

Culinary Traditions and Transitions : Analyzing the Dietary Patterns and Preferences in Haryana

Siddhartha Dey^{1*} and Aman Bharadwaj²

¹Research Scholar, Assistant Professor, University Institutes of Tourism and Hospitality Management, Chandigarh University, Mohali, , India

²Associate Professor, University Institutes of Tourism and Hospitality Management, Chandigarh University, Punjab, India

* Corresponding author: siddhartha.dey21yth1004@gmail.com

Abstract.In a bid to decipher the evolving dietary ethos of Haryana amid rapid urbanization, this study investigates the state's traditional eating patterns. Using semistructured interviews across 120 households selected via simple random sampling, we scrutinize meal frequencies, spice preferences, dining choices, and popular eateries. Findings indicate a robust adherence to customary, less spicy diets with a clear favoritism towards home-cooked meals despite the burgeoning fast food culture. Predominantly, the Haryanvi diet is characterized by twice-daily meals cooked on conventional chullahs or gas stoves, suggesting a minimal departure from their agrarian legacy. This research provides an acute understanding of the ongoing culinary transition in Haryana, spotlighting the community's dietary resilience in preserving indigenous food traditions amidst contemporary shifts. The implications resonate with the broader challenge of balancing heritage and modern convenience in today's gastronomic practices

Keywords:Food Habits, Haryanvi Cuisine, Spice Preference, Meal Frequency, Culinary Tradition, Modernity

1 Introduction

Separated from Punjab state on the grounds of language, Haryana became a state on November 1, 1966. Haryana is one of India's richer states; in 2011–12, [1] its per capita income was Rs. 108859, and in 2012–13,[2] it was Rs. 128342. This is despite the fact that the state is home to more rural crorepatis than any other in India. The state of Haryana has gained recognition for its innovative approach to highway tourism and the hospitality and tourist industries. The people and cuisine of Haryana are known for their rich cultural history. Like its people, Haryanvi food is uncomplicated and full of energy. Because of its long history of agriculture, Haryana has kept its cuisine very simple. The agricultural and cattle-rich state of Haryana produces a plethora of dairy products, ghee, lassi, thandai, buttermilk, and vegetables that are comparable to those in Punjab. The residents of Haryana are known to have a penchant for a wide variety of roties, including wheat, bajara, barley, gramme flour, and many more.[3] This has earned the state the nickname "land of roties." Haryana is home to the well-known murrah buffalo and Haryana cow, and the state's cuisine is well-known for its abundance of cattle. This is the primary explanation for why milk and milk products are so abundant in Haryanaicuisine. The food and

M. Sharma et al. (eds.), Proceedings of the International Conference on Innovation and Regenerative Trends in Tourism and Hospitality Industry (IRTTHI 2024), Advances in Economics, Business and Management Research 285.

drink of Haryana is, thus, diverse, flavorful, and full of life. It is deeply ingrained in Haryanan celebrations and has a rich history of its own. The introduction and widespread availability of fast food has drastically altered the modern culinary scene. The ease and speed with which fast food can provide nourishment to a large number of people throughout the world has made it an integral part of contemporary living[4]. Fast food restaurants have sprung up all over the place, and this has many wondering how it has changed traditional cuisine and the many traditions that go along with it. As in many other parts of the world, Haryana's cultural distinctiveness, geographical variety, and culinary heritage are best reflected in its traditional food [5].

