



Health benefits of olive products:

Tips and resources for communication

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Outline

- What is the Olive Wellness Institute (OWI)?
- Recent activity
- Health benefits
- Tips for how to communicate



Olive Wellness Institute background



- Funded by Hort Innovation
- Launched in 2018
- Target audience = health professionals
 - Food service professionals
 - Growers and processors

About the Olive Wellness Institute

The Olive Wellness Institute is a science repository on the nutrition, health and wellness benefits of olives and olive products, which is all subject to extensive peer review. The institute is guided by scientific experts that specialise in the nutrition, health and wellness benefits related to olive products



All information developed and distributed by the Olive Wellness Institute is subject to extensive review by the Advisory Panel as a result of our evidence based, science-first approach.



EVIDENCE BASED

The Olive Wellness Institute is strictly committed to delivering evidence-based information informed by high-level research standards.



The Olive Wellness Institute is guided by leading scientists, researchers and health professionals who have research

expertise in olives, olive oil and its uses in traditional diets.





www.olivewellnessinstitute.org

Downloadable resources





Extensive information on:

- ✓ Health benefits
- ✓ Extra virgin olive oil
- ✓ Olive leaf extract
- ✓ Olive leaf tea
- ✓ The Mediterranean Diet
- ✓ Cooking with EVOO

Baked Truffle Cauli Mac and Cheese

₩Ŷ · Vegetarian

Recipes



Lemon Almond Bliss Balls

ΨΟ · Desserts · Quick & Easy · Vegetarian

Latest research



The anti-inflammatory effects of a Mediterranean Diet: a review

Cardiovascular Health • Inflammation • Mediterranean Diet



Extra virgin olive oil: A comprehensive review of efforts to ensure its authenticity, traceability, and safety

■ · Extra Virgin Olive Oil

Blogs



Busting the myth that the Mediterranean Diet is too expensive

Mediterranean Diet



What is the best cooking oil for endometriosis?

Antioxidant · Inflammation · Mediterranean Diet









Recent OWI Activities



Virtual Sensory Kit



What factors influence the sensory characteristics of EVOO?

Influences

Flavour

Detecting poor quality

Conducting a tasting

Types of EVOO

What factors influence the sensory characteristics of EVOO

X Variety of olive

- Different varieties of olives have different sensory characteristics, and the type of olive that is used to make an oil has the biggest impact on the flavour.
- · Some varieties of olives taste more bitter or peppery, while some taste grassy and others buttery
- The combination and blending of different olive varieties into extra virgin olive oil can form new aromas, tastes and ultimately
 the overall flavour.

A Maturity at harvest

- · An olive that is unripe when harvested will likely have more pungency and bitterness, and will develop greener flavours
- · Olives that are ripe when harvested are generally less bitter and have a milder and more buttery flavour with riper fruit notes

-o- Climate and weather

- · Where the olives are grown can also affect the sensory characteristics of an oil, although not as much as other factors.
- Different climates have different levels of moisture in the air, and the soil composition and moisture levels may also be different. Temperatures during oil accumulation period is arguably the most important environmental factor affecting olive oil characteristics.

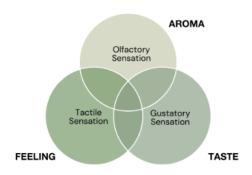
Other factors that can affect the sensory characteristics of extra virgin olive oil include the irrigation practices, and the process of extraction including the method and the temperatures used







The overall flavour of an extra virgin olive oil is influenced by a combination of sensory factors, including the aroma, the taste and the 'mouthfeel' or 'feeling'. The flavour of extra virgin olive oil can vary significantly between different products and may range from light through to robust. No matter the style of extra virgin olive oil, the flavour should always be fresh, and it should never leave your mouth feeling fatty or oily.



Flavour



Aroma refers to the pleasant sensations perceived by the olfactory organ when tasting food.

In extra virgin olive oil, the aroma should be very pleasant and enticing; predominantly of olive fruitiness, the sensation reminiscent of healthy fresh fruit collected at the optimum harvesting time. The aroma can be intense, like dark greens, sorrel, grassy, herbaceous, green banana or tomato, or it can be softer such as apple, pear, fresh nuts and tropical fruit.

