Supplementary material

Search strategy

Using a sensitivity-maximizing search, we included terms regarding the population and intervention, using an RCT filter. We did not use language or date restrictions. The search was conducted by author JD, clinical librarian and search specialist, in order to ensure a high degree of thoroughness. For population /domain being studied, we included the term obsessive-compulsive disorder and known synonyms. For intervention we used pharmacotherapy for OCD as recommended in the NICE treatment guideline and in the Anxiety and Depression Association of America treatment guideline. We searched for clomipramine, sertraline, paroxetine, fluoxetine and fluvoxamine, incuding known synonyms. Citalopram, escitalopram, mirtazapine and venlafaxine are not registered but are mentioned as treatment options in abovementioned guidelines, so we included them in our search.

We systematically searched Embase, Medline and PsycINFO. For the Embase search strategy, see figure **S1**. Comparable searches were done for Medline and PsycINFO. Additionally, we performed a scoping search of Cochrane CENTRAL which did not yield additional articles. We searched the WHI International Clinical Trial Registry Platform, as well as EUdraCT and clinicaltrials.gov. Additionally, we searched several symposia (ACNP, ECNP, Molecular Psychiatry, ADAA, IOCDF) for the last five years in order to included information that has not yet been published.

Figure S1: Embase search strategy

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	Ovid Embase Classic+Embase <1947 to 2023 February 21> Search date: 22 February 2023 RCT filter: (Box 3.e Cochrane Highly Sensitive Search Strategy for identifying controlled trials in Embase: (2018 revision); Ovid format (Glanville et al 2019b: https://training.cochrane.org/handbook/version-6/chapter-4-tech-suppl))	
	nttps://training.cocnrane.org/nanoook/version-b/cnapter-4-tecn-suppi))	
#	Searches	Results
1	obsessive compulsive disorder/	30691
2	(obsessive compulsive disorder? or obsessive neurosis or compuls* neurosis or obsessive syndrome or ocd or Obsessive-Compulsive Scale or yale brown or ybocs or "y-bocs").ab,kw,ti.	27736
з	1 or 2 [obsessive compulsive disorder]	40445
4	(serotonin re?uptake inhibitor? or serotonin specific re?uptake inhibitor? or ssri? or 5?ht uptake inhibitor? or "5 Hydroxytryptamine uptake inhibitor?" or 5?ht re?uptake inhibitor? or "5 Hydroxytryptamine re?uptake inhibitor?").ab, kw,ti.	29794
5	(Sertralina or Sertraline or Sertralinum).ab,kw,ti,tn.	8132
6	(adjuvin or altruline or aremis or atruline or besitran or dominum or doxime or fatral or fridep or gladem or lesefer or lustral or nudep or seltra or serad or sercerin or serlain or serlift or sertralin or sertraline hydrochloride or sertranex or sertranquil or sosser or tatig or tresleen or zolof or zoloft or zosert).ab, kw,ti,tn.	3043
7	(arketis or aropax or aroxat or brisdelle or daparox or deroxat or dexorat or divarius or dropax or dropaxin or euplix or eutimil or frosinor or mesafem or motivan or optipar or paluxetil or paluxon or paroc or parogen or paroxedura or paroxet or paroxetin or paroxetina or paroxetine hydrochloride or paroxetine mesilate or paroxetine mesylate or paroxia or paxan or paxil or paxtine or paxxet or pexeva or serestill or sereupin or seroxat or setine or solben or syntopar or tagonis).ab,kw,ti,tn.	3219
