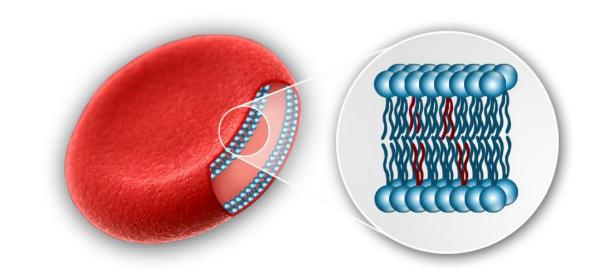
RBC EPA+DHA % of total RBC fatty acids

It is a marker of tissue levels of EPA and DHA... and a modifiable risk factor for multiple chronic diseases

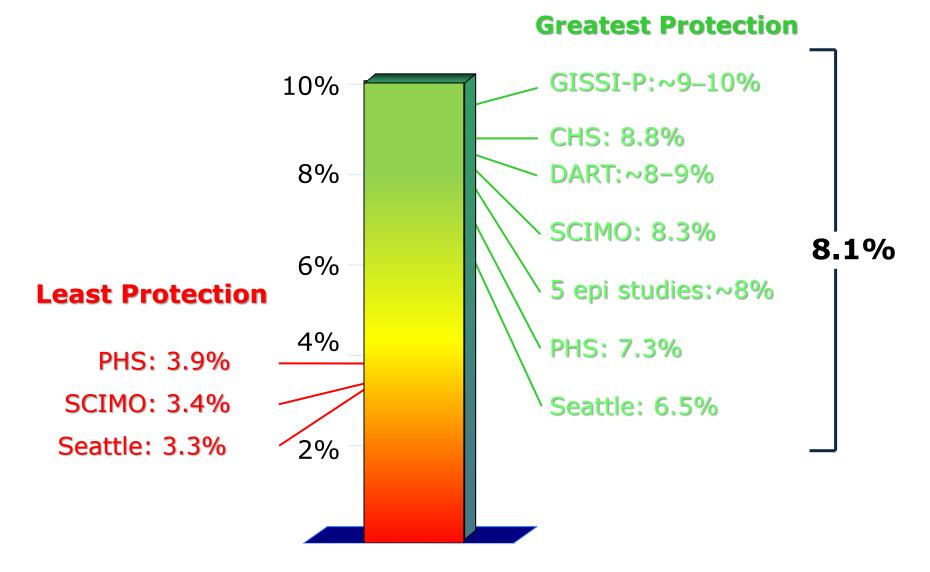
The Omega-3 Index: Biomarker and Risk Factor



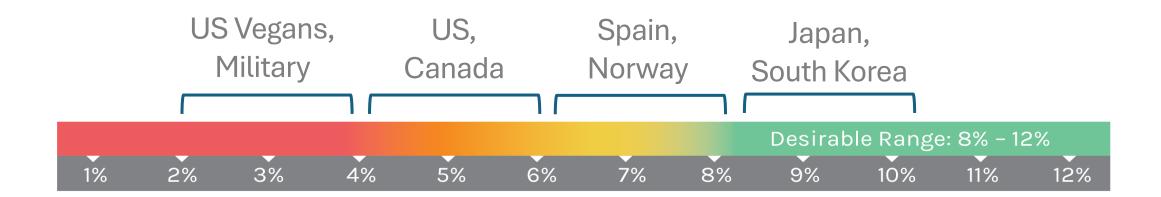
Having an Omega-3 Index in the desirable range (8%-12%) has been associated with improved heart, brain, and eye health.

Harris WS and von Schacky C. Prev Med 2004;39:212-220.

Selecting a target omega-3 index



Typical vs. Desirable Omega-3 Index Levels



Target Omega-3 Index >8%

OmegaQuant Analytics

- Independent, CLIA-certified lab specializing in fatty acid analysis based in Sioux Falls, SD, USA. Lab partner in Europe and Australia.
- Offers nutritional status tests to researchers, healthcare providers, supplement brands, sports teams, wellness facilities, and individuals.
- OmegaQuant offers a variety of blood tests that measure fatty acids (omega-3s, omega-6s, *trans* fats, etc.) from a single drop of blood.
- Our Omega-3 Index blood spot tests have been used by millions of individuals.