The aroma should be balanced and harmonious. See below for a list of aromas commonly found in extra virgin olive oil.

List of Aromas

- Almond/Walnut
- Apple/Banana
- Artichoke
- ChamomileCitrus fruit
- Eucalyptus
- Fig leaf
- FlowersGrass
- Exotic fruits
- Soft fruits

- Green pepper
- Herbs
- Olive leaf
- Pear
- Pine kernel
- Ripe fruitiness
- Tomato
- Vanilla
- Candies
- Green fruitiness



How to detect poor quality EVOO

Bad quality olive oil will display what is known as 'defects', which are commonly caused by poor handling of the olives before and during processing and/or poor handling of the oil after processing/storage.

Common causes of defects include:

- The length of time and the temperature the fruit is stored before processing
 - Ideally the fruit should be processed within 4 to 6 hours of harvest
 - Defects caused = Fusty, musty, winey
- The condition of the fruit or any damage to the fruit
 - Defects caused = wet hay, stewed fruit, grubby
- The time and temperature during processing
 - Defects = burnt, overheated, cooked
- The nature of the storage container and the good practices in the storage process
 - Defects = muddy, rancid, metallic

It's important to note that if an oil contains any of the defects listed below, it cannot be called extra virgin olive oil.

How to conduct an EVOO tasting

Step 1: Choose the right glass

- In professional oil tastings, an opaque blue glass is used in order to hide the colour of the oil.
- This is because contrary to popular belief, the colour of the oil does not influence the flavour or the quality
- For at home tasting, it's not necessary to use a blue glass you can use any small glass or even a wine glass

A Step 2: Prepare the oil

- Pour roughly 1 tablespoon of the oil into your glass
- Hold the base of the cup in one hand and use the other to cover the opening
- · Swirl the oil gently a few times
- This warms the oil and allows the aroma to be released

Step 3: Smell

- · Uncover the top of the glass, and take slow deep breaths to evaluate the aroma of the oil
- Sniff gently for no longer than 30 seconds
- For a list of common aromas see the 'flavour' tab.

Step 4: Taste

• Take a small sip of oil and distribute around the mouth. Allow it to spread slowly over the back of the tongue and throat

Extra virgin olive oil varieties

Many people are unaware that there are different 'flavours' or 'varietals' of extra virgin olive oil, but in fact there is a rich diversity of colour, flavour and aroma. Generally, extra virgin olive oil is categorised into three different styles – light, medium and robust. Each of these styles have unique sensory characteristics and can be used for different culinary occasions.

Light/delicate

A light EVOO has a lighter and more subtle taste, and usually uses olives harvested in the later stages of ripeness. The lower polyphenol content means it is less bitter, and less likely to give a 'hard' aftertaste.

- · Flavours and aromas:
 - Ripe fruit and tropical notes
- Absence of "hard" character in the aftertaste
- · Light bitterness and pungency
- Polyphenols <100ppm

Lighter varieties of extra virgin olive oil are perfect for use in baking, as a butter substitute, or when you want the flavour of the other ingredients in the dish to be the star.

Medium/Classic

A medium EVOO generally uses a combination of olives harvested in earlier and mid-stages of ripeness. You may feel a light tingling in the back of the throat when tasting, and the flavour will be more pronounced than in light varieties.

- · Flavours and aromas:
 - Fruity
 - Mix of ripe and green fruit
- Medium/moderate bitterness and pungency
- Phenols 100-250ppm

Webinar series







https://olivewellnessinstitute.org/resources/webinars/



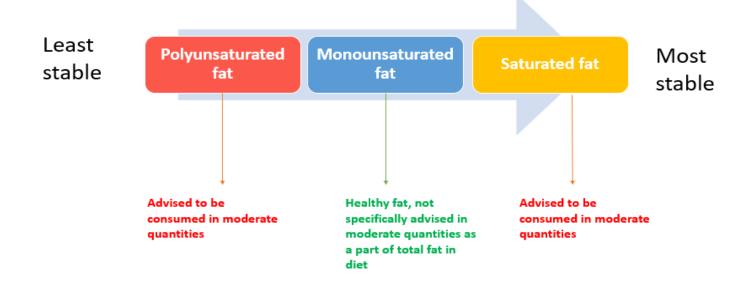
Health benefits of EVOO – a recap



Why is EVOO healthy?

