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Consumer Perceptions and Behaviours Toward Food Safety in Nigeria: A Systematic Review

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ABSTRACT

Background

Food safety significantly influences the global burden of disease, particularly in rapidly urbanising regions. In lowand middle-income countries such as Nigeria, there is limited understanding of how consumer concerns about food safety shape eating habits and dietary choices. This review aimed to synthesise evidence on food safety perceptions and how it influences consumer behaviour in Nigeria. The study examined existing research on Nigerian consumers' perceptions, attitudes, and behaviours regarding food safety, providing insights into knowledge gaps and areas requiring future investigation.

Methods

A systematic review was conducted following PRISMA guidelines. The PECO model guided the development of a comprehensive search strategy, initially applied to PubMed and adapted for other databases. Keywords relevant to food safety, consumer behaviour, and Nigeria were used. Reference lists of relevant studies were also screened. Inclusion criteria focused on peer-reviewed research that addressed consumer perceptions or behaviours related to food safety.

Results

Twenty-four studies met the inclusion criteria. Research was concentrated in urban areas, particularly the southwestern region, with prepared and ready-to-eat foods being the most studied. Most studies relied on single-method data collection, primarily structured surveys. Findings indicated that although participants generally had good knowledge of food safety, self-reported practices were often inadequate and in most cases absent or underreported. Methodological limitations, including lack of validated instruments and overreliance on self-reporting, were identified across several studies.

Conclusion

Future research should prioritise fresh produce and traditional markets, incorporate observational and qualitative approaches, and explore the cultural, social, and contextual factors influencing food safety

behaviours. Understanding consumers' motivations, perceptions, and values in specific cultural contexts will be critical to developing effective interventions to improve food safety practices in Nigeria.

Keywords: Nigeria; Food Safety; Consumers; Foodborne Disease; Perceptions; Practices

INTRODUCTION

Food safety remains one of the most pressing public health concerns globally, particularly in low- and middleincome countries (LMICs) (Liguori et al., 2022). Every year, an estimated 600 million people fall ill due to contaminated food, leading to approximately 420,000 premature deaths (Pires & Devleesschauwer, 2021; WHO, 2022). The burden is disproportionately higher in LMICs, which account for nearly two-thirds of all foodborne disease mortality (Wu et al., 2021). In Africa, the economic toll of foodborne illness is roughly 27 times greater than that in North America and Europe, a reflection of fragile healthcare systems that lack the capacity for effective detection and treatment (Nordhagen, 2022). Globally, these infections cost economies around \$20 billion USD annually (Hoffmann & Scallan, 2017).

Nigeria, like many LMICs, faces a significant food safety crisis. The country records an estimated 173 million cases of diarrhoea annually due to widespread foodborne diseases (Nordhagen, 2022). It has one of the world's highest fatality rates from foodborne illnesses, with approximately 2,300 under-five children dying each day (Grace et al., 2018). Food poisoning alone causes about 200,000 deaths annually, costing the government roughly USD 3.6 billion in treatment expenses (Zhu et al., 2021). Despite these alarming figures, consumer awareness and attitudes towards food safety remain poor. Many consumers in LMICs pay little attention to food expiry dates or the hygiene of preparation facilities (Onyeka et al., 2021), and studies have shown that consumer actions often contribute to, and exacerbate, public health problems (Stuempfig & Seroy, 2021). Unsafe consumer behaviour increases medical costs and disease transmission, straining healthcare systems and personnel (Nowshad et al., 2021). Understanding the variables—such as attitudes, motives, perceptions—that influence consumer decisions is therefore essential for promoting safer food practices (Aworh, 2021).

A stark disconnect exists between the perspectives of food producers and consumers. Consumers tend to prioritise taste, design, and nutritional value (Gizaw, 2019; Okoruwa & Onuigbo-Chatta, 2021), while manufacturers focus more on packaging and marketability (Wood et al., 2021). In Nigeria, many low-income consumers prioritise affordability over quality or

hygiene, often purchasing from street vendors simply to satisfy hunger rather than considering nutritional value or safety (Onyeaka et al., 2021; Kundu et al., 2021). As a result, unsafe food handling practices are widespread. Many vendors operate in unsanitary conditions with limited access to clean water, proper storage, or adequate waste disposal facilities (Nordhagen, 2022; Grace et al., 2018). Power outages further complicate food preservation, and a poor maintenance culture exacerbates existing infrastructural deficiencies (Parikh et al., 2022).

The lack of adherence to food safety measures among Nigerian food businesses is linked to regulatory shortcomings, poor consumer awareness, cultural norms, and economic pressures (Nordhagen, 2022). Regulatory agencies tend focus to on large manufacturers, neglecting the informal sector where most food consumed by the population is produced. Without clear and enforceable standards, food safety practices often rely on personal or traditional norms (Grace et al., 2018; Valente et al., 2019). In multicultural contexts, workers' adherence to traditional food handling customs can vary widely, affecting hygiene standards (Onyeaka et al., 2021). Some unlicensed vendors attempt to maintain better safety practices but are constrained by financial limitations or informal work arrangements (Umar et al., 2018).

Existing research on food safety in Nigeria has largely focused on ready-to-eat meals and food vendors, with relatively little emphasis on consumer perceptions (Kundu et al., 2021; Ndu et al., 2021; Okpala et al., 2021). Although consumer attitudes and behaviours are recognised as major determinants of food safety in highincome countries (Grace et al., 2018; Umar et al., 2019; Kwol et al., 2020; Ndu et al., 2021), this area remains underexplored in Nigeria. Economic circumstances, cultural beliefs, and religious values strongly shape how Nigerians perceive and respond to food safety risks (Madaki & Miroslava, 2021; Iwar, 2017; Odetokun et al., 2021). The government's efforts to address food safety through media campaigns have had limited success, as public engagement has not significantly altered consumer behaviour (Iwar, 2017; Ezirigwe, 2018; Okoruwa & Onuigbo-Chatta, 2021).

Reducing the burden of foodborne disease remains a major priority across LMICs, but limited resources and weak governance often impede the implementation of effective food safety standards (Grace et al., 2018; Onyeaka et al., 2021; Nordhagen, 2022). Even where regulatory systems exist, their impact on informal markets—where most consumers purchase food—is minimal (Boadu et al., 2020; Okoruwa & Onuigbo-Chatta, 2021). Contamination frequently occurs before food reaches consumers, and domestic food preparation

practices often fail to mitigate risks (Valente et al., 2019; Boadu et al., 2020). Understanding how to promote safe practices in these informal settings is therefore critical (Umar et al., 2018; Onyeaka et al., 2021; Nordhagen, 2022).

This review synthesises existing research on Nigerian consumers' attitudes and behaviours towards food safety, highlighting the interplay of socioeconomic, cultural, and regulatory factors. Nigeria presents a compelling case study due to its high prevalence of foodborne diseases and inconsistent enforcement of safety regulations (Grace et al., 2018; Jaffee et al., 2018; Okoruwa & Onuigbo-Chatta, 2021). Despite having numerous food safety laws, inspection and monitoring remain inadequate, and responsibilities across agencies are poorly defined (Valente et al., 2019). Regulatory bodies often lack the capacity for effective data collection, analysis, and outbreak response (Onyeaka et al., 2021). Additional challenges include adulteration, misbranding, and limited consumer education (Iwar, 2017; Ezirigwe, 2018; Okoruwa & Onuigbo-Chatta, 2021).

Focusing on consumer perceptions, this review contributes to understanding the sociocultural and behavioural dimensions of food safety in Nigeria and other LMICs. It underscores the urgent need for multidimensional strategies that integrate regulation, education, and cultural sensitivity to improve food safety outcomes and reduce preventable disease burdens.

METHODOLOGY

This systematic review followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines (Page et al., 2021; Rethlefsen et al., 2021) to ensure transparency, reproducibility, and methodological rigour. The overall aim was to appraise relevant studies, identify knowledge gaps, and provide evidence-based recommendations for research and policy.

Research Design

A systematic review design was selected as it enables comprehensive identification, evaluation, and synthesis of existing empirical studies (Higgins et al., 2022). This approach is particularly suited for multidisciplinary fields such as food safety, where studies vary in design, population, and outcomes. The review included qualitative, quantitative, and mixed-method studies that explored consumer attitudes, perceptions, and behaviours regarding food safety in Nigeria.

Search Strategy

A search strategy (Table 1) was developed using the Population, Exposure, Context, and Outcome (PECO) model (Morgan et al., 2018).

Table 1: Search Strategy

Population (P)	Exposure (E)	Context/Comparator (C)	Outcome (O)
Adolescent boys and girls (10-18 years)	Food safety	LMICs	Consumer behaviour
Adult men and women (19-65 years)	Food hygiene	Nigeria	
	Food contamination		
	Food adulteration		

To improve the search approach, preliminary searches were conducted to refine search terms and identify relevant keywords (see Table 2), verifying that pertinent studies were found using the search syntax. The search combined Boolean operators ("AND", "OR") and

truncation symbols to broaden coverage and ensure inclusion of all relevant literature. Search terms related to "consumer behaviour", "food safety", "food hygiene", and "Nigeria" were employed.

Table 2: Search Syntax

	OR		OR		AND		AND		AND	
adult*		adolesecent*		consumer*		food safety		Nigeria		diet*
						foodborne				food acquisition
						food handling				food purchas*
						food preparation				food habit*
						food hygiene				eating*
						food poisoning				food intake*
						food contamination				food consumption*
						safe food				food choice
						food packaging				food preference
						food storage				eating behaviour
						food scare				
						food sanitation				
						food quality				
						food adulteration				
						food inspection				

The final search strategy contained indexing words and text words unique to the various databases (see Table 3). The search syntax was initially created for PubMed and subsequently modified to meet the extra requirements of the other databases. The reference lists of pertinent

publications were also searched as a supplement to the first search. The last step was to utilise Google Scholar to find later publications that cited the papers found through searches that were judged to be of the highest quality. These papers were then reviewed for inclusion.

Table 3: Data Sources

Primary Database	Secondary Database	Websites
PubMed	Google Scholar	National Agency for Food and Drug Administration and Control (NAFDAC)
PsychInfo		Food and Agricultural Organisation
CINAHL		International Livestock Research Institute
		International Food Policy Research Institute
		World Health Organization
		World Bank

The search was conducted to capture contemporary and the most updated studies. Reference lists of key articles were manually screened to identify additional eligible peer-reviewed journal publications.

Inclusion and Exclusion Criteria

The inclusion and exclusion criteria are displayed in Table 4.

