PubMed search strategy:

(vaginal gel) OR (estrogen gel) OR (estradiol) OR (oxytocin gel) OR (hormonal vaginal gel) OR (non-hormonal vaginal gel) OR (funnel gel)) OR (chamomile gel) AND ((sexual dysfunction)) OR (sexual pleasure) OR (sexual function) OR (female sexual function index)

Web of Science search strategy:

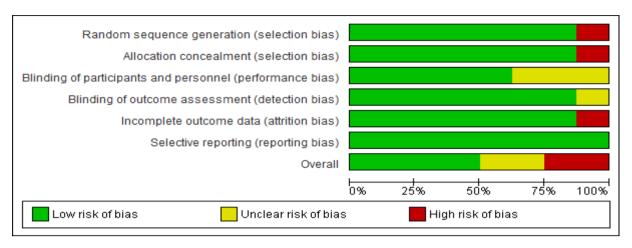
(((((ALL=(vaginal gel)) OR ALL=(estrogen gel)) OR ALL=(estradiol)) OR ALL=(oxytocin gel)) OR ALL=(hormonal vaginal gel)) OR ALL=(non-hormonal vaginal gel)) OR ALL=(funnel gel)) OR ALL=(chamomile gel)) AND ALL=(sexual dysfunction)) OR ALL=(sexual pleasure)) OR ALL=(sexual function)) OR ALL=(female sexual function index)

Scopus search strategy:

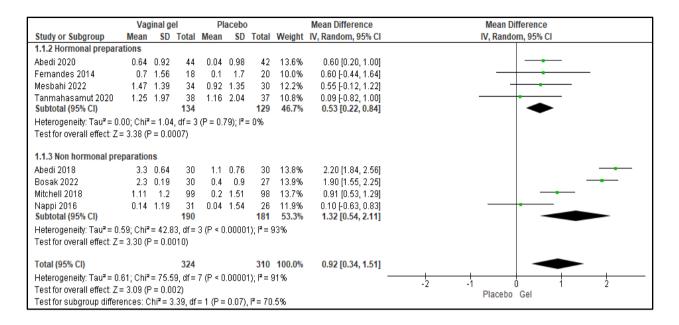
(TITLE-ABS-KEY (vaginal AND gel) OR TITLE-ABS-KEY (estrogen AND gel) OR TITLE-ABS-KEY (estradiol) OR TITLE-ABS-KEY (oxytocin AND gel) OR TITLE-ABS-KEY (hormonal AND vaginal AND gel) OR TITLE-ABS-KEY (non-hormonal AND vaginal AND gel) OR TITLE-ABS-KEY (funnel AND gel) OR TITLE-ABS-KEY (chamomile AND gel) AND TITLE-ABS-KEY (female AND sexual AND function AND index))

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Overall
Abedi 2018	•	•	•	•	•	•	•
Abedi 2020	•	•	?	•	•	•	?
Bosak 2022	•	•	•	•	•	•	•
Fernandes 2014	•	•	?	•	•	•	?
Mesbahi 2022	•	•	•	•	•	•	•
Mitchell 2018	•	•	•	•	•	•	•
Nappi 2016	•	•	?	?	•	•	•
Tanmahasamut 2020	•	•	•	•	•	•	•

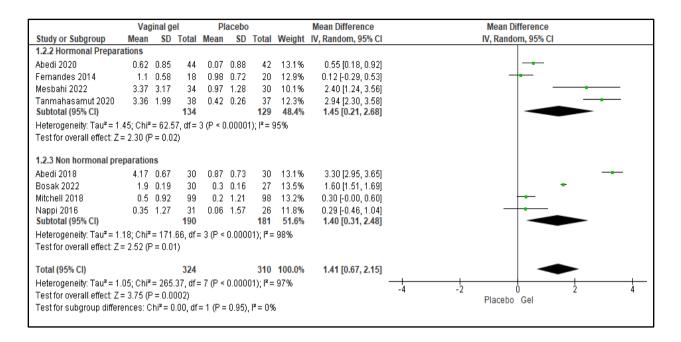
Supplementary Figure 1: Risk of bias summary of included studies



