Involvement of Nutritional Epidemiology in Public Health

ABSTRACT:

The purpose of this review is to demonstrate the significance and involvement of Nutritional Epidemiology in public health. The investigation of solving health issues that are linked to the Nutrition-related Diseases that are used by Physicians, Nutritionists, Dietitians as well as other Health Providers and Professionals of Public Health. Representing applied Researches that show the involvement of Nutritional Epidemiology in Public Health and the accomplishments of Nutritional epidemiology related to nutrient intake and healthy diet. Transformation of the dietrelated diseases by Nutritional Epidemiologists into a Platform of Practice to Prevent these Diseases and Raise Individual or Public Awareness by nutritional recommendations. To show the influence and importance of Nutritional Epidemiology on Public Health, with a focus on the impact of the healthy food and lifestyle on diet-related diseases, decrease the risks of Morbidity and Mortality Diseases, identification of the Nutrient deficiencies between Childhood to Adulthood groups.

Keywords/

Nutritional Epidemiology, Public Health, Diet-related Diseases, Nutrient intake, Lifestyle

1. Introduction

The Literature of the Science of Nutritional Epidemiology starts to occur and develop in the 1980S based on the many Quantitative sources. The significant difference in Diet with Comment [MO1]: Not clear. Reframe

Comment [MO2]: Should be re-written

Individuals and community was computed in numerous populations. Standardized Questionnaires of Dietary were established to be used in the large studies of Epidemiology, the Capability, and facility of these dietary questionnaires in the measurement of diet was recognized but many problems related to the Diet and Diseases were not solved (Willett, 2012).

In the 1990s, the First Edition of "Nutritional Epidemiology" was Published that challenged the connection of the new formulation of study methodologies and start to develop and cover the fields of investigation of new attributes of diet in different communities among the world (Willett, 2012).

The different topics of Methodology about Nutritional Epidemiology were developed greatly in detail and a large number of Cohort studies began to provide data about the relationship between Diet and Disease and focusing on the important methods of analysis, presentation as well as interpretation of the "Nutritional Data" that is known as the "complex Nutritional Data" (Boeing,2013).

Nutritional Epidemiology has a good implication on Public Health, contributes to the monitoring of the Food Consumption, Nutrient consumption, and Nutritional Status of a Particular Population. formulation of the new hypothesis related to Nutrition and Diseases to generate evidence to accept or refuse the current hypothesis and to evaluate the strength of diseases related to the Diet. Nutritional Epidemiology involves the prevention of diseases and the improvement of Communities Health (WILLETT, 1987).

Comment [MO3]: Use capital letters to start a sentence and small letters within sentences

The Review aims to represent the role of Nutritional epidemiology in the improvement of the Nutritional status of Public Health in the different countries around the world concerning the Studies that have been done about various diseases that can be healed by diet and limitation of medical consumption.

2. Terminology of Epidemiology and Nutritional Epidemiology

The Science of Epidemiology is recognized as the exercise of hypothesis generation which is the study of the distribution related to the "frequency, pattern" and causes with risk factors of the diseases related to the health conditions and places in a particular population that is known as the determinants and determine Natural history of disease within the prognosis of diseases. (Rothman,2012).

Epidemiology figures the decision of Policy and Practices that based on evidence by identification of the risk factors and aim of the practices to prevent risk factors and establishment of preventive healthcare and identification of the diseases that found in a community (Ananthakrishnan,2015).

Nutritional Epidemiology is a new area of Medical Study and a branch of Epidemiology that Study the connection between Health and Nutrition, in addition, provides specific data and knowledge about the science of Nutrition and information about Diseases that are associated with Diet and Malnutrition (Michels, 2003).

Comment [MO4]: Is this new?

3. Study Design of Nutritional Epidemiology

The study designs of the Nutritional epidemiology need to create an absolute relationship network between diet and disease to have the ability to recognize and improving policies and interventions that can be implemented for the determinations of the Health of the Community and to prevent the spread of diet-related diseases and detection of the aetiology of the various diseases that lead to death (Satija et al., 2015).

Nutritional Epidemiology has two types of investigation which are experimental and observational investigations that can be applied in the study design following the type of study such as cross-sectional study, cohort study, ecological, clinical, Case-control as well as community trials. The Observational investigation studies that applied have been observed with none-intervention while the Nutritional Epidemiologists have the control in the Experimental studies to assign exposures (Chidambaram and Josephson, 2019).