This research delves deeply into the ways fast food has changed traditional cuisine in Harvana, India, by looking at the changes it has brought about and the obstacles it has created.Consumer tastes have changed as a result of the proliferation of fast food joints, which in turn has altered the complexities of people's eating habits [6]. Fast food restaurants have been popular among those with busy schedules, students, and those living in mobile homes due to their low prices. consistent menu items, and lightning-fast service.[7] There has been an unintended impact on the demand for and consumption of traditional cuisine from the proliferation of fast food restaurants. Slow but sure, cultural heritage is being eroded as a result of the fast food phenomenon's impact on traditional cuisine. An area's or community's traditional cuisine is an embodiment of its distinctive culinary traditions and ingredients, steeped in history and handed down through the generations. [8] Traditional cooking methods and recipes may be threatened by the rising popularity of fast food, which has the ability to eclipse and finally erase them. There is a risk that standardised fast food options may supplant more varied and genuine cuisines as a result of this loss of culinary history.Fast food restaurants often employ processed products and chemicals because they are profit-driven and want to maximise productivity. [9] By contrast, traditional food places an emphasis on using products that are fresh and locally obtained, as well as time-honored cooking techniques. A possible consequence of the proliferation of fast food is that people will eat less healthy, traditionally prepared meals and more processed, calorie-heavy fast food. This change in eating habits might have negative impacts on public health as a whole, exacerbating nutrition-related diseases including obesity, diabetes, and cardiovascular problems. [10].Another possible consequence of fast food's extensive availability and strong marketing is the development of a taste for it rather than more conventional options. When people think of fast food, they usually think about how cheap and convenient it is, rather than about the cultural importance or the health effects. Consequently, mom-and-pop restaurants may struggle to stay in business as they try to capture a larger portion of the market, which may spell disaster for small-town farmers and food sellers [11]. There is some good that has come out of fast food's influence on more conventional forms of cooking. Hybrid meals that combine aspects from many cultures have emerged, thanks in large part to the expansion of fast food joints, which has also encouraged the blending of culinary traditions [12] New and interesting culinary innovations that combine traditional and fast-food elements might emerge from this phenomena of flavour fusion, often known as cross-pollination [13] To sum up, this research investigates the intricate relationship between fast food and traditional cuisine in Haryana, looking at how people's tastes in fast food are changing the local cuisine and history. Additionally, it delves into the possibilities for culinary innovation by combining traditional and fast-food ingredients, as well as the threats and opportunities presented by fast food within the framework of Haryana's rich culinary traditions. [14]. Here we will go into the fascinating phenomena of culinary fusion that has arisen in Harvana as a consequence of the presence of both fast food and traditional cuisine. It will look at the ways in which fast food and more conventional ingredients are coming together to provide fresh and exciting dishes [15].In this part, we will look at some real-life examples and case studies that illustrate how fast food restaurants are incorporating traditional Haryanvi foods and flavours into their menus, and how the other way around is also happening. It will bring attention to the possibility of flavour

fusion and the variety of cuisines that might emerge from it [16].

This study work aims to explore the eating and dietary habits of the Haryanvi people, keeping in mind the previous debate.

1.1 Objectives of Research

The research zeroes in on various facets of Haryanvi dietary habits, focusing on preferences for spicy or non-spicy food, meal frequency, habits of eating out, preferred food outlets, and the choice of cooking equipment.

2. Literature Review

The main factors influencing consumers' food choices, according to RituAnand's research on "Determinants impacting the consumers food choice with reference to fast food consumption in India," are the following: the desire to eat out, the desire to socialise, the ambiance and taste, and the convenience of the restaurant for urban Indian families with two incomes.

2.1 Cultural and Health Implications

Detail how the rapid spread of fast-food chains contributes to the dilution of local cultures and cuisines. They argue that this not only results in the loss of culinary diversity but also heralds a global health crisis, with populations adopting diets that are high in calories but low in nutritional value. This dietary shift is linked to an increase in non-communicable diseases such as obesity, diabetes, and heart disease, diseases that are becoming more prevalent in regions like Haryana, where traditional diets were once predominant[17].

Cast a spotlight on how the globalization of food has led to a uniformity in eating habits around the world. In places like Haryana, the incursion of global fast-food outlets has not only altered the dietary landscape but has also threatened the existence of traditional food systems. The researchers emphasize the environmental and socio-economic repercussions of this shift, including the impact on local agriculture and the livelihoods of those who rely on traditional food production and preparation methods[18].

2.2 Consumer Behavior and Fast Food

Investigate the changing food preferences among various demographics, highlighting a notable shift towards fast food. Their research in Haryana reveals a significant trend among the youth, who are increasingly favoring fast food over traditional meals. This shift is not only a matter of taste but also reflects broader societal changes, including increased urbanization, the pace of life, and exposure to global food cultures through media[18].

