

12-14 settembre 2024 Bologna



SUPPLEMENTI DIETETICI NELLA GESTIONE DEL FOOD CRAVING E DEL SENSO DI SAZIETÀ

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Il sottoscritto Federica Fogacci

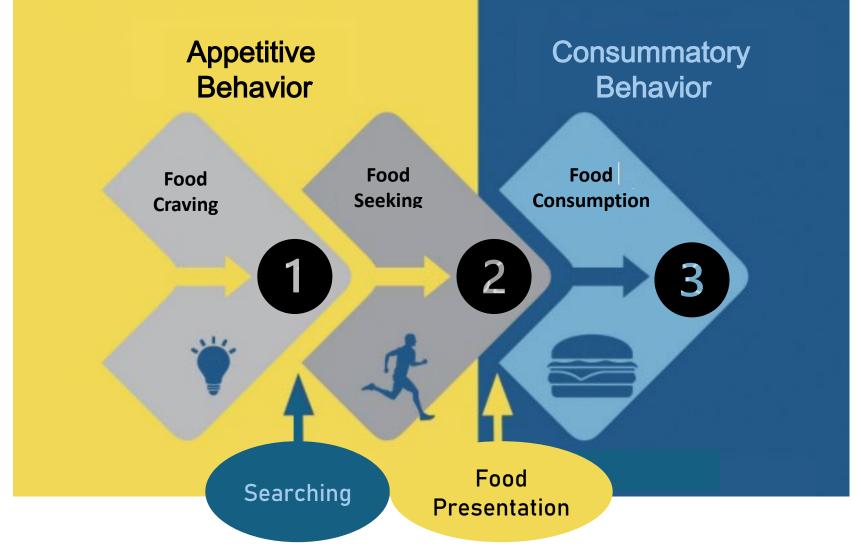
ai sensi dell'art. 3.3 sul Conflitto di Interessi, pag. 17 del Reg. Applicativo dell'Accordo Stato-Regione del 5 novembre 2009,

dichiara

che negli ultimi due anni NON ha avuto rapporti diretti di finanziamento con soggetti portatori di interessi commerciali in campo sanitario



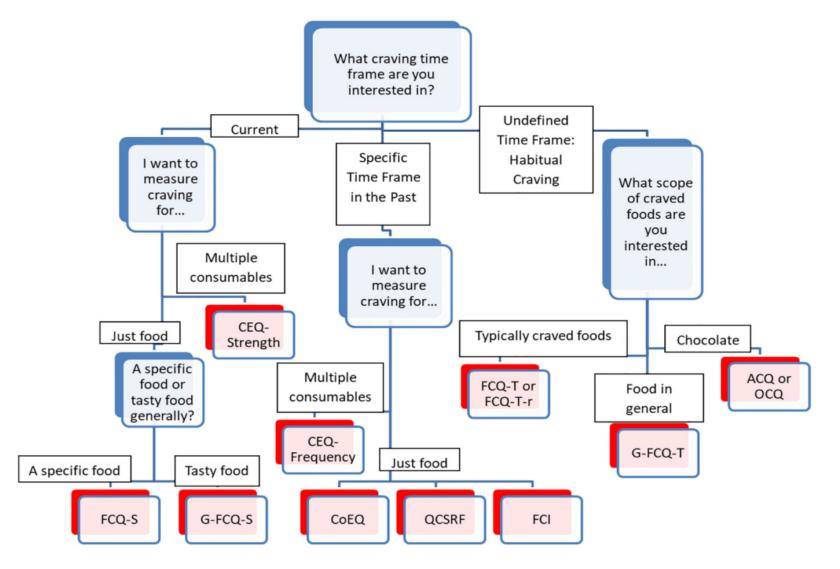




- Food cravings may be defined as intense desires or urges for a particular type of food
- Food craving may include intense and intrusive thoughts and multisensory imagery of a food; strong urges to seek and consume a food, perception of poor selfcontrol with the food, and anticipation of positive and/or negative reinforcement if one eats the food
- State food cravings are regularly experienced by individuals with and without eating disorders