Nutritional Epidemiology has more challenges designed for nutritional intervention such as the effectiveness of diet that can be used as an agent of prevention against diseases pattern and amount of intake among a particular population (Boeing, 2013).

The Studies of retrospective case-control and past diet of recall bias are other issues that should be considered because it is not like smoking or other screening tests where its exposure can be completely prevented and stopped or started such as individuals Diet, Physical Activity including change in weight which cannot be zero during the lifespan (Margetts and Nelson, 1987).

4. Biomarkers of Nutritional Epidemiology:

The Biomarkers are one of the indicators of analysis in Nutritional Epidemiology that determine the Nutrient Intake as (Beaton et al. 1997) study mentioned about the continual errors during assessments of Dietary but the main challenge is to comprehend and evaluate as well as using the structure of errors through the analysis process and with the capability of using.

The Nutritional Epidemiologist can get the biological Markers from specimens of blood, hair, and Urine which is a good indicator that can guide individuals about the true intake of the Nutrients, Biomarkers based on the traditional methods can substitute the estimated intake of the Comment [MO5]: Italicise

Nutrients. Intake of Biochemical markers may cause errors that are related to the Dietary Survey Methods (Beaton et al. 1997).

The Biomarkers have been developed for the validation of the Techniques that are used for evaluating dietary intake. Various and a greater number of dietary biomarkers should be developed to get better characteristics of Nourishment. In the validation researches the "doubly labelled water technique" as well as "24-Hour urine, Nitrogen, and potassium" are used mostly and routinely, it has been revealed that loss of Statistic power and focusing on the effectiveness of the Diet can be a significant decrease. The health of the community can be improved by using a suitable biomarker and directing a thorough analysis (Bingham, 2002).

5. Nutritional Epidemiologic involvement in Developing Policy to improve

Public Health:

The grading systems to evaluate the rate of evidence of specific study types has been used by National Organizations like "American Diabetes Associations, FDA, AHA, American College / Cardiology, and American Preventive Services Task Force" to rate the Quality of Strength of Evidence in developing Policy and its effect on the Public Health (Ellwood et al. 2010).

In the Randomized Controlled Trials studies that conducted with the endpoint of diseases is recognized as the most strength scales approaching the Cohort Studies that is one step below the Randomized Controlled Trials, during missing of the large quantities in RCT with the endpoint diseases the Cohort studies are considered in authenticating of Nutritional Claim as well as establishing and Developing Policy with the collaboration with Smaller RCT and halfway endpoint diseases (Satija et al., 2015).

Comment [MO6]: Insert the abbreviation RCT

In most cases, the "Prospective Cohort Studies" has been used widely as evidence by the Committee of Dietary Guideline Recommendation in developing Policy, however, in the case of RCT Studies, the evidence is used to evaluate and assess the relationship between specific Dietary issues and risk of Chronic Diseases that lead to the foundation and developing of the Dietary Recommendations for the population in developed and undeveloped countries in which a factor of improving Public Health (Spahn et al., 2011).

6. Nutritional Epidemiology accomplishments are being studied:

Outlining and representing the accomplishments of Nutritional Epidemiology studies with evidence in diseases and its contribution to improving health. The effect of lifestyle and diet, especially the intake of vegetable-based meals with restriction of meat, fat, sugar and its impact on population health, including Intervention Studies (Willett, 2015).

6.1. Plant-based food and Cancer diseases:

Based on the case-control studies and report of the "World Cancer Research Fund (WCRF)" in 1997 about highlighting the relationship of higher consumption of plant-based foods "Vegetable and Fruits" and lower risk of particular types of cancer such as mouth, pharynx, stomach, and lungs as well as cancers of Breast, Bladder, Larynx, and Pancreas with considerable evidence and similar relation with the higher consumption of the only vegetables with lower risk of the Colon and Rectum Cancer (American Institute for Cancer Research and World Cancer Research Fund International, 1997).

Based upon the data in the report of "WCRF" in 2017 that more cohort studies are mentioned, with evidence of the possible relation between higher consumption of vegetables and lower risk factors of specific types of cancer such as Stomach, Esophagus, Larynx, pharynx, and mouth. Likely an inverse association of lowering the risk of colon, rectum cancer, and stomach cancer regarding garlic and allium vegetable consumption, inverse association within the higher fruit intake, and lower risk of the esophagus, stomach, mouth, larynx, and pharynx cancers. Also, the report mentioned and determined concerning the possible emphasized association between higher consumption of foods containing lycopene and food that contains selenium with a lower risk of prostate cancer (Van't Veer Kampman, 2007).

