Restaurants Health Measures and Customers’ Dining Preferences during the COVID-19 Pandemic: Evidence from Egypt and Jordan

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ABSTRACT

The influences of COVID-19 on dining activities varied from a country to country. The influences included a wide array of impacts, starting from the complete shutdown of restaurants dining-in to only adopt strict new norms to re-open. Researchers around the globe afforded trials to explore customers’ post COVID-19 preferences. The theory of planned behaviour (TPB) pointed to existing differences between people, afforded a justification for this, and pointed to the necessity of differentiation between nations during pandemics and the lavish increase in health risks. This added importance to this research, as it investigated new geographical areas, and compared between two countries, i.e., Jordan and Egypt. These two countries were selected, as they were considered as examples for key tourism destinations in the middle east, they host two of the seven wonders of the world, and there was no evidence that previous research tried to bridge this gap of knowledge in this geographical area. The research aimed to investigate the influences of geographical boundaries on customers’ dining preferences and its related health practices with an implication on Egypt & Jordan in the post COVID-19 world. This aim was achieved via answering research questions. Stratified and snowballing sampling technics were used to generate 411 valid online survey forms. Statistical tools were used to analyze the collected data. A list of recommendations was developed for restaurateurs to help in handling the customer's preferences in the post COVID-19 era. The research findings will help in understanding dining industry customers’ priorities, perceptions, and intentions. It also will contribute in developing restaurateurs performance to attract customers, and to handle their fears at different geographical regions.

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Introduction
Starting from 2020, the world suffered from the nightmare of COVID-19 that destroyed the world economy in a few weeks and its deterioration results continued up to the time of writing this paper (Algassim and Abuelhassan, 2021). These negative impacts highly pressurized industry, and its enterprises were targeted by governments as potential spot to spread COVID-19 (Gossling et al., 2020; Gursoy et al., 2020; Mckinsey and Company, 2020). Dining industry severely suffered (Song et al., 2021), e.g. Pizza Hut announced its bankruptcy. This pandemic (as defined by World Health Organisation) was considered the most dangerous crisis after the Second World War. The international and domestic tourism and hospitality businesses were highly influenced by this pandemic, due to the closing of borders, new health and hygiene regulations, and other containment measures (UNWTO, 2020a).

The COVID-19 pandemic devastated the global hospitality industry and hospitality-based countries’ income and economy, with more than 4.3% contraction in the international economy and more than 130 people living in extreme poverty due to this crisis (UNCTD, 2020; Jung et al., 2021). This pandemic forced the hospitality industry to lose billions of dollars in 2020 resulting in millions of hospitality employees forfeited their jobs permanently or temporarily (Chadee, et al., 2021; Jung et al., 2021). Restaurants companies and the hospitality stock market was another disaster that needs many researchers to disclose the strategies that let many companies survive and others collapse (Song et al., 2021).

The restaurant industry rapidly handled this disaster by redesigning its activities (e.g. focusing on delivery) and strictly implement safety and preventive health precautions to meet the new norms and customers’ novel needs (Brizek et al., 2021). This led to two important questions: “Will these changes in customers’ needs be temporary or permeant? Do restaurant customers’ preferences towards these new norms are equal at different geographic destinations? (Sigala, 2020; Boguszewicz-Kreft et al., 2020; Chadee et al., 2021; Jung et al., 2021).

Geography played a role in figuring the perception of consumers towards risks and health practices’ priorities that successfully handled their fears (Westcott et al., 2017; Boguszewicz-Kreft et al, 2020; Elsayed et al., 2021). The intention of customers to consume tourism and hospitality products and services was deeply affected by their perception and aversion to risk (Pizam et al., 2004; Wang et al., 2019), which was confirmed during the COVID-19 pandemic (Pappas & Glyptou, 2021). Gössling et al. (2020) stressed on the massive need for researchers to contribute in figuring out the future of the tourism industry after COVID-19. This research tried to contribute to this area. Based on the researchers' best of knowledge, there was no evidence for any related work that investigated the perceptions of dining customers in comparison between Egypt and Jordan. The selection of countries for the subject study was based on the fact that those countries were always considered as key tourism destinations in the Middle East, which have two from the original and newly announced world seven wonders (Tikkanen, 2020).
Literature Review

Geography was highlighted as a key factor affecting restaurant customers’ preferences (Smith, 1983). Boguszewicz-Kreft (2020) added to what Smith highlighted by connecting between the geographical influences and the theory of planned behaviour (TPB) by examining this in the hospitality industry at three countries (two Asians and one European country). Elsayed et al. (2021) confirmed this in their research sample at two Middle Eastern countries but both recent types of research worked on tourism, not the dining context.