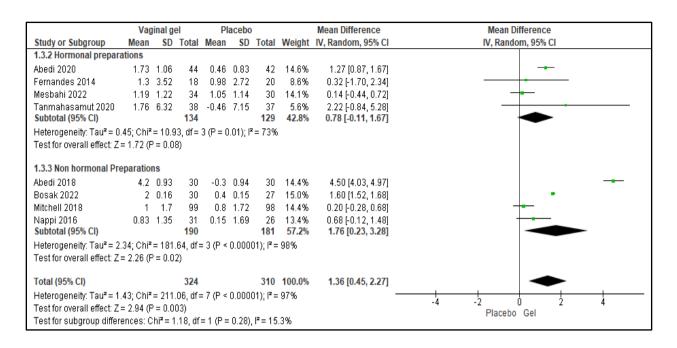
Supplementary Figure 2: Risk of bias graph of included studies



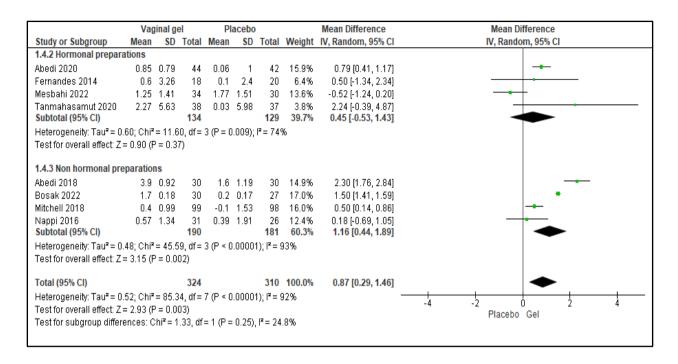
Supplementary Figure 3: Meta-analysis of change (pre-/postinterventional) in sexual desire domain of Female Sexual Function Index (FSFI)



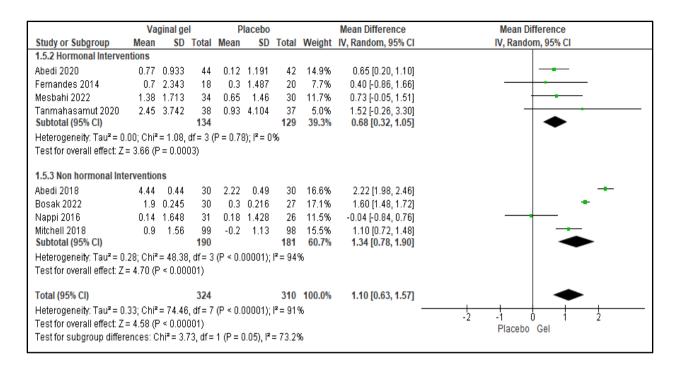
Supplementary Figure 4: Meta-analysis of change (pre-/postinterventional) in sexual arousal domain of Female Sexual Function Index (FSFI)



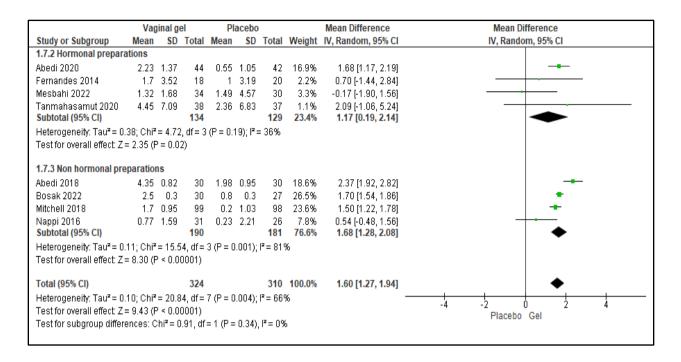
Supplementary Figure 5: Meta-analysis of change (pre-/postinterventional) in sexual lubrication domain of Female Sexual Function Index (FSFI)



