The Mediterranean Diet: Socio-cultural Relevance for contemporary Health Promotion

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Abstract
In biomedical literature, The Mediterranean Diet describes a healthy eating model, based on epidemiological findings on the predominant eating practices in Crete and Southern Italy in the 1960s. At the time, the level of life expectancy in this region was amongst the highest worldwide and rates of cardiovascular disease were amongst the lowest. Medical research has since given increasing attention to this dietary pattern and its potential health benefits. The various components of the Mediterranean Diet are fast becoming a paradigm for healthier lifestyles as well a potential model for weight loss.

In 2010 UNESCO recognised the Mediterranean Diet as an intangible cultural heritage of Italy, Spain, Greece and Morocco and the diet has moved away from a uniquely biomedical model to a cultural representation. This has led to increased recognition of the importance of social and cultural context in the dietary model, particularly the idea of conviviality, the pleasure of shared meals. It has also brought to light the debate over the cultural legitimacy of The Mediterranean Diet and its ability to represent the cultural diversity of the region.
This literature review consolidates interdisciplinary perspectives on the cultural context of the Mediterranean Diet. A literature search was conducted using both biomedical and social science databases to reflect the interdisciplinary nature of the article. This review explores the relevance of the dietary model as global public health tool as well as examining the role of pleasurable eating in health promotion.

**Key words**
Mediterranean Diet, Food Culture, Public Health Nutrition

**The Mediterranean Diet: A Cultural Representation?**

The Mediterranean Diet is recognised internationally as an evidence-based biomedical model for healthy eating, a paradigm for healthier lifestyles and an effective tool for weight loss(1-5). Medical interest in the diet of the Mediterranean originates from the *Seven Countries Study*; a large-scale epidemiological project conducted by Harvard physiologist Ancel Keys in the 1950s (6), which made associations with the diet of Southern Europe [in particular Southern Italy and Crete] and low levels of cardiovascular disease. *Seven Countries* was the stimulus for a significant body of nutritional research that established The Mediterranean Diet as a biomedical concept. Since then nutritional research, for the most part, has taken a reductionist approach to the analysis of various foods consumed in the region in order to validate adherence to the whole diet model (2,7,8). Definitions of the diet have been developed over the last 60 years and The Mediterranean Diet pyramid, a graphic representation of the nutritional model, was created by the Harvard School of Public Health in 1993. Country-specific versions of the pyramid have since been re-designed to represent varying food habits in the region (9,10) and experts in the field have developed KIDMED, a scoring system that can measure adherence to the diet by assessing weekly consumption of foods integral to this eating pattern (11). Evidence on the health potential of the diet is based on adherence to these scientifically recognised dietary criteria.
In the scientific arena, The Mediterranean Diet is largely regarded as a biomedical concept that positions foods eaten in the region within a nutritional mainframe. Social scientists have long questioned the use of the cultural significance of term ‘Mediterranean’ in a model, which appears to be a predominantly American construct. However, in recent years there has been a move within the Mediterranean region to embrace the socio-cultural context of the diet. In Spain, Greece and Italy, experts in nutrition and public health have adapted health promotional materials to give greater emphasis to Mediterranean traditions, food culture and lifestyles, focusing on the importance of convivial mealtimes. In 2013, UNESCO recognised The Mediterranean Diet as intangible cultural heritage of Italy, Spain, Greece and Morocco(12,13). The biomedical model has been re-framed in its original cultural context.

In fact, the idea of The Mediterranean Diet as a cultural model is not necessarily a new one. The author of the Seven Countries Study, Ancel Keys, was certainly aware of the socio-cultural context of the diet and made no secret of his affection for Southern Europe (14). His fondness for the region was made clear in a descriptive account on a visit to Italy in the 1960s:

Snowflakes were beginning to fly as we left Strasbourg on the 4th of February. All the way to Switzerland we drove in a snowstorm….On the Italian side the air was mild, flowers were gay, birds were singing and we basked at the outdoor table drinking our first espresso coffee at the Domodosola. We felt warm all over… (15).

Keys' attachment to the region demonstrates the difficulty in isolating foods eaten in the Mediterranean from their social and cultural context. Yet, from a public health perspective, embracing The Mediterranean Diet as a cultural model poses two distinct problems. Firstly, in terms of foods, there may be a disparity between the ‘Mediterranean Diet’ as defined by nutritionists and public opinion about the diet of the region . What do those living in the region understand as Mediterranean foods? Do those outside of the region perceive
this differently? Secondly, to what extent is The Mediterranean Diet seen as a cultural template that involves adopting the eating behaviours of the region? The nutritional model is now embedded within cultural ideas about convivial, leisurely eating. Are these habits genuinely reflective of lifestyles within the region and are those outside the region being asked to adopt a lifestyle and socio-cultural shift that is feasible?