Many studies have been done in recent decades about the effect of higher vegetable and fruit intake in reducing the risk of various types of cancer especially reduction of the risks of epithelial cancer types, particular types of breast cancer but maybe not prostate cancer but in general, cancer determined as the correspondingly associated with the plant food intake (Potter, 2015).

The evidence and health instructions change over time regarding community health and the researchers work on it and still, there is an area for research to have a clear message for public health and to prevent the risk of cancer and improve overall health. the studies show the dependable and considered relationship between vegetable and fruit intake with reducing risks of cardiovascular diseases as well (Sun,2021).

6.2. Studies about the association between Fat intake and Breast Cancer:

Many kinds of research have been studied about the risks of Dietary Fat intake and its association with the risks of breast cancer, still has been debatable subject, in recent studies, Nutritional Epidemiologists have the role and contribution to have some outcomes about this association (Cho et al., 2015).

Regarding the studies that have been done by the Health professionals as well as from Nurses, have shown evidence about the association and role of dietary fat intake and increase the risk of breast cancer. Following the cohort study that has been done for 8 years, 90,000 women and

Comment [MO7]:

more and have been followed up, with developed 714 incident cases of invasive breast cancer. The cases from highest have been compared with the lowest of the equal 5 groups of dietary fat intake had a boundary increased risk of Breast Cancer. The intake of Dietary fat of red meat and Dairy products including both unsaturated and saturated fat intake is a higher risk of Breast cancer (Cho et al., 2015).

Moreover, about the data of cohort study that has been done by the European Prospective Investigation into Cancer and Nutrition "EPIC", 320,000 females have been followed for about 9 years with nearly 7000 cases of developed cancer, an association between high saturated dietary fat intake and higher risk of breast cancer was realized but no association with the other Dietary Fat intake (Sieri et al., 2018).

6.3. Nutritional Epidemiology involvement in Preventing Obesity:

Obesity is a common and epidemic Diseases in the world, most Obesity diseases begin from Childhood which is a serious health issue for developing other chronic diseases, Nutritional Epidemiology works on controlling and preventing the factors that control childhood obesity, the studies identified that School is the most key point of Public health strategy to lower the Risks and prevent the Overweight and Obesity prevalence. Children spend most of their time in school and school alone cannot prevent or control the Obesity epidemic, but based on the health policy and setting strong programs to support and guide children to healthy eating and regular physical activities can be a factor prevent or control this epidemic Disease (Frumkin et al.,2006).

The studies found that the Schools are not providing the recommended amount of Nutrients and junk foods are commonly available in school especially in High School and Secondary School, the studies have linked these junk foods and snacks including Soft drinks that sold in schools to Students as a factor of the prevalence of Obesity and overweight which contain a high amount of

Comment [MO8]: Are sold

total calories, total fat, saturated fat, and non or lower availability of fruits and vegetables in Schools (Story et al., 2009).

The Studies identified that by making some plans in improving the environment of the school and setting stronger policies to improve School food and increasing intensity of Physical Activities in the Curriculum of the Study plans with limitation of the Junk foods and high dense foods throughout the school days and adding more healthy foods in meals can be a strong key factor for preventing Obesity among Students and providing a healthful environment (Story et al., 2009).

6.4. Nutritional Epidemiologic studies about Rice intake and Type 2 Diabetes:

The main food in most countries of the Asian population is Rice, it's an essential and heavily consumed food, the health impacts of rice compared to Plant-based foods have been less observed in nutritional epidemiologic studies. Concerning Meta-analyses composed of the prospective cohort studies that have been identified the association between rice intake and risk of type 2 diabetes and other chronic diseases which is an incidence of mortality from these diseases. The effect of Brown Rice "unpolished" and white rice "polished rice" was different strangely. Many epidemiological studies especially high-quality types of research are required particularly among the Asian population (Sasaki, 2019).