Table 4: Inclusion & Exclusion Criteria

Inclusion Criteria	Exclusion Criteria
Qualitative, quantitative, or mixed-methods study designs	Non-English publications
Studies that demonstrated a direct connection between consumer behaviour, exposure, and food safety	Non-human populations
Studies that focused on Nigeria or included Nigeria	Clinical populations
Studies that provided details on consumer attitudes or behaviour linked to food safety (contain any information, attitudes, or behaviours; deeds or practises; elements influencing dietary decisions, spending patterns, or price; or readiness to pay).	Studies that looked at the relationship between customers and food safety without clearly establishing a connection to dietary habits
Published, peer-reviewed research	Grey literature
	Studies on export markets
	Studies that were solely concerned with domestic food hygiene practises

Date of publishing was not a limitation for the search syntax.

Screening Process

The screening process was conducted in three phases: title, abstract, and full-text review. All retrieved articles were first screened by title to assess their relevance. Those that met the initial criteria proceeded to abstract screening, where eligibility was further evaluated against the inclusion criteria. Full-text versions of articles that passed the abstract stage were then examined in detail. Exclusion criteria were carefully applied and documented at each stage. References of included studies were subsequently reviewed to identify any additional relevant papers. To ensure thoroughness, previously excluded titles, abstracts, and full texts were revisited to confirm that no potentially relevant studies were overlooked.

Data Extraction

Data extraction was guided by a structured template designed to ensure consistency across studies. Extracted information included: author(s), publication year, study location, research objectives, sample characteristics, study design, type of consumer behaviour examined, and main findings. Extracted data were recorded in a spreadsheet for comparison and synthesis. Any discrepancies in extraction were resolved through discussion and verification with a second reviewer.

Quality Assessment

The methodological quality of included studies was assessed using a modified version of the Kmet Quality Appraisal Tool (Kmet et al., 2004). This tool allows appraisal of both qualitative and quantitative studies through clearly defined criteria such as research clarity, data collection methods, analytical rigour, and validity of conclusions. No studies were excluded based solely on

quality; however, quality scores were used to inform the interpretation of findings during the synthesis.

Data Analysis

A narrative synthesis was performed to integrate and interpret findings across diverse study designs (Popay et al., 2006). Thematic analysis identified recurring patterns related to consumer risk perception, knowledge, attitudes, and behavioural practices regarding food safety. Quantitative synthesis (meta-analysis) was not feasible due to heterogeneity in study designs, measures, and outcomes. The analysis instead focused on identifying overarching themes and contextual factors influencing consumer perceptions in Nigeria.

RESULTS

Identified Studies

A total of 24 studies met the inclusion criteria for this review (see Figure 1). The PRISMA diagram illustrates the systematic selection process from initial identification to final inclusion. Out of 301 full-text articles screened, 276 were excluded because they did not meet the eligibility criteria 132 were not directly related to food safety, 110 lacked behavioural outcomes, 21 had no Nigerian focus, 9 were non-human studies, and 4 were not published in English.

Most included studies were published between 2005 and 2020, with a significant increase after 2015, representing nearly half (44%) of the total. Four-fifths (80%) were published after 2010, reflecting growing scholarly and policy interest in consumer food safety behaviours in Nigeria (Adebowale and Kassim, 2017; Adebisi et al., 2020).

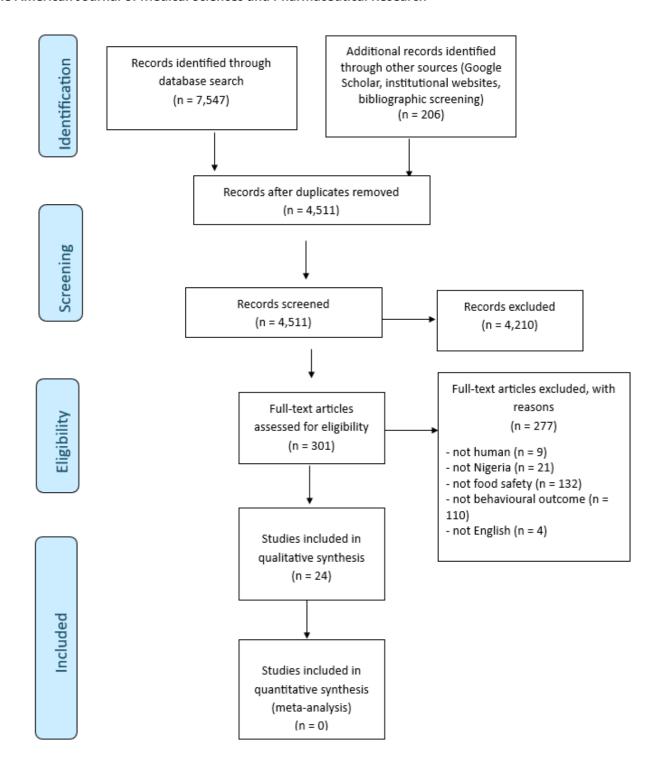


Fig. 1. PRISMA Flow Diagram

Study Characteristics

All but one research was centred on the states of Nigeria. The other research (Odeyemi et al., 2019) included Nigeria in a cross-national comparison. Eighteen studies (75%) focused solely on one Nigerian state, three (0.1%) on two, one on five, and the other two (0.1%) on unspecified number of states. The distribution of studies in Nigeria was uneven, with only 36% of states (13/36) having studies. Only one study was found in each of six states (Ondo, Ekiti, Niger, Kaduna, Edo, Kogi). Six

states (Lagos, Ogun, Kwara, Osun, Oyo, Imo) had two or more studies. Most research was concentrated in the south of the country, particularly the southwest. The country's northern region had the least number of studies. Approximately one-third (33.3%) of the studies examined urban regions, while 25% looked at rural areas, 16.7% looked at both urban and rural areas, and the remaining 25% did not indicate whether they were looking at rural or urban areas.

Almost all the studies (23/24) had a strong consumer

emphasis. Only one study (Uchendu, 2018) examined both consumers and vendors. Twelve studies (22%) examined specific foods and drinks (sweet potato, suya, dog meat, chicken eggs, sugar, vegetable oil, chicken, organic vegetables, peanut cake, bread, garri, bush meat, pepper soup, Ngwongwo, sachet water, local gin). The others, who focused on food safety as a general concept that applied to all food types, avoided focusing on any particular food.

Data Extraction

Extracted information included study characteristics, aims, methods, outcomes, and key findings related to consumer knowledge, perceptions, and behaviours toward food safety in Nigeria (see Appendix 1). Most studies were cross-sectional, focusing primarily on urban consumers in southern states, and relied on structured questionnaires. The evidence consistently showed that while awareness of food safety risks was relatively high, this did not always translate into safer purchasing or consumption behaviours. Socioeconomic factors such as income, education, and location strongly influenced consumers' willingness to pay for safer foods and their access to hygienic outlets. Several studies also highlighted misconceptions about food contamination and a general lack of trust in informal food markets.

Quality Assessment

This review employed a structured quality appraisal framework (Kmet Quality Appraisal Tool) to assess methodological rigour across the included studies. The tool was selected for its comprehensive coverage of key criteria such as research design, subject selection, outcome measures, and data analysis. However, many studies lacked sufficient reporting detail, particularly in areas such as randomisation and blinding, which were marked as not applicable due to the predominance of non-experimental designs.

Despite these limitations, the included studies demonstrated satisfactory methodological quality overall. Most clearly articulated their research employed objectives, appropriate designs, adequately reported analytical methods (Akinbode et al., 2012; Ajayi and Salaudeen, 2014). Reflexivity was evident in several studies, though randomisation and blinding were understandably absent given the behavioural focus of the research. Common limitations included small sample sizes and incomplete reporting of variance estimates. Nevertheless, conclusions were generally supported by the data (Ologbon et al., 2019), offering a reasonable degree of confidence in the findings.

While formal categorisation into high, medium, or low quality was not feasible due to incomplete reporting, the appraisal process highlighted important trends in methodological transparency. Future reviews may

benefit from using alternative tools—such as the Mixed Methods Appraisal Tool (MMAT) or CASP checklists—that offer greater flexibility for assessing qualitative and observational research. Detailed quality ratings are summarised in Appendix 2.

Data Analysis

To ensure clarity and coherence in presenting the findings, the data analysis is organised around key themes that emerged from the reviewed studies. These themes reflect patterns in consumer attitudes, perceptions, and behaviours toward food safety in Nigeria. Each theme captures a distinct aspect of how consumers make choices about what they eat, where they purchase food, and how they assess safety risks in different contexts. The themes also explore behavioural adaptations to food contamination concerns and the growing preference for packaged foods as a perceived safeguard against adulteration and poor hygiene.

What consumers buy

Which foods were considered to be safe depended on the freshness of the food and the expiration dates on packaged items (Adebowale & Kassim, 2017; Ologbon et al., 2019). Consumer purchasing decisions were frequently impacted by variables such consumer understanding of food safety, past experiences with foodborne illness, and fears about the safety of certain foods. Customers who have already had a foodborne illness lacked confidence while choosing healthy produce. Compared to less frequent buyers, those who often bought vegetables said they paid greater attention to the safety of the produce. Having access to safer foods was hampered by little awareness on food safety.

Where consumers buy

Shopping patterns reflected a balance between trust, convenience, and affordability. Many consumers shifted to smaller or less-known suppliers to minimise exposure to pesticide-contaminated foods (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). Traditional food sources, such marketplaces or street sellers, were less secure but easier for customers to reach. Customers recounted changing where they bought goods to less well-known producers, which includes putting in the effort to travel to more remote areas to get safer food, as their trust in local production increased.

Before buying food at a particular food outlet, customers evaluated the cleanliness and orderliness of the outlet as well as the procedures used by the food handlers, the food displays, packaging, and climatic controls, including in-store refrigeration (Uchendu, 2018). The supermarket was frequently mentioned as a source of secure food. However, consumers also thought that the supermarket's safe food selection was more costly and less fresh. Urban customers who spent more

of their money on food and could afford to purchase at supermarkets had greater concerns about food safety (Adesope et al., 2010; Akinbode et al., 2012; Ajayi & Salaudeen, 2014; Adebowale & Kassim, 2017). Rural customers were reliant on traditional food vendors since they could not afford to purchase at supermarkets (Dontsop et al., 2011; Falola, 2014; Ayinmode et al., 2019; Uchendu, 2018; Awoyemi et al., 2019; Ologbon et al., 2019; Adebisi et al., 2020).

The decision to buy safe foods was impacted by social connections, including guidance from family and friends. Developing a relationship with and trusting a food vendor was a way to lower risk and increase safety, especially in unofficial food establishments. Buying animal products from reputable butchers was another tactic used to guarantee food safety (Uchendu, 2018).

Eating out of home

Consumers dined out less often because of concerns about food safety, especially contamination with pesticides and chemicals (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). A decrease in dining out was also associated with greater knowledge of the dangers associated with unsafe food practices (Osagbemi et al., 2010; Uchendu, 2018).

