

## REVIEW - SUPPLEMENTARY MATERIAL

# Does minimally invasive approach using vaginal laser therapy improve outcomes and remain safe for female with stress urinary incontinence? A systematic review and meta-analysis of randomized controlled trials

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## SUPPLEMENTARY TABLE 1.

Search Strategy and results details.

### Search strategy worksheet

Search statement or topic			
Does Minimally Invasive Approach Using Vaginal Laser Therapy Improve Outcomes and Remain Safe for Female with Stress Urinary Incontinence? A Systematic Review and Meta-Analysis of Randomized Controlled Trials			
Major concepts			
Identify the main concepts of your topic.			
1. Participant Involved participants diagnosed with SUI	2. Interventions Implemented any form of vaginal laser therapy as the intervention	3. Outcome Reported at least one of the following outcomes: International Consultation on Incontinence Questionnaire-Urinary Incontinence Short Form (ICIQ-UI SF), Pelvic Organ Prolapse/Urinary Incontinence Sexual Questionnaire (PISQ-12), Female Sexual Function Index (FSFI), or procedure-related adverse events.	
Search strategy			
Use the main concepts and translate these into keywords and synonyms (don't forget about " " and *).			
	<b>Concept 1</b>	<b>AND</b>	<b>Concept 2</b>
	<i>Vaginal Laser</i>		<i>Stress Urinary Incontinence</i>
<b>OR</b>	<i>Vaginal Laser Therapy</i>		<i>SUI</i>
<b>OR</b>	<i>Laser Vagina</i>		
<b>OR</b>			
<b>OR</b>			
<b>OR</b>			
<b>FILTER USED</b>	No automatic filters are used		
<b>RESULT</b>	363 (Pubmed) + 800 (Science Direct) + 571 (Scopus)		

**SUPPLEMENTARY TABLE 2.***List of excluded studies.*

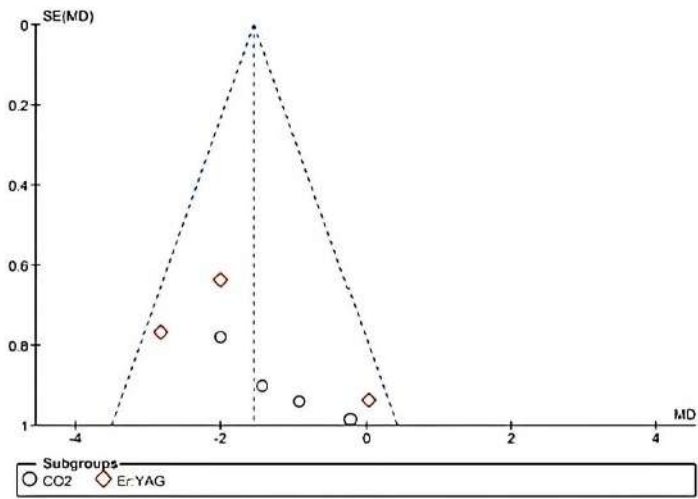
<b>No</b>	<b>Author</b>	<b>Reason</b>	<b>Note</b>
1	O'Reilly et al. (2024) <sup>1</sup>	Insufficient data	Incomplete outcome data
2	Mousa et al. (2021) <sup>2</sup>	Insufficient data	Incomplete outcome data
3	Chinthakanan et al. (2023) <sup>3</sup>	Wrong intervention	Low-energy radiofrequency thermal vaginal therapy
4	De Marchi et al. (2023) <sup>4</sup>	Wrong intervention	Photobiomodulation therapy with static magnetic field alone or with pilates method
5	Okui et al. (2019) <sup>5</sup>	Not an RCT	Uncontrolled clinical study
6	Wang et al. (2023) <sup>6</sup>	Foreign language	Chinese language

**SUPPLEMENTARY FIGURE 1.**

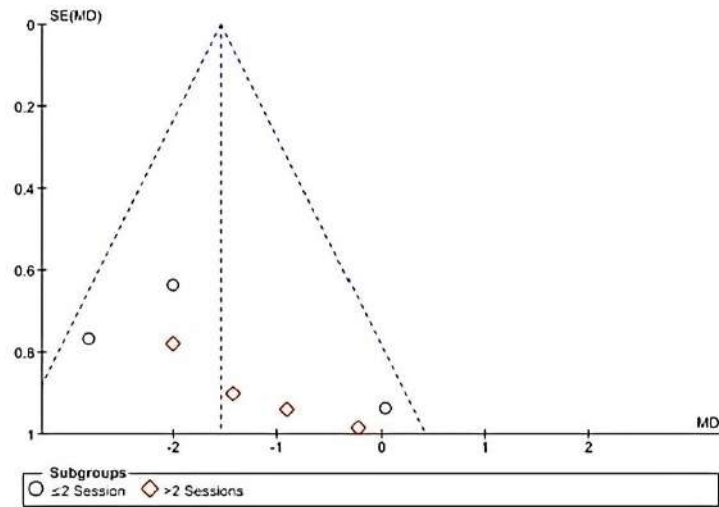
Funnel plots of ICIQ-UI SF outcome.