Decision making tree to select a measure of food craving

A key limitation of self-report questionnaires is that they are subject to social desirability bias and demand characteristics. Also, the validity of these questionnaires may be limited because respondents may have different interpretation of items and response options. A third potential problem, relevant to measures assessing past experience of craving, are deficits in retrospective recall



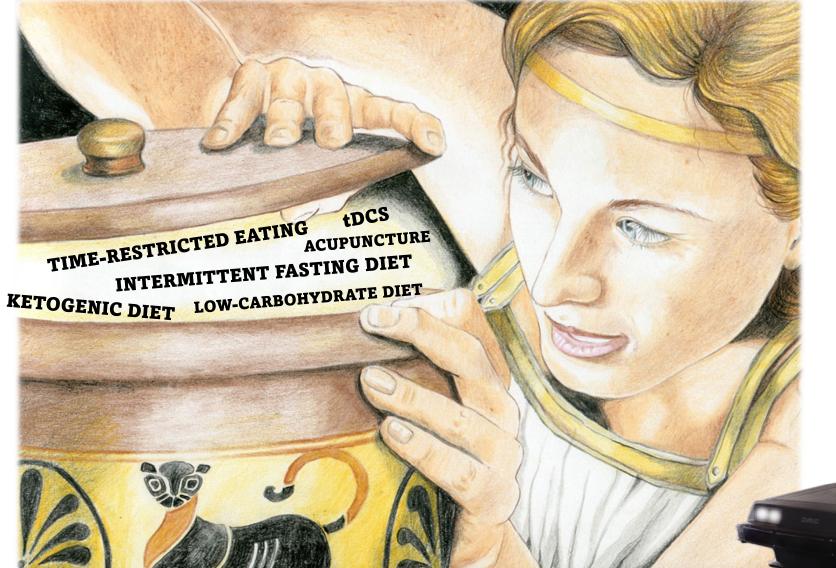


- People typically report craving highly processed, palatable foods that contain high levels of refined carbohydrates, sugar, and/or fat
- Higher levels of craving intensity are associated with more consumption of snacks and this relationship is moderated by trait craving, with higher trait cravers showing higher levels of snack consumption
- Frequent and intense food cravings may serve as an impediment to psychological and emotional wellness, personal nutrition, health, and/or physical appearance goals









Once Pandora's box is open, there is no going back!

Nutraceuticals for Food Craving: a Story of Defeats

12-14 settembre 2024 Bologna



A placebo controlled randomized clinical trial of *Crocus sativus* L. (saffron) on depression and food craving among overweight women with mild to moderate depression

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Shahin Akhondzadeh PhD¹ | Seyed-Ali Mostafavi PhD¹ Mohammad Reza Mohammadi MD¹ Mohammad Reza Eshraghian PhD³

Seyed Ali Keshavarz PhD²

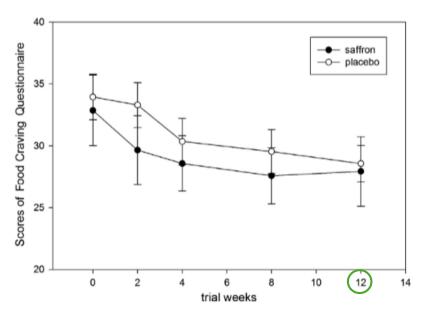


Inclusion Criteria:

- Women
- BMI ≥ 25 Kg/m²
- Major depressive disorder

Exclusion Criteria:

- Severe depression
- Other severe psychiatric disorders
- Treatment with medications which may affect the appetite and body weight



- Saffron capsule (30 mg/day *Crocus* Sativus L.) was not effective in reducing food craving or body weight, but as a safe over-the-counter supplement
- It may be helpful in patients with depression and BMI ≥ 25 Kg/m² for decreasing the symptoms of depression





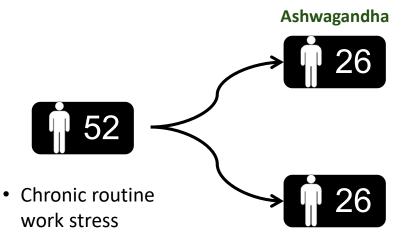


Body Weight Management in Adults Under Chronic Stress Through Treatment With Ashwagandha Root Extract: A Double-Blind, Randomized, Placebo-Controlled Trial