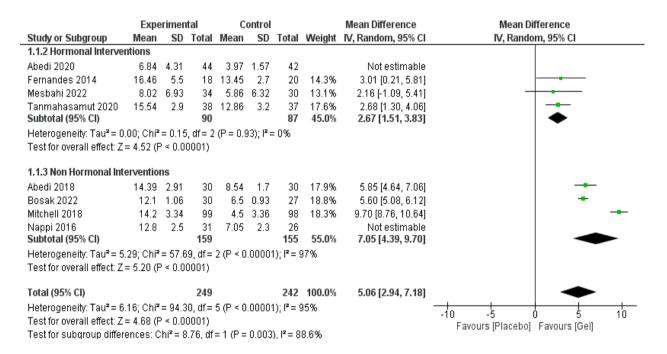
Supplementary Figure 6: Meta-analysis of change (pre-/postinterventional) in sexual orgasm domain of Female Sexual Function Index (FSFI)



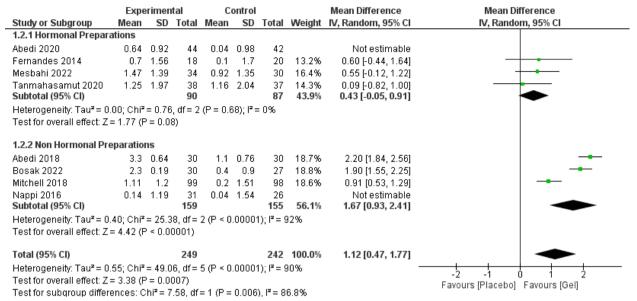
Supplementary Figure 7: Meta-analysis of change (pre-/postinterventional) in sexual satisfaction domain of Female Sexual Function Index (FSFI).



Supplementary Figure 8: Meta-analysis of change (pre-/postinterventional) in sexual pain domain of Female Sexual Function Index (FSFI)



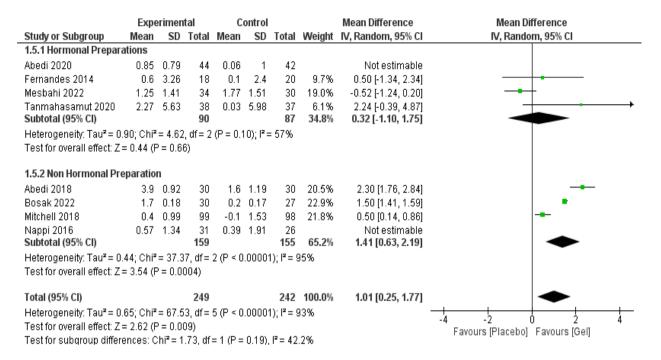
Supplementary Figure 9: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in total score of Female Sexual Function Index (FSFI).



Supplementary Figure 10: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual desire domain of FSFI.