8	(actan or adofen or afeksin or alzac or andep or andepin or ansilan or auroken or auscap or bioxetin or captaton or daforin or dagrilan or deprex or deprexetin or deprexin or deprizac or deproxin or diesan or digassim or elizac or exostrept or felicium or fldiss or flotnal or floxet or fluctin or fluctin or fludac or flufran or fluketin or fluni or fluninin or fluohexel or fluoksetin or fluoksetyna or fluox or fluox-puren or fluoxac or fluoxet or fluxetin or fluoxetin a fluoxet ine hydrochloride or fluxifar or fluoxifar or fluoxin or fluoxet or fluoxet or fluoxet or fluxen or fluxet or prezer or a ladose or lanclic or lorien or lovan or luramon or magrilan or meropan or modipran or mutan or nopres or nuzak or elizac or plazeron or plinzene or pragmaten or prizme or protin or prodep or prosac or prozac or prozamin or prozep or prozit or psipax or qualisac or rapiflux or reconcile or reneuron or rowexetina or salipax or sanzur or sarafem or sartuzin or selfemra or serelsa or seromex or seronil or sinzacor sofelin or "stephadilat-s" or xeredien or zactin or zepax or zinovat).ab,kw,ti,tn.	129651
9	(Fluvoxamina or Fluvoxamine or Fluvoxaminum or luvox).ab,kw,ti,tn.	4710
10	(Citalopram or Citalopramum or Nitalapram or ctp).ab,kw,ti,tn.	18898
11	(Citalopram or Escitalopram or Escitalopramum).ab,kw,ti,tn.	12264
12	(Azamianserin or Mepirzapine or Mirtazapin or Mirtazapina or Mirtazapine or Mirtazapinum).ab,kw,ti,tn.	4052
13	(Venlafaxina or Venlafaxine or Venlafaxinum).ab,kw,ti,tn.	7243
14	("79617-96-2" or "61869-08-7" or "54910-89-3" or "54739-18-3" or "59729-33-8" or "128196-01-0" or "93413-69-5" or "303-49-1").ab,kw,rn.	107220
15	or/4-14 [SSRI's]	261967
16	(Chloroimipramine or Chlorimipramine or Clomipramina or Clomipramine or Clomipraminum or Monochlorimipramine).ab,kw,ti,tn.	4933
17	85650-52-8.ab,kw,rn.	1301
18	16 or 17 [clomipramine]	6219
19	Randomized controlled trial/	774446
20	Controlled clinical study/	469013 1945804
21 22	randomS.ti,ab.	98516
22	randomization/ intermethod comparison/	294523
24	placebo.ti,ab.	366341
25	(compare or compared or comparison).ti.	627631
26	(evaluated or evaluate or evaluating or assessed or assess) and (compare or compared or comparing or comparison)).ab.	2722771
27	(open adj label), ti, ab.	106794
28	((double or single or doubly or singly) adj (blind or blinded or blindly)).ti,ab.	276766
29	double blind procedure/	210213
30	parallel group\$1.ti,ab.	31735
31	(crossover or cross over).ti,ab.	124308
32	((assign\$ or match or matched or allocation) adj5 (alternate or group\$1 or intervention\$1 or patient\$1 or subject\$1 or participant\$1)):ti,ab.	410629
33	(assigned or allocated).ti,ab.	483810
34	(controlled adj7 (study or design or trial)).ti,ab.	446692
35	(volunteer or volunteers).ti,ab.	285865
36	human experiment/	639759
37	trial.ti.	403012
38	or/19-37 [RCT filter]	6286852
39	(error or erratum or letter or editorial).ab,kw,pt,ti.	2745590
40	3 and (15 or 18) and 38	2008
41	3 and (15 or 18) and 39	726
42	JPRN-UMIN000001726.cn.	0
43	or/40-42	2682

In- and exclusion of studies.

With full-text screening, we excluded 23 studies for using the same data from a trial that had already been presented in an earlier paper. We excluded eight studies for not using the YBOCS scale as outcome measure and seven for not using a placebo control group. 17 were excluded because they were a review or comment and three for presenting a case report. Three papers did not provide enough efficacy data to include them in our review, even after requests for information. We excluded one study for using 24 hours as endpoint, after administering intravenous clomipramine.

Risk of bias assessment.

We used the <u>https://methods.cochrane.org/risk-bias-2</u>, and through the official guidance document we filled in the risk of bias template for each study. See **table S1**, in which we simplified and summarized our risk of bias assessment.