6.5. Nutritional Epidemiology involvement in cardiovascular diseases:

Cardiovascular diseases including coronary heart disease "CHD" and stroke identified as the major Health problem in the world, the main cause of leading mortality in the globally, about 30% of the total deaths annually. The etiology of CVD has been studied by Nutritional Epidemiologists to prevent and manage these diseases because the main cause of CVD is the

Comment [MO9]:

unhealthy diet and incorrect choices of food, identification of the recommended consumption of each nutrient can help to prevent or reduce the risk of these diseases, analysis for some other contributed factors such as sedentary lifestyle and Physical activities (Nichols et al.,2012).

The association between dairy consumption and CVD has been observed, a meta-analysis study determined that dairy product consumption in a high or low intake amount possibly reduces the risk factors of CVD, CHD, and stroke diseases. Still, depended on the prevailing evidence of dose-response association is not evident and more studies are required to focus on the impact of particular types of dairy product intakes on outcomes of particular CVD (Alexander et al., 2016). Based on the Nutritional epidemiology and clinical studies that provided evidence about the relationship between Nut's intake and reduce risks of CVD. Nuts contain bioactive phytochemicals and rich in micronutrients and macronutrients and recognized as the seeds of high energy with beneficial nutrients. Adding nuts to the diet is recommended against CVD, the healthy components of nuts observe the relation of reduction of CVD risks as well as prevention of the other chronic diseases such as cancer and neurological disorders (Ros, 2015).

7. Nutritional Assessment in Nutritional Epidemiology

In the 1980s - 1990s, epidemiological studies of Nutrition begin to inspect the relationship between diet and diseases, then planned dietary questionnaires developed such as the Food Frequency Questionnaire (FFQ) and has been sent in the form of paper about "48000 topics" to large cohorts and realized as a cost-effective way for personal assessment use (Schatzkin et al., 2001).

The accuracy of FFQ in Nutritional assessment has been debated largely concerning Nutritional intake. Limitations of FFQs in the association of diet-disease lead to Bias in Nutritional revealing

measurements. The Nutritional epidemiology studies have applied the Nutritional assessment of Short term period and used it as a reference calibration technique especially as a major Nutritional assessment method for the community. The collected data and evidence show that food records and 24-hour dietary recall methods may assess the accurate result of the usual intake of the individuals. Modern technologies were established to assess specific short-term Nutritional assessment methods (Thompson et al., 2008).

The nutritional assessment is improved by innovation and the application of technologies. The evaluation of estimated accurate quantitative is required to determine the usual nutrition intake by individuals. The new technologies of nutritional assessment have been compared with the other methods of assessment and the errors of the results in web-based surveys with paper-based surveys FFQs methods were observed to be the same ratio of error, the methodology determined to be same by using technology, both methods can be used in the nutritional assessment and the studies of nutritional epidemiology (Illner et al., 2012).

The Nutritional assessment study observed that systemic bias was associated with the specific bias of individuals in FFQ by using nutritional report techniques as proposal evidence of instruments

to determine the correlation intake of the nutrients that produced a considerable over evaluation with true and usual intake as well as under evaluation, the influence of Nutritional assessment measurement of errors on analysis, plan, and interpretation of Nutritional epidemiologic studies had a greater impact than earlier estimation, Nutritional epidemiology determined that it gives a greater structure of Nutritional measurement errors and the studies of Nutritional epidemiology should be interpreted carefully (Kipnis et al., 2001).

8. Lifestyle role in Nutritional epidemiology studies:

Lifestyle is the most important factor in the prevention of the most diseases or close to the elimination of the most health issues related to nutrient deficiency. Nutritionists and health professionals skipped some questions to answer regarding the area of the study. Scientists in the field of medical technology were unsuccessful to control and influence the prevention of chronic diseases. Chronic diseases became epidemic diseases and big health issues that have been solved by medicine by Medicare in 1965. The increase in price is directed to a rise in the outcomes of healthcare and attempts to control the costs of medicine (Hoffman, 2018).

The nutritional intervention had developed, and nutritional intervention was not only able to use as a method to prevent chronic diseases but also was a reason to open a new area of research for Nutritionists. Health policies improved with a method to spend on heart disease, stroke, cancer including diabetes. The goal of public health was determined by mutual development through personal behaviour (Hoffman,2018).

The growth of public health hypothesis that included change in human behaviour, as both a means of prevention and early intervention, as well as the development of reporting requirements which seem to be the conceptual model of smoking and health that also presented a scientific basis for how much these changes should always be. These other developments made wellbeing an entity, instead of just collaborative, liability and diseases assumed a natural extension of the process of aging (Hoffman, 2018).

