

# STAYING HEALTHY BY EATING SEAFOOD OFTEN

Seafood is one of the most important keys to healthy eating. People who eat fish and shellfish regularly arehealthier than those who don't. Eating seafood discouragesthe development of chronic health conditions that impair health as we age. Seafood alone cannot prevent the onset of disease, but it may delay some conditions ormake them less likely and less severe. Here are some examples emerging from recent science.

### **Visual Function**

The leading cause of impaired vision in older people isage-related macular degeneration or ARM. It can lead toblindness. ARM is less likely to develop in people whoconsume fruits, leafy vegetables, and zinc, an elementrich in oysters, clams, and mussels. We now know ARMis less common in people who eat seafood regularly. Arecent study reported that people with the early stages of ARM were less likely to have their disease progress if they ate seafood regularly. In contrast, people who atelarge amounts of fat, including vegetable fat, and peoplewho smoked were more likely to have their visionworsen. The fatty acids found in fish—omega-3s—areconcentrated in the eye and retina and are important forvisual function. New evidence also suggests that eating fish may make cataracts less likely too. Eating fish regularlycould be an important step toward maintaining good eyesight, especially later in life.

#### **Type 2 Diabetes**

Type 2 diabetes is increasing rapidly among Americans andis common in people who are overweight and inactive. Oncediabetes develops, heart disease is much more likely. In type2 diabetes, the pattern of lipids and other substances in bloodbecomes abnormal. However, omega-3s, the special fattyacids in fish, help improve the pattern of blood lipids byreducing the level of blood fats. They also improve "good"cholesterol levels. Omega-3 fatty acids from fish make bloodclotting less likely, improve the function of blood vessels, andmodestly lower blood pressure. These improvements lower thechance of heart attack. Including fish often among the foodsyou eat, maintaining a healthy weight, and



exercising everyday can lower your chance of developing type 2 diabetes andmake the condition less dangerous once it develops.

## **Inflammatory Conditions**

Several chronic diseases involve the immune system. The mostcommon are rheumatoid arthritis, asthma, psoriasis (aninflammatory skin condition), and some allergies. In theseconditions the immune system overacts and the inflammationthat results contributes to the disease symptoms—painfuljoints, itchy skin, swelling, redness, wheezing, etc. These overactive immune responses can be toned down by the omega-3fatty acids found in fish. For this reason, the oils in fatty fish, such as salmon, mackerel, herring, rainbow trout, and sardines, can be helpful in reducing the severity of the symptomsof these conditions. Omega-3s cannot prevent or cure theseconditions, but they may make a noticeable improvement in the discomfort associated with them.

#### **Mental Function**

The omega-3 fatty acids found in fish oils include one, DHA, that concentrates in the brain. It is needed for proper brainand eye development during fetal development and the firsttwo years of life. We are now learning that DHA may beimportant for healthy brain function throughout life. For example, some children with behavioral disorders show improvement their learning and behavior when they consume fishoil or DHA. It is too soon to say that omega-3s will improvereading skills, learning, and inattention, but recent evidencepoints in that direction. This suggests that including fish inchildren's diets is important.

There is also growing evidence from older people that thosewho eat fish at least once a week may be less likely to develop Alzheimer's disease later in life compared with peoplewho don't eat fish. Studies in animals with the disease havealso shown that the disease develops more rapidly and ismore severe when omega-3s are deficient in the diet thanwhen they are plentiful. There is some indication that thismay also be the case for Parkinson's disease, anotherdegenerative brain condition.

In another area of mental function, omega-3 fatty acids from fish have been linked to lower chance of developing depressionand bipolar disorder. Some studies have reported improvements in the symptoms



of various mental conditions, although it is too soon to say that fish oil fatty acids are aneffective treatment. What these studies suggest is that manytypes of brain activity perform better when the brain hasadequate amounts of fish oil fatty acids. The way to obtain them safely is to eat fish regularly. It's a smart choice.

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