Study	Domain 1 Randomization	Domain 2a Assignment	Domain 3 Missing outcome data	Domain 4 Outcome measurement	Domain 5 Reporting	Overall risk of bias
Chouinard, 1990, (1)	Some concerns 1.1./1.2 : Unclear allocation sequence / concealment	Low	Low	Low	Some concerns 5.1 No pre-specified analysis plan.	Some concerns
CSG 1, 1991, (2)	Some concerns 1.1./1.2 : Unclear allocation sequence / concealment	Low	Low	Low	Some concerns 5.1 No pre-specified analysis plan.	Some concerns
CSG 2, 1992, (2)	Some concerns 1.1./1.2 : Unclear allocation sequence / concealment	Low	3.1 not all ptcpts that were randomized, were analyzed	Low	Some concerns 5.1 No pre-specified analysis plan.	High
Foa, 2005 (3)	Low	High	High	Low	Some concerns 5.1 no pre-specified analysis plan	High
Goodman, 1989, (4)	Some concerns 1.1./1.2 : Unclear allocation sequence / concealment	Low	High 3.1 No ITT analysis, >10 % dropout	Low	Some concerns 5.1 No pre-specified analysis plan.	High
Goodman, 1996 (5)	High. 1.1/1.2 unclear, and 1.3 Allocation, age and gender all identical. Exceeds chance expecation	Low	Low	Low	Some concerns 5.1 No pre-specified analysis plan.	High

Table S1: Risk of bias assessment

	1					1
Greist, 1995 (6)	Low	Low	Low	Low	Some concerns	Some concerns
					5.1 No pre-specified analysis plan.	
Hollander,	Low	Low	Low	Low	Some concerns	Some concerns
2003f (7)					5.1 No pre-specified analysis plan.	
Hollander,	Low	Low	Low	Low	Some concerns	Some concerns
2003p (8)					5.1 No pre-specified analysis plan.	
Jenike, 1989 (9)	Some concerns	High	Some concerns	Low	Some concerns	High
	1.1./1.2 : Unclear allocation sequence / concealment	2.6/2.7 ITT unclear possible impact on results	3.1 ITT unclear, >10% dropout		5.1 No pre-specified analysis plan.	
Jenike, 1990f	Low	Some concerns	Low	Low	Some concerns	Some concerns
(10)		2.6 no ITT, 2 dropouts, minor			5.1 No pre-specified analysis plan.	
Jenike, 1997 (11)	Low	Low	Low	Low	Low	Low
Kamajima, 2004	Some concerns	Low	Low	Low	Some concerns	Some concerns
(12)	1.1./1.2 : Unclear allocation sequence / concealment				5.1 No pre-specified analysis plan.	
Kronig, 1999	Low	Low	Low	Low	Some concerns	Some concerns
(13)					5.1 No pre-specified analysis plan.	
Mallya, 1992	Some concerns	High	High	Low	Some concerns	High
(14)	1.1./1.2 : Unclear allocation sequence / concealment	2.6/2.7 No ITT analysis, >10 % attrition	3.1 No ITT analysis, >10 % dropout		5.1 No pre-specified analysis plan.	
Montgomery, 2001 (15)	Low	Low	Low	Low	Low	Low
Montgomery, 1993 (16)	Low	Low	Low	Low	Low	Low
Nakatana, 2005	High	High	Some concerns	Low	Some concerns	High
(17)	1.1 allocation not random	2.6/2.7 No ITT analysis, >10 % attrition	3.1 >10 % dropout		5.1 No pre-specified analysis plan.	
Stein, 2007 (18)	Low	Low	Low	Low	Low	Low
Tollefson, 1994 (19)	Low	Low	Low	Low	Some concerns 5.1 No pre-specified	Some concerns
					analysis plan.	
Zohar, 1996 (20)	Some concerns	Low	Low	Low	Some concerns	Some concerns

1.1./1.2 : Unclea	r allocation		5.1 No pre-specified	
sequence / conc	ealment		analysis plan.	

Meta-regression analysis

For studies included in our multiple metaregression, we used a multicollinearity test in order to avoid overfitting, whereby studies with a high correlation (r>0.8) would be excluded from the multiple meta-regression. As **table S2** shows, no studies were correlated to the degree of redundancy.

Table S2: multicollinearity testing

	Publication Year	Trial arms	Sponsor status	High Risk of Bias	Clomipramine use
Publication Year		-0.37	0.22	-0.22	-0.24
Trial arms	-0.37		-0.37	-0.53	-0.20
Sponsor status	0.22	-0.37		-0.63	-0.24
High Risk of Bias	-0.22	0.53	-0.63		0.40
Clomipramine Use	-0.24	-0.20	-0.19	0.40	

Using anova, we compared performance and correctness of fit of the different multiple meta-regression models. The multiple metaregression using clomipramine and high risk of bias performed significantly better than individual regression models (see table **S3**). Further increasing model complexity did not lead to a significantly better performance. Corrected Akaike's information criterion was lowest for the model using clomipramine and high risk of bias and clomipramine was preferred over more complex models. Notable, furthermore, is that even when using the most complex model including all metaregression variables, clomipramine remained a significant predictor (beta -0.39, 95%CI -0.70 to -0.076, p = 0.017).