OmegaQuant is the Leader in Fatty Acid Research



















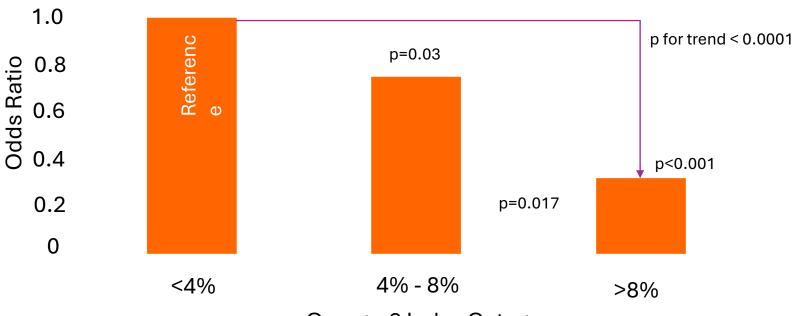




Omega-3 Index and Acute Coronary Syndromes

(768 case-control pairs)

Those with an Omega-3 Index >8% were 70% less likely to be an ACS patient than those with an Index <4%



Omega-3 Index Category

Multivariable logistic regression model including: age; race; gender; history of diabetes mellitus, hypertension, hyperlipidemia and/or myocardial infarction; a family history of coronary artery disease; and LDL-C, HDL-C, and triglycerides.

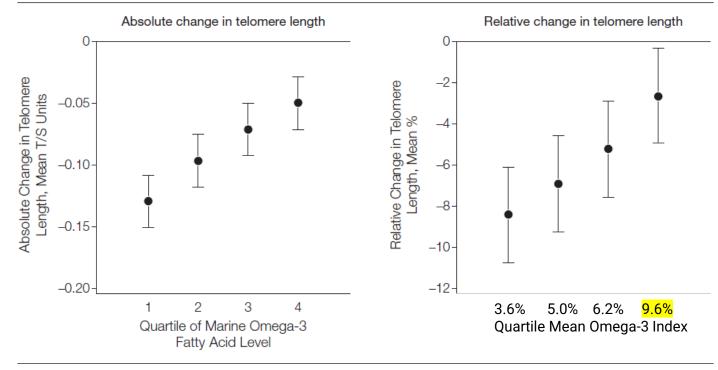
The Heart & Soul Study: Blood Omega-3 and Rate of Telomere Attrition

Patients with the highest Omega-3 Index experienced the slowest rate of telomere shortening (cellular aging)

A 1-SD increase in the O3I was associated with a 32% reduction in the odds of telomere shortening.

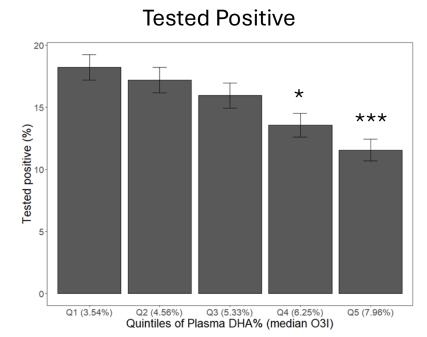
* Extrapolated from whole blood EPA+DHA (r=0.95)

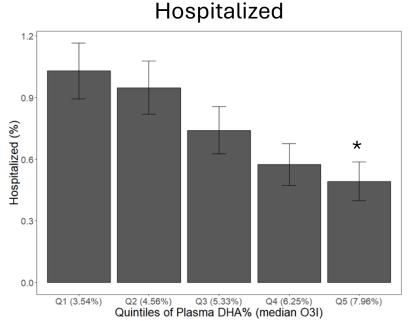
Figure. Absolute and Relative Mean Changes in Telomere Length Over 5 Years by Quartile of Omega-3 Fatty Acid Level, Adjusted for Age and Baseline Telomere Length

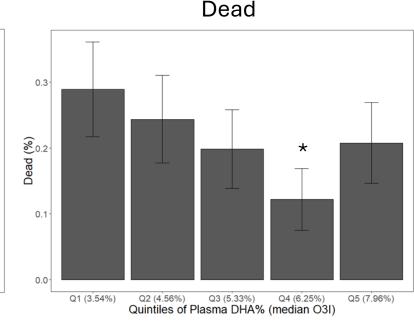


Error bars indicate 95% confidence intervals. T/S indicates telomere-to-single-copy gene ratio. P<.001 for linear trend for both absolute and relative change. See Table 1 for definitions of quartiles.