This review will look at challenges to promoting The Mediterranean Diet within and outside the Mediterranean region. It will evaluate how accurately the cultural ideals recognised by UNESCO represent the region and how culturally acceptable these ideals are to populations outside of the Mediterranean. The article is based on a literature review using both biomedical and social science databases to reflect the interdisciplinary nature of the review. The following databases were used: MEDLINE, CINHAL, EMBASE, Psych Info, Scopus, Academic Search Elite. Social Policy Info and Google Scholar using the terms Mediterranean Diet, culture, society and history.

**Mediterranean Diet within the region: A cultural representation?**

The focus on the socio-cultural context of the Mediterranean Diet has been driven by public health experts within the region and has paralleled its UNESCO recognition (13). The 2013 UNESCO report highlights that the context of food consumption is a fundamental aspect of the Mediterranean diet. The act of *eating together* is seen to promote cultural identity and ensures social continuity. The Mediterranean diet is esteemed as an opportunity for social exchange, communication and the promotion of community values and hospitality. Women are perceived to be at the hub of this cultural process through the safeguarding of culinary techniques and the transmission of the social values at the core of the diet (16).

The move away from the biomedical concept of the Mediterranean Diet towards a regionally driven cultural definition has been of interest to social scientists within the region but not without contention. For social
anthropologists, the term Mediterranean Diet is still perceived as a mythical American construct that continues to mirror US dietary guidelines. It has been suggested that the dietary model, rather than representing cultural practices, have been reinvented to conform to nutritional ideals (17). For example, in Spain food heritage products such as cured hams, products and regional cheeses are barely represented despite their cultural significance for the populations of the country (18).

This concept of ‘inventing’ a regional diet is not an idea that is unique to the Mediterranean. Murcott (19) explores the way in which food acts as a tool to solidify national identity. She argues that nationhood is a malleable concept that is continuously imagined and re-created and a nation’s associated cuisines may be re-invented in the same way. Mintz (20) applies this theory to the invention of French haute cuisine that was established as a means of distinguishing the dominant social classes. Impressions of the Mediterranean Diet in cookbooks, health websites and the popular press, promote a very particular Mediterranean way of eating that reinforces ideas about regional identity. These are not necessarily a reality but the product of numerous self-perpetuating discourses. However unlike haute cuisine that was established from within France (21,22), the Mediterranean Diet is an American invention that offered an idealistic cultural context to a nutritional regime from an outsider’s perspective.

Concern has also been expressed about the use of the term ‘Mediterranean’ to describe the varying dietary practices of a large region (23). The geographical, economic and cultural diversity of the Mediterranean basin poses a challenge to the idea of one Mediterranean Diet – the culinary features of a Moroccan diet are very different to those of Crete or Italy for example. The idea of encompassing culturally distinct food practices into one definition is seen as fundamentally questionable (24). The homogenous concept of the Mediterranean Diet is perceived to devalue the rich culinary diversity and cooking skills present in the region. Culinary practices not only differ between countries but also within regions. A study of the Cerdanya Valley in the Pyrenees demonstrated clear distinction in the choice,
preparation and consumption of foods in the French owned territory compared to the Spanish region (25). With such a marked difference in a geographical area of just a few kilometres, how is it possible to represent the multiplicity of practices in the Mediterranean basin within one model? So how can the generic Mediterranean Diet have cultural significance to the populations within the region?

Nutritional experts have also questioned the geographical parameters of the diet, which appear to be unjustifiably Eurocentric (23,26,27). The diet of Northern Italy, for example, does not sit easily within the nutritional boundaries of the model; Malta has a unique dietary pattern and only a very small region of France is influenced by Mediterranean food culture (27,28). Conversely, with the exception of Morocco, the African and Asian countries within the Mediterranean basin are rarely referred to in the context of the diet, despite their populations eating diets that match the principles of the model [Medina 2004].

Even within the better-represented countries there have been questions over whether The Mediterranean Diet represents cultural norms and food practices. It has been argued that the ‘healthy and frugal’ Mediterranean Diet discovered by Keys, was driven by economic limitations in the 1950s and 1960s, a way of eating based on necessity rather than desire (29,30). Recently, economic growth and globalisation of food production have been cited as the reason for the desertion of The Mediterranean Diet in the countries from which it originated (31-33). Many of the major food items in the Mediterranean diet pyramid have increased in price, whereas cheaper refined foods are more affordable (34). If The Mediterranean Diet was once ‘poor man’s food’, today the reverse appears to be true (35). Lower socioeconomic status is inversely associated with the Mediterranean diet in the region, and high nutrition knowledge and higher education levels are positively associated with this dietary pattern, suggesting that The Mediterranean diet is a concept that is taught rather than being a cultural norm (36-38). Recent statistics go as far as to suggest that the Mediterranean Diet is in a ‘moribund state’ in its alleged birthplace of Crete (39). Obesity and diet related disease are rising
rapidly in the Mediterranean (40,41) and therefore there is a concerted drive to promote the diet regionally. It appears that the US-created ‘Mediterranean Diet’ is being imported into its cultural birthplace.