Table S3: Model performance of metaregressions

Comparison of model performance	LRT	p-value
Clomipramine + High RoB vs. High RoB	6.9	0.009
Clomipramine + High RoB vs. Clomipramine	4.9	0.0276
Clomi + High RoB + sponsor status vs Clomipramine + High RoB	1.5	0.22
Clomipramine vs. High RoB vs Clomipramine + High RoB + publication year	2.8	0.10
Clomi + High RoB + sponsor status vs Clomi + High RoB + sponsor status + publication year	2.7	0.10
Clomi + High RoB + sponsor status vs. full model	4.2	0.12

LRT: likelihood ratio test statistic

Table S4: Akaike's information criterion of metaregressions

Variables in regression model	AICc
High risk of bias	26.1
Clomipramine use	24.1
High risk + clomipramine	21.8
High risk + clomipramine + publication year	21.8
High risk + clomipramine + sponsor status	23.2
Full model	23.6

AICc = Corrected Akaike's information criterion

Meta-regression of SSRI studies

As described in our main analysis, heterogeneity was low across SSRI studies (I squared = 16.0%, tau < 0.0001), and the test for heterogeneity was not significant (Q = 30, p = 0.23), suggesting the effect of SSRIs

compared to placebo to be consistent across studies. Meta-regressions for different SSRI's were not

significant. Results persisted when considering a prediction interval (95% PI -0.55 to -0.39).

Figure S2 Forest plot for SSRI studies only

		Expe	rimental			Control	Standardised Mean			
Study	Total	Mean	SD	Total	Mean	SD	Difference	SMD	95%-CI	Weight
Chouinard	43	-3.80	5.2000	44	-1.50	5.2000		-0.44	[-0.86; -0.01]	3.2%
Goodman	78	-3.95	6.3000	78	-1.71	4.9000		-0.39	[-0.71; -0.08]	5.7%
Goodman	21	19.40	7.0000	21	28.00	7.0000		-1.21	[-1.87; -0.54]	1.3%
Greist	240	-5.60	6.2000	84	-3.40	6.2000		-0.35	[-0.60; -0.10]	9.2%
Hollander_p20	88	21.80	6.2000	30	22.30	6.2000		-0.08	[-0.49; 0.33]	3.3%
Hollander_p40	86	19.10	7.0000	30	22.30	6.2000		-0.47	[-0.89; -0.05]	3.3%
Hollander_p60	85	18.00	7.0000	30	22.30	6.2000		-0.63	[-1.05; -0.20]	3.2%
Hollander_f	117	-8.50	7.9000	120	-5.60	7.9000		-0.37	[-0.62; -0.11]	8.7%
Jenike	23	11.80	4.0000	21	18.70	6.1000		-1.33	[-1.99; -0.67]	1.3%
Jenike_f	18	18.80	4.0000	20	21.80	7.6000		-0.48	[-1.12; 0.17]	1.4%
Kamijima	94	-8.11	8.0000	94	-3.50	6.1000		-0.65	[-0.94; -0.35]	6.7%
Kronig	86	16.00	10.0000	81	20.00	10.0000		-0.40	[-0.70; -0.09]	6.1%
Mallya	14	-6.40	5.9000	14	-1.10	4.1000		-1.01	[-1.81; -0.22]	0.9%
Montgomery_f20	52	-5.10	6.4000	19	-3.70	6.0000		-0.22	[-0.75; 0.31]	2.1%
Montgomery_f40	52	-4.70	6.9000	19	-3.70	6.0000		-0.15	[-0.67; 0.38]	2.1%
Montgomery_f60	54	-6.10	6.9000	19	-3.70	6.0000		-0.36	[-0.88; 0.17]	2.1%
Montgomery_c20	102	-8.40	7.3000	34	-5.60	6.9000		-0.39	[-0.78; 0.00]	3.8%
Montgomery_c40	98	-8.90	7.0000	34	-5.60	6.9000	<u> </u>	-0.47	[-0.86; -0.08]	3.7%
Montgomery_c60	100	-10.40	6.9000	34	-5.60	6.9000		-0.69	[-1.09; -0.29]	3.6%
Nakatani	10	-8.80	8.1000	8	-2.10	4.2000		-0.96	[-1.95; 0.04]	0.6%
Stein_e10	113	-11.40	8.3000	38	-8.50	8.0000		-0.35	[-0.72; 0.02]	4.2%
Stein_e20	114	-12.10	8.2000	38	-8.50	8.0000		-0.44	[-0.81; -0.07]	4.2%
Stein_p40	117	-11.70	8.4000	38	-8.50	8.0000		-0.38	[-0.75; -0.01]	4.2%
Tollefson_20	87	-4.70	7.0000	29	-0.80	3.9000		-0.61	[-1.03; -0.18]	3.1%
Tollefson_40	86	-5.60	6.2000	29	-0.80	3.9000		-0.83	[-1.27; -0.40]	3.0%
Tollefson_60	99	-6.30	7.8000	29	-0.80	3.9000	<u> </u>	-0.77	[-1.19; -0.34]	3.2%
Zohar_p	201	-8.00	8.0000	50	-5.00	7.9000		-0.37	[-0.69; -0.06]	5.9%
Random effects model	2278			1085			÷	-0.47	[-0.56; -0.39]	100.0%
Prediction interval							_		[-0.55; -0.39]	
Heterogeneity: $I^2 = 16\%$, τ	< 0.00	101, p =	0.23				1 1 1			
							-1 0 1			