Relations between the Plasma DHA% and COVID-19 Outcomes UK Biobank







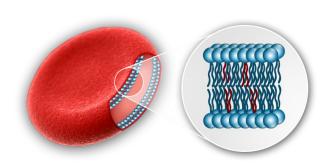
N=4084 of 26,620 tested 8% lower risk per 1 SD DHA%***

N=838 of 110,6888 11% lower risk per 1 SD DHA%**

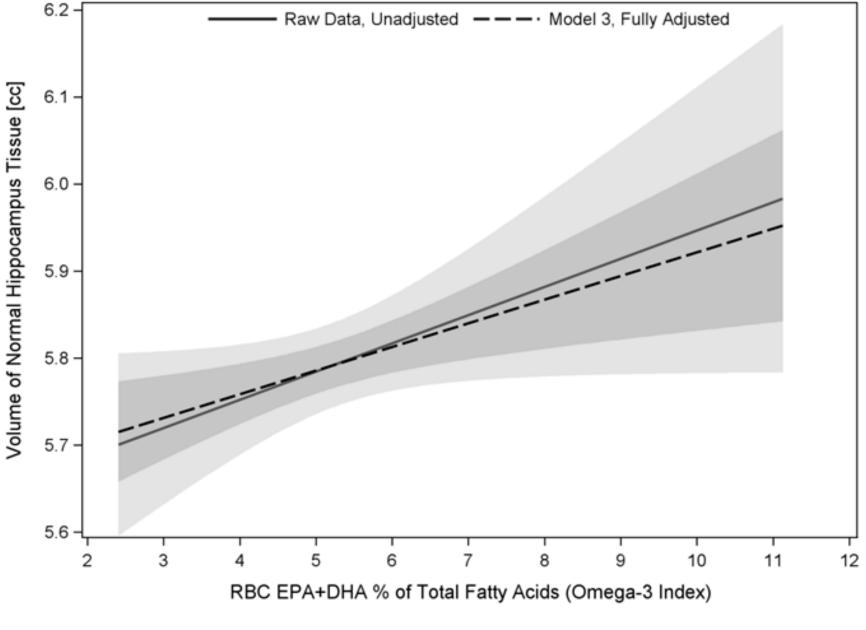
eO3I: Q1=3.54% and Q5=7.96%

N=235 of 110,688 6% lower risk per 1 SD DHA% (NS)

The Omega-3 Index and Hippocampal Volume in the Women's Health Initiative Memory Study



The Omega-3 Index (EPA+DHA as a % of erythrocyte fatty acids) is a marker of tissue levels of EPA and DHA.



Pottala et al. Neurology 2014;82:435–442

Risk for developing Alzheimer's disease over an average of 7.3 years as a function of baseline RBC DHA in Framingham

| | HR (95% CI) for quintiles of red blood cell DHA | | | | | | | |
|---------------------|---|-----------------------------|-----------------------------|-----------------------------|------------------------------|--------|--|--|
| Endpoint | Q1 (<3.8%, | Q2 (3.8% to <4.5%, | Q3 (4.5% to <5.2%, | Q4 (5.2% to 6.1%, | Q5 (>6.1% | _ | | |
| | median = 3.4%) (n = 300) | median = 4.2%) (n = 298) | median = 4.8%) (n = 297) | median = 5.6%) (n = 297) | median = 6.97%) (n = 295) | = 8.13 | | |
| Alzheimer's disease | | | | | - | _ | | |
| N. of cases | 29 | 30 | 24 | 29 | 19 | | | |
| Hazard Ratio | 1.00 | 0.77 (0.45, 1.33) | 0.64 (0.35, 1.18) | 0.75 (0.42, 1.33) | 0.51 (0.27, 0.96) | | | |
| All-cause dementia | | | | | | • | | |
| N. of cases | 35 | 38 | 29 | 40 | 26 | | | |
| Hazard Ratio | 1.00 | 0.79 (0.49, 1.29) | 0.64 (0.37, 1.11) | 0.87 (0.53, 1.44) | 0.56 (0.32, 0.97) | | | |

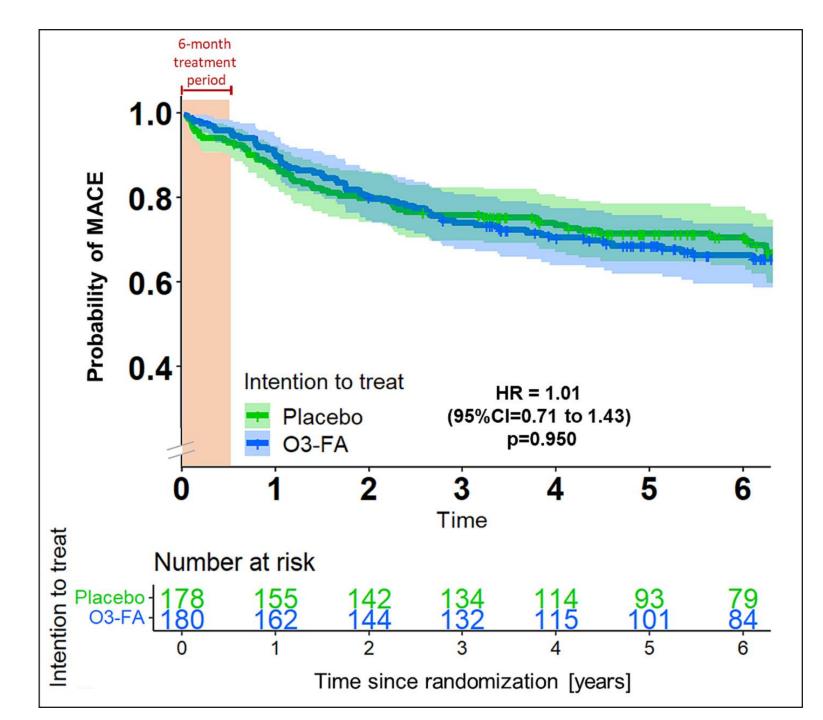
49% lower risk for AD comparing Q5 to Q1