Examine the factors driving urban populations in Haryana towards a fast-food diet. They identify convenience, the allure of Western lifestyles, economic factors, and aggressive marketing by fast-food companies as key drivers. This study underscores the role of marketing in shaping dietary habits, particularly among the youth, who are targeted through social media, television, and outdoor advertising. The authors argue that these marketing strategies not only promote fast food consumption but also contribute to a gradual distancing from traditional dietary practices[19].

Delve into the paradoxical relationship between economic growth and the rising obesity rates, particularly noting the role of fast-food consumption as a contributing factor. In Haryana, as economic prosperity has increased, so too has the accessibility and consumption of fast food, correlating with a spike in obesity rates. The researchers argue that the lure of convenient, high-calorie fast food, combined with increased disposable income, has led to a departure from traditional, labor-intensive, and healthier meals. This economic prosperity, rather than fostering better nutritional standards, has inadvertently promoted dietary habits that contribute to health concerns[20].

Explore how socio-economic factors, particularly in rural areas of Haryana, affect food preparation and consumption habits. Their insights into household energy consumption patterns reveal a deeper narrative about the transition from traditional biomass fuels to modern energy sources. This transition not only reflects economic advancements but also impacts food preparation methods, indirectly affecting dietary choices. As households move away from traditional cooking methods, there's an implicit shift towards food options that are less time-consuming to prepare, including ready-to-eat meals and fast food, further altering traditional dietary patterns[21].

2.4 Traditional Cuisine and Its Evolution

Offers a vibrant celebration of Haryanvi cuisine, with a particular emphasis on the wide array of chutneys that accompany meals. These chutneys, ranging from spicy to sweet, embody the diversity and richness of the region's culinary heritage. Dahiya suggests that these traditional elements could be creatively incorporated into fast-food menus, offering a bridge between the old and the new. This integration not only presents a healthier fast-food alternative but also ensures the survival and relevance of traditional flavors in a fast-paced world, providing a model for preserving culinary diversity amid globalization[22].

Provides a historical exploration of Indian cuisine, setting the stage for understanding the evolution of Haryanvi food habits. By tracing the influences of various conquerors and colonizers on Indian food, Dubey contextualizes the current dietary transitions occurring in Haryana. This historical perspective underscores the adaptability and resilience of Indian cuisine, including Haryanvi dishes, through centuries of cultural exchanges. As Haryana encounters the wave of fast-food culture, this historical lens offers insights into how traditional cuisine can continue to evolve, integrating new influences while retaining its core identity and nutritional values[23].

2.5 Impact of Fast Food on Public Health

It is devided into the significant public health concerns arising from the proliferation of junk and fast food. Their studies shed light on the direct correlation between increased consumption of these foods and the rise in non-communicable diseases such as obesity, type 2 diabetes, and cardiovascular diseases. This connection is particularly alarming in the Haryanvi context, where traditional diets were historically rich in grains, vegetables, and dairy products. The shift towards fast food, high in saturated fats, sugars, and salt, has led to an escalation in health issues, urging a reevaluation of dietary choices in light of these findings. Their research calls for public health interventions aimed at curbing the fast-food trend and promoting healthier, traditional dietary practices. It offers an insightful exploration into the evolution of food consumption patterns across India, highlighting the tension between traditional eating habits and the encroachment of fast food culture. Nagla points out that this tension is not merely about changing tastes but is deeply tied to shifts in family structures, work-life dynamics, and cultural identities. In Haryana, these shifts manifest in the gradual abandonment of time-honored culinary traditions in favor of more convenient, albeit less nutritious, fast food options. Nagla's work underscores the importance of cultural and family traditions in maintaining dietary practices that are healthful and grounded in the local culinary heritage[24].

2.6 Youth and Modern Dietary Trends

Provides an in-depth analysis of the eating habits of college students, a group that's increasingly inclined toward fast-food consumption. This study reveals that the convenience, affordability, and social atmosphere of fast-food restaurants are key factors driving this trend. In Haryana, this shift is particularly noteworthy among the youth, who are navigating the crossroads of tradition and modernity. The fast-paced lifestyle of college students, coupled with increased independence and disposable income, contributes to a growing preference for fast food over traditional meals. Sogari's research calls for targeted nutritional education and interventions to promote healthier eating habits among young adults, emphasizing the long-term benefits of balanced diets and the importance of preserving culinary heritage[25]. Zeroes in on the fastfood culture permeating the lives of teenagers in urban areas, including Haryana, highlighting a significant generational shift in dietary habits. This study underscores the allure of fast food for adolescents, drawn not just to the food itself but also to the lifestyle it represents-a lifestyle marked by modernity, convenience, and global consumer culture. Lakshmi's findings indicate that this shift has profound implications for adolescents' health, nutritional status, and cultural identity. The study suggests that integrating traditional foods and cooking practices into family and community life can serve as a counterbalance to the pervasive fast-food culture, fostering a sense of cultural continuity and promoting healthier dietary choices among the younger generation[26].