The regional desertion of The Mediterranean diet brings a major question to the forefront. *In the light of globalisation, can The Mediterranean Diet be legitimised as a cultural representation?* This question is as important from a cultural heritage perspective as it is from the view of health promotion. If populations are to maintain a dietary pattern, they need to be clear what that patterns is. If there is mismatch between what the public and health professionals deem to be traditional Mediterranean foods and Mediterranean food culture, adherence to the nutritionally desirable diet may be problematic.

**Mediterranean Diet as a Global Health Tool**

In many respects, outside of the Mediterranean, the concept of the diet is much clearer. As a global public health tool, The Mediterranean Diet does not claim to be an all-encompassing cultural representation but rather a cultural reference point for healthy eating practices (42,43). The strategic cherry picking of the best elements of Mediterranean traditions has certainly created a useful ‘whole diet model’ that has had beneficial impact on populations in Northern Europe (44,45). Numerous studies illustrate that the adoption of food choices typical of Mediterranean countries may be beneficial in metabolic and vascular diseases (46). Ironically, although overall adherence to this ‘model’ of eating has decreased within the Mediterranean, in Northern Europe there has been growing acceptance the diet pyramid(11,31,47).

Yet are populations following a cultural model or simply a set of dietary recommendations not dissimilar to those in any nutritional model? An article published in *Public Health Nutrition* suggested that the term ‘Mediterranean Diet’ is a misnomer and that this generic healthy eating pattern can be applied to a number of regional cuisines (48). The biomedical scoring system for the diet is certainly based on generic foods (49) and therefore the benefits of the diet may be related to more general healthy eating patterns. Populations,
arguably, do not need Mediterranean foods to enjoy the health promoting benefits of the diet. In fact, in order to maintain cultural heritage and promote sustainability it may be more useful to promote regionally specific diets. The Nordic Diet promoted in Scandinavian countries is an example of this and has been proposed as an alternative to the Mediterranean model (50,51). Promotional materials supporting The Mediterranean Diet recognise sustainability local production and preservation of culture as an integral part of the model (52,53). Proponents of the Nordic Diet argue that this focus on regional cuisines and local, sustainable foods should apply to countries all over Europe (54,55).

A further issue is the cultural relevance of the diet. For many populations the idea of adopting a Mediterranean Diet might seem culturally restrictive. Certainly, Italian, Greek and Spanish dishes are widely consumed all over Europe, yet so are Indian, Chinese, and Japanese foods. The idea of a world cuisine has become a reality (56). In this climate it is hard to know whether The Mediterranean diet [or any other regional diet] is a suitable starting point or a culturally, restrictive model that does not reflect the culinary diversity many populations have become accustomed to.

To add another layer of complexity of this issue, countries such as the UK are ethnically diverse and it is often minority ethnic groups that are primary targets for nutrition education due to increased genetic susceptibility to obesity and diet related disease (57). Due to its proven track record in preventing diet related disease, promoting an adapted Mediterranean Diet has been discussed as a tool for prevention of cardiovascular disease in South Asian populations (58). This may be seem like a logical step for South Asians in the UK but whether it is a culturally appropriate one is questionable. Current NICE guidelines in health promotion stipulate that health initiatives for ethnic groups should accommodate varying degrees of cultural identification (59). It may be more appropriate for the diverse populations to modify their current eating patterns rather than adopt a culturally specific but potentially alien ‘diet’.
From a nutritional perspective, The Mediterranean Diet model is an effective tool in clinical or experimental settings, yet when promoting the diet to global populations, public health experts need to consider whether it is sustainable and culturally appropriate. Dietary practices are embedded in the structures and routines of ordinary living and have to be compatible with this. Experiences of food and ways of eating go beyond biomedical notions of healthy eating and may be related to social and cultural acceptability (60).

**The role of convivial eating in Health Promotion**

The most prominent cultural ideal that is promoted in The Mediterranean Diet model is the idea of conviviality, the pleasure of shared meals. It is perhaps this notion of pleasure that really sets the Mediterranean Diet apart from other dietary tools, and arguably other dietary cultures. The diet is often described as ‘palatable’ (61) and there is a focus on local food and recipes. From a public health perspective The Mediterranean Diet, recognises that for dietary advice to be sustainable it must be pleasurable. This sits in contrast to dietary advice in the UK, where the majority of dietary advice is based on rules, reduction of food groups or foods consumed and essentially deprivation – with very little attention given to palatability, culinary tradition, sharing meals or indeed pleasure (62,63).

