Position Paper

Sustainable Dietary Patterns

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EFAD working group: Manuel Moñino, Andreja Misir, Katerina Belogianni, Klaus Nigl, Ada Rocha, Angela Garcia Gonzalez, Katarzyna Janiszewska

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We Are
The Voice of European Dietetics

We are the umbrella organisation for the National Dietetic Associations across Europe. Our primary goal is to improve nutritional health and promote sustainable diets in Europe by advocating the leadership role for dietitians in collaboration with our members and stakeholders. All with the aim of improving the health and lives of European citizens.

We lead
to impact health of Europeans
We connect
to advocate and promote profession
We build
to support and serve our members
Research on sustainable diets is relatively nascent, with a great proliferation in recent years to address different questions related to environmental impact, health and economy. Existing studies suggest that plant-based diets can benefit both health and the environment when compared to a typical western diet. Additionally, poor health outcomes are associated with low intakes of plant-based foods and with high intakes of animal-sourced and ultra-processed foods.
Food production is a major contributor to greenhouse gas emissions (GHGe) and other drivers of climate change that directly impact the environment on which food production depends. It accounts for 70 to 80 percent of freshwater consumption and 20 to 30 percent of global GHGe and is a major contributor to air and water pollution, as well as soil and biodiversity degradation. The type of foods consumed, overconsumption, food lost in the food chain, and food wasted have become critical considerations for the people and the planet. Our food choices impact our health and the environment.

Thus, a food systems approach is required to ensure healthier and more sustainable diets which cover populations' nutritional needs and protect the environment. To assist in the shift to sustainability, policies affecting food systems must be reformed to address climate change, halt biodiversity loss, curb obesity, and make farming viable for the next generation. In the EU, the European Green Deal already aims at zero net GHGe by 2050, and economic growth decoupled from resources. This, paired with the Farm to Fork Strategy should result in fairer, healthier, and more sustainable food systems. Also, the WHO's "One Health" initiative endorsed by the EU strives towards better public health outcomes by linking human, animal, plant and environmental health into one strategy comprised of programmes, policies, legislation and research, in which multiple sectors communicate and work together.

European dietitians are key agents to facilitate the transition towards more sustainable food systems because they interact with patients, clients, the community, food producers, governments, and civil society organisations. Dietitians can provide advice for an affordable diet that is healthy for humans and beneficial for the planet by favouring those food production systems that minimize degradation of the environment.
Sustainable Diets -
Complex Rather than Simple

The Food and Agriculture Organization (FAO) and World Health Organization (WHO) define a Sustainable and Healthy Diet as the following: “Sustainable Healthy Diets are dietary patterns that promote all dimensions of individuals’ health and wellbeing; have low environmental pressure and impact; are accessible, affordable, safe and equitable; and are culturally acceptable...”

A healthy and sustainable diet has also been described as a diet comprised of a variety of primarily fresh and minimally processed plant-based foods, sustainably produced vegetable fats, small amounts of minimally processed animal foods, tap water as a primary beverage choice, and very little wasted food. This approach has been highly criticized as being overly expensive for 20% of the global population - a fact that would worsen the situation for those already at risk of food and nutrition security, mainly from low- and middle-income countries. Furthermore, plant-based diets might result in high intakes of starchy and/or ‘sustainable’ highly processed foods, posing a risk to vulnerable groups with special nutritional needs like the elderly, pregnant women and children even in developed countries. Healthy diets are, in general, unaffordable for more than three billion people in low-, middle- and high-income countries while more than 1.5 billion people cannot even afford a diet that only meets the required levels of essential nutrients. Although financial and nutritional constraints are a barrier for many when it comes to a sustainable healthy diet, a large portion of the world’s inhabitants could afford to make more sustainable and healthy food choices. Thus, it is up to local Governments to adapt recommendations and policies to the local situation.