COVID-19 added further challenges and several researchers around the globe worked day and night to bridge the new gaps of knowledge. New Norms were announced in many countries with a dynamic nature that varied from country to country and from day to day (Brito, 2020; NRA, 2020; Reidy, 2020; Ministry of Tourism and Antiquities, 2020; Jordanian Ministry of Tourism and Antiquities, 2020). The reason behind these variances can be justified by the theory of planned behaviour; full protection motivation theory, political reasons, economical reasons, and numbers of COVID-19 infected cases, which pressurized governments and affected their decisions (Ajzen, 199; Fishbein & Ajzen, 2011; Wang et al., 2019; OECD, 2020; UNCTAD, 2020).

Understanding the conscious and unconscious drivers or stimuli at the hospitality customers’ decision-making process can boost and accelerate the recovery of the hospitality business and its resilience (Pappas & Glyptou, 2021). Byrd et al. (2021) confirmed this as significant changes were reported in dining consumer behaviour due to COVID-19 pandemic. The theories of planned behaviour (TPB) and the protection motivation theory (PMT) highlighted the need to investigate people’s preferences, attitudes, and behaviours during the health risk periods, especially in tourism and hospitality industries to develop successful practices (Westcott et al., 2017; Cheng, 2019; Wang et al., 2019; Ulker-Demirel and Ciftci, 2020).

Implementing TPB in the dining and restaurant industry – at post-COVID-19 world- was important for understanding the dining industry customers’ preferences and desires regarding dealing with the dining industry, this should include: restaurants’ outlets, health practices, and indoor and outdoor services at restaurants. Theory of planned behaviour (TPB) was marked as one of the most widely adopted social-psychological models for understanding people's behaviour (Yuriev et al., 2020). The theory -during history- contributed to predicting the intentions and behaviours, especially the healthy eating behaviour (Conner et al., 2002). In this theory, individuals were described as rational. They form their knowledge and beliefs based on systematic information gathering coming from several different sources, such as interaction with relatives and friends, media, formal education, and personal experiences that they are exposed to (Fishbein & Ajzen, 2011). TPB was developed to be a comprehensive model for linking and explain three significant factors that were responsible for managing people’s behaviours during the perception of risks (Ulker-Demirel & Ciftci, 2020; Yuriev et al., 2020). The theory mainly concerned with: 1) attitudes, 2) subjective norms, 3) perceived behavioural control, which handled several aspects related to positive or negative participation or elements.
affecting customers decisions and preferences (Fishbein and Ajzen, 1975; Ajzen, 1991; Madden et al., 1992; Yuzhanin & Fisher, 2016; Ulker-Demirel & Ciftci, 2020; Yuriev et al., 2020).

Protection motivation theory (PMT) supported the efforts of researchers to investigate the preferences of tourists during health risks and pandemics (Wang et al., 2019). The theory pointed to people as they were always more likely to protect themselves against any expected negative consequences and their desire to avoid them and having preventive actions (Rogers, 1975; Wescott et al., 2017). Chiu et al. (2019) pointed to the existing differences between nationalities regarding their perceptions towards risks which influenced their motivations, especially when they travel or interact at a risky destination or during health risks and disasters. For instance, certain nationalities took extra precautions during health disasters or risks, or even they cancelled their travel plans. This increased the necessity of investigating different nations’ dining customers’ preferences and COVID-19 preventive health precautions.