Sala-Vila et al. Nutrients 2022;14:2408

Long-term (6 yr) Major Adverse Cardiac Events (MACE) were compared in post-MI patients assigned to 6 months of treatment with Omacor vs Placebo

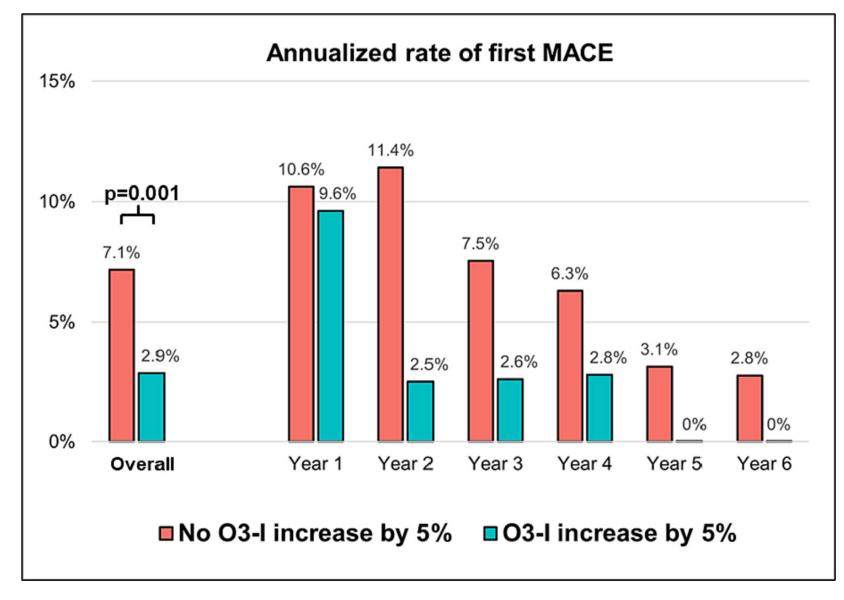
There was no difference in MACE outcomes by treatment group.

Bernhard et al. Int J Cardiology 399 (2024) 131698



There was a 59% reduction in risk for MACE in those who had an **increase** in the O3I ≥5% (n=43) during treatment vs those who did not (n=211).

Achieving target tissue Om3 levels is more important than just being told to take Omega-3.



Commercial Partners Include

























AlgaeCal



Schools and Teams who Trust OmegaQuant



































Omega-3 Index Test Options









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Omega-3 Index Basic Report

NAME: Grace Piattoly

DOB: 03/26/2011

PATIENT ID: TPiattoly

SAMPLE ID: USAF140711

COLLECTION DATE: 01/31/2022

RESULT DATE: 02/08/2022

PROVIDER: Tavis Piattoly

ACCOUNT: Consumer

Your Omega-3 Index

Reference Range*: 3.00% - 14.10%



^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults. Visit our FAQ section for more information on ranges.

The Omega-3 Index is the proportion of long-chain omega-3s, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), of all fatty acids in your red blood cell membranes. It reflects the omega-3 status of your body over the last 4 months, similar to how hemoglobin A1C reflects long-term glucose blood levels. As a part of an overall healthy lifestyle, an Omega-3 Index in the 8-12% range may help to maintain heart, brain, eye and joint health. To increase your Omega-3 Index, eat foods rich in EPA and DHA, especially "oily" fish such as those in the accompanying table. They can also be obtained from dietary supplements (fish, krill, cod liver, algal oils) and functional foods (omega-3 enriched milk, eggs, etc.).

The amount of EPA and DHA needed to raise the Omega-3 Index into the desirable range is different for everybody. Many factors – age, sex, weight, diet, genetics, smoking habits, medications, and other medical conditions – can all influence the body's response to EPA and DHA. Still, we can provide an estimate, based on our own research, of how much EPA and DHA you may need to raise your level to the desirable range given your current Omega-3 Index level. Visit our Omega-3 Index Calculator on OmegaQuant.com to find out your personalized EPA and DHA recommendation.

