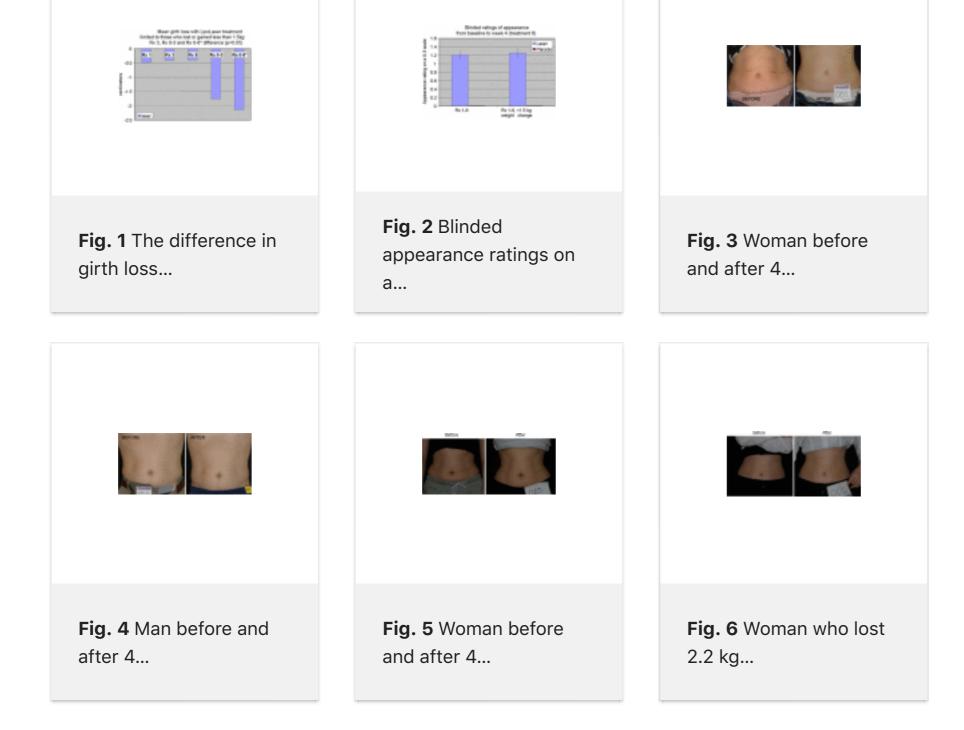


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Mary K Caruso-Davis <sup>1</sup> , Thomas S Nikhil V Dhurandhar, Olga Dubuiss	S Guillot, Vinod K Podichetty, Nazar Mashtalir, son, Ying Yu, Frank L Greenway	ACTIONS	
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Abstract			
scientific studies of its efficacy an body contouring are lacking. This	apy (LLLT) is commonly used in medical applications, but d the mechanism by which it causes loss of fat from fat cells for study examined the effectiveness and mechanism by which 635– ve body contouring intervention method.	PAGE NAVIGATION	
	women ages 18–65 years with a BMI <30 kg/m2 were randomized ubject's waistlines were treated 30 min twice a week for 4 weeks.	Abstract	
Standardized waist circumference	measurements and photographs were taken before and after ere asked not to change their diet or exercise habits. In vitro	Figures	
assays were conducted to determ	ine cell lysis, glycerol, and triglyceride release.	Similar articles	
of the study. Each treatment gave	nose with body weight fluctuations within 1.5 kg during 4 weeks a 0.4–0.5 cm loss in waist girth.Cumulative girth loss after 4	Cited by	
evaluation of standardized picture	2 vs. 1.35 ± 2.64 cm for the control group,p < 0.05). A blinded s showed statistically significant cosmetic improvement after 4	Publication types	
	studies suggested that laser treatment increases fat loss from des, without inducing lipolysis or cell lysis.	MeSH terms	
<b>Conclusions:</b> LLLT achieved safe and significant girth loss sustained over repeated treatments and cumulative over 4 weeks of eight treatments. The girth loss from the waist gave clinically and statistically significant cosmetic improvement.		Substances	
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# Similar articles

Efficacy of a multiple diode laser system for body contouring. Elm CM, Wallander ID, Endrizzi B, Zelickson BD. Lasers Surg Med. 2011 Feb;43(2):114-21. doi: 10.1002/lsm.21016. PMID: 21384392 Clinical Trial.