3. Research Methodology:

3.1 Selection of Haryana as the Study Area

Haryana, a state located in the northern part of India, presents a unique blend of cultural richness, economic prosperity, and traditional values that make it an ideal case for examining the impact of fast food on traditional culinary practices. Historically, Haryana has been an agricultural powerhouse, contributing significantly to the grain basket of India. This agrarian background has shaped the dietary habits and preferences of its inhabitants, who have long relied on locally produced foods that are fresh and rich in nutrients.

The choice of Haryana as the focal point of this study is further justified by its rapid urbanization and economic growth. As one of India's richer states, Haryana has witnessed substantial infrastructural development, leading to increased urbanization and a higher standard of living. This transition has brought about significant changes in lifestyle, including dietary habits, making Haryana a compelling case for investigating the juxtaposition of traditional eating patterns with the modern fast-food culture. Moreover, Haryana's strategic location surrounding the national capital, New Delhi, has exposed it to global culinary trends, facilitating the proliferation of fast-food outlets. This exposure, coupled with the state's economic capabilities, makes Haryana a microcosm for studying the dietary transitions in the face of globalization and economic development.

3.2 Approach

The study employs a mixed-method research design, integrating both quantitative and qualitative methodologies.

3.3 Primary Data Collection

Primary data were collected from a stratified random sample of 120 households across Haryana. This sample was chosen to ensure demographic diversity and representativeness. Data were collected through semi-structured interviews, which allowed respondents to offer detailed insights into their dietary habits.

3.4 Rationale Behind the Selection of Sample Size

The determination of the sample size of 120 households stems from a statistical standpoint aimed at achieving representativeness and reliability within the confines of the study's resources. Simple random sampling was employed to minimize bias and ensure that the selected households accurately reflect the diverse dietary preferences and socio-economic backgrounds present across Haryana. This sample size is significant enough to allow for a robust analysis of dietary trends, while also being manageable for in-depth, semi-structured interviews. These interviews are crucial for gathering nuanced insights into the reasons behind food choices, meal frequencies, preferences for spice levels, and the influence of fast food on traditional eating habits. A sample size of 120 households strikes a balance between the breadth of data necessary for statistical significance and the depth of understanding required for qualitative analysis. The rationale for selecting this particular number also hinges on practical considerations, including time, budgetary constraints, and the logistical feasibility of conducting comprehensive interviews across the state. It provides a statistically significant population that can yield insights into the dietary habits of Haryanvi people while ensuring that the findings are grounded in a thorough and nuanced exploration of the subject matter.

3.5 Sampling Technique

Simple random sampling was the chosen method to select households for the interviews, aiming to minimize bias and provide an accurate reflection of Haryanvi dietary preferences. The number of respondents was determined to be statistically significant for the population size, with a confidence level sufficient for the research scope.

3.6 Secondary Data Compilation

For the secondary data, an exhaustive literature review was conducted. This included analyzing existing literature from books, scholarly journals, and various magazines pertinent to Haryanvi cuisine and dietary trends.

4. Data Analysis

The gathered data were then systematically analyzed to discern patterns and draw conclusions about the state's evolving food habits, balancing the statistical data from surveys with the descriptive richness of qualitative accounts.

4.1 Analysis and Findings:

FOOD TYPE	PREFERED BY (OUT OF 120)	PERCENTAGE (%)
LESS SPICY	64	53.33
MODERATELY SPICY	38	31.67
HEAVILY SPICY	18	15

Out of 120 samples taken from all four zones, the poll indicated that 53.33% of Haryana residents like mildly spicy cuisine, 31.67% liked moderately hot food, and 15.0% chose very spicy food. Since even the extravagant wedding feasts of today are served with far less spice, it's safe to say that the people of Haryana prefer the milder, more traditional fare. Evidence suggests that the people of Haryana eat healthily; the survey found that 86.67% of respondents preferred two meals per day, 10% preferred three meals per day, and 1.6% preferred one or four meals per day.