A report directed by Canadian Minister of National Health and Welfare Marc Lalonde has been published in 1974 entitled "A New Perspective on the Health of Canadians". The above represented an important condition and take preventative measures of chronic disease a primary responsibility for population health through lifestyle changes (Hancock, 1986).

The Lalonde Report contains obesity and overweight, high-fat dietary habits, workout abusive behavior, hypersexuality, depression including the use of "mental state" prescription medications as "self-imposed" health hazards, along with other issues (Hancock, 1986).

While the report identified that the scientific evidence supports connections of causal relationships between both the environment and lifestyle, on the one side, as well as death and suffering, and from the other, are contentious to dissension, everything just did not forget, that large number Canada's health challenges are enough urgent to take measures against people, even when all scientific proof isn't really available (Hancock, 1986).

The above-mentioned "new perspective" report is not just to decide to make people responsible for disease prevention and management, but it also established professional opinion on how it can be actually achieved. Between 1975 as well as 1985, numerous middle-class Family's needs to seriously check for medical information, as well as television starts to support or even recommend health conditions comprehensively (Hancock, 1986).

There has been plenty of recommendation to choose from for the: Advisories have been received from American Heart Association on dietary cholesterol, this same to the Ancel Public key on saturated fat, the Ralph Nader committee on chemical additives, John Yudkin on carbohydrates, and Robert Atkins general on carbohydrate consumption (Hite,2018).

Much of this knowledge had been based on the available scientific proof and it was in numerous manners contradictory to Worldwide FOOD Background. For instance, in regards to the wide-ranging discursive practices which connect food intake as well as other key elements of "lifestyle" with chronic disease, scientists continued to argue about the dietary cholesterol,

Comment [MO10]:

Comment [MO11]:

Comment [MO12]: What is new?

Comment [MO13]: ??

Comment [MO14]:

Comment [MO15]:

cigarettes, sweetener, obesity, sedentary lifestyle, and stress weren't really important elements in cardiovascular improvement. The prevalence of conflicting advice tried to give the McGovern Review panel the potential to capitalize as refereeing authority for incompatible claims regarding nutrition-chronic diseases (Hite,2018).

9. Causative Criteria of Nutritional epidemiology:

Attempting to make recommendations on nutrition and healthy food includes making composite decisions about the homeostasis of nutrients or food advantages and disadvantages. Causative characteristics seem to be fundamental but still not adequate characteristics of these decisions. Many scientific implications involve design concepts of research findings, statistical analysis, bias, uncertainty, and evaluating problems. This same set of parameters at least corresponding analysis, organization power, medication response, validity, and reliability (Potischman and Weed 1999).

The common strategy, methodologies, and hypothesis of theory development encourage advantages for establishments' specifications, with their corresponding benefits or even about their guidelines of assumption. The coherence of research findings would be extremely important when researches are also of great quality or are not relevant to intolerance. Its statistically important independent relationship seems to need to be accessed, with only a 20 percent percentage change in hazard. The predictable or growing exponentially statistically relevant pattern helps to strengthen the viewpoint in favor of new guidelines (Potischman and Weed 1999).

A probable hypothesis as well strengthens the guideline even though the standards on scientific samples seem to be extremely probable to vary depending upon the circumstance. Solidity is really a factor to be considered of both the large extent that a nutritional influence policy on and Comment [MO16]: ??

Comment [MO17]: ??

disease progression for dietary guidelines. Evidence that supports those other requirements is indeed a powerful reason for determining the dietary guideline, considering the stability of supposed advantages as well as suspected damage (Potischman and Weed 1999).

Guidelines must start making about their range evident; the limited guideline tends to involve a singular medical condition; a wide-ranging guideline usually includes most other appropriate medical conditions (Potischman and Weed 1999).

Causative requirements seem to be fundamental to epidemiologist's evidential methodologies being used to give guidance on healthy food and nutrition, and it's not just the implementation of these guidelines. Significant might be other science-based aspects to consider including such previous research categories, statistical analysis, bias and uncertainty as well as the reliability of measurement techniques (Weed, 1996).

Ethical considerations also are crucial for going to recommend nutritious food, as they would with all aspects of guidelines throughout the field of public health. The fundamental important consideration here is that an advantageous equilibrium between advantage as well as damage in a community is predicted unless guidelines were also taken. If either narrowly focused like a particular condition or generally considered inside the view of any relating nutrient illness and state of health, nutrition guidelines are prescriptive as well as socially responsible statements on where to go for population health (Weed, 1996).