Participants indicated other environmental aspects that affected their choice of eating outlets that had to do with food safety. Where food was cooked, prepared, and sold raised safety issues as well. This demonstrated the relevance of the vendor's surroundings as well as the cleanliness of the immediate food setting. When customers ate out of the house, they frequently reported purchasing food after inspecting the vendor's and the nearby environment's sanitation. Customers evaluated a food outlet's sanitation using their knowledge of food safety and past exposure to foodborne illness. Customers who were worried about the cleanliness of food vendors or outlets were likewise more inclined to dine at restaurants than in bukas (Akinbode et al., 2012; Ajayi & Salaudeen, 2014; Ugoani & Ewuzie, 2016; Uchendu, 2018). Customers pay the attention to immediate hygiene of the restaurant's environment and notice the fresh air, displays, and food cleanliness, served encourages them to go there more frequently.

When compared to home-cooked meals, street food was typically distrusted and seen as being of inferior quality. The safety of food supplied by street vendors is not widely believed by customers. Urban customers would be prepared to pay extra for foods that are secure and clean (Adesope et al., 2010; Akinbode et al., 2012; Ajayi & Salaudeen, 2014; Adebowale & Kassim, 2017). Some customers choose restaurants based on their reputation or level of trust rather than on observing how well the food was handled (Uchendu, 2018). Other shoppers

continue to take chances and make shady street vendor purchases. Consumers were influenced to keep choosing to dine out by affordability, preferences, and flavour. As food vendors and their products were seen to be unclean, some customers urge close relatives to eat meals, particularly breakfast, at home to lower the risk of exposure to foodborne diseases.

Food contamination

Because of their concern over the usage of chemical fertilisers and pesticides during manufacturing, consumers are reluctant to eat fresh vegetables and fruits (Adesope et al., 2010; Akinbode et al., 2012; Falola, 2014; Emmanuel, 2016; Temitayo, 2017; Ben-Chendu, 2018; Ologbon et al., 2019; Awoyemi et al., 2019). Therefore, due to worries about food safety, less people consume vegetables.

Food safety concerns have had an impact on the consumption of meals derived from animals in addition to fruits and vegetables. Due to worries about food safety, consumers purchased fewer meat, poultry, and dairy goods (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). By consuming less fish and poultry, consumers also lessened the perceived danger of chemicals, including contamination with pesticides and hormones. Consumers were more inclined to consume less animal-sourced proteins if they had previously experienced a food-borne illness.

Packaged foods

Consumers choose packaged goods because of concerns about food adulteration, food outlet sanitation, vendor hygiene, food presentation, perceived food quality and freshness, and family safety (Danilola et al., 2017; Odeyemi et al., 2019; Ologbon et al., 2019; Balogun et al., 2020). Consumers increasingly preferred packaged foods as a result of the usage of product labels to determine if food was healthy.

DISCUSSION

The objective of this research was to compile information on how consumer behaviours and lifestyles in Nigeria may be impacted by food safety. Previous studies on Nigerian consumers' attitudes and practises related to food safety were investigated. The included papers demonstrate Nigeria's increased interest in food safety research in recent times. The review indicates that consumer choices about where to buy, consume, or procure food are influenced by concerns about food safety, including about contamination with pesticides and chemicals.

Concerns about food safety cause consumers to alter their food purchasing habits. Even though eating out is a prevalent behaviour in Nigeria, the research suggests that customers may avoid or limit eating out due to worries about food safety (Adesope et al., 2010;

Akinbode et al., 2012; Falola, 2014; Emmanuel, 2016; Temitayo, 2017; Ben-Chendu, 2018; Grace et al., 2018; Ologbon et al., 2019; Awoyemi et al., 2019). Contrarily, food that was farmed and prepared at home was seen to be healthy and safe. Some customers continue to dine outside the home despite their awareness and worry, either because they have no other options or because they love street cuisine. Additionally, the accessibility, affordability, and convenience of street food may exceed or even take precedence over customers' worries about food safety.

Home food safety procedures are frequently employed to make sure that food is safe to consume, such as hygienic and clean vegetable preparation and appropriate storage techniques. However, the amount of time needed to correctly prepare food is frequently highlighted as a hurdle (Ezekiel et al., 2013; Uchendu, 2018; Odeyemi et al., 2019). Additionally, if people buy and eat fewer perishable items, such as fruit and vegetables, because of worries about food safety, diet quality may decline. There were several allusions to the predilection for foods with a lot of processed ingredients, even if packaged meals are not always nutritionally inferior.

The hazards associated with food safety are assessed and managed by consumers, who are generally unaware of the issues. Consumers expressed their dissatisfaction with the use of pesticides in food production and their lack of faith in the food system (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). This may be a result of consumers' lack of faith in national rules or inefficient risk communication techniques that fail to raise awareness of food safety issues and reduce consumer risk. Customers frequently mentioned buying from reliable merchants to allay their worries. As customers accumulate safe food over time, trustworthy vendors provide a safety net and a more concrete means to lower risk than relying on national laws in the food chain.

Customers believe that food sold in formal settings such as supermarkets—is safer than food sold in casual contexts because formal food outlets frequently maintain private food safety inspections requirements. Despite this assumption, there is little information on the level of food safety at various establishments (Liguori et al., 2022). Some clients purchase veggies and products made from animals online and have them transported to their urban residences. Due to the COVID-19 pandemic, this attitude among consumers appears to be growing, creating new difficulties for reassuring customers and guaranteeing food hygiene distribution networks (Inegbedion, 2020; Ejeromedoghene et al., 2020; Ilesanmi et al., 2021). However, customers in rural areas confront other difficulties since online fruit and vegetable purchases from supermarkets are pricey and inconvenient alternatives (Ayinmode et al., 2015; Awoyemi et al., 2019; Adebisi et al., 2020). Given that there may not be many options, impoverished consumers may choose to purchase what is offered despite worries about food safety. It is crucial to consider the preferences and needs of rural consumers to prevent adverse impacts on purchasing, consumption, and livelihoods.

Urban environments in Nigeria are undergoing a nutrition transition, raising serious concerns about food safety, environmental cleanliness, contamination, and adulteration—all of which may further depress the already low intake of fruits and vegetables in certain areas. Even though many Nigerians cannot afford healthy diets (Maziya-Dixon et al., 2021; Onwujekwe et al., 2021), the avoidance of fresh produce due to safety fears risks exacerbating the already high consumption of highly processed foods and sugary drinks, undermining both current dietary needs and long-term sustainable development goals. This situation is compounded by the lack of efficient storage systems for fresh fruits and vegetables, such as refrigeration units that rely on a stable electricity supply—an infrastructure challenge that remains unresolved in many parts of Nigeria. Recent assessments estimate that Nigeria needs an additional 50,000 tonnes of cold storage capacity to address post-harvest losses, particularly for perishable produce like fruits and vegetables (Akinyele & Rayudu, 2020; International Institute of Refrigeration, 2025).

In this evaluation, roughly half of the research examined consumer behaviours towards prepared, ready-to-eat food. Although there should be more attention paid to unprepared meals and ingredients, some attention to ready-to-eat foods is justified given the high incidence of infections (Galadima, 2021; Odo et al., 2021). Fresh fruits and vegetables are particularly understudied while being nutritious, underproduced, very underconsumed across most of Africa. In Nigeria, these foods are also known to enhance the danger of foodborne illness (Adesope et al., 2010; Akinbode et al., 2012; Falola, 2014; Emmanuel, 2016; Temitayo, 2017; Ben-Chendu, 2018; Grace et al., 2018; Ologbon et al., 2019; Awoyemi et al., 2019).

Open-air markets were shown to be understudied despite their significance to Nigeria's food chain. These marketplaces are where most of the food consumed by those with lower incomes is purchased, and they have recently come under fire due to concerns about illness (Osazuwa-Peters, 2021; Adesokan et al., 2021; Apata et al., 2021). Studies also frequently concentrated on just one region of Nigeria, primarily the southwest and metropolitan regions. Thus, there is a need for further regional comparison study along with more studies that concentrate on rural and northern regions.

The quantity of research that has already been done indicates that Nigerian foods have low microbiological quality, with most of the studies concentrate on meals with an animal source. These are the source of the parasitic and bacterial pathogens that cause foodborne illnesses, as evidenced by the high amount of contamination found in the studies that were included (Ben-Chendu, 2018; Ologbon et al., 2019; Awoyemi et al., 2019). Fresh fruits and vegetables, the other highly nutritive and risky food category, have likewise gotten less emphasis in Nigeria. Future studies should concentrate on regional, traditional marketplaces when looking at consumers' views of food safety in relation to fresh produce. In Nigeria, traditional markets provide most poultry, dairy, and fresh fruit offered to people in rural areas. Despite the crucial role that these marketplaces played in ensuring that consumers had access to secure nutrition, it was discovered that they were severely underrepresented in the research that were examined. It is also advised to concentrate on ready-to-eat meals since they are becoming more and more popular in Nigeria and because information from this research indicates that they are just as polluted as raw foods (Adesope et al., 2010; Akinbode et al., 2012; Falola, 2014; Emmanuel, 2016; Temitayo, 2017; Ben-Chendu, 2018; Grace et al., 2018; Ologbon et al., 2019; Awoyemi et al., 2019).

This study notes that while vendor food handling and cleanliness procedures have been the focus of most food safety research in Nigeria, little has been done to explore the vendors' beliefs, attitudes, and motives or the obstacles that could affect their behaviours. This is consistent with international research, as are the subpar procedures shown in most investigations (GAIN, 2020; Parikh et al., 2022). Although it was found that knowledge of food safety and behavioural attitudes were acceptable, a gap still exists in the implementation of learned behaviours, maybe due to the propensity to overreport more favourable characteristics while underreporting socially unacceptable behavioral patterns (a term aptly called 'social desirability') (Parikh et al., 2022). More practice-based observational studies might yield more precise data on food safety procedures (Nordhagen, 2022). Additionally, a more thorough analysis incorporating the triad of information, attitudes, and behaviours, as well as motives and incentives that might affect better food safety-related activities, would be beneficial (Parikh et al., 2022). Curiously, the papers that were evaluated likewise point to a consistency in consumers' perceptions of the reasons behind their food choices, the use of physical characteristics to judge the quality and safety of foods derived from animals, and the adoption of practises that eliminated or decreased their level of risk or concern regarding food safety. Since these studies are crucial to support food safety programmes in Nigeria, obvious need for more action exists, maybe with alternative techniques to impact a persistent change in behavioural attitudes.

The studies covered here contain a few methodological flaws and gaps that make it challenging to evaluate views and practises of food safety in-depth. Most of the studies under consideration used a cross-sectional survey methodology and used a range of questionnaires, none of which appeared to have been pre-tested, validated, or reliability-tested before use. This absence of uniform techniques for evaluating food safety can make it difficult to make meaningful comparisons and perhaps combine the available data to generate regional or national perspectives on food safety (Nordhagen, 2022; Parikh, 2022). The bulk of these research used structured survey techniques, which have the disadvantage that they are limited in their capacity to give in-depth insights into the beliefs, obstacles, motivations, and incentives that may affect the application of information in practise.