- (A) Laser type subgroup;
- (B) Treatment session subgroup;
- (C) Follow-up duration subgroup.

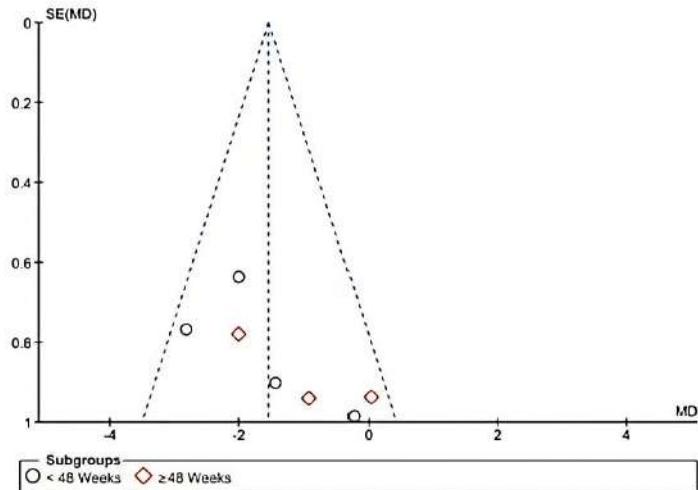
**(A) ICIQ-UI SF (Laser Type Subgroup)**



**(B) ICIQ-UI SF (Treatment Session Subgroup)**

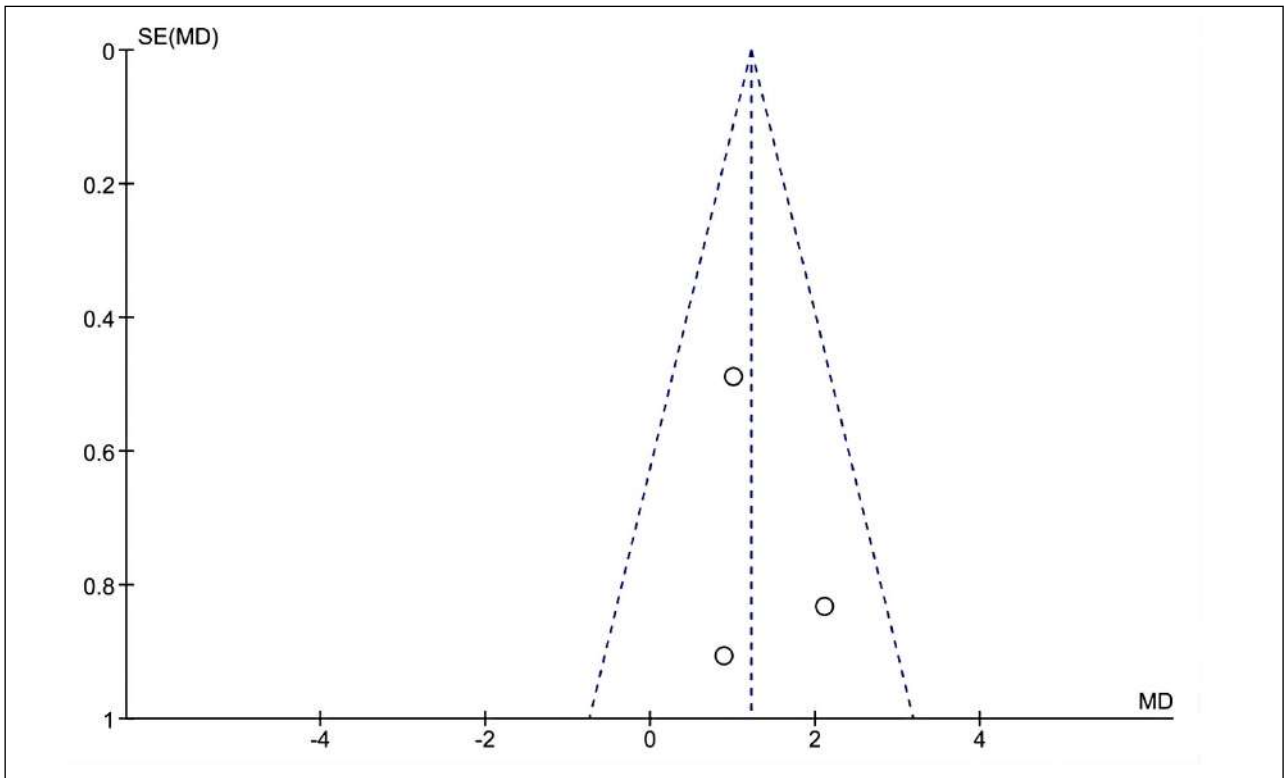


**(C) ICIQ-UI SF (Follow-up Duration Subgroup)**



**SUPPLEMENTARY FIGURE 2.**

*Funnel plot of PISQ-12 outcome.*



**SUPPLEMENTARY FIGURE 3.**

*Funnel plot of FSFI outcome.*