Healthy fat profile = important for cardiovascular health

- High in monounsaturated fats
- No trans fats



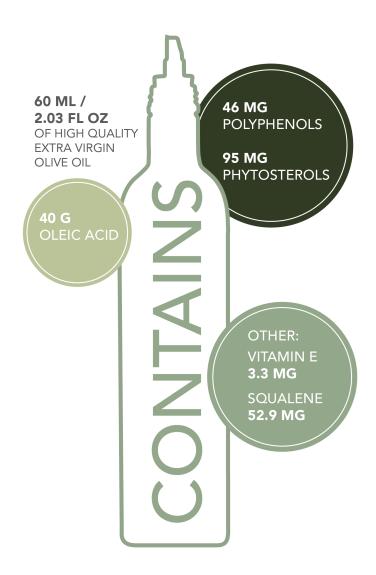
Why is EVOO healthy?

Antioxidants and plant compounds:

- Phenolic compounds
- α -tocopherols
- Squalene

Antioxidants in EVOO have been associated with:

- Heart health
- Reducing inflammation
- Anti aging
- Improvements in mental health







Benefits of EVOO/Mediterranean Diet



- ✓ Heart health
- ✓ Anti ageing
- ✓ Anti inflammatory
- ✓ Weight control
- ✓ Mental health
- ✓ Gut health



Tips for communicating



Highlight new research

Randomized Controlled Trial > Am J Clin Nutr. 2022 Aug 4:116(2):572-580.

The effect of a Mediterranean diet on the symptoms of depression in young males (the "AMMEND: A Mediterranean Diet in MEN with Depression" study): a randomized controlled trial

Jessica Bayes 1, Janet Schloss 2, David Sibbritt 1

Affiliations + expand

PMID: 35441666 DOI: 10.1093/ajcn/nqac106

Abstract

Background: Depression is a common mental health condition that affects 1 in 8 males each year, especially young adults. Young adulthood offers an opportunity for early dietary interventions, with research suggesting that a Mediterranean diet (MD) could be beneficial in treating depression.

Objectives: This study aimed to determine if an MD can improve depressive symptoms in young males with clinical depression.

Methods: A 12-wk. parallel-group. open-label. randomized controlled trial was conducted to assess the effect of an MD intervention in the treatment of moderate to severe depression in young males (18-25 y). Befriending therapy was chosen for the control group. Assessments were taken at baseline, week 6, and week 12. MD adherence was measured with the Mediterranean Diet Adherence Score (MEDAS). The primary outcome measure was the Beck Depression Inventory Scale-version II (BDI-II) and secondary outcome was outlike of life (QoL).

Results: A total of 72 participants completed the study. After 12 wk. the MEDAS scores were significantly higher in the MD group compared with the befriending group (mean difference: 7.8: 95% CE: 7.23, 8.37; P < 0.001). The mean change in BDI-II score was significantly higher in the MD group compared with the befriending group at week 12 (mean difference: 14.4: 95% CE: 11.41, 17.39; P < 0.001). The mean change in QoL score was also significantly higher in the MD group compared with the befriending group at week 12 (mean difference: 12.7: 95% CE: 7.32, 17.48; P < 0.001).

Conclusions: Our results demonstrate that compared with befriending, an ND intervention leads to significant increases in MEDS.4 cercases in BOLT score, and increases in OQL socre. These results highlight the important role of nutrition for the treatment of depression and should inform advice given by clinicians to this specific demographic population. The trial was registered with Australia and New Zealand Chinical Trials Registry (trial ID ACTRIA/251900154515) and has also been registered with the WHO International Clinical Trials Registry Platform (Universal Trial Number U1111-1242-5315)



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New research alert & Rich in extra virgin olive oil, the Mediterranean diet may help to improve depression symptoms in young men!

A recent study of men aged 18-25 confirmed the benefits of the Mediterranean diet as part of a treatment plan - positively affecting those with clinically diagnosed depression.