Experimental Co			ontrol			Mean Difference	Mean Difference		
Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI	
tions									
0.62	0.85	44	0.07	0.88	42		Not estimable		
1.1	0.58	18	0.98	0.72	20	17.2%	0.12 [-0.29, 0.53]	+	
3.37	3.17	34	0.97	1.28	30	13.7%	2.40 [1.24, 3.56]	_ -	
3.36	1.99	38	0.42	0.26	37	16.4%	2.94 [2.30, 3.58]	-	
		90			87	47.3%	1.80 [-0.29, 3.88]		
23; Chi²	= 58.2	6, df=	2 (P < 0	.0000	1);	97%			
1.69 (F	r = 0.09	3)							
naratio	ne								
			0.07	0.70		47.400	0.0010.05.0.051		
								_ ·	
						17.5%		-	
0.35	1.27		0.06	1.57		E2 70/			
							1.73 [0.48, 2.98]	_	
			: 2 (P <	0.0000	01); l² =	99%			
2.70 (F	' = 0.0I	07)							
		249			242	100.0%	1.74 [0.85, 2.64]	•	
l 7: Chi²	= 227.	30. df=	:5(P <	0.0000	01): I² =	98%			
		-4 -2 0 2 4							
,		,	- 1 /D -	0.067	12 - 0.04			Favours [Placebo] Favours [Gel]	
	Mean tions 0.62 1.1 3.37 3.36 23; Chi² 1.69 (F paration 4.17 1.9 0.5 0.35 21; Chi² 2.70 (F	Mean SD tions 0.62 0.85 1.1 0.58 3.37 3.17 3.36 1.99 23; Chi² = 58.2 2:1.69 (P = 0.09 parations 4.17 0.67 1.9 0.19 0.5 0.92 0.35 1.27 21; Chi² = 160. 2.70 (P = 0.00 17; Chi² = 227. 17; Chi² = 227. 3.81 (P = 0.00	Mean SD Total tions 0.62 0.85 44 1.1 0.58 18 3.37 3.17 34 3.36 1.99 38 90 93 23; Chi² = 58.26, df = 1.69 (P = 0.09) parations 4.17 0.67 30 1.9 0.19 30 0.5 0.92 99 0.35 1.27 31 159 21; Chi² = 160.23, df = 2.70 (P = 0.007) 249 17; Chi² = 227.30, df = 381 (P = 0.0001)	Mean SD Total Mean tions 0.62 0.85 44 0.07 1.1 0.58 18 0.98 3.37 3.17 34 0.97 3.36 1.99 38 0.42 90 23; Chi² = 58.26, df = 2 (P < 0)	Mean SD Total Mean SD tions 0.62 0.85 44 0.07 0.88 1.1 0.58 18 0.98 0.72 3.37 3.17 34 0.97 1.28 3.36 1.99 38 0.42 0.26 90 90 0.22 0.0000 23; Chi² = 58.26, df = 2 (P < 0.0000	Mean SD Total Mean SD Total tions 0.62 0.85 44 0.07 0.88 42 1.1 0.58 18 0.98 0.72 20 3.37 3.17 34 0.97 1.28 30 3.36 1.99 38 0.42 0.26 37 90 90 87 87 23; Chi² = 58.26, df = 2 (P < 0.00001); l² = 9	Mean SD Total Mean SD Total Weight tions 0.62 0.85 44 0.07 0.88 42 1.1 0.58 18 0.98 0.72 20 17.2% 3.37 3.17 34 0.97 1.28 30 13.7% 3.36 1.99 38 0.42 0.26 37 16.4% 90 87 47.3% 47.3% 47.3% 47.3% 23; Chi² = 58.26, df = 2 (P < 0.00001); l² = 97%	Mean SD Total Weight IV, Random, 95% CI tions 0.62 0.85 44 0.07 0.88 42 Not estimable 1.1 0.58 18 0.98 0.72 20 17.2% 0.12 [-0.29, 0.53] 3.37 3.17 34 0.97 1.28 30 13.7% 2.40 [1.24, 3.56] 3.36 1.99 38 0.42 0.26 37 16.4% 2.94 [2.30, 3.58] 23; Chi² = 58.26, df = 2 (P < 0.000001); l² = 97%	

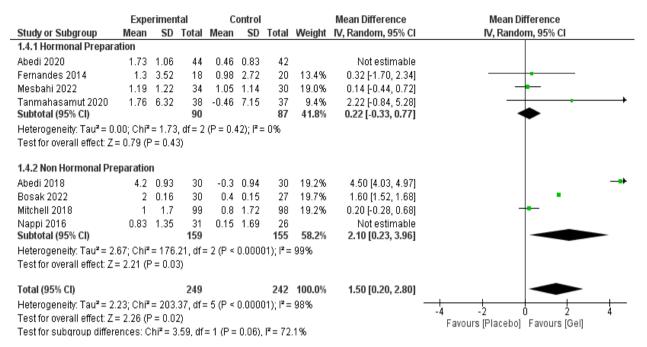
Supplementary Figure 11: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual arousal domain of FSFI.



Supplementary Figure 12: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual orgasm domain of FSFI.