Additionally, the reported studies lacked a theoretical foundation and reported just the knowledge, attitudes, and behaviours of the samples under investigation. Food safety perspectives and behaviours may be better understood by using theoretical frameworks on health behaviour or behavioural change, for example the Protection Motivation Theory (PMT) or Theory of Planned Behaviour (TPB). Although there are examples of studies that do employ theoretical basis, such as some applying the TPB (Ruby et al., 2021; Imani et al., 2021; Mughal et al., 2021), significant gaps have been observed in other assessments of food safety research (Bass et al., 2021; Parikh et al., 2022). Future study should consider theory-based approaches to better understand the function of the consumer within the context of the food system, as well as to identify beliefs and practises connected to food safety. Furthermore, compared to research knowledge and attitudes, intervention studies targeting practises or behavioural intents are likely to give a more accurate indicator of efficacy (Mullan et al., 2015; Ruby et al., 2019).

To promote food safety in Nigeria, facilities and material support are necessary. The papers reviewed here consistently noted a lack of appropriate training, a lack of sanitation and water facilities, a lack of equipment, a lack of incentives, and a lack of effective monitoring and compliance regulations (Adesope et al., 2010; Akinbode et al., 2012; Falola, 2014; Emmanuel, 2016; Temitayo, 2017; Ben-Chendu, 2018; Grace et al., 2018; Ologbon et al., 2019; Awoyemi et al., 2019). These basic challenges demand significant structural and policy changes.

Proof emanating from this research highlights how important food safety and cleanliness are in Nigeria at all phases of the food supply network. In an ideal situation, this would involve investigating the interaction between

customers and vendors with respect to behaviours surrounding food safety (Opia, 2020; Mughal et al., 2021; Imani et al., 2021).

The interaction of gender and food safety received less attention in the studies analysed. It will be crucial to do a more thorough gender analysis when designing interventions to improve food safety because women serve as the gatekeepers for food preparation, processing, consumption, and retail (Parikh et al., 2022; Nordhagen, 2022).

It will be crucial to incorporate additional cultural concerns while conducting more study in this area (Anyam et al., 2013; Ugoani & Ewuzie, 2016; Balogun et al., 2020). Cultural practises that can be improved upon have developed to control threats to food safety. Such study will probably not be able to depend on surveys and closed-ended questions, but instead will need to use methods from the behavioural sciences, which may be more suited to examining deeply the motivations underlying behaviours and perceptions.

In light of the overall findings, consumers are shown to have worse food safety habits than their self-reported food safety knowledge and attitudes would imply. This shows that if food safety interventions are to have an impact on behaviours, they must go beyond raising knowledge to include raising motivation, for instance by offering incentives (Opia, 2020; Mughal et al., 2021; Imani et al., 2021). This contrasts with the recommendations given by most of the research that were examined, which tended to emphasise teaching and raising awareness, even when the study had not shown that a lack of knowledge caused bad practises or exposure to risks. Therefore, alternative approaches are required to alter food safety behaviour. It is necessary to have a better grasp of underlying attitudes and beliefs to build treatments that address motives.

Available infrastructure must be improved if food safety in Nigeria's marketplaces is to be restored (Ejeromedoghene et al., 2020; Ilesanmi et al., 2021). According to research presented here that involved assessments of the environments where vendors operate, it was typically determined to be insufficient from the standpoint of food hygiene, particularly in relation to access to water, soaps, and basic sanitation.

It is also usual to utilise labelling strategies to improve food safety; however, the findings of the studies reviewed here raise concerns about the applicability of such strategies in Nigeria. In addition to being utilised inconsistently, labels were also linked to problems with trust in other studies (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). Furthermore, even while research on willingness to pay typically reported positive willingness-to-pay attitudes, this was frequently of a minor scale and related to higher earnings and levels

of education. Therefore, there is insufficient data to draw the conclusion that labelling would be successful, necessitating more, high-quality study.

Summarily, the research under consideration discovered a steady relationship between educational attainment, household income, and expertise in or use of food safety. Therefore, it's critical to customise treatments for consumers with lesser incomes and less education.

STRENGTHS AND LIMITATIONS

This review followed a rigorous PRISMA-guided process to ensure systematic inclusion and transparent reporting. Through the development of a new analytical framework grounded in the socio-ecological model, food safety concerns were examined across multiple levels of influence. This approach enabled a deeper exploration of consumer behaviours and lifestyles, areas that are often overlooked in existing research. By closely analysing the links between exposure and outcomes, the review provided a clearer understanding of how food safety concerns shape purchasing and consumption patterns.

Some earlier studies were excluded because only articles accessible online were considered. In addition, the review was limited to studies published in English, meaning that relevant research in other languages may not have been captured. Although grey literature was included in the search parameters and relevant websites and databases were consulted, the search was not exhaustive, and a few studies were likely missed.

Despite these limitations, the synthesis offers a comprehensive evidence base for understanding consumer perceptions of food safety in Nigeria and highlights key research and policy priorities for advancing safer and more equitable food systems.

DIRECTIONS FOR FUTURE RESEARCH

Future research should adopt mixed methods designs with larger, more representative samples to capture both perceptions and actual practices. Triangulating self-reported behaviours with microbiological or biochemical assessments will clarify discrepancies between perceived and real risks (Parikh et al., 2022; Nordhagen, 2022). Studies should also explore links between food safety, nutrition, and chronic disease prevention, aligning with broader sustainable development goals.

Based on the requirement for participatory engagement, further research into retail establishments and their categorizations would be beneficial. Direct measurements of how customer satisfaction, risk perception, and purchasing behaviour are affected by food safety are also required.

Since most studies did not completely evaluate customer behaviour and even less research gathered information on real diets, it was challenging to make a

direct connection between influencing variables and outcomes. Data on specific behaviours and practises are required to identify potential for future, tailored, and individualised food safety initiatives (Mullan et al., 2015; Ruby et al., 2019).

The employment of a systematic approach to food researchers and decision-makers recommended to completely address food safety issues (Parikh et al., 2022). Policies and practises that emphasise nutrition, chronic illness, and overweight/obesity must incorporate food safety (Ruby et al., 2019; Nordhagen, 2022). Neglecting this consumer behaviour focus on food safety research should be especially important for expanding policies and programmes on overweight/obesity in Nigeria and the entire continent of Africa.

Moreover, theoretical models of behaviour change should guide the design of interventions. Engaging consumers, vendors, and regulators through participatory methods can generate practical insights and context-specific strategies.

RECOMMENDATIONS

Stronger evidence on the nature, scope, and potential solutions to food safety problems are essential for reasonable investment in enhancing food safety. Even though regional data and a systematic review have been utilised to offer information on these, the estimations are best approximations and need to be verified on the field. Some information could come from primary research, but there needs to be evidence relevant to the locality (Parikh et al., 2022; Nordhagen, 2022).

More work should be done to appreciate the costs associated with foodborne illness, its prevalence, the advantages and disadvantages of unofficial commerce, and food fraud at the regional level (Agbaje & Oloruntoba, 2018; Opia, 2020; Onyeaka et al., 2022). The most prevalent infections in each region of the nation are mostly manageable using a risk-based approach. Risk-based solutions that are specific to regions should be implemented when their significance has been confirmed, along with detection of high-risk food chains and value systems.

Donors and other stakeholders need to be more knowledgeable and aware of foodborne illness. The distinction between sources of exposure, hazards and risks, the advantages of prioritising food safety issues, the benefits of directing resources where they can be probability most helpful, the of unforeseen circumstances, and the advantages of tying agriculture and healthcare policy together should all be better understood. By fostering communication and building capacity, this understanding can be developed (Black et al., 2016; Spink, 2019; Parikh et al., 2022).

Numerous endeavours to enhance the agricultural and

value chain management techniques in Nigeria have had some success (Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018; Opia, 2020). Many of these have goals that include food safety. Nonetheless, this systematic review asserts that food safety will not automatically occur unless it is properly handled by knowledgeable professionals. There is plenty of room to expressly include food safety into current development plans.

Interventions that target conventional and small-scale industries only touch the surface and rely heavily on incentives in the lack of a substantial evidence base. Policy may instead be influenced by perceptions of consumers, special interests, and pressures on the government (Parikh et al., 2022; Nordhagen, 2022).

There is a need to expand education programmes about food safety that are aimed at either the general public or food merchants in particular. The enforcement of present regulations, as well as need for better regulations, were frequently mentioned as key areas for improvement (Osagbemi et al., 2010; Dontsop et al., 2011; Anyam et al., 2013; Emmanuel, 2016; Temitayo, 2017; Uchendu, 2018). Food quality may be raised through accreditation, labelling, and certification programmes. The majority of Nigeria's food system is dependent on the informal sector, which may have a substantial influence on both human and economic value, making it vital to improve and upgrade the standards of food hygiene (Parikh et al., 2022; Nordhagen, 2022).

CONCLUSION

This systematic review synthesised 24 studies examining Nigerian consumers' attitudes and behaviours toward food safety. The analysis revealed that most studies were conducted in the southwest and urban regions of the country, with a predominant focus on prepared and ready-to-eat meals. The majority relied on structured self-reported surveys as their primary method of data collection, often with limitations such as unclear sampling methods and poorly designed questionnaires. While awareness of foodborne risks is increasing, significant behavioural gaps persist, driven by poor infrastructure, weak regulatory enforcement, and entrenched cultural practices.

Beyond consolidating existing evidence, this review identifies important priorities for future research. Greater attention should be directed toward fresh produce and traditional marketplaces, as well as toward understanding the underlying motives, beliefs, and values shaping consumer perceptions of food safety within diverse cultural contexts. Future studies would benefit from adopting theory-informed, mixed-methods or observational designs that move beyond self-reported data to capture real-world practices more accurately.

Given that Nigeria's population and rate of urbanisation continue to grow, the prevalence of foodborne illnesses is likely to rise unless proactive measures are taken. Strengthening food safety must therefore become a central component of the nation's development and public health agenda, ensuring equitable access to safe and nutritious food for all citizens.

AUTHOR CONTRIBUTION

The lead author, Biokoro Ejimerhomu Jennifer, and the supervising author, Kennedy Oberhiri Obohwemu, jointly contributed to the conceptualisation, study design, coordination, and primary drafting of the manuscript. All authors contributed to the literature review, critical appraisal, interpretation of findings, and provided feedback on successive drafts. All authors approved the final version of the manuscript.