Proper nutrition plays a crucial role in mental health and should inform clinical advice given to patients looking to improve their quality of life

To read more about this study, click the link: bit.ly/MentalHealthAndTheMediterraneanDiet



> J Am Coll Cardiol. 2022 Jan 18:79(2):101-112. doi: 10.1016/j.iacc.2021.10.041.

Consumption of Olive Oil and Risk of Total and Cause-Specific Mortality Among U.S. Adults

Marta Guasch-Ferré ¹, Yanping Li ², Walter C Willett ³, Qi Sun ⁴, Laura Sampson ², Jordi Salas-Salvadó ⁵, Miguel A Martínez-González ⁶, Meir J Stampfer ³, Frank B Hu ⁷.

ffiliations + expand

PMID: 35027106 PMCID: PMC8851878 (available on 2023-01-18) DOI: 10.1016/j.jacc.2021.10.041

Abstract

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Background: Olive oil consumption has been shown to lower cardiovascular disease risk, but its associations with total and cause-specific mortality are unclear.

Objectives: The purpose of this study was to evaluate whether olive oil intake is associated with total and cause-specific mortality in 2 prospective cohorts of U.S. men and women.

Methods: The authors used multivariable-adjusted Cox proportional-hazards models to estimate HRs for total and cause-specific mortality among 60.582 women (Nurses' Health Study) 1990-2018) and 31.801 men (Health Professionals Follow-up Study. 1990-2018) who were free of cardiovascular disease or cancer at baseline. Diet was assessed by a semiquantitative food frequency questionnaire every 4 years.

Results: During 28 years of follow-up, 36,855 deaths occurred. The multivariable-adjusted pooled HR for all-cause mortality among participants who had the highest consumption of olive oil (>0.5 tablespoon/day or >7 g/d) was 0.81 (95% CE 0.78-0.84) compared with those who never or rarely consumed olive oil. Higher olive oil intake was associated with 19% lower risk of cardiovascular disease mortality (FIR: 0.81; 95% CE 0.75-0.87). This lower risk of cancer mortality (FIR: 0.83; 95% CE 0.78-0.89), 29% lower risk of neurodegenerative disease mortality (FIR: 0.71; 95% CE 0.64-0.78), and 13% lower risk of repiratory disease mortality (HR: 0.72; 0.93). In substitution analyses, replacing 10 g/d of margarine, butter, mayonnaise, and dairy fat with the equivalent amount of olive oil was associated with 8%-34% lower risk of total and cause-specific mortality. No significant associations were observed when olive oil was compared with other regetable oils combined.

Conclusions: Higher olive oil intake was associated with lower risk of total and cause-specific mortality. Replacing margarine, butter, mayonnaise, and dairy fat with olive oil was associated with lower risk of mortality.

Keywords: cause-specific mortality; nutrition; olive oil; plant oils; total mortality.



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780 followers 8mo • 😯

News just in! A thought-provoking new study has just been conducted by the School of Public Health at Harvard, evaluating whether olive oil intake is associated with total and cause-specific mortality in U.S. adults.

Some of the interesting results include:

▲ Consuming more than 1/2 tbsp of olive oil per day is associated with lower risk of death from cardiovascular disease, cancer, neurodegenerative disease and respiratory disease.

▲ Substituting 10 grams/day of other fats, such as margarine, butter & mayonnaise with olive oil is associated with up to a 34% lower risk of death.

Click the link for the findings: https://lnkd.in/g7_pvEqb







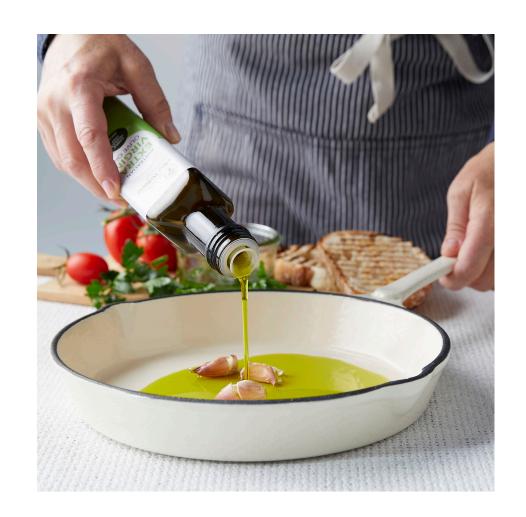
Myth Busting

- Explain the myth
- Use research to back up your points
- Be clear and concise
- Ensure you **repeat the facts** more than the myth!