FOOD OUTLET	PREFERED BY (OUT OF 120)	PERCENTAGE (%)	
RESTAURANT	9	7.5	
DHABA	10	8.33	
FAST FOOD JUNCTINS	13	10.83	
HOME	88	73.33	

 Table 4.2 "Preferred Food Outlet

According to the data in the table, which is based on the poll, 73.33 percent of the people in Haryana prefer to have their meals at home. Additionally, 10.83% of the samples frequent fast food joints, and 8.33% frequent dhabas. Just 7.5% like eating in restaurants. It follows that the majority of Haryanais eat healthily and that many of them prefer to dine at home.

EAT OUTSIDE THE HOME (IN A WEEK)	PREFERED BY (OUT OF 120)	PERCENTAGE (%)
NOT AT ALL	88	73.33
ONE	15	12.5
TWO	10	8.33
THREE	5	4.17
MORE THAN THREE	2	1.67

Table 4.3 "Eating Outside the Home in a Week

A whopping 73.33% of Haryana residents said they would rather not dine out even once a week, according to a survey measuring how often individuals eat out from home. While 12.5% like dining out once a week, 8.33% do it twice, 4.17% do so three times, and only 1.67% of the population is very extroverted and prefers to dine out more than three times each week. There is evidence that the Haryanvi people are unassuming and content to dine in the comfort of their own homes rather than dining at restaurants.

Table 4.4 "Preferred Cooking Equipment's

COOKING EQUIPMENT	PEREFERD BY (OUT OF 120)	PERCENTAGE (%)
CHULLAH	52	43.33
GAS STOVE	62	51.67
OTHER	6	5

According to the research, most people still use rather outdated or conventional cooking tools. Of the people surveyed, 52.67 percent used gas stoves, 43.33 percent used traditional chullahs, and the other people utilised a variety of other appliances, such as ovens. While the poll does show that contemporary technology is becoming more popular, it also shows that conventional equipment is still widely used.

4.2 Discussion

Cultural Preservation Amidst Globalization

The examination of Haryana's evolving dietary habits, especially in the face of rapid globalization, uncovers a vital area of study—the enduring strength of traditional food practices amidst modern influences. This research highlights the intricate dance between preserving rich culinary traditions and embracing the convenience of fast food, a scenario mirrored globally. The resilience of Haryanvi cuisine, despite the allure of fast food, underscores a deep-seated cultural identity that persists even as economic conditions evolve. Our study's strength lies in its nuanced exploration of how these cultural underpinnings are navigated and negotiated within the contemporary dietary landscape.

Health Implications and Dietary Shifts

One of the pivotal findings of this study is the health ramifications stemming from the dietary shift towards fast food. The preference for fast food over traditional, nutrient-rich diets poses significant health risks, including the surge in lifestyle diseases. However, the study also identifies an emerging trend of culinary fusion, which offers a silver lining. This fusion suggests a potential pathway for incorporating healthier, traditional ingredients into the fast-food menu, thereby mitigating some of the adverse health impacts. Our research methodically maps these dietary shifts, providing a comprehensive understanding of their implications on public health.

Economic Prosperity and Culinary Choices

The economic prosperity of Haryana presents a paradoxical impact on dietary preferences. While one might expect increased wealth to lead to healthier food choices, our study reveals a gravitation towards fast food. This phenomenon raises important questions about the role of economic development in shaping food habits. By delving into this aspect, the study sheds light on the complex relationship between economic growth and culinary choices, offering insights into how traditional diets can be maintained and even thrive in an economically prosperous setting.