Placebo



Ashwagandha (Withania somnifera)



• BMI ≥ 25 Kg/m²

 Ashwagandha root extract (300 mg; containing 5% withanolides) resulted in a marked reduction of mean scores on the Perceived Stress Scale at both 4 and 8 weeks, compared with baseline values and placebo group

 Food Craving (FCQ-T assessed) also showed significantly greater improvement in the treatment group than the placebo group





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ORIGINAL ARTICLE

Effect of a combined mulberry-sage dietary supplement on food craving and body weight: a pilot clinical trial

Federica Fogacci^{1,2}, Maddalena Veronesi¹, Antonio Di Micoli¹, Marilisa Bove¹, Arrigo FG Cicero^{1,2}

¹Hypertension and cardiovascular risk research group, Medical and Surgical Sciences Dept., Alma Mater Studiorum University of Bologna, Bologna, Italy; ²Italian Society of Nutraceuticals (SINut), Bologna, Italy





EFFECT OF MULBERRY AND SAGE ON FOOD CRAVING AND BODY WEIGHT A PILOT CLINICAL STUDY Diet RESULTS • Improvement in FCQ-T^(*) Follow-up: • Improvement in SF-36 (*) 56 DAYS • \downarrow Fat Mass (%) ^(*) • 18-65 years • ↓ BMI • BMI ≥ 25 Kg/m² **Diet + Dietary** • Food Craving ... with an **optimal tolerability** profile! Supplement

This approach can support body weight loss by decreasing food craving in healthy overweight individuals

Fogacci F, et al. Progr Nutr [Internet]. 2023;25(3):e2023047



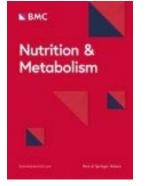


IMPROVE GLUCOSE CONTROL

REDUCE SERUM MARKERS OF INFLAMMATION

REDUCE PLASMA LIPIDS

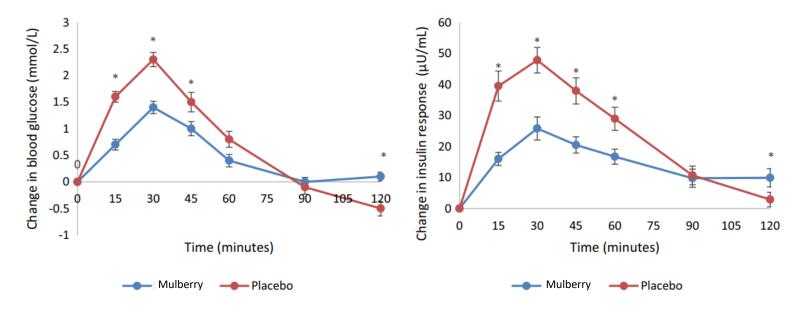
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RESEARCH

Mulberry leaf extract improves glycaemic response and insulaemic response to sucrose in healthy subjects: results of a randomized, double blind, placebo-controlled study

Pariyarath Sangeetha Thondre¹, Helen Lightowler¹, Lis Ahlstrom¹ and Andrew Gallagher^{2*}¹⁰

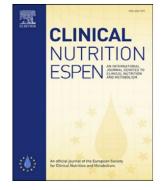




Open Access

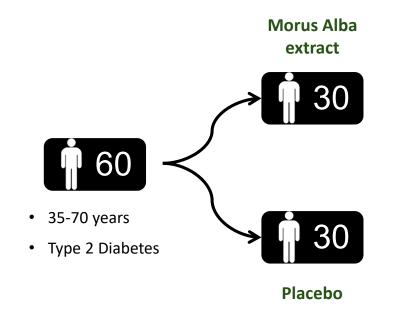
- The results showed a clear and significant effect of 250 mg white mulberry leaf extract to decrease both glucose and insulin concentrations following a sucrose challenge in normoglycemic individuals (n= 37)
- Both the peak blood glucose and blood insulin levels were lowered, as was the total postprandial glucose and insulin levels, as represented by iAUC