COVID-19 forced restaurants to adopt the new norms, which led dining industry employees to strictly follow new health precautions (new norms). Any failure in following the new norms simply will cause severe penalties or contributing by a fault in spreading the infection (Lu et al., 2020; Ahram, 2020; Egyptindepedent, 2020). The most repeated and common precautions were wearing masks and gloves. Generally – especially in our industry- face masks and gloves can be considered as symbolic social distancing actions. Many researchers investigated the emotional consequence of covering the face, banning handshakes, and wearing gloves, but under the attack of COVID-19 these actions became mandatory (Capraro and Barcelo, 2020; Fred, 2015). Huang et al. (2020) highlighted the need for post-COVID-19 customers to notice the sanitization process at the hospitality and tourism enterprises to handle their fears and to increase their level of satisfaction. This was confirmed by various governmental bodies and association who requested the sanitization process to be continuously engaged in action, to be seen in place, and to spread hand sanitization dispensers, e.g. Alcoholic Jill Dispensers at public spaces (UNWTO, 2020b; National Restaurant Association, 2020; Arabian Business, 2020; ONA, 2020).

Social distancing was another influence of COVID-19 that changed the well-known formulas for restaurants’ dining spaces (Katsigris and Thomas, 2008). The social distancing limited the occupancy up to 25%- in some countries-, which affected the entire tourism, travel, and hospitality sectors. The reason can be found in this reported example, where a customer with COVID-19 passed the virus to his tablemates and other customers sitting close to him within a 1-meter space at a Chinese restaurant (Lu et al., 2020). Thus, social distancing was presented worldwide as a necessary precaution to stop the spread of COVID-19 (Zhao et al., 2020). Guidelines for social distancing vary based on authorities (Ölcer et al., 2020; Arabian Business, 2020; ONA, 2020; Ministry of Tourism, 2020 & Ministry of Tourism and Antiquities, 2020; Reopening Miami Beach, 2020). According to the WHO, a minimum social distancing was identified as 1 meter, and the safe distance was recommended to be 1.83 meters (Zhao et al., 2020).
Social distancing, face coverage, wearing gloves, spreading sterilizers at public spaces and continuous sanitization actions were the most repeated recommended guidelines by various organizations, e.g. NRA (2020) Ministry of Tourism and Antiquities (2020); Jordanian Ministry of Tourism and Antiquities (2020), and by UNWTO (2020b).

Dining delivery mode was another aspect that was heavily influenced by the COVID-19 pandemic. Some countries allowed only for delivery and take away at certain periods of time since the beginning of the pandemic (Arabian Business, 2020; Ministry of Tourism and Antiquities, 2020; Jordanian Ministry of Tourism and Antiquities, 2020, ONA, 2020). Home delivery was reported as the surviving solution for American restaurants and the most preferred mode of delivery for selected samples in the USA (Brizek et al., 2021). Byed et al. (2021) went further and pointed to the severe need for more research and cooperation to understand consumer perceptions towards the restaurant's products packaging delivered, by all means, i.e. home delivery, dine-in and take away (Byed et al., 2021). This finding raised another point to be investigated in this research, to examine customers' preferences towards home delivery, take away or dine in. Kim and Lee (2020) highlighted another psychological factor (contagion effect) and theories, i.e. behavioral inhibition system theory and crisis management theory which pushed many dining customers to prefer to dine in a private room. Open-air dining was another option that needed to be examined, due to the risks and fears from COVID-19 air transmission at closed space restaurants (Morawsks, et al., 2020). All these findings -related to food delivery/service mode- will lead the research team to examine the effects of geography on them and if the different nationalities will have the same preferences or they will have a significant difference.

A limited number of researches investigated dining customers' preferences’ towards the new health practices, precautions, and dining products delivery mode. Despite hospitality or restaurant consumer behaviour was distinguished as one of the important research examination areas. In more details, understanding hospitality and restaurant’s customers to know how customers feel, think and behave were the foundation to help in analyzing, describing, predicting, understanding the consumption environment, managing the impact of customers, and generating revenues (Crouch et al., 2004; Pearce and Packer, 2013; Ulker-Demirel and Ciftci, 2020; Song et al., 2021). Based on the best of researchers’ knowledge, there was no evidence that previous research investigated the dining preferences of Egyptian and Jordanian customers and their priorities at the related COVID-19 preventive health precautions.

