-sectional 5.5	Nearly all patients included from a national service.	1	Only participants who completed the questionnaire were included.	1	Questionnaires were completed during clinical assessments.	1	Group with GD who had not received puberty suppresants drawn from same source as exposed group.	1	An analysis controlling for gender and ago confirmed the group effects.	1	٥	N/A		A validated scale was used (YSR). An ad hoc peer relations scale was created using 3 items of the YSR.	0.5	N/A
van der miesen 202	study with controls	veerry an patients included from a national service.		included.	•					nor meany as consounting for genous and ago consensed the group emects.			N° .			0.5	my n