Publication bias

We used the robustbayesiancopas package in order to perform our Bayesian analysis of selection bias and used their proposed methods. We used multiple assumptions about distribution of the random effect (Student's T, Laplace, normal and slash distributions). Then, we extracted the Deviance Information Criterion (DIC) for each model to compare their goodness of fit. As slash distributions had the best fit (i.e. the lowest DIC), we used this distribution in further calculations., We then estimated the correlations parameter and fit a Bayesian model with and without correction for bias. We repeated our analysis multiple times using different seed settings which did not change the results. For SSRI studies only, using a Bayesian Copas selection model, we found a moderate effect of publication bias (D = 0.48) similarly to the full sample, with a decrease of 0.077 SMD, from – 0.48 (95% credible interval -0.57 to -0.40) to – 0.41 (95% credible interval - 0.54 to -0.22).

Sensitivity analysis

After fully excluding all studies with a high risk of bias, clomipramine was still associated with a higher effect size (-0.38, p = 0.028, 95% CI =-0.72 to - 0.044), emphasizing the robustness of our finding that clomipramine has a higher efficacy than SSRI's when compared to placebo.

After combining intervention arms using different fixed doses, efficacy measures were comparable (SMD = - 0.65, 95% CI -0.83 to -0.46). See **figure S3** for forest plot, including measures of heterogeneity. Furthermore, outcomes of meta-regression remained largely unchanged, except non-significance of the amount of intervention arms that were used. As our original analysis method increases the relative weight of studies with multiple intervention arms, the fact that in this analysis intervention arms are not significantly related to efficacy is an important addition to our original fidings. Please see **table S5** for single meta-regression results, and **table S6** for multiple metaregression including high risk of bias and clomipramine use. Furthermore, precision of estimates broadly decreased, with higher p-values, which is understandable considering the combination of doses decreases the degree of freedom for meta-regressions.