Sociological literature suggests that this difference is representative of a disparity in cultural norms. Research on food choice indicates that Southern European populations give greater importance to sociability and cooking and enjoying food with others whereas UK and US populations give more attention to convenience, choice and health (64-67). Evidence also indicates that focusing on health and convenience is a barrier to traditional food consumption (68). Quantitative data indicates that populations in Spain and France spend longer eating than those in the UK (69). This is viewed as an indicator of the sociality of mealtimes, given that the duration of a meal has been shown to increase according to the number of people eating (70). Cross-cultural studies have suggested that populations that prioritize pleasure over health demonstrate healthier eating behaviours (70,71). Fischler [2011]
suggests that the divide between Northern and Southern European eating patterns is not so much a question of individual attitudes but in the cultural norms around eating. This divide, it has been argued, is not geographical but in fact religious and draws a clear divide between Catholic and Protestant nations, the former favouring ideological worship and the latter focusing on personal responsibility or oneself [61].

If values regarding pleasure and sociality are deeply embedded in the fabric of Mediterranean society, it would seem wholly appropriate to include ‘pleasurable eating’ as part of the dietary model for the region. Yet when we use the model outside of the region, is this focus on pleasure appropriate or perhaps is it more prudent to focus on the scientific ideals of nutrition?

Making this cultural distinction may be problematic to populations both within the Mediterranean and in Northern Europe and Scandinavia. Firstly, in Northern Europe and the US, although nutritional concepts are culturally accepted, this does not mean they are effective in achieving better eating habits (72). Health professionals are struggling to deal with the rise of obesity and diet related disease in recent years. It is clear that in the current obesogenic environment, the austere voice of nutrition is lost amidst competing interests from food industries and the media (73). On the other hand, in this environment, it may be argued that focusing on pleasure is detrimental to public health. The Mediterranean Diet of the 1950s and 1960s was consumed in a setting where populations were physically active and diet was based on local plant foods. In the current environment where populations are faced with an overabundance of calorific food, achieving the balance between pleasurable eating and health may be more troublesome.

Yet, there is evidence that focusing on pleasure may result in better dietary habits (70,71). There is also suggestion that the dominant socio-cultural discourses on food may be changing in Westernised countries and there is a cultural shift from pragmatism to pleasure. The idea of pleasure in food is a very recent discourse with the promotion of cookbooks, speciality food and wine magazines and TV cooking shows (74). Yet in order to appreciate
whether ideas of pleasure and conviviality can and should be promoted in a global nutrition arena, it is important to recognise that ‘pleasurable eating’ may not be accessible to all sectors of society. De Vault suggests that shared meals have different meanings to families according to their socio-economic status. For richer families commensal meals may be an opportunity for pleasure and self-expression but for poorer ones mealtimes may be meeting simple necessities (75). In this light, does socio-economic status put constraints on conviviality?

The role of social class on food consumption has given rise to numerous sociological theories, exploration of which is beyond the remit of this paper. One theory worth noting however is the idea of distinction developed by French sociologist Pierre Bourdieu (76). Food, ‘taste’ and eating practices can be seen as a means of social distinction and offer form of cultural capital to higher social classes, with value attached to culturally authorised tastes. The Mediterranean Diet is a paradoxical reflection of this theory. The prototype diet was based on affordable, local produce, a diet adopted by the rural working classes in times of economic challenge and food scarcity (77). The US re-invention of the diet, has led to worldwide recognition as a fashionable way of eating in a health-conscious world. The diet offers ‘cultural capital’ and has been imported back into the region by the higher social classes (38,78). This does not only apply to the foods within the diet but the lifestyle and way of eating that it promotes. If in contemporary societies pleasurable eating is linked to economic freedom, this ideal may not be relevant to all sectors of society.

Given the clear links between low socio-economic status, poor health and obesity (57,79), it is a priority that health messages are accessible to all sectors of society. Further research is needed to gain clarity as to what pleasurable eating means to different populations and whether the practice of eating convivially, is accessible and relevant to general populations.
Conclusion

There has been a concerted drive to create a broader concept of The Mediterranean Diet and this awareness that has led to the creation of a model that incorporates tradition, social eating and pleasurable dining within the nutritional mainframe. Recognising pleasure as a fundamental part of a sustainable eating pattern is a unique component of The Mediterranean Diet. It takes a step away from most dietary models that focus on the role of diet to meet biological needs rather than the role of foods as a vehicle for cultural processes and social interactions. Yet the inclusion of these principles is only a first step. Further research is needed to examine whether principles of convivial eating are representative of current eating practices in the Mediterranean and whether these principles are compatible with sustainable, healthy eating on a global level. Research needs go beyond examining the validity of the nutritional components of The Mediterranean Diet and explore the legitimacy of its cultural ideals.

Conflict of Interest
None

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