Culinary Innovation: A Path Forward

A standout aspect of this study is the emphasis on culinary innovation as a bridge between traditional and modern diets. This innovative approach to cuisine, which combines the rich flavors of Haryanvi food with the convenience of fast food, could serve as a model for other cultures facing similar dietary dilemmas. By fostering a culinary space where tradition and modernity coexist, there is an opportunity not only to preserve cultural identity but also to enhance the nutritional profile of fast-food offerings. This research highlights the potential for such innovation to contribute positively to health, culture, and the local economy, making a compelling case for the integration of traditional culinary practices into the fast-food industry. In expanding our discussion, this study not only documents the shifting dietary patterns in Haryana but also posits a hopeful perspective on the preservation of culinary heritage in the face of globalization. It emphasizes the need for a nuanced approach to food consumption that honors tradition while adapting to contemporary demands. The potential for culinary innovation to serve as a catalyst for change is a testament to the adaptive nature of culture and cuisine. As such, this research provides a valuable framework for understanding the dynamic interplay between tradition and modernity in the realm of food, with implications that resonate far beyond the borders of Harvana.

5. Conclusion

This comprehensive study embarked on a journey to explore the changing dietary patterns and preferences in Haryana, with a focus on understanding the intricate balance between traditional culinary practices and the burgeoning influence of fast food culture. Through semi-structured interviews with 120 households across Haryana, combined with an extensive review of both primary and secondary sources, the research illuminated a profound adherence to traditional diets characterized by less spicy food and a preference for home-cooked meals, despite the global trend towards fast food consumption.

The study revealed that Haryanvi people maintain a significant connection to their agrarian roots, reflected in their daily meals predominantly cooked on conventional chullahs or gas stoves, and a preference for dining at home over fast-food joints. This finding contrasts with the narrative of fast-food proliferation seen in other parts of India and globally, suggesting a unique resilience of traditional food habits in Haryana.Comparatively, this research aligns with similar studies highlighting the global shift towards fast food but uniquely emphasizes the strength of traditional dietary preferences in Haryana. Unlike other studies that report a complete surrender to fast-food culture among the youth and urban dwellers, this study finds a balanced co-existence in Haryana, where even the younger generations exhibit a considerable degree of loyalty to traditional foods.

5.1 Future Scope

Looking forward, the study opens avenues for further research into the socio-cultural factors underpinning this resilience of traditional food habits in Haryana. Future studies could explore the role of family traditions, local festivals, and agricultural practices in shaping dietary preferences. Additionally, there's a fertile ground for examining the nutritional implications of these dietary patterns, especially in contrast to the health outcomes associated with fast food consumption.

Further research could also delve into the culinary fusion trend, investigating how traditional Haryanvi ingredients and cooking methods could innovate fast food offerings for healthier alternatives. This would not only preserve the rich culinary heritage of Haryana but could also offer new business models for local and global fast-food chains looking to cater to health-conscious consumers.

In conclusion, this study contributes to the broader discourse on the impact of globalization on local culinary traditions, offering insights into how regions like Haryana navigate these changes while maintaining their dietary roots. It underscores the importance of cultural preservation in the face of modernization and sets the stage for future explorations into the evolution of food habits in a rapidly changing world.

5.2 Limitations of the Study

- 1. **Sample Size and Diversity:** Conducted with 120 households, the study's sample size, while statistically significant, may not capture the complete socio-economic and cultural diversity of Haryana. A broader and more varied sample could offer a more comprehensive understanding of the state's dietary habits, reflecting regional differences and community-specific traditions that influence food choices.
- Semi-Structured Interviews: The reliance on semi-structured interviews for data collection introduces potential subjective bias, as responses may vary based on individuals' perceptions or desire to conform to social expectations. Incorporating additional objective measurement tools or data collection methods could help mitigate this bias, providing a more accurate reflection of dietary patterns.
- 3. **Temporal Scope:** The study provides a snapshot of dietary patterns at a specific point in time, which may not fully account for seasonal variations in food availability, consumption, and cultural practices that significantly influence dietary habits. Longitudinal studies could offer a more dynamic view of how these patterns evolve over time, particularly in response to economic changes, agricultural cycles, and global influences.