CONFLICT OF INTEREST

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Appendix 1: Data Extraction

	State,	Research	Recruitment	Outcomes	Findings	Comments
	Region	Focus				
Author,						
Year						
Adebisi, 2020	Kwara	To determine the knowledge, acceptability, and readiness to pay of consumers in Kwara State, Nigeria for orange flesh sweet potatoes (OFSP).	The study's respondents were chosen using a three-stage sampling technique. Three (3) local council areas (Edu, Ifelodun, and Patigi) in Kwara State, which are mostly used for the cultivation of orange flesh sweet potatoes, were chosen for this purpose in the first stage. The second stage included choosing four local governments' communities at random. In the third round, we chose 20 households at random from each neighbourhood. 240 agricultural households make up the sample. In front of other family members, in-person interviews with the household leader were conducted. A standardised questionnaire was utilised to gather data on socioeconomic indicators, consumer awareness of the health advantages of orange-fleshed sweet potatoes, consumer perception and readiness to pay for	Consumer behaviour, Willingness to pay	Of the respondents, 65% acknowledged the health advantages of OFSP, and in the research region, 89.3% of customers were most willing to spend more than the bid price for OFSP. Additionally, the household head's age, household size, education, bid amount, and knowledge of the health advantages of OFSP have a big impact on how eager customers are to pay for OFSP. The rarity of OFSPs, the difficulty of cooking, their perishability, and their price are all barriers to their consumption.	The public should be made more aware of the advantages of OFSP above its indigenous equivalent through research institutions, extension organisations, health professionals, NGOs, and the media. This will increase consumption and lessen vitamin a micronutrient deficit. Additionally, OFSP should always be made accessible at affordable costs because high bid amounts may turn off prospective customers.
			as any deterrents.			
Adebowale & Kassim, 2017	Ogun	1. To assess household consumer awareness of food safety and associated behaviours in rural and urban	120 volunteers who volunteered to participate in the study were given the study's idea and goals before the survey instrument was given to them (Figure 1). Because it was a	Consumer knowledge of food safety	Data indicated that both rural and urban customers were poorly informed about food safety procedures and unaware of foodborne diseases. There was a considerable difference in household consumer knowledge of foodborne infections and their related difficulties between rural and urban areas. The marital status of the respondents and their	Food-related diseases and a lack of consumer understanding about food safety have been noted, highlighting the pressing need to enhance food safety education, including household cleanliness standards in Nigeria.

		CO	1 1 1	I	1 . 1	T
		areas of Ogun	pilot research and		understanding of food safety and	
		State, Nigeria.	there were funding		procedures were related.	
			constraints, only 120			
			participants could be			
		2 To 1 - 1 - 4	included in the study.			
		2. To look at	This study addressed			
		the	household customers,			
		respondents'				
		knowledge of	in particular those			
		food safety and	between the ages of			
		the links	16 and above who			
		between their	often handle or			
			prepare food. Finally,			
		demographics	61 rural and 59 urban			
		and their	household			
		awareness of				
		foodborne	participants were			
		diseases.	signed up, albeit it's			
			possible that these			
			numbers don't			
			accurately reflect			
		1	Ogun State's home			
		1	consumer population.			
		1				
		1	The completion of a			
			questionnaire was			
		1	helped by non-			
			educated rural			
			customers who			
			interpreted the			
			questions to make			
			them easier for others			
			to comprehend. The			
			distribution of the			
			questionnaires took			
			place during the			
1			workweek.			
Adesope,	Oyo	To find out if		Willingness to	Less people (33.3%) who use sugar and	Compared to vegetable oil, consumers are more
Adesope,	Oyo and	To find out if households in	workweek.	_	Less people (33.3%) who use sugar and (43.8%) and consume vegetable oil had	
	and	households in	workweek. Lagos and Oyo, the two most densely	pay (WTP),	(43.8%) and consume vegetable oil had	prepared to pay for information on the food
		households in South-Western	workweek. Lagos and Oyo, the two most densely populated and	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns	
	and	households in South-Western Nigeria are	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in	pay (WTP),	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of	prepared to pay for information on the food
	and	households in South-Western Nigeria are prepared to	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income
	and	households in South-Western Nigeria are	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income
	and	households in South-Western Nigeria are prepared to pay for safety	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states,	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil.	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected.	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected.	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-,	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and highincome regions. In all, 390 customers	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and highincome regions. In all, 390 customers	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled,	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and 210 Lagos residents.	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and 210 Lagos residents. Using a standardised	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and 210 Lagos residents. Using a standardised questionnaire, data	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and 210 Lagos residents. Using a standardised questionnaire, data on socioeconomic,	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety
	and	households in South-Western Nigeria are prepared to pay for safety labels on sugar and vegetable	workweek. Lagos and Oyo, the two most densely populated and metropolitan states in the South-West, were purposefully chosen (SW). Based on a likelihood related to the size of the states, five Local Government Areas (LGAs) were randomly selected. Respondents were chosen at random from three strata in each LGA: low-, medium-, and high-income regions. In all, 390 customers were sampled, including 190 Oyo residents and 210 Lagos residents. Using a standardised questionnaire, data	pay (WTP), Consumer	(43.8%) and consume vegetable oil had sufficient knowledge regarding concerns about food safety. Consumer knowledge of vitamins A in vegetable oil is higher (66.3%) than that of sugar (21.1%). The mean WTP for consumers seeking information on food safety was N36.41k/kg for sugar and N15.98/liter for vegetable oil. For both sugar and vegetable oil, this amounted to an equity risk premium of 91.3% and 53.3% of the highest bid for	prepared to pay for information on the food safety of sugar. However, purchasing from a registered store and having a high income enhanced customers' desire to pay for a safety

			safety characteristics			
			were collected.			
Ajayi &	Osun	To establish	The poll was carried	Awareness of	Every single respondent routinely eats	Although consumers may be aware of food
Salaudeen,	and	the level of	out between	food safety	somewhere other than their house. The	dangers, this awareness hasn't led to a change in
2014	Lagos	consumer	February and March		majority of customers favoured covered	eating habits, hence initiatives should be
		knowledge of	2013 to assess the		eateries, although 14% chose to dine at	
		food safety in	public's dangerous		open canteens and on the streets. 30% of	focused on enhancing food standards in Nigeria.
		Nigeria and to	eating habits,		people use their fingers or utensils to eat.	
		identify certain	understanding of		Before and after eating, around 91.5% and	
		unsafe eating	food safety, and		96.5% of people wash their hands with	
		patterns.	awareness of food		soap. More than 51% drink unpasteurized	
		F	hazard. A series of		raw milk, 61% sip borehole or well water,	
			self-complete		and 85% ingest suya. The health effects of	
			questionnaires was		suya intake and foodborne infections were	
			created and		both topics that 68% of respondents stated	
			distributed to		they were knowledgeable about. Statistics	
					•	
			students, university		showed relationships between gender, age,	
			personnel, other		income level, relationship status, risky	
			people living around		eating patterns, and knowledge of food	
			the university in		hazards.	
			Osun State, and			
			others who travelled			
			from different areas			
			of Nigeria to attend			
			religious events in			
			Lagos State. There			
			were four sections in			
			the survey			
			instrument. The			
			respondents'			
			demographics were			
			covered in the first			
			question set. The			
			second segment			
			focused on the			
			respondents' eating			
			and hand-washing			
			routines, the third on			
			*			
			their high-risk			
			consumption and			
			purchase patterns,			
			and the fourth on			
			their food-handling			
			practises and			
			knowledge of food			
			safety. 87 of the 100			
			surveys that were			
			dispersed at random			
			were returned.			
A1-1 1		Traction of the	150	W/III.	The second of th	D dd i iii
Akinbode,	Ogun	To investigate	150 respondents in	Willingness to	The average customer was 35 years old and	Due to their willingness to pay for the higher
2012		the willingness	total were chosen at	pay	made N29,903.00 annually. The WTP of	quality, higher income and educated
		of consumers	random from food		customers is significantly and favourably	neighbourhoods should have safer street stalls.
		to pay (WTP)	stands (bukas)		impacted by income and education. A WTP	Public awareness campaigns can also include
		for safer street	located in a variety		estimate of N12.70 was found for every	
		food.	of neighbourhoods		N100 worth of street food.	food safety education to raise consumer
			throughout the city,			understanding of food safety, particularly in
	1		including low-			communities with a high concentration of low-
			i	Ī		
1			income Ago-oko, Ita-			income and uneducated residents.
			income Ago-oko, Ita- morin, Ijemo, Ake,			income and uneducated residents.
			morin, Ijemo, Ake,			income and uneducated residents.
			_			income and uneducated residents.

Anyam, I 2013	Lagos	To investigate customer readiness to pay for bread's food safety qualities in the city of Lagos.	Olomore, Obantoko, Onikolobo, and Adigbe, and high- income Ibara Estate, Elega Estate, Asero Estate, Kenta Idi-Aba Estate. In order to determine willingness to pay, a well-structured questionnaire including Choice Experiment (CE) items was employed. Employing a two- stage random sample procedure, information was gathered from 150 respondents.	Willingness to pay	Price and non-financial factors, such as the bromate label, licensing, nutritional tag, flavour, and texture, all had a significant role in determining the decisions made by consumers.	Since the results demonstrate that customers are more prepared to pay for bromate-free and nutritious labelling than the industry standard, the government and manufacturers should strongly encourage their strict adherence.
Awoyemi, 2019	Kwara	To evaluate the behaviours and understanding of farming families in Nigeria's Kwara State's Irepodun Local Government Area (LGA) on food safety.	104 participants for the research were chosen using a two-stage selection procedure. The first reason Irepodun LGA was purposefully chosen among the sixteen LGAs in Kwara State was due to the area's heavy proportion of farming households. In the second stage, 30% of the farmers on a list provided by the Kwara Agricultural Development Programme Office were chosen. Thus, from Elerinjare, Batanyin, Igbo owu, Omode, and Idofian, respectively, came 20, 22, 22, 15, and 25 farmers. A total sample size of 104 respondents was obtained by choosing respondents from each of these five communities. Given a 96% response rate, only 100 questionnaires were collected from the respondents. This suggests that the data analysis involved 100 respondents.	Food safety knowledge, Food safety practices	Most agricultural households are unaware of the best measures for food safety. Lack of information, insufficient training, inadequate awareness, and insufficient funding are all barriers to food safety measures. In the chosen agricultural families, PPMC analysis revealed a substantial relationship between income and educational attainment and farmers' adherence to food safety procedures.	Sensitization and enlightenment campaigns, adequate modern technology provision, training and monitoring and evaluation by relevant stakeholders will all help to increase farming households' knowledge of and attitudes toward food safety, resulting in safe food for the general public.