10.Conclusion:

This review has summarized the role of Nutritional Epidemiology to prevent the diseases related to nutrition and its involvement and impact on public health and also referred to the studies and researches that have been done about the relationship between diseases and nutrients intake with the nutritional recommendations. Comment [MO18]:

Comment [MO19]: Should be added t Comment [MO20]: O the topic The role of Nutritional epidemiology in establishing policy in the community, the importance of Nutritional biomarkers in the intervention of nutrient deficiency, and the development of Nutritional Assessment in the determination of risk factors of diseases that are related to food consumption.

The importance of lifestyle and causative criteria of Nutritional epidemiology and its role in the management of diseases and improvement of public health, raising awareness of the community with the studies about accomplishments of Nutritional epidemiology.

COMPETING INTERESTS DISCLAIMER:

Authors have declared that no competing interests exist. The products used for this research are commonly and predominantly use products in our area of research and country. There is absolutely no conflict of interest between the authors and producers of the products because we do not intend to use these products as an avenue for any litigation but for the advancement of knowledge. Also, the research was not funded by the producing company rather it was funded by personal efforts of the authors.

Comment [MO21]: ??

Comment [MO22]: Meaning ??

Comment [MO23]: What products
Comment [MO24]: ?/

Comment [MO25]: To be corrected

11.References:

- Alexander, D.D., Bylsma, L.C., Vargas, A.J., Cohen, S.S., Doucette, A., Mohamed, M., Irvin,
 S.R., Miller, P.E., Watson, H. and Fryzek, J.P., 2016. Dairy consumption and CVD: a systematic review and meta-analysis. British Journal of Nutrition, 115(4), pp.737-750.
- American Institute for Cancer Research and World Cancer Research Fund International, 1997. Food, nutrition and the prevention of cancer: a global perspective. Aicr.

- Ananthakrishnan, A.N., 2015. Epidemiology and risk factors for IBD. Nature reviews Gastroenterology & hepatology, 12(4), pp.205-217.
- Beaton, G.H., Burema, J. and Ritenbaugh, C., 1997. Errors in the interpretation of dietary assessments. The American journal of clinical nutrition, 65(4), pp.1100S-1107S.
- Bingham, S.A., 2002. Biomarkers in nutritional epidemiology. Public health nutrition, 5(6a), pp.821-827.
- Boeing, H., 2013. Nutritional epidemiology: New perspectives for understanding the diet-disease relationship?. European journal of clinical nutrition, 67(5), pp.424-429.
- Boeing, H., 2013. Nutritional epidemiology: New perspectives for understanding the diet-disease relationship?. European journal of clinical nutrition, 67(5), pp.424-429.
- Chidambaram, A.G. and Josephson, M., 2019. Clinical research study designs: The essentials. Pediatric Investigation, 3(4), pp.245-252.
- Cho, E., Spiegelman, D., Hunter, D.J., Chen, W.Y., Stampfer, M.J., Colditz, G.A. and Willett, W.C., 2003. Premenopausal fat intake and risk of breast cancer. Journal of the National Cancer Institute, 95(14), pp.1079-1085.
- Ellwood, K.C., Trumbo, P.R. and Kavanaugh, C.J., 2010. How the US Food and Drug Administration evaluates the scientific evidence for health claims. Nutrition reviews, 68(2), pp.114-121.
- Frumkin, H., Geller, R.J., Rubin, I.L. and Nodvin, J. eds., 2006. Safe and healthy school environments. Oxford University Press.