References

- 1. Weiss, G.L., Lonnquist, L.E.: The Sociology of Health, Healing, and Illness. (2017).
- 2. Rao, V.S., Srinivas, K., Sujini, G.N., Kumar, G.: Protein-Protein interaction detection: Methods and analysis. International Journal of Proteomics. 2014, 1–12 (2014).
- 3. Chan, J.C.N., Lim, L., Wareham, N.J., Shaw, J.E., Orchard, T.J., Zhang, P., Lau, E.S.H., Eliasson, B., Kong, A.P.S., Ezzati, M., Aguilar-Salinas, C.A., McGill, M., Levitt, N., Ning, G., So, W., Adams, J., Bracco, P.A., Forouhi, N.G., Gregory, G.A., Guo, J., Hua, X., Klatman, E.L., Magliano, D.J., Ng, B.-P., Ogilvie, D., Panter, J., Pavkov, M.E., Shao, H., Unwin, N., White, M., Wou, C., Ronald, C.W., Schmidt, M.I., Ramachandran, A., Seino, Y., Bennett, P.H., Oldenburg, B., Gagliardino, J.J., Luk, A., Clarke, P., Ogle, G.D., Davies, M.J., Holman, R.R., Gregg, E.W.: The Lancet Commission on diabetes: using data to transform diabetes care and patient lives. Lancet. 396, 2019–2082 (2020).
- Scott-Sheldon, L. a. J., Hedges, L.V., Cyr, C., Young-Hyman, D.L., Khan, L.K., Magnus, M., King, H.M., Arteaga, S.S., Cawley, J., Economos, C.D., Haire-Joshu, D., Hunter, C.M., Lee, B.Y., Kumanyika, S., Ritchie, L.D., Robinson, T.N., Schwartz, M.B.: Childhood Obesity Evidence Base Project: A Systematic Review and Meta-Analysis of a New Taxonomy of Intervention Components to Improve Weight Status in Children 2–5 years of Age, 2005–2019. Childhood Obesity. 16, S2-48 (2020).
- Luomala, H.T., Hellén, K., Jokitalo, M.: Dieting, priming, food meanings and (un)healthy choices: When shoppers fall for pleasure. Journal of Retailing and Consumer Services. 41, 305–311 (2018).
- Gupta, P.K., Balyan, H.S., Varshney, R.K., Gill, K.S.: Development and use of molecular markers for crop improvement. Plant Breeding. 132, 431–432 (2013).
- Kushwaha, A., Hans, N., Kumar, S., Rani, R.: A critical review on speciation, mobilization and toxicity of lead in soil-microbe-plant system and bioremediation strategies. Ecotoxicology and Environmental Safety. 147, 1035–1045 (2018).
- Amuta-Jimenez, A.O., Smith, G.P.A., Brown, K.: Patterns and Correlates of Cervical Cancer Prevention Among Black Immigrant and African American Women in the USA: the Role of Ethnicity and Culture. Journal of Cancer Education. 37, 798–805 (2020).
- 9. David, J., Thomas, S., Randle, M., Daube, M., Balandin, S.: The role of public health advocacy in preventing and reducing gambling related harm: challenges, facilitators, and opportunities for change. Addiction Research and Theory. 27, 210–219 (2018).
- Anand, S., Burke, E.K., Chen, T.Y., Clark, J.A., Cohen, M.B., Grieskamp, W., Harman, M., Harrold, M.J., McMinn, P., Bertolino, A., Li, J.J., Zhu, H.: An orchestrated survey of methodologies for automated software test case generation. Journal of Systems and Software/~ the œJournal of Systems and Software. 86, 1978–2001 (2013).
- 11. Weiss, G.L., Lonnquist, L.E.: The Sociology of Health, Healing, and Illness. (2017).
- Singh, R.P., Nagla, K.S.: Multi-data sensor fusion framework to detect transparent object for the efficient mobile robot mapping. International Journal of Intelligent Unmanned Systems. 7, 2–18 (2019).
- Carter, D.R., Allen, H.L., Fox, T.R., Albaugh, T.J., Rubilar, R., Campoe, O.C., Cook, R.L.: A 50-Year Retrospective of the Forest Productivity cooperative in the Southeastern United States: Regionwide trials. Journal of Forestry. 119, 73–85 (2020).
- Singh, R.P., Nagla, K.S.: Multi-data sensor fusion framework to detect transparent object for the efficient mobile robot mapping. International Journal of Intelligent Unmanned Systems. 7, 2–18 (2019).
- 15. Anand, R.: A study of determinants impacting consumers food choice with reference to the

fast food consumption in India. Society and Business Review. 6, 176–187 (2011).