Low-level laser therapy for fat layer reduction: a comprehensive review. Avci P, Nyame TT, Gupta GK, Sadasivam M, Hamblin MR. Lasers Surg Med. 2013 Aug;45(6):349-57. doi: 10.1002/lsm.22153. Epub 2013 Jun 7. PMID: 23749426 Free PMC article. Review.

Low-level laser therapy (LLLT) does not reduce subcutaneous adipose tissue by local adipocyte injury but rather by modulation of systemic lipid metabolism. Jankowski M, Gawrych M, Adamska U, Ciescinski J, Serafin Z, Czajkowski R. Lasers Med Sci. 2017 Feb;32(2):475-479. doi: 10.1007/s10103-016-2021-9. Epub 2016 Jul 6. PMID: 27384041 Free PMC article. Clinical Trial.

1060 nm Diode Hyperthermic Laser Lipolysis:The Latest in Non-Invasive Body Contouring. Schilling L, Saedi N, Weiss R. J Drugs Dermatol. 2017 Jan 1;16(1):48-52. PMID: 28095532 Review.

A double-blind, placebo-controlled randomized trial evaluating the ability of low-level laser therapy to improve the appearance of cellulite. Jackson RF, Roche GC, Shanks SC. Lasers Surg Med. 2013 Mar;45(3):141-7. doi: 10.1002/lsm.22119. PMID: 23508376 Clinical Trial.

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### Cited by 23 articles

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Meneses-Santos D, Costa MDMA, Inocêncio GSG, Almeida AC, Vieira WA, Lima IFP, Paranhos LR. Lasers Med Sci. 2022 Apr;37(3):1471-1485. doi: 10.1007/s10103-021-03467-y. Epub 2021 Nov 17. PMID: 34791563 Review.

The Effect of Laser Therapy Along With Mediterranean Diet Versus Mediterranean Diet Only on Older Adults With Non-alcoholic Fatty Liver Disease: A Randomized Clinical Trial. Nagy EN, Ibrahim FM, Jouda AA, Elsayed MM.

J Lasers Med Sci. 2021 Jul 24;12:e39. doi: 10.34172/jlms.2021.39. eCollection 2021. PMID: 34733762 Free PMC article.

# A Midwest COVID-19 Cohort for the Evaluation of Multimorbidity and Adverse Outcomes from COVID-19.

Nanda S, Toussaint L, Vincent A, Fischer KM, Hurt R, Schroeder DR, Chacin Suarez AS, Medina Inojosa JR, O'Horo JC, DeJesus RS, Abu Lebdeh HS, Mundi MS, Iftikhar S, Croghan IT. J Prim Care Community Health. 2021 Jan-Dec;12:21501327211010991. doi: 10.1177/21501327211010991.

PMID: 33855875 Free PMC article.

#### Efficacy and safety of a novel combined 1060-nm and 635-nm laser device for noninvasive reduction of abdominal and submental fat.

Moon IJ, Choi JW, Jung CJ, Kim S, Park E, Won CH.

Lasers Med Sci. 2022 Feb;37(1):505-512. doi: 10.1007/s10103-021-03288-z. Epub 2021 Apr 2. PMID: 33797649 Clinical Trial.

# Photobiomodulation therapy increases collagen II after tendon experimental injury.

Akamatsu FE, Teodoro WR, Itezerote AM, da Silveira LKR, Saleh S, Martinez CAR, Ribeiro ML, Pereira JA, Hojaij F, Andrade M, Jacomo AL.

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- > Adult
- > Aged
- > Body Fat Distribution\*
- > Cosmetic Techniques\*
- > Double-Blind Method
- > Female
- > Humans
- > Lasers, Semiconductor / therapeutic use\*
- > Lipolysis / radiation effects
- > Low-Level Light Therapy\*

> Male

> Middle Aged

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