The research aimed to investigate the influence of geographical boundaries on customers dining preferences and its related health practices with an implication on Egypt & Jordan in the post-COVID-19 world. The critical review of the literature led to finding certain gaps of knowledge, which can be summarized in two major questions:
1. Do the geographical boundaries play a role in differentiating between dining industry customers' preferences in the -post-COVID-19 world?

2. What are the degrees of preferences of dining customers’ towards the key new norms, preventive health precautions, dining delivery mode, or style?

Methodology 
The research followed a comparative case study approach to compare Egyptian and Jordanian dining customers’ preferences about COVID-19 related preventive health precautions and customers’ dining delivery mode. The results were presented via cross-case analysis technique using quantitative tools. The research went through the following phases: 1) Define and design; 2) Prepare, collect and analyze; 3) Analyze and conclude (COSMOS Corporation, 1983; Yin, 2018). All these phases were adopted using a dynamic research design approach (Maxwell, 1998; Saunders et al., 2016). Following this research approach was helpful to achieve the research aim and to answer the research questions, as will be illustrated in the following parts of this research.

Participants and sample
Stratified sampling and snowballing sampling techniques were adopted in this research (Corbetta, 2003; Lovric, 2011). The field study was undertaken at Egypt and Jordan between the 1st of January to the 15th of February 2021, on customers who intend to dine out or to enjoy restaurant meals via different delivery modes or service styles. To comply with the COVID-19 measurements and the governments' regulations at the targeted two countries, an online survey was developed via Google forms. The researchers used Google forms’ features and added the following filters: 1) nationality/place of residency, i.e. Jordan or Egypt were only permitted to continue and 2) intention to dine out or to order delivery food. Egypt and Jordan were selected for the following reasons: both of them were considered as examples for key tourism destinations in the Middle East (same geographical area); Each of Egypt and Jordan hosts one of the Seven Wonders of the World (Tikkanen, 2020). The study collected its data by distributing an online survey to a stratified sample, who was only Egyptians, Jordanians, living in Egypt or living in Jordan, who has an intention to dine out or to have their dining using any of the well-known dining delivery modes or styles. A snowballing technique was adopted via contacting a professional network of restaurateurs, tourism and hospitality colleges’ alumni in the selected countries, friends, and colleagues to help in distributing the survey via WhatsApp, Facebook, and LinkedIn. The participants of this study survey were 411 restaurant customers. This number of participants can be considered as an optimum number for a sample to reflect any population number, because it exceeded the number of 385 (Sekaran and Bougie, 2016).

Measurements
The online survey questions were developed using mainly 5 points Likert scale namely Strongly don't prefer (1), Don't prefer (2), Neutral (3), Prefer (4) and Strongly prefer (5). It included five sections and fifteen questions to answer the research two main questions, i.e., do the geographical boundaries play a role in differentiating
between dining industry customers preferences in the post-COVID-19 world?; what are the degree of preferences of dining customers’ towards the key new norms, preventive health precautions, dining delivery mode or style? These two questions were the core of the online survey.

The first research question led to developing questions about participants’ profile information to differentiate in the analysis between each of the two investigated countries’ dining customers, i.e. Egyptians and Jordanians, and to identify their demographics. The second research question generated a list of points based on the literature. These points were: dining delivery mode preferences, whether they prefer to dine in their private rooms, a regular restaurant at their stayed hotel, home delivery, take away, to dine in at a restaurant, to dine in at the open-air or a regular closed space restaurant (Morawks, et al., 2020; Kim and Lee, 2020; Byed et al., 2021; Brizek, et al., 2021). The second main points were the key preventive health precautions related to COVID-19 adopted in restaurants, which were selected based on Gursoy et al series of researches between May (2020) and January (2021). The selected main four preventive health precautions related to COVID-19 adopted in restaurants were: wearing masks and gloves; social distance, sanitizing around the clock, and spreading of