	Exp	eriment	al	0	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.6.1 Hormonal Interve	ntions								
Abedi 2020	0.77	0.933	44	0.12	1.191	42	0.0%	0.65 [0.20, 1.10]	
Fernandes 2014	0.7	2.343	18	0.3	1.487	20	8.7%	0.40 [-0.86, 1.66]	- •
Mesbahi 2022	1.38	1.713	34	0.65	1.46	30	14.8%	0.73 [-0.05, 1.51]	
Tanmahasamut 2020	2.45	3.742	38	0.93	4.104	37	5.3%	1.52 [-0.26, 3.30]	+ -
Subtotal (95% CI)			90			87	28.7%	0.75 [0.13, 1.37]	-
Heterogeneity: $Tau^2 = 0$.	.00; Chi²	= 1.02,	df = 2 (P = 0.60	$0); I^{2} = 0$	%			
Test for overall effect: Z	= 2.36 (F	P = 0.02))						
1.6.2 Non Hormonal Into	erventio	ns							
Abedi 2018	4.44	0.44	30	2.22	0.49	30	24.1%	2.22 [1.98, 2.46]	-
Bosak 2022	1.9	0.245	30	0.3	0.216	27	25.3%	1.60 [1.48, 1.72]	•
Mitchell 2018	0.9	1.56	99	-0.2	1.13	98	21.9%	1.10 [0.72, 1.48]	
Nappi 2016	0.14	1.648	31	0.18	1.428	26	0.0%	-0.04 [-0.84, 0.76]	
Subtotal (95% CI)			159			155	71.3%	1.66 [1.14, 2.17]	•
Heterogeneity: $Tau^2 = 0$.	.19; Chi²	= 30.83	, df = 2	$(P \le 0.0$	00001);	$ ^2 = 94^\circ$	%		
Test for overall effect: Z	= 6.29 (F	o < 0.00	001)						
Total (95% CI)			249			242	100.0%	1.40 [0.95, 1.86]	•
Heterogeneity: Tau ² = 0.	.21; Chi²	= 40.33	, df = 5	(P < 0.0	00001);	l ² = 88 ⁹	Х,	-	-2 -1 1 1 2
Test for overall effect: Z:	= 6.01 (F	o.000	001)						-2 -1 U 1 2 Favours [Placebo] Favours [Gel]
Test for subgroup differ	ences: C	$hi^2 = 4.8$	39. df=	1(P = 0)	0.03), <mark>P</mark>	= 79.69	%		ravours (riacebo) Pavours (Gelj

Supplementary Figure 13: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual satisfaction domain of FSFI.



Supplementary Figure 14: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual lubrication domain of FSFI.

	Expe	rimen	tal	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.7.1 Hormonal Prepara	ations								
Abedi 2020	2.23	1.37	44	0.55	1.05	42		Not estimable	
Fernandes 2014	1.7	3.52	18	1	3.19	20	2.9%	0.70 [-1.44, 2.84]	
Mesbahi 2022	1.32	1.68	34	1.49	4.57	30	4.3%	-0.17 [-1.90, 1.56]	
Tanmahasamut 2020 Subtotal (95% CI)	4.45	7.09	38 90	2.36	6.83	37 87	1.4% 8.6 %	2.09 [-1.06, 5.24] 0.47 [-0.77, 1.71]	
Heterogeneity: Tau ² = 0.	00; Chi²	= 1.59	df = 2	(P = 0.4)	45); l² =	: 0%			
Test for overall effect: Z	= 0.74 (F	9 = 0.41	6)						
1.7.2 Non Hormonal Pre	paratio	ns							
Abedi 2018	4.35	0.82	30	1.98	0.95	30	24.7%	2.37 [1.92, 2.82]	
Bosak 2022	2.5	0.3	30	0.8	0.3	27	35.3%	1.70 [1.54, 1.86]	•
Mitchell 2018	1.7	0.95	99	0.2	1.03	98	31.3%	1.50 [1.22, 1.78]	-
Nappi 2016	0.77	1.59	31	0.23	2.21	26		Not estimable	
Subtotal (95% CI)			159			155	91.4%	1.81 [1.44, 2.17]	•
Heterogeneity: Tau² = 0.	08; Chi²	= 10.5	2, df=	2(P = 0)	(200.	l ^z = 819	6		
Test for overall effect: Z:	= 9.68 (F	o.01	0001)						
Total (95% CI)			249			242	100.0%	1.70 [1.32, 2.08]	•
Heterogeneity: Tau² = 0.	10; Chi²	= 15.9	4, df=	5 (P = 0	.007);	l ^z = 699	6	-	-2 -1 1 1 2
Test for overall effect: Z:	= 8.73 (F	o < 0.01	0001)						-2 -1 U 1 2 Favours [Placebo] Favours [Gel]
Test for subgroup differe	ences: C	:hi² = 4	.12, df	= 1 (P =	0.04),	$I^2 = 75$.7%		ravours [Fracebo] Fravours [Odi]

Supplementary Figure 15: Leave-one-out sensitivity analysis of change (pre-/postinterventional) in sexual pain domain of FSFI.