Arrimmanda	Ondo	1. To use the	In andon to avaluate	Comme	Out of 279 door 55 (10.99/) tooted moditive	
Ayinmode	Ondo		In order to evaluate	Serum antibodies	Out of 278 dogs, 55 (19.8%) tested positive	Dogs killed for food in Nigeria's Ondo and Ekiti
et al., 2015	and	modified	the knowledge,		for T. gondii antibodies, with titres of 1:20	states are prone to T. gondii infection,
	Ekiti	agglutination	behaviour, and	prevalence to T.	in 37, 1 : 40 in 6, 1 : 80 in 8, 1 : 160 in 1, 1 :	highlighting the necessity for consumers of dogs
		test to look	practises that may	gondii,	320 in 2, 1 : 640 in 0 and 1 : 1280 in 1.	to have the correct toxoplasmosis health
		into the	impact contact	Consumer	Gender and sample site were both	education.
		prevalence of	with T. gondii	behaviours	substantially linked with T. gondii (P 0.05),	
		serum	infection in humans,		although age and physical condition of the	
		antibodies to T.	dog consumers in the		dogs were not. The majority of people in	
		gondii in dogs	two regions where		the sample site were found to be unaware of	
		killed for food	dog samples were		the danger of contracting T. gondii from	
		in two states in	obtained were given		eating dog meat, and only a small number	
		southwestern	a standardised		of people were discovered to exhibit	
		Nigeria.	questionnaire.		unfavourable behaviours including eating	
		2. To evaluate			raw dog meat and giving it to cats.	
		consumer				
		knowledge,				
		practises, and				
		behaviours				
		about T. gondii				
		infection.				
Balogun et	Lagos	To find out	Consumers of	Willingness to	The premium amounts for 7% of the	It is advised to have several sources of revenue
al., 2020		how much	chicken eggs in	pay, Consumer	willingness to pay (WTP) estimate for	
, 2020		customers in	Lagos state were	behaviours	packed eggs, which was 968 on average. As	and a nearby retail location for packaged
		Lagos State,	surveyed using a	ocha viours	consumers aged, the WTP for packaged	chicken eggs to be more easily accessible to
		Nigeria, are	structured		eggs fell (p 0.1). Maleness raised WTP by	consumers.
		ready to pay	questionnaire to		13.4%, and marital status increased WTP by	
		for packaged	gather primary data		15.8%. While respondents' WTP grew by	
		chicken eggs.	for this study. The		15.8% when they frequented supermarkets,	
		chicken eggs.	-			
			socioeconomic		it climbed by 0.8% when consumers'	
			makeup of the		income increased by one naira.	
			respondents, their			
			opinions about			
			packaged chicken			
			eggs, and their			
			financial readiness			
			are all included in the			
			data gathered.			
			Consumers of			
			packaged chicken			
			eggs made up the			
			stratified multi-stage			
			probability sample			
			that made up the			
		1	sample. Lagos State			
		1	is divided into five			
		1	administrative			
			regions. Due to the			
		1	widespread			
		1	availability of			
		1	packaged chicken			
		1	eggs in the			
		1	supermarkets in			
		1	those regions, three			
		1	divisions were			
		1	specifically chosen.			
		1	From each division,			
		1	an LGA was chosen			
		1	for the second step of			
		1	sampling. The last			
		1	stage involved			
		1	selecting consumers			
		1	of chicken eggs at			
	<u> </u>	1			I	

EcA for an interview way to anti-enfound greatestomater, only 13-6 of the 150 consumers of production and the completed that a first ways—when which completed that was a first ways—which was a fi		1	1	do 6 1	I	<u> </u>	Т
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Municipal LGA in limb State's readiness to pay for the study. The first stage construction pay for executions to pay for execution of these executions of the execution of two keys and the execution of two keys places within each existent or of waste management operations within the execution of the execution of the execution of the execution of two keys places within each existent or of waste management operations within the execution of two keys places within each existence of the execution of	Chendu et		Owerri	selection were used	pay	31.3% of respondents felt that the	prepared to pay, programmes supporting
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			solid waste			
			management, well-			
			structured			
			questionnaires,			
			personal interviews,			
			and focus group			
			discussions were			
			used to collect the			
			primary data.			
			Through pertinent			
			articles, books, and			
			workshop training			
			materials, secondary			
			data were gathered.			
Danilola et	Lagos	To look into	Primary data were	Sources of food	After physicians, family, friends, and	Food regulatory agencies should work to
al., 2017	6	the trustworthy	gathered through the	safety	coworkers, television, and the internet, food	improve the laws governing food labelling,
		sources of data	utilization of a	information,	labels were ranked as the fifth most reliable	
		on food safety,	standardised	Consumer	source of nutrition-related information.	which can increase consumer trust in the
		to pinpoint the	questionnaire. This	behaviours	Consumers are more motivated to read food	information on food labels. They should also
		main food	study was conducted		labels by the expiration date of the product	develop awareness campaigns to draw
		safety	in Lagos State by		rather than any other information, and	consumers' focus to the importance of food
		information	asking consumers of		product comparison.	labels, which go beyond simply listing the brand
		consumers are	pre-packaged meals		•	name and expiration date.
		looking for,	for information. The			
		and to pinpoint	sampling process			
		the drivers	involved two stages.			
		behind why	The first entailed			
		people read	choosing two (2)			
		about food	Shoprite shopping			
		safety.	malls at random from			
			a list of five (5)			
			Shoprite shopping			
			malls located			
			throughout Lagos			
			State. The			
			methodical selection			
			of every fifth			
			consumer of pre-			
			packaged foods was			
			the second stage. 220			
			respondents in all			
			were chosen for the			
			study. Respondent			
			information was			
			gathered through			
			interviews and a			
			standardised			
			questionnaire.			
Dipeolu et	Omr	To ascertain	Randomly chosen	Willingness to	The majority of respondents were familiar	Thomas a manifest demand in the day of
al., 2009	Ogun	the elements	respondents came	_	with organic farming and had already seen	There is a market demand in the southwest of
a1., 2009		influencing the	from the University	pay	and consumed organic crops. The	Nigeria in the case of widespread cultivation. It
		consumer's	of Agriculture in		information is likely based on local farmers'	is proposed that greater information be provided
		desire to pay	Abeokuta, Ogun		management techniques, which involve	on the difference between organic food that is
		for organic	State, Nigeria,		using little to no chemical pesticides or	certified and uncertified.
		veggies.	numbering 152 in		fertilisers to cultivate vegetables.	
		veggies.	total. A pre-tested		Undoubtedly, they knew very nothing about	
			questionnaire used to		crops that were organically grown. For	
			gather primary data		organic veggies, around 1/3 of respondents	
			from the respondents		were ready to pay more. They were	
			included questions		prepared to pay average premiums ranging	
			regarding		from 23% for cucumber to 73% for ugwu	
			- ogurumg		nom 2570 for edecumber to 7570 for ugwu	

Dentroy of Alexa and the comment of				socioeconomic		(fluted pumpkin). Many of the responders	
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were subsequently utilised for the study following data cleaning.				two (182) surveys			
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cleaning.							
Ehirim, Imo To determine Data from 80 chicken Consumer The primary information sources for the Technical advancements, the purchase of				5.			
	Ehirim,	Imo	To determine	Data from 80 chicken	Consumer	The primary information sources for the	Technical advancements, the purchase of

2010 behaviours the degree of customers in the chicken safety net are the educational storage sites such refrigerators and ovens with trust chicken 3 zones of the state process in schools and unofficial sources. continuous power supplies to always preserve buyers have were collected using While the earlier source might not reveal the goods, stringent daily product inspections by placed in the a multi-stage sample the current cause of the safety concern, the NAFDAC, and consumer accessibility to safety nets approach. Due to latter source is disorganised, unguided by affordable safety services in the state. offered by their huge markets facts, and extremely viral, which might NAFDAC and for chicken products cause market volatility if it turns out to be to identify the and the existence of wrong. Consumers prefer self-evaluation of variables safety over the use of food labelling and licenced commercial influencing diners there, the local sanitary conditions. Despite the state's Imo State's government areas in growing preference for food safety, choice for safe the metropolitan customers still choose the open market chicken. regions of the three system due to its disorganised safety zones were chosen. practises and dearth of advanced Once more, the technologies that would encourage trust in neighbourhoods the product's dependable safety. The free chosen feature a market, which lacks NAFDAC standards, diverse population of provides most customers with affordable services. The likelihood that a consumer customers who shop at the same stores would choose a safe product has an inverse despite having connection with education level, bid amount for safety, and the quantity of safety varying income levels. The local information sources, which came as a huge governments of surprise. Due to the financial burden of Okigwe, Orlu, and safety nets, education and the quantity of Owerri Municipal safety sources of information behaved Council were chosen. differently. Despite their degree of A well-structured knowledge, consumers in the areas cannot questionnaire was pay the price of safe chicken. Food safety is used to interview 40 frequently compromised by consumers. chicken product Once more, it was discovered that raising consumer income, age, and family food customers from each of the local spending will increase the likelihood that government regions safe chicken products will be preferred in who were chosen at the region. random. A total of 120 surveys were delivered to the customers between July and December 2007. Only 80 replies, however, were thought to be pertinent to the study. The questionnaire was designed with clear illustrations of chicken goods being displayed in outdoor markets as well as within restaurants like Mr. BIGGS. where the food is marked with NAFDAC-approved trademarks and labels. Customers can easily identify the product's origins as a result. Another corporate vendor unit remaining under NAFDAC's authority

			is the open market			
			source, however it			
			receives little			
			oversight because the			
			items' sources of			
			origin are difficult to			
			trace.			
Emmanuel,	Osun	To research the	At Ambassadors	Consumer	The percentage of respondents who had	The study's participants were mostly selected
2016		senior	College in Ile-Ife,	behaviours	good food safety knowledge overall was	from a private high-school in Ile-Ife, hence the
		secondary school students	Osun State, Nigeria, a cross-sectional		75.8% (310); the percentage of those who	study's findings cannot be broadly generalised
		in Ile-Ife, Osun	research on senior		had poor knowledge of food safety was only 24.2% (99). The majority of	since they do not accurately reflect all of the
		State, Nigeria's	secondary school		respondents, 65.8% (269), also had high	city's secondary school pupils.
		knowledge and	students' habits and		levels of food safety practises, while only	
		practises about	understanding of		34.2% (140) had low practises on food	
		food safety.	food safety was		safety. Additionally, the results revealed a	
			carried out in		substantial relationship between mothers'	
			November 2015.		educational attainment and their children's	
			This respected		understanding of food safety, as well as a	
			private secondary		significant relationship between their	
			school in Ile-Ife town		practise of food safety and their age, sex,	
			served as the study's		class, and household composition.	
			location. Ile-Ife is a			
			historic Yoruba city			
			located in Osun State			
			in Nigeria's south-			
			western region. The			
			secondary school			
			students in the			
			College's senior			
			secondary one, two,			
			and three (SS1, SS2,			
			and SS3) were the			
			study's population. A 27-item, purpose-			
			designed, self-			
			administered,			
			anonymous			
			questionnaire with			
			closed-ended			
			questions was used to			
			elicit information			
			from respondents.			
			There are four arms			
			at each secondary			
			class level, from SSI			
			to SS3. In order to			
	ĺ		create a sample size			
			of 420 students for			
	ĺ		the study, a minimal			
			number of 140 senior			
			secondary school			
			students were			
			randomly chosen			
			from each of the			
			three class levels			
			(SS1, SS2, & SS3) of			
			the senior classes of			
			Ambassadors			
			College, Ile-Ife.			
	Ì		These students ranged in age from			
•						