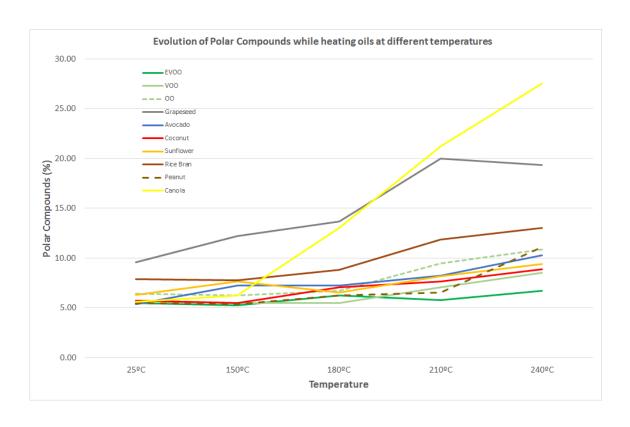
Myth Busting – smoke point and cooking

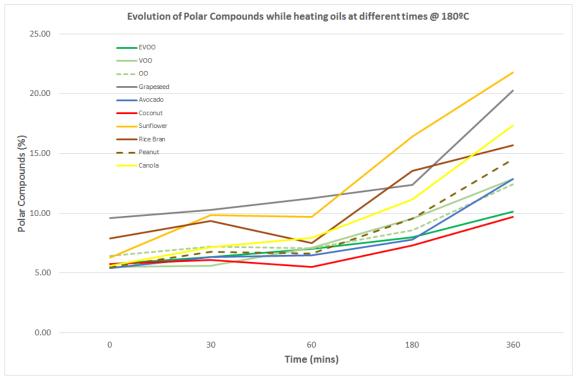
- Smoke point is NOT a good indicator of stability
- Research shows the fatty acid profile and antioxidant content are better predictors of stability
- You can and should cook with EVOO!
- Mediterranean cultures have been cooking with EVOO for thousands of years



Olive Wellness

Myth Busting – smoke point and cooking





Myth Busting – smoke point and cooking

- EVOO is the safest and most stable oil to cook with
 - Produce very few potentially harmful polar compounds – it performed the best in this regard
- Grapeseed oil, canola oil & rice bran oil performed the worst
- Smoke point not best predictor of the oil's performance and stability
- Best predictors of an oils behaviour when heated is
 - Oxidative stability
 - More antioxidants = better
 - amount of PUFA fat (lower = better)
 - degree of refining

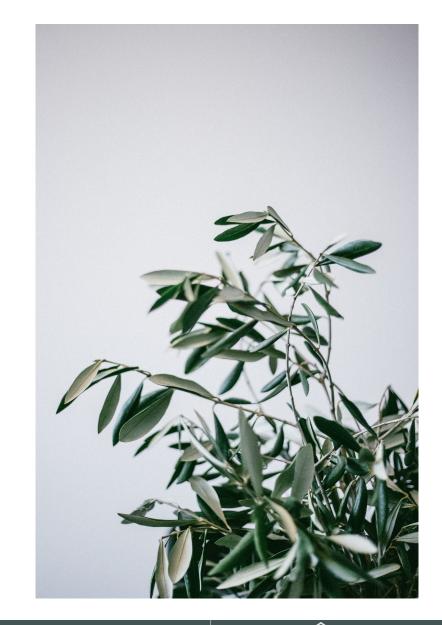






Quick tips

- Make sure you always say Extra virgin olive oil, not just 'olive oil'
- Remember most people don't know what 'EVOO' is
- Focus on a few key messages:
 - VOLUME 2-3TB is associated with health benefits
 - You can and should cook with extra virgin olive oil
 - Choose your message based on audience









Thank you!

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