The other main dietary omega-3 fatty acid, alpha-linoleic acid (ALA), is found in walnuts, flax and chia seeds. ALA can be converted to EPA and DHA in the body, but this happens at a very low rate in most people. An increase in ALA intake will have little to no effect on the Omega-3 Index.

Please consult with your healthcare provider before making any dietary changes. If you increase your intake of EPA and DHA, your Omega-3 Index will begin to slowly go up within a few days but will continue to change for 3-4 months. We recommend that you remeasure your Omega-3 Index in 3-4 months until you reach the desirable range. Once you reach the desirable range for Omega-3 Index, we recommend that you re-test every 6 months. Answers to commonly asked questions about your results can be found in the FAQ section on our website.



Amount of EPA and DHA in Seafood and Supplements

| 3 1 | and supplements | | | | | |
|-----------------------------------|-----------------|------------|----------------|--|--|--|
| Fish and Seafood (3 oz or 85 g) | EPA (mg) | DHA (mg) | EPA + DHA (mg) | | | |
| Pacific Herring | 1056 | 751 | 1807 | | | |
| Atlantic Herring | 773 | 939 | 1712 | | | |
| Atlantic Salmon (wild) | 349 | 1215 | 1564 | | | |
| Bluefin Tuna | 309 | 970 | 1279 | | | |
| Atlantic Salmon (farmed)* | 510 - 587 | 680 - 1238 | 1190 - 1825 | | | |
| Pink Salmon (wild) | 456 | 638 | 1094 | | | |
| Coho Salmon (farmed) | 347 | 740 | 1087 | | | |
| Mackerel (canned) | 369 | 677 | 1046 | | | |
| Sockeye Salmon (wild) | 451 | 595 | 1046 | | | |
| Chum Salmon (canned) | 402 | 597 | 999 | | | |
| Rainbow Trout (farmed) | 284 | 697 | 981 | | | |
| Coho Salmon (wild) | 341 | 559 | 900 | | | |
| Sardines (canned) | 402 | 433 | 835 | | | |
| Albacore (or white) Tuna (canned) | 198 | 535 | 733 | | | |
| Shark (raw) | 267 | 444 | 711 | | | |
| Swordfish | 117 | 579 | 695 | | | |
| Sea Bass | 175 | 473 | 648 | | | |
| Pollock | 77 | 383 | 460 | | | |
| Flat Fish (Flounder/Sole) | 207 | 219 | 426 | | | |
| Blue Crab | 207 | 196 | 403 | | | |
| Halibut | 77 | 318 | 395 | | | |
| Oysters (farmed) | 195 | 179 | 374 | | | |
| King Crab | 251 | 100 | 351 | | | |
| King Mackerel | 148 | 193 | 341 | | | |
| Walleye | 93 | 245 | 338 | | | |
| Dungeness Crab | 239 | 96 | 335 | | | |
| Scallops | 141 | 169 | 310 | | | |
| Skipjack Tuna | 77 | 201 | 278 | | | |
| Mixed Shrimp | 145 | 122 | 267 | | | |
| Clams | 117 | 124 | 241 | | | |
| Yellowfin Tuna | 40 | 197 | 237 | | | |
| Light Chunk Tuna | 40 | 190 | 230 | | | |
| Catfish (wild) | 85 | 116 | 201 | | | |
| Catfish (farmed) | 42 | 109 | 151 | | | |
| Cod | 3 | 131 | 134 | | | |
| Mahi-Mahi (dolphin fish) | 22 | 96 | 118 | | | |
| Tilapia | 4 | 111 | 115 | | | |
| Orange Roughy | 5 | 21 | 26 | | | |

| Dietary Supplements – Amount (mg) per capsule or per teaspoon | | | | | | | | |
|---|---------|---------|---------|--|--|--|--|--|
| Standard Fish Oil Capsules | 180 | 120 | 300 | | | | | |
| Fish Oil Concentrates (many varieties) | 100-400 | 100-400 | 300-700 | | | | | |
| Cod Liver Oil (teaspoon) | 300 | 500 | 800 | | | | | |
| Krill Oil | 100-300 | 50-150 | 150-450 | | | | | |
| Algal Oil | 50-150 | 100-300 | 150-450 | | | | | |

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Omega-3 Index Plus Report

NAME: Tavis Piattoly DOB: 03/25/1976 PATIENT ID: TPiattoly SAMPLE ID: USAE976780 COLLECTION DATE: 01/31/2022 RESULT DATE: 02/08/2022 PROVIDER: Tavis Piattoly ACCOUNT: Consumer

Your Omega-3 Index

Reference Range*: 3.00% - 14.10%



^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults. Visit our FAQ section for more information on ranges.