_			T	T	<u></u>	
			12 to 20 years. 409			
			of the 420			
			questionnaires that			
			were sent out were			
			returned and utilised			
			in the study,			
			representing a			
			response rate of 97%.			
			A guarantee of the			
			_			
			privacy of the data			
			submitted in the			
			questionnaire was			
			given to each			
			responder.			
E 1:1 /	T	T.	47		WILL A SILVER STATE OF THE	
Ezekiel et	Lagos,	To assess	47 peanut cake	Consumer	Whereas Aspergillus tamarii had the lowest	Given the relatively low educational level, there
al., 2013	Ogun,	consumer	samples weighing	behaviour	mean incidence (2.7%), Aspergillus flavus	is a requirement for immediate intervention
	Oyo,	knowledge of	about 1.5 kg each		L-strain remained the most prevalent	techniques and public education programs
	Niger,	the snack's	were bought from		(>56%) throughout the states. In Lagos and	targeted at persons from poor socioeconomic
	and	aflatoxin	marketplaces in the		Kaduna specimens, the occurrence of	
	Kadun	content and	following Nigerian		atoxigenic strains was statistically (p 0.05)	backgrounds.
	a	any potential	states: Lagos,		greater than that of toxigenic strains, but in	
		health hazards	Oyo, Ogun, Kaduna		Niger, the incidence of toxigenic strains	
		associated with	and Niger. Following		was substantially (p 0.05) higher than that	
		regular	the comminution of		of atoxigenic strains. All of the cake	
		consumption.	the bulk samples,		samples that were analysed had levels of	
			90–100 g		AFB1 that were up to 2824 mg/kg more	
			representative sub-		than the NAFDAC's recommended limit.	
			samples from each		The occurrence of toxigenic bacteria in the	
			bulk were collected		specimens and AFB1 levels showed a	
			using the quartering		weakly positive connection (r 14 0.32, p 14	
			procedure. Part A		0.03). The consumer education data	
			was used to isolate		revealed that 64 percent of the	
			Aspergillus species,		respondents—the bulk of whom are young	
			and Part B was used		people of socioeconomic and childbearing	
			to analyse AFB1		age—consumed peanut cake. 85 percent of	
			-		the customers were unaware that the food	
			using liquid			
			chromatography and		was contaminated with aflatoxin and might	
			electrospray		pose health hazards if consumed.	
			ionization-tandem			
			mass spectrometry.			
			Each representative			
			sample was split into			
			two equal portions.			
			Prior to analysis, all			
			samples were kept in			
			sterile zip-lock bags			
			at 4 C. Surveys were			
			created to gauge how			
			well-informed peanut			
			cake buyers were			
			regarding the			
			potential of aflatoxin			
			exposure. At the			
			moment of sample			
			collection at the			
			marketplaces			
			throughout Nigeria's			
			five states, 329			
			questionnaires were			
			given out to			
			customers.			
<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	1	

Falola,	Kwara	To summarise	For the investigation,	Consumer	Women were more likely than males to read	Relevant stakeholders must educate the general
2014	12	the	a three-stage	behaviours,	food labels, and this tendency was	
		socioeconomic	sampling method	Willingness to	positively correlated with respondent age,	public on the use of food labels in determining
		features of the	was used. Firstly,	read food labels	family income level, level of education, and	nutritional content and potential health effects.
		respondents,	four LGAs were		degree of nutritional expertise. However,	
		learn what	chosen at random		the respondents' propensity to read food	
		people think	from the state's 16		labels decreased as the number of	
		about food	LGAs. Six groceries		preschoolers and the size of the home	
		labels, and find	or food stores were		increased.	
		out what	then specifically			
		elements in the	chosen for each of			
i		research region	the chosen LGAs.			
		affect people's	Third, a total of 120			
		propensity to	responses were			
		read food	collected by			
		labels.	distributing			
			structured			
			questionnaires to five			
i			consumers from each			
			of the chosen			
			supermarkets and			
			food stores.			
			Socioeconomic			
			information about the			
			respondents was			
			gathered, including			
			information about			
			their sexual identity,			
			relationship status,			
			age, highest level of			
			education gained,			
			employment, family			
			size, household			
			income, and the			
			number of			
			preschoolers.			
			Additionally,			
			respondents were			
			asked to rank the			
			nutritional expertise			
			of the people who			
			plan and prepare			
			their meals as			
			follows: none (0),			
			low (1), medium (2),			
			and high (3).			
			Additionally,			
			respondents were			
			asked to assess how			
			important they thought the pricing of			
			food products was,			
			since this may indicate whether or			
			not they would read			
			the labels on their			
			food. This was given			
			the following			
			importance ratings:			
			Not important (1),			
			Less Important (2),			
			Fairly Important (3),			
			Important (4), and			
			Important (7), allu			<u> </u>

Odeyemi et al., 2019	Cross- nationa 1 study	To ascertain the awareness, attitude, and behaviours of consumers on food safety in emerging nations in Asia and Africa.	Very Important (5) (5). Additionally, respondents were questioned about how they regard food labels and if they are inclined to read them. 453 customers, including 265 Africans and 188 Asians, provided the data. Comparing customers from Africa and Asia, there were significant differences in knowledge, attitudes, and practises related to food safety (p 0.05).	Consumer behaviours	Consumers in Cameroon in Africa had the lowest understanding of food safety (73.15 16.43), followed by Ghana (78.19 15.84) and Nigeria (88.16 8.88). The least knowledgeable customers in Asia were in Iran (73.33 19.84), followed by Malaysia (88.36 11.64) and Pakistan (89.42 9.89). 89% of those surveyed were aware of food poisoning, and 304 (67.1%) consumed food that was left at room temperature for an extended period of time. Between Africa and Asia, there were significant differences in consumer knowledge, attitudes, and behaviours related to food safety (p 0.05). In general, respondents from Asia are more knowledgeable about food safety than those from Africa.	Users must be informed of the risk of contracting food-borne illnesses from eating tainted food. Every case of a foodborne illness should be reported by the consumer to the closest hospital for adequate care and documentation. A central registry for documenting food borne disease outbreaks should be set up in each nation, together with ongoing observation of the presence of gastrointestinal pathogens in food and encouragement of food handler education programmes. However, it should be emphasised that there were an equivalent percentage of participants in each of the nations that were questioned, and some of them filled out the
Ologbon et al., 2019	Ogun	To examine the knowledge of ready-to-eat food quality and safety among rural families in the Yewa villages in Ogun State, Nigeria.	The respondents were chosen using a multi-stage sampling approach. Two of the division's five local government areas (LGAs) were specifically chosen for the first stage based on their ownership of traits that might encourage the popularity of food-away-from-home/packaged meals in a community. The presence of higher education institutions in the administrative centres of both LGAs—a campus of Olabisi Onabanjo University in Ayetoro and a Federal Polytechnic in Ilaro—is notable among these traits because it encourages the population density of college students across the two towns and the surrounding	Consumer behaviours	Before consuming packaged goods, 79%, 76%, and 58% of the household heads seldom ever checked expiration dates or visible damage on food packs or adhered to manufacturer's recommendations. As a result, 86% of respondents stressed the need of knowing the source(s) of foods, while nearly 79% disputed that packaged goods were no longer suitable for ingestion after expiry but acknowledged that refrigeration kept prepared food safe. In terms of knowledge of food quality, 91% of respondents were worried about the hygiene of food processing locations, and 98% regularly checked food packages.	questionnaire incorrectly, which led to the loss of data. The ability of family members to attend school should be given top attention since a greater level of education would increase people's understanding of the safety of packaged goods. Such instructional initiatives will enable safe food preparation at home and, thus, the customers' continuing independence in their homes.

		<u> </u>	areas. Ayetoro,			
			Igbogila, Ibooro,			
			Sawonjo, and Saala-			
			Orile in Yewa North			
			LGA and Ilaro,			
			Owode, Erinja, Oke-			
			Odan, and Ajilete in			
			Yewa South LGA			
			were the five			
			significant			
			settlements that were			
			randomly chosen in			
			each of the two local			
			government areas at			
			the second stage.			
			Five (5) housing			
			units (HUs) were			
			chosen in each of the			
			towns in the third			
			stage, and five (5)			
			households were			
			recruited from each			
			HU at the fourth			
			stage. As a result,			
			250 household heads			
			from the research			
			region were sampled;			
			however, 10			
			questionnaires in total were not			
			rejected due to			
			missing data.			
			missing data.			
Oni et al.,	Edo	Using a case		Willingness to		
2005		study of	TT . 1 . 1	pay for safety	TI	
		potassium	The study used	labels	The majority of respondents (60%) who	A defined market for buying bread is necessary,
		bromate in	information primarily from original		bought bread did so from hawkers, and roughly 60% of them were aware that bread	as are community-based awareness campaigns
		bread in Benin	sources. 200		contains bromate. Labeling was utilised by	and an expansion of the National Agency for
		City, Edo	respondents were		40% of customers to identify bread free of	Food and Drug Administration's (NAFDAC)
		State, to	given structured		bromates. Other approaches have been	involvement beyond media promotion.
		examine	questions to		described to address pricing variations in	Additionally, there is a need to educate older
		customer	complete as part of		bread with identical weight, flavour, and	people who reside in remote areas about the
		readiness to	the source. For the		scent. Additionally, the results showed that	
		pay for safety	sample frame, the		60% of the respondents learned about the	negative effects of bromate in bread.
		labelling in	bread eaters in the		harmful effects of bromate via news (both	Continuous awareness campaigns are also
		Nigeria	research region were		print and mass media). Econometric	necessary to educate the bread-eating illiterates.
			chosen at random		analysis reveals that factors including	Due to their incapacity to read, write, and
			using a random		education, gender, income, prior awareness	maybe understand the information sent by news
			sampling approach.		of bromate, and respondents' beliefs about	and media, this is significant. Extension agents
			Both probit models		the harmful effects of bromate have a	that are able to communicate with them and
			and descriptive		considerable impact on their desire to pay	comprehend their language may provide this
			statistics (frequency		for safety labels. The likelihood that	sort of awareness. Given that the sampled
			distribution) are used		consumers will pay for a safety label is	customers are primarily middle-class and
i					positively influenced by academic	are primarily inflacte class and
			as analytical		positively influenced by academic	employed as government officials it is
			as analytical techniques in this		achievement, sexual identity, salary, and	employed as government officials, it is
			-		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the	anticipated that as incomes rise, so would
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs	anticipated that as incomes rise, so would consumers' purchasing power and desire to pay
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs about the harmful effects of bromate on	anticipated that as incomes rise, so would
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs about the harmful effects of bromate on human wellbeing have an impact on	anticipated that as incomes rise, so would consumers' purchasing power and desire to pay
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs about the harmful effects of bromate on human wellbeing have an impact on consumers' desire to shell out more for	anticipated that as incomes rise, so would consumers' purchasing power and desire to pay more for safety labels. By partially exposing
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs about the harmful effects of bromate on human wellbeing have an impact on	anticipated that as incomes rise, so would consumers' purchasing power and desire to pay more for safety labels. By partially exposing bakeries in their neighbourhood to regulatory
			techniques in this		achievement, sexual identity, salary, and foreknowledge of bromate, whereas the price of bread and respondents' beliefs about the harmful effects of bromate on human wellbeing have an impact on consumers' desire to shell out more for	anticipated that as incomes rise, so would consumers' purchasing power and desire to pay more for safety labels. By partially exposing bakeries in their neighbourhood to regulatory bodies to monitor their operations and advise