Study	Total	Expe Mean	rimental SD	Total	Mean	Control SD	Standardised Mean Difference	SMD	95%-CI	Weight
CSG 1	118	16.20	7,9000	120	25.10	6.7000	∓ :	1 21 [-1.49; -0.94]	5.4%
CSG 2	134	14.70	7.9000		25.60	6.0000			-1.82; -1.27]	5.4%
Chouinard	43	-3.80	5.2000		-1.50	5.2000			-0.86; -0.01]	4.5%
Foa	36	18.00	7.8000		22.20	6.4000			-1.09; -0.06]	4.0%
Goodman	78	-3.95	6.3000		-1.71	4.9000	1		-0.71; -0.08]	5.1%
Goodman	21	19.40	7.0000		28.00	7.0000			-1.87: -0.54]	3.2%
Greist	240	-5.60	6.2000		-3.40	6.2000	_		-0.60: -0.10]	5.5%
Hollander	88	19.60	6.8000		22.30	6.2000			-0.71; -0.12]	5.3%
Hollander f	117	-8.50	7.9000		-5.60	7.9000			-0.62; -0.11]	5.5%
Jenike	13	15.20	5.2000		24.90	5.2000			-2.73: -0.891	2.2%
Jenike	23	11.80	4.0000		18.70	6.1000			-1.99: -0.671	3.2%
Jenike f	18	18.80	4.0000		21.80	7.6000			-1.12; 0.17]	3.3%
Kamijima	94	-8.11	8.0000		-3.50	6.1000	+		-0.94; -0.35]	5.3%
Kronig	86	16.00	10.0000			10.0000			-0.70; -0.09]	5.2%
Mallya	14	-6.40	5.9000	14	-1.10	4,1000			-1.81; -0.221	2.6%
Montgomery	158	-5.30	6,7000	57	-3.70	6.0000			-0.55; 0.06]	5.2%
Montgomery	300	-9.20	7.1000	102	-5.60	6.9000	-		-0.74; -0.28]	5.6%
Nakatani	10	-8.80	8.1000	8	-2.10	4.2000		-0.96	-1.95; 0.04]	2.0%
Stein	344	-11.70	8.3000	114	-8.50	8.0000		-0.39	-0.60; -0.18]	5.7%
Tollefson	266	-5.40	7.8000	89	-0.80	5.7000	-	-0.63	-0.87; -0.38]	5.6%
Zohar p	201	-8.00	8.0000	50	-5.00	7.9000	+ + -	-0.37	-0.69; -0.06]	5.2%
Zohar_c	99	-8.00	8.2000	50	-5.00	7.9000	÷ • -	-0.37 [-	-0.71; -0.03]	5.0%
Random effects mode	2501			1426			↓	-0.65 [-	0.83; -0.46]	100.0%
Prediction interval									1.39; 0.09]	
Heterogeneity: $I^2 = 80\%$,	$\tau^2 = 0.11$	83. p < 1	0.01							
······		, /*					-2 -1 0 1 2			

Figure S3 forest plot of studies with fixed doses combined in a single intervention arm.

 Table S5 single regression outcomes for combined fixed doses.

Predictor	Beta- coefficient	P-value	95% Cl Lower	95% Cl Upper
Categorical predictors				
High risk of bias	- 0.49	0.012	- 0.87	-0.12
Clomipramine use	-0.53	0.0073	-0.90	-0.16
Fully sponsored	0.44	0.041	0.020	0.87
Two-armed intervention trial	-0.33	0.060	-0.67	0.015
Use of placebo run- in	0.052	0.84	-0.47	0.58
Flexible dose	-0.25	0.17	-0.62	0.11
Continuous predictors				
Publication year	0.031	0.048	0.0030	0.062
Mean age	0.074	0.091	-0.013	0.16
Mean severity	-0.0038	0.94	-0.11	0.10
Duration of illness	-0.019	0.44	-0.072	0.034
Percentage male	0.0075	0.50	-0.015	0.030

regression outcomes for combined fixed doses

Predictor	Beta-coefficient	p- Value	95% CI lower	95% Cl upper
High Risk of Bias	-0.34	0.069	-0.70	0.029
Clomipramine Use	-0.43	0.022	-0.79	-0.070

Table S7

No of patients (studies)	Design	Limitations	Inconsistency	Indirectness	Imprecision	Publication Bias
4102 (21)_	RCT's	Serious limitations	Moderate inconsistency	Direct outcomes	Adequate precision	Suspicion of publication bias

GRADE assessment for quality of evidence, for outcome of YBOCS change at primary endpoint. All studies

were placebo-controlled RCT's. There were serious limitations due to most studies being at moderate risk of

bias. Results were inconsistent, but less so for SSRI's. Outcomes were direct, meaning population,

intervention, or outcomes are comparable.

Table S6 multiple 1. Chouinard G, Goodman W, Greist J, Jenike M, Rasmussen S, White K, et al. Results of a doubleblind placebo controlled trial of a new serotonin uptake inhibitor, sertraline, in the treatment of obsessive-compulsive disorder. Psychopharmacol Bull. 1990;26(3):279-84.

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