The Omega-3 Index is the proportion of long-chain omega-3s, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), of all fatty acids in your red blood cell membranes. It reflects the omega-3 status of your body over the last 4 months, similar to how hemoglobin A1C reflects long-term glucose blood levels. As a part of an overall healthy lifestyle, an Omega-3 Index in the 8-12% range may help to maintain heart, brain, eye and joint health. To increase your Omega-3 Index, eat foods rich in EPA and DHA, especially "oily" fish such as those in the accompanying table. They can also be obtained from dietary supplements (fish, krill, cod liver, algal oils) and functional foods (omega-3 enriched milk, eggs, etc.).

The amount of EPA and DHA needed to raise the Omega-3 Index into the desirable range is different for everybody. Many factors—age, sex, weight, diet, genetics, smoking habits, medications, and other medical conditions—can all influence the body's response to EPA and DHA. Still, we can provide an estimate, based on our own research, of how much EPA and DHA you may need to raise your level to the desirable range given your current Omega-3 Index level. Visit our Omega-3 Index Calculator on OmegaQuant.com to find out your personalized EPA and DHA recommendation.

The other main dietary omega-3 fatty acid, alpha-linoleic acid (ALA), is found in walnuts, flax and chia seeds. ALA can be converted to EPA and DHA in the body, but this happens at a very low rate in most people. An increase in ALA intake will have little to no effect on the Omega-3 Index.

Please consult with your healthcare provider before making any dietary changes. If you increase your intake of EPA and DHA, your Omega-3 Index will begin to slowly go up within a few days but will continue to change for 3-4 months. We recommend that you remeasure your Omega-3 Index in 3-4 months until you reach the desirable range. Once you reach the desirable range for Omega-3 Index, we recommend that you re-test every 6 months. Answers to commonly asked questions about your results can be found in the FAO section on our website.



OmegaQuant Analytics 5009 W. 12th St, Suite 7 Sioux Falls, SD 57106 omegaquant.com

Omega Ratios Report

NAME: Tavis Piattoly DOB: 03/25/1976 PATIENT ID: TPiattoly SAMPLE ID: USAE976780 COLLECTION DATE: 01/31/2022 RESULT DATE: 02/08/2022 PROVIDER: Tavis Piattoly ACCOUNT: Consumer

Omega-6:Omega-3

Reference Range*: 2.1:1 - 13.6:1





AA:EPA

Reference Range*: 1.3:1 - 59.9:1







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Trans Fat Index Report

NAME: Tavis Piattoly DOB: 03/25/1976 PATIENT ID: TPIATTOLY SAMPLE ID: USAE976780 COLLECTION DATE: 01/31/2022 RESULT DATE: 02/08/2022 PROVIDER: Tavis Plattoly ACCOUNT: Consumer

Your Trans Fat Index

Reference Range*: 0.30% - 1.70%





* Reference Ranges encompass about 99% of fatty acids levels measured in US adults. Visit our FAD section for more information on ranges.

© OmegaQuant LLC

Tavis Piettoly

Lab Director: Brad Randall, MD.

CLIM#: 4301105229



OmegaQuant Analytics 5009 W. 12th St, Suite 7 Sioux Falls, SD 57106 omegaquant.com

Complete Fatty Acid Report

COLLECTION DATE: 01/31/2022 DOB: 03/05/1982 RESULT DATE: 02/08/2022 PATIENT ID: TPiattoly PROVIDER: Tavis Piattoly SAMPLE ID: USAE960934 ACCOUNT: Consumer