Scient Haliana di Autracentica 12-14 settembre 2024 Bologna



Morus Alba leaf extract affects metabolic profiles, biomarkers inflammation and oxidative stress in patients with type 2 diabetes mellitus: A double-blind clinical trial

Mohsen Taghizadeh, Azam Mohammad Zadeh, Zatollah Asemi, Amir Hosein Farrokhnezhad, Mohammad Reza Memarzadeh, Zarin Banikazemi, Mohammad Shariat, Rana Shafabakhsh^{*}



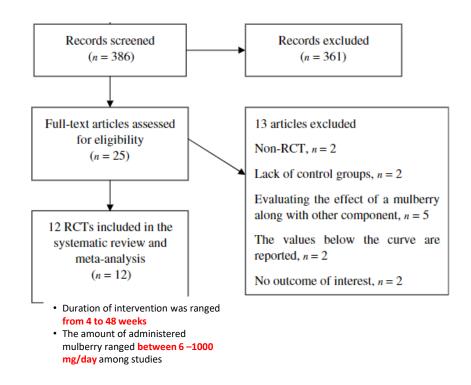
- This study was carried out to determine the effect of 12-week administration of Morus Alba extract (300 mg twice a day) on liver enzymes, biomarkers of inflammation and oxidative stress, insulin metabolism and lipid profiles in patients with T2DM
- Morus Alba extract had beneficial effects on HDLcholesterol, insulin and MDA levels, but did not affect other metabolic profiles

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Impact of mulberry consumption on cardiometabolic risk factors: A systematic review and meta-analysis of randomized-controlled trials

Xibin Chen MD¹ | Mohammad Hassan Sohouli PhD² | Mahsa Nateghi MSc³ | Ebru Melekoglu PhD⁴ | Somaye Fatahi PhD³



- The present systematic review and meta-analysis of controlled clinical trials found that mulberry consumption significantly reduced HbA1c. Moreover, mulberry consumption beneficially reduced total cholesterol, LDL-C, and TG. Lastly, mulberry consumption favourably decreased CRP inflammatory marker as a predictor of CVD
- Subgroup analysis results showed that mulberry consumption >300 mg/day and ≤6 weeks resulted in greater reductions in total cholesterol, TG, and LDL-C levels. Also, >300 mg daily intake of mulberry exhibited a favourable effect on serum HDL-C





IMPROVE GLUCOSE CONTROL

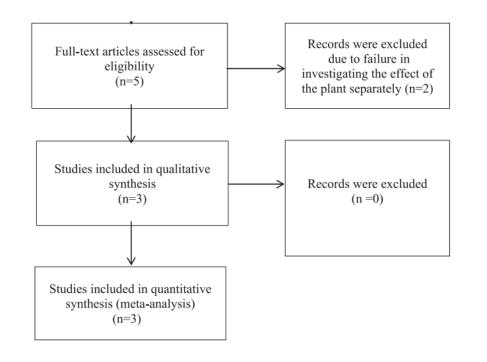
REDUCE PLASMA LIPIDS





Ali Abdollahi, Faeze Adelibahram, Nafiseh Ghassab-Abdollahi, Mostafa Araj-khodaei, Zahra Parsian and Mojgan Mirghafourvand*

The effect of *Salvia officinalis* on blood glycemic indexes and blood lipid profile in diabetic patients: a systematic review and meta-analysis



First author (year)	Country	Type of clinical trial	Sample size	participants,	Intervention (dosage + months of treatment)	Comparison (dosage + months of treatment)	Duration of follow up
Behradmanesh et al. (2013)	Iran	RCT	Salvia offi- cinalis group = 40 Placebo group = 40	40–60	Salvia officinalis tab- lets (150 mg extract) 3 times a day for 3 months	Placebo 3 times a day	3 months
Kianbakht et al. (2013)	Iran	RCT	Salvia offi- cinalis group = 44 Placebo group = 42	40–60	Salvia officinalis leaf extract (one 500 mg capsules) 3 times a day for 3 months	Placebo 3 times a day	3 months
Kianbakht et al. (2016)	Iran	RCT	Group:105 Salvia offi- cinalis group = 52 Placebo group = 53	40–60	Salvia officinalis cap- sules(contained 500 mg of the extract powder) every 8 h (3 times a day) for 2 months	Placebo capsule every 8 h for 2 months	2 months