Another objection to this dietary approach is making no distinctions of food production practices and standards on animal welfare, in addition to the disproportionate emphasis on the threat of animal-source food consumption on sustainability and human health while underestimating the variability of livestock breeding practices and their impact on the use of non-arable land, biodiversity and rural economy. Scaling up plant-based diets needs to comply with sustainable modes of farming, which includes animals as support to the environment and not necessarily as a meat source. It is true, that fewer natural resources are required to produce plant food for human consumption than animal-source food. However, not all meat has the same impact on the environment and health. Livestock (cows, pigs, and poultry) produced under the circular economy concept would need less land and would turn crop producing surfaces and grassland to a carbon...
Before a dietary pattern is deemed **healthy and sustainable**, social, environmental, and economic pillars of sustainability within a food system should be considered.
Poultry is considered sustainable, however, due to the overconsumption of meat, increasing poultry consumption or advocating poultry over other meats would require even higher industrial production and use of land for monocrops.

There is a consensus that diets in high-income countries require lower intakes of animal-source food, and higher intakes of healthy, plant-based foods such as legumes, fruits and vegetables, nuts and whole grains. To reduce the impact of farming on climate change, the consumption of red meat in some G20 countries is expected to decrease by 71% by 2030 and 81% by 2050.

For example, Europeans eat 67.63kg of meat annually, which means that they eat 1.5 portions daily, far more than in Tanzania where per capita meat consumption is 1.5 portions a week. However, some age groups, like the elderly, are also in need of high-quality protein diets, which should be considered when addressing overall diets and sustainability.
Human health and the environment need to be considered together when addressing food systems from farm to fork. Traditional eating patterns such as the Mediterranean diet, Okinawa diet and Nordic diet are aligned with sustainability principles. Although most of the national food-based dietary guidelines (FBDGs) recommend consuming more fruit, vegetables, pulses and whole-grain cereals, less than half of the world’s countries fulfil some of the recommendations and no country fulfils all of them\(^{24,29}\). Additionally, most FBDGs are not compatible with at least one of the global health and environmental targets, and a third are incompatible with the agenda on non-communicable diseases\(^{24,29}\). Thus, for the FBDGs to have an impact on the health of people and the environment clear and consistent policy support is required at the level of individual countries\(^{24}\).

Another important topic in the field of food sustainability are short and long food chains - shortening the food chain can limit concentrations of power and unfair trading practices while supporting the livelihood of small farmers and producers\(^7\). In addition, the reduction of food waste and loss and consuming local and seasonal foods are all important topics in food sustainability discussion. Thus, the basic principles of safe and healthy food in traditional food markets should emphasize the need for an interconnected perspective on urban-rural food systems, the role that traditional food markets can play in contributing to an environment that promotes health and food safety, advocating for safe, healthy, sustainable, accessible, and affordable food for the population, with a particular focus on the most vulnerable groups\(^{30}\). When determining a sustainable diet, local interpretation and adaptation of the universally applicable healthy diet are necessary to reflect the local culture, geography, and demography of the population and individuals\(^3\).

Diet sustainability should be decided at a country level after considering socio-economic aspects which, besides wealth, reflect traditional dietary patterns and the time required for these patterns to be adequately amended without a negative impact on the health of the population\(^3\).

Thus, before a dietary pattern is deemed healthy and sustainable, social, environmental, and economic pillars of sustainability within a food system should be considered\(^1\). Some of the important elements in these three pillars include food prices, cultural and nutritional aspects, local and seasonal food, food literacy rates, agricultural and farming practices, food chain specificities, food processing, food waste and food loss\(^{3,4,31,32}\).
Conclusion

An interdisciplinary approach is needed to successfully integrate more sustainable healthy diets into a complex system of food production and supply. To achieve that goal, European dietetic associations and the European dietitian workforce are committed and willing to promote healthier and more sustainable dietary patterns through affordable diets that are diversified, nutritious, less resource-intensive, and produce minimal waste.

EFAD also asks European countries to review their national food-based dietary guidelines to include sustainability aspects as a connecting force for the health and the environment and calls upon policymakers, civil society, food industry, farmers, and consumers to support actions and policies which facilitate transitions towards a healthier and greener Europe.

The time is now and the European dietitians are ready.


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