- Altman, A.J., Campbell, C.L.: Effect of herbicides on plant diseases. Annual Review of Phytopathology. 15, 361–385 (1977).
- Nishimura, R.A., Otto, C.M., Bonow, R.O., Carabello, B.A., Erwin, J.P., Fleisher, L.A., Jneid, H., Mack, M.J., McLeod, C.J., O'Gara, P.T., Rigolin, V.H., Sundt, T.M., Thompson, A.: 2017 AHA/ACC Focused update of the 2014 AHA/ACC Guideline for the Management of Patients with Valvular Heart Disease. Journal of the American College of Cardiology. 70, 252–289 (2017).
- Evans, T.M., Sing, D.K., Goyal, J., Drummond, B., Carter, A.L., Henry, G.W., Wakeford, H.R., Lewis, N.K., Marley, M.S., Tremblin, P., Nikolov, N., Kataria, T., Deming, D., Ballester, G.E.: An emission spectrum for WASP-121b measured across the 0.8–1.1 μm wavelength range using the Hubble Space Telescope. Monthly Notices of the Royal Astronomical Society. 488, 2222–2234 (2019).
- Amuta-Jimenez, A.O., Smith, G.P.A., Brown, K.: Patterns and Correlates of Cervical Cancer Prevention Among Black Immigrant and African American Women in the USA: the Role of Ethnicity and Culture. Journal of Cancer Education. 37, 798–805 (2020).
- Scott-Sheldon, L. a. J., Hedges, L.V., Cyr, C., Young-Hyman, D.L., Khan, L.K., Magnus, M., King, H.M., Arteaga, S.S., Cawley, J., Economos, C.D., Haire-Joshu, D., Hunter, C.M., Lee, B.Y., Kumanyika, S., Ritchie, L.D., Robinson, T.N., Schwartz, M.B.: Childhood Obesity Evidence Base Project: A Systematic Review and Meta-Analysis of a New Taxonomy of Intervention Components to Improve Weight Status in Children 2–5 years of Age, 2005–2019. Childhood Obesity. 16, S2-48 (2020).
- Camlin, C.S., Cassels, S., Seeley, J.: Bringing population mobility into focus to achieve HIV prevention goals. Journal of the International AIDS Society. 21, (2018).
- 22. Olutayo, A.O., Àkànle, Oláyínká: Fast food in Ibadan: an emerging consumption pattern. Africa. 79, 207–227 (2009).
- De Lorenzo, R., Conte, C., Lanzani, C., Benedetti, F., Roveri, L., Mazza, E., Brioni, E., Giacalone, G., Canti, V., Sofia, V., D'Amico, M., Di Napoli, D., Ambrosio, A., Scarpellini, P., Castagna, A., Landoni, G., Zangrillo, A., Bosi, E., Tresoldi, M., Ciceri, F., Rovere-Querini, P.: Residual clinical damage after COVID-19: A retrospective and prospective observational cohort study. PloS One. 15, e0239570 (2020).
- 24. Scott-Sheldon, L. a. J., Hedges, L.V., Cyr, C., Young-Hyman, D.L., Khan, L.K., Magnus, M., King, H.M., Arteaga, S.S., Cawley, J., Economos, C.D., Haire-Joshu, D., Hunter, C.M., Lee, B.Y., Kumanyika, S., Ritchie, L.D., Robinson, T.N., Schwartz, M.B.: Childhood Obesity Evidence Base Project: A Systematic Review and Meta-Analysis of a New Taxonomy of Intervention Components to Improve Weight Status in Children 2–5 years of Age, 2005–2019. Childhood Obesity. 16, S2-48 (2020).
- 25. Sogari, G., Menozzi, D., Mora, C.: The food neophobia scale and young adults' intention to eat insect products. International Journal of Consumer Studies. 43, 68–76 (2018).
- Cohen, N.: Roles of cities in creating healthful food systems. Annual Review of Public Health. 43, 419–437 (2022).

Open Access This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (http://creativecommons.org/licenses/by-nc/4.0/), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

$\overline{(cc)}$	•	\$
	BY	NC