- Hancock, T., 1986. Lalonde and beyond: Looking back at "A New Perspective on the Health of Canadians". Health Promotion International, 1(1), pp.93-100.
- Hite, A.H., 2018. Nutritional epidemiology of chronic disease and defining "healthy diet". Global Food History, 4(2), pp.207-225.
- Hoffman, B., 2008. Health care reform and social movements in the United States. American journal of public health, 98(Supplement_1), pp.S69-S79.
- Illner, A.K., Freisling, H., Boeing, H., Huybrechts, I., Crispim, S.P. and Slimani, N., 2012. Review and evaluation of innovative technologies for measuring diet in nutritional epidemiology. International journal of epidemiology, 41(4), pp.1187-1203.
- Kipnis, V., Midthune, D., Freedman, L., Bingham, S., Day, N.E., Riboli, E., Ferrari, P. and Carroll, R.J., 2002. Bias in dietary-report instruments and its implications for nutritional epidemiology. Public health nutrition, 5(6a), pp.915-923.
- Margetts, B.M. and Nelson, M. eds., 1997. Design concepts in nutritional epidemiology. OUP Oxford.
- Michels, K.B., 2003. Nutritional epidemiology-past, present, future.
- Nichols, M., Townsend, N., Luengo-Fernandez, R., Leal, J., Gray, A., Scarborough, P. and Rayner, M., 2012. European cardiovascular disease statistics 2012.
- Potischman, N. and Weed, D.L., 1999. Causal criteria in nutritional epidemiology. The American journal of clinical nutrition, 69(6), pp.1309S-1314S.
- Potter, J.D., 2015. Nutritional epidemiology—there's life in the old dog yet!. Cancer Epidemiology and Prevention Biomarkers, 24(2), pp.323-330.
- Ros, E., 2015. Nuts and CVD. British journal of nutrition, 113(S2), pp.S111-S120.

Rothman, K.J., 2012. Epidemiology: an introduction. Oxford university press.

- Sasaki, S., 2019. Rice and Prevention of Type 2 Diabetes: Narrative Review of Epidemiologic Evidene. Journal of nutritional science and vitaminology, 65(Supplement), pp.S38-S41.
- Satija, A., Yu, E., Willett, W.C. and Hu, F.B., 2015. Understanding nutritional epidemiology and its role in policy. Advances in nutrition, 6(1), pp.5-18.
- Schatzkin, A., Subar, A.F., Thompson, F.E., Harlan, L.C., Tangrea, J., Hollenbeck, A.R., Hurwitz, P.E., Coyle, L., Schussler, N., Michaud, D.S. and Freedman, L.S., 2001. Design and serendipity in establishing a large cohort with wide dietary intake distributions: the National Institutes of Health–American Association of Retired Persons Diet and Health Study. American journal of epidemiology, 154(12), pp.1119-1125.
- Sieri, S., Krogh, V., Ferrari, P., Berrino, F., Pala, V., Thiébaut, A.C., Tjønneland, A., Olsen, A., Overvad, K., Jakobsen, M.U. and Clavel-Chapelon, F., 2008. Dietary fat and breast cancer risk in the European Prospective Investigation into Cancer and Nutrition. The American journal of clinical nutrition, 88(5), pp.1304-1312.

Spahn, J.M., Lyon, J.M., Altman, J.M., Blum-Kemelor, D.M., Essery, E.V., Fungwe, T.V., MacNeil, P.C., McGrane, M.M., Obbagy, J.E. and Wong, Y.P., 2011. The systematic review methodology used to support the 2010 Dietary Guidelines Advisory Committee. Journal of the American Dietetic Association, 111(4), pp.520-523.

- Story, M., Nanney, M.S. and Schwartz, M.B., 2009. Schools and obesity prevention: creating school environments and policies to promote healthy eating and physical activity. The Milbank Quarterly, 87(1), pp.71-100.
- Sun, W., 2021, March. Vegetarian Diet: Why Is It Beneficial?. In IOP Conference Series: Earth and Environmental Science (Vol. 714, No. 2, p. 022004). IOP Publishing.
- Thompson, F.E., Kipnis, V., Midthune, D., Freedman, L.S., Carroll, R.J., Subar, A.F., Brown, C.C., Butcher, M.S., Mouw, T., Leitzmann, M. and Schatzkin, A., 2008. Performance of a food-frequency questionnaire in the us NIH–AARP (National Institutes of Health– American Association of Retired Persons) Diet and Health Study. Public health nutrition, 11(2), pp.183-195.
- Van't Veer, P. and Kampman, E., 2007. Food, nutrition, physical activity, and the prevention of cancer: a global perspective.
- Weed, D.L., 1996. Epistemology and ethics in epidemiology. Ethics and epidemiology, pp.76-94.
- WILLETT, W., 1987. Nutritional epidemiology: issues and challenges. International journal of epidemiology, 16(2), pp.312-317.

Willett, W., 2012. Nutritional epidemiology. Oxford university press.

Willett, W., 2015. Nutritional epidemiology. Teaching Epidemiology: A Guide for Teachers in Epidemiology.