| Fatty Acid Group | Whole Blood Level | Reference Range* 2.80 - 13.90% | | |
|------------------------------------|-------------------|-----------------------------------|--|--|
| Omega-3 Fatty Aci <mark>d</mark> s | 3.74% | | | |
| Omega-3 Index | 3.90% | 3.00 - 14.10% | | |
| Alpha-Linolenic (18:3n3) | 0.40% | 0.12 - 1.51% | | |
| Eicosapentaenoic (EPA, 20:5n3) | 0.51% | 0.18 - 5.91% | | |
| Docosapentaenoic-n3 (22:5n3) | 1.07% | 0.60 - 2,60% | | |
| Docosahexaenoic (DHA, 22:6n3) | 1.76% | 1.13 - 6.07% | | |
| Omega-6 Fatty Acids | 31.42% | 26.20 - 43.50% | | |
| inoleic (18:2n6) | 17.20% | 15.05 - 30.40% | | |
| Samma-Linolenic (18:3n6) | 0.52% | 0.06 - 0.66% | | |
| Elcosadienoic (20:2n6) | 0.27% | 0.10 - 0.40% | | |
| Dihomo-y-linolenic (20:3n6) | 1.74% | 0.56 - 2.30% | | |
| Arachidonic (AA, 20:4n6) | 9.99% | 5.46 - 14.30% | | |
| Docosatetraenoic (22:4n6) | 1.26% | 0.39 - 2.30% 0.10 - 0.75% | | |
| Docosapentaenoic-n6 (22:5n6) | 0.43% | | | |
| cis-Monounsaturated Fatty Acids | 28.81% | 16.10 - 30.20% | | |
| Palmitoleic (16:1n7) | 3.57% | 0.17 - 2.59% | | |
| Oleic (18:1n9) | 24.62% | 14.60 - 28.10% 0.10 - 0.60% | | |
| Eicosenoic (20:1n9) | 0.16% | | | |
| Vervonic (24:2n9) | 0.47% | 0.20 - 1.80% | | |
| aturated Fatty Acids | 35.56% | 30.60 - 41.10% | | |
| Myristic (14:0) | 0.92% | 0.12 - 2.13% | | |
| Palmitic (16:0) | 22.04% | 17.94 - 26.40% | | |
| Stearic (18:0) | 11.41% | 8.80 - 14.40% | | |
| Arochidic (20:0) | 0.20% | 0.10 - 0.50% | | |
| Behenic (22:0) | 0.55% | 0.20 - 1.35% | | |
| Lignoceric (24:0) | 0.45% | 0.23 - 1.80% | | |
| Trans Fatty Acids | 0.47% | 0.30 - 1.90% | | |
| Trans Palmitoleic (16:1n7t) | 0.05% | 0.01 - 0.43% | | |
| Trans Oleic (18:1t) | 0.17% | 0.11 - 1.20% | | |
| Trans Linoleic (18:2n6t) | 0.25% | 0.08 - 0.79% | | |
| Trans Fat Index | 0.42% | 0.30 - 1.70% | | |
| Ratios | | | | |
| AA:EPA | 19.7:1 | 1.3:1-59.9:1 | | |
| Omega-6:Omega-3 | 8.4:1 | 2.1:1-13.6:1 | | |

^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults. Visit our FAQ section for more information on ranges.

4 of 7 Bridget Platfoly Lab Director: Brad Randall, MD.

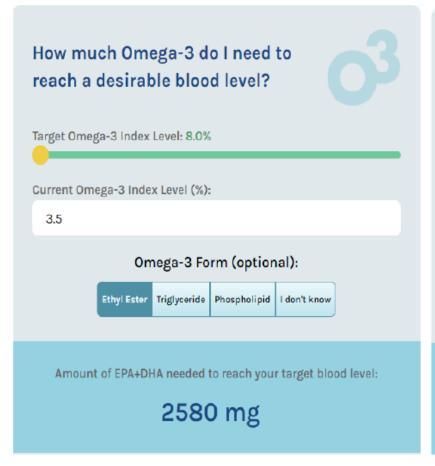
CUA#: 43D1105229 © OmegaQuant LLC

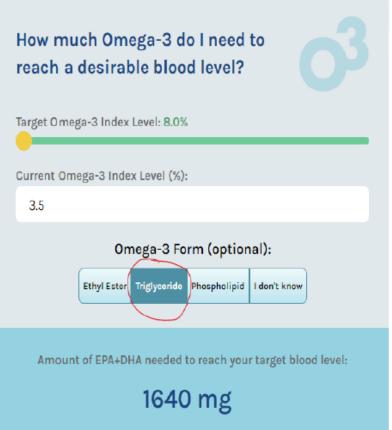
Omega 3 Complete

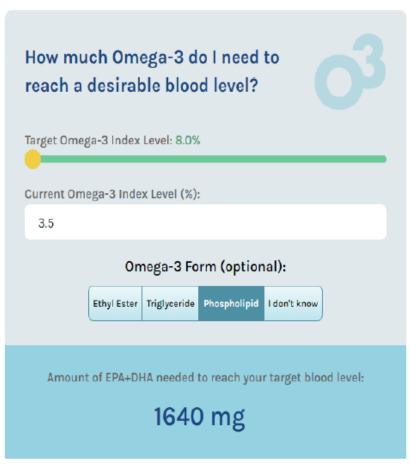
Measures all 24 Fatty Acids In addition to data from

Omega 3 Plus Test

Omega-3 Index Calculator gives guidance on how much omega-3 EPA+DHA is needed to reach a desirable Omega-3 Index







Dosage Guidelines

- Provides HCP with appropriate guidelines for dosing based on test score and fish oil type
- Optimizes Omega 3 Index Score
- Improves health outcomes and corrects Omega 3 deficiency



Omega-3 Index

Dosing Guide for Practitioners

Use the chart below to determine the estimated amount of EPA+DHA in mg per day needed to reach the target Omega-3 Index based on your patient's current level.