Abdollahi A, et al. J Complement Integr Med. 2022 Jan 25;20(3):521-529







Ali Abdollahi, Faeze Adelibahram, Nafiseh Ghassab-Abdollahi, Mostafa Araj-khodaei, Zahra Parsian and Mojgan Mirghafourvand*

The effect of *Salvia officinalis* on blood glycemic indexes and blood lipid profile in diabetic patients: a systematic review and meta-analysis

The results of meta-analysis showed that S. officinalis has significant effect on :

- FBS (mg/dL) (n=3 studies; MD: -31.15; 95% CI: -37.56 to -24.73; p<0.00001)
- HbA1c (%) (n=2 studies; MD: -0.94; 95% CI: -1.25 to -0.63; p<0.00001)
- Total Cholesterol (mg/dL) (n=3 studies; MD: -43.64; 95% CI: -83.26 to -4.02; p=0.03)
- Triglycerides (mg/dL) (n=3 studies; MD: -39.78; 95% CI: -85.69 to 6.12; p=0.09)
- LDL-C (mg/dL) (n=3 studies; MD: -19.23; 95% CI: -35.81 to -2.65; p=0.02)
- HDL-C (mg/dL (n=3 studies; MD: 6.15; 95% CI: -1.73 to 14.03; p=0.13)
- 2-HPPG (mg/dL) (n=2 studies; MD: -49.24; 95% CI: -62.39 to -36.08; p<0.00001)

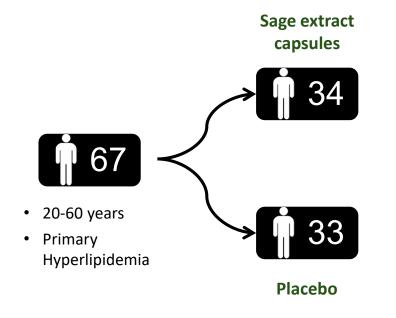






Antihyperlipidemic Effects of *Salvia officinalis* L. Leaf Extract in Patients with Hyperlipidemia: A Randomized Double-Blind Placebo-Controlled Clinical Trial

S. Kianbakht,¹* B. Abasi,² M. Perham³ and F. Hashem Dabaghian⁴

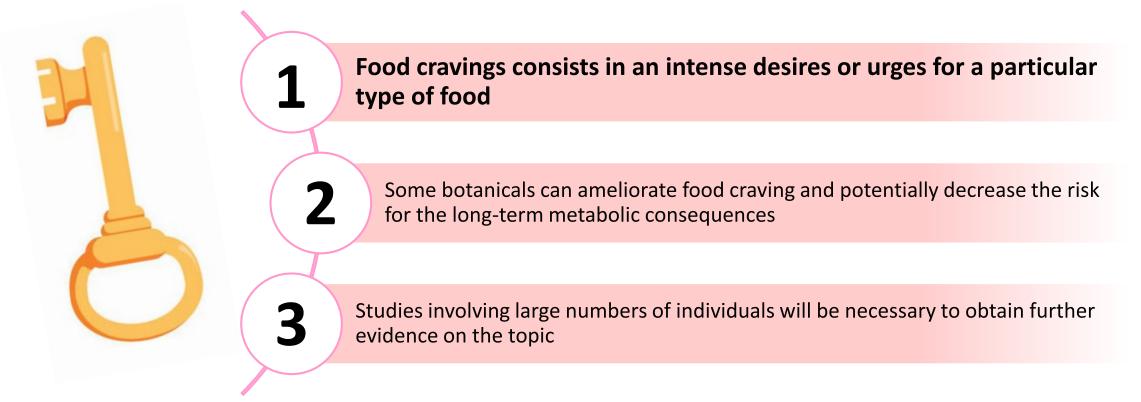


- Total cholesterol, TG, LDL-C and VLDL-C levels decreased, whereas HDL-C levels increased in the sage group after 4 months compared to the baseline and compared to placebo
- No adverse effects were reported by patients





TAKE HOME MESSAGES



THANKS FOR YOUR ATTENTION

... any question? E-mail me!