						improvements.
Osagbemi et al., 2010	Kogi	Identify the risk variables for food poisoning that consumers are aware of, as well as the effects that relevant socio-demographic characteristics have on consumer knowledge, attitudes, and practises related to food poisoning.	A multi-stage sampling technique was used. First, 6 wards were chosen at random from a total of 11 wards. Second, 12 communities were chosen at random from a total of 26 communities in the six chosen wards. Then, each village was considered to be a cluster. Using the grid approach, the clusters' maps were split into four identical pieces, and the central point was found. Each cluster's centre was then determined using this information. The index residence for the interview was chosen by rotating a bottle at the middle of each cluster and choosing the home whose front entrance is nearest the direction the tip of the bottle pointed. Based on whose front door was nearest to the index household, the following home was chosen. Then, until the appropriate sample size was reached, the next homes were chosen based on the home whose front door was nearest to the last one tested. Throughout the course of the study, 414 adult residents who had responsibilities related to food handling were questionnaire created by the researchers was used to gather	Consumer behaviours	Although there was a high degree of awareness (100%) about food poisoning, nothing was known about its causes. Only roughly 37.1% of the respondents said consuming tainted food was the cause. The prevalence of food poisoning was modest (22.2%). Family members and friends were the main sources of information on food poisoning (81.6%) and 62.1%, respectively. Only formal education degree had a substantial impact on respondents' experiences with food poisoning.	improvements. Despite widespread knowledge of foodborne illness, little was known about its causes. Despite their lack of understanding of the true causes of food poisoning, there was a high level of practise of food cleanliness. People had a favourable attitude about contaminated food and were interested in learning more about it and how to avoid it. To increase respondents' knowledge and further deepen their awareness, education programs and general awareness initiatives were advised.
			data.			
Temitayo,	Osun	To evaluate the	To gather data from	Consumer	The majority of the pupils taken into	
2017	Osuri	level of food	respondents, a 27-	behaviours	account for this study had solid	

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		safety knowledge and	item, specifically developed,		understanding of food safety. The majority of responders practise high levels of food	Because the study relies solely on self-reported
		practises	anonymous, self-		safety. Only a small percentage of	data, self-report bias is a possibility. By making
		among senior	administered close-		respondents reported poor food safety	the survey a supervised self-administered
		secondary	ended questionnaire		habits. Among the other sociodemographic	procedure, an attempt was made to lessen the
		school students	was employed. The		factors taken into consideration in this	influence of this bias in order to rectify the
		at the	survey has undergone		study, only a significant link between	situation.
		International	preliminary testing.		religion and the respondents' knowledge	
		School,	Then 420		scores on food safety was discovered (p	
		Obafemi	questionnaires for the		0.05). Food hygiene awareness scores did	
		Awolowo	research were		not significantly correlate with respondents'	Given that certain students at the International
		University, Ile-	supplied to the		age, sexual identity, class, tribe, family	School and OAU College still score poorly on
		Ife, Osun	school to be		structure, or mothers' level of education	food safety awareness tests, attention should be
		State, Nigeria;	distributed. To take		(p>0.05). The outcome also demonstrated a	paid to monitoring and analysing food safety
		to investigate	part in the study, 420		substantial correlation between respondents'	practises among these students.
		the relationship	seniors from the		class and their performance on food safety	
		between	International School,		practises. There was a strong association	
		specific	OAU, Ile-Ife, who		between the students' practises and	Circum that alone of the dame to be a bound indeed to
		demographic	ranged in age from		understanding about food safety.	Given that class attendance has been linked to
		characteristics	12 to 20 years old,			students' food safety behaviours, ongoing
		and the level of	were randomly			instructional initiatives are required to help
		food safety	selected. Each class			these pupils.
		knowledge and	level yielded a			
		practises; and	minimum of 140			
		to ascertain the	senior high school			A state policy addressing food safety education
		connection	pupils. A 94%			that is delivered to the schools on the
		between	response rate (394 of			
		awareness	the 420 responses) of			behaviours of these young kids who are also
		levels and food	questionnaires that			users is needed since they are at danger of
		handling	were sent were			contracting food borne illnesses and can be
		practices.	retrieved and utilized			shielded from them by the government.
			in the study. A			
			guarantee of the privacy of the data			
			submitted in the			These private college students' habits and
			questionnaire was			understanding of food safety may be compared
			given to each			, , ,
			responder.			to those in public or rural secondary schools in
			responder.			order for the findings to be applied broadly.
						It is also possible to do research on the habits
						and understanding of students from different
						colleges about food safety for the greater Ile-Ife
						municipality.
Uchendu,	Lagos	To determine if	410 market food	Consumer	Food handlers in this research community	Food handlers in this research sample had some
2018	5	homes and	vendors and 70 street	behaviours	generally had low standards for food safety	typically high-poor food quality and safety and
		food merchants	food/fruit vendors		and cleanliness, which had both short-term	
		in Lagos,	participated in a		effects on food contamination and	hygiene behaviours. Food contamination and
		Nigeria, have	cross-sectional direct		nutritional loss as well as long-term effects	nutritional loss are the immediate effects,
		inadequate	observational		on foodborne illnesses and unrecognised	whereas foodborne illnesses and hidden hunger
		food safety	research to gather		hunger.	are the long-term effects. Poor food safety
		standards.	qualitative data on			practises in this research group will be
			food safety			addressed by policies incorporating dietary and
			procedures in Lagos			nutritional awareness through public awareness
			State's six largest			campaigns and monitoring.
			markets (Oshodi,			rgg
			Idumota, Mushin,			
			Ejigbo, Isolo, and			
			Ikotun) and streets.			
			200 women who			
			lived in these			
	•	•	•	•		

Ugoani &	Unspe	To investigate	families were polled in focus groups on their procedures for food safety. The prevalence of inadequate food safety practises was examined and debated.	Consumer	In Nigeria's metropolitan and semi-urban	Participants were more susceptible to food- and
Ewuzie, 2016	cified States in South- East, Nigeri a	the degree to which blue- collar employees in Nigeria manage their own health in connection to food safety issues.	respondents for this study, 200 were men and 100 were women, with ages ranging from 21 to 70 (M = 46, SD = 25). The participants were chosen from South-East Nigeria's general populace.	behaviours	areas, approximately 63% of blue-collar workers routinely frequent the many unsanitary pepper soup stalls that are dispersed throughout. Approximately 70% of blue-collar employees use sachet water, sometimes referred to as 'pure water', which is typically made from borehole water. This may be a significant source of water-borne illnesses. About 73 percent of Nigerian blue-collar workers consume bush meat, which is typically sold at car parks and other public places, making them more susceptible to different food-borne illnesses.	water-borne infections such salmonella, staphylococcus aureus, streptococcus aureus, Campylobacter jejumi, and Escherichia coli due to the high prevalence of street food consumption and the sometimes filthy circumstances in which it is cooked.

Appendix 2: Quality appraisal of included studies

	Quant	y Appi	raisal											
Research	• Q1. Research question/objective	• Q2. Research design	O3. Subject selection	Characteristics				• Q8. Outcome	Q9. Sample size	10. Data analysis	(1) Estimate of		O13. Result	+ Q14. Conclusions
Adebisi et al., 2020	•	•	•	•	n/a	n/a	n/a	•		0	•	-	•	0
Adebowale & Kassim, 2017	⊕	•	⊕	+	n/a	n/a	n/a	⊕		•	•	+	⊕	+
Adesope et al., 2010	•	•		•	n/a	n/a	n/a	•		•	•		•	•
Ajayi & Salaudeen,														
2014	⊕	•		⊕	n/a	n/a	n/a	⊕		⊕			⊕	①
Akinbode et al., 2012	•	•	-	•	n/a	n/a	n/a	-	-	•	•	•	•	•
Anyam et al., 2013	+	•	-	-	n/a	n/a	n/a	-	-	•	0	-	0	•
Awoyemi et al., 2019	⊕	•	⊕	•	n/a	n/a	n/a	-	0	①	-	-	0	-
Ayinmode et al., 2015	⊕	①	-	•	n/a	n/a	n/a		-	①	•		•	•
Balogun et al., 2020	+		⊕	+	n/a	n/a	n/a	+		①	•		•	•
Ben-Chendu et al.,														
2018	⊕	①	•	⊕	n/a	n/a	n/a	-	•	⊕	•		•	①
Danilola et al., 2017	⊕	•	⊕	•	n/a	n/a	n/a	-	-	•	0	<u></u>	0	-
Dipeolu et al., 2009	⊕	•	-	①	n/a	n/a	n/a	•	0	①	0	9	0	0
Dontsop et al., 2011	⊕	•	-	-	n/a	n/a	n/a	-	-	①	0	-	0	•
Ehirim et al., 2010	+	①	-	-	n/a	n/a	n/a	-	-	①	0	0	0	0
Emmanuel, 2016	①	•	-	①	n/a	n/a	n/a	•	-	①	0	0	0	0
Ezekiel et al., 2013	⊕	•	⊕	⊕	n/a	n/a	n/a	-	-	①	0	-	•	•
Falola, 2014	⊕	•	⊕	•	n/a	n/a	n/a	•	-	•	0	•	0	•
Odeyemi et al., 2019	⊕	•	-	-	n/a	n/a	n/a	0	-	①	-	-	•	-
Ologbon et al., 2019	+	•	-	-	n/a	n/a	n/a	-	-	0	0	-	•	-
Oni et al., 2019	+	•	•	•	n/a	n/a	n/a	•	•	•	•	•	•	•
Osagbemi et al., 2010	+	•	•	•	n/a	n/a	n/a	•	0	0	-	-	•	•
Temitayo, 2017	⊕	①	⊕	①	n/a	n/a	n/a	•	-	+	-	-	①	①
Uchendu, 2018	+	-	⊕	-	n/a	n/a	n/a	⊕	-	•	-	-	•	•
Ugoani & Ewuzie, 2016	+	-	•	•	n/a	n/a	n/a	-	-	•	•	•	•	•

Key: ○ Partially reported or partially addressed; ○ Fully reported or fully addressed; n/a means not applicable to research