This dosing chart is based on research, but is only a guide. Testing and retesting after 3-6 months on the suggested dose is the only way to know if your patient's dietary changes are working.

According to the US Food and Drug Administration, up to 3000 mg per day of EPA + DHA is generally recognized as safe, while the European Food and Safety Administration has set the upper limit at 5000 mg per day of EPA + DHA. This chart does not give dosing recommendations >3000 mg per day.



Ethyl Este

- Standard / highly concentrated fish oil or omega-3 products
- Most pharmaceutical omega-3 products



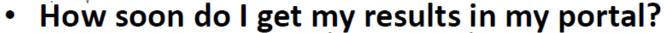
Triglyceride/Phospholipid

- Natural / processed / highly concentrated fish oils (triglyceride)
- Algal oils (triglyceride)
- Krill oil (phospholipid)

| Today's Omega-3 | Target Omega-3 Index | | | | | Target Omega-3 Index | | | | | | |
|--------------------|----------------------|------|------|------|------|----------------------|------|------------------|------|------|------|--|
| Index | 8% | 9% | 10% | 11% | 12% | | 8% | 9% | 10% | 11% | 12% | |
| | EPA + DHA mg/day | | | | | | | EPA + DHA mg/day | | | | |
| 2% | 3000 | 3000 | 3000 | 3000 | 3000 | | 2200 | 3000 | 3000 | 3000 | 3000 | |
| 3% | 3000 | 3000 | 3000 | 3000 | 3000 | | 1800 | 3000 | 3000 | 3000 | 3000 | |
| 4% | 2200 | 3000 | 3000 | 3000 | 3200 | | 1500 | 2300 | 3000 | 3000 | 3000 | |
| 5% | 1700 | 2900 | 3000 | 3000 | 3000 | | 1100 | 1700 | 3000 | 3000 | 3000 | |
| 6% | 1200 | 1900 | 3000 | 3000 | 3000 | | 700 | 1300 | 2000 | 3000 | 3000 | |
| 7% | 800 | 1300 | 2100 | 3000 | 3000 | | 400 | 800 | 1400 | 2200 | 3000 | |
| 8% | D | 800 | 1400 | 2200 | 3000 | | 0 | 400 | 900 | 1400 | 2300 | |
| 9% | D | 0 | 800 | 1400 | 2200 | | 0 | 0 | 400 | 900 | 1400 | |
| 10% | D | 0 | 0 | 800 | 1300 | | 0 | 0 | 0 | 400 | 800 | |
| 11% | D | 0 | 0 | 0 | 800 | | 0 | 0 | 0 | D | 400 | |
| 12% | D | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |

Common Questions

- Shelf life of test kits?
 - 2 to 2 ½ years
- How long is the test sample valid?
 - 30 ďays
- Can I drop ship single test to my patients/customers?
 - Yes no minimum required.
- Can I add additional tests on one card?
 - Can add 2 additional spots for a discount.

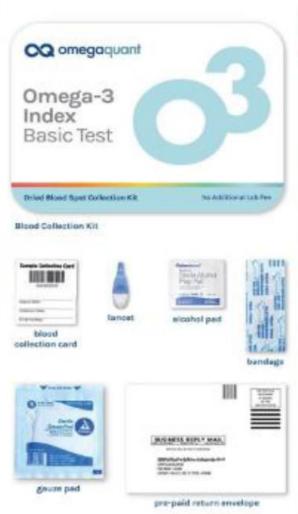


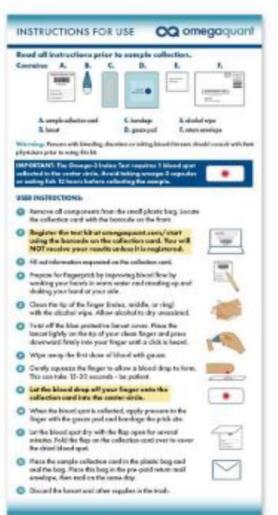
- Omega 3 – 4-5 business days



Sample Test Kit







Step by step instructions

Interested in Working with OmegaQuant?

Visit our booth

Contact jason@omegaquant.com

Questions for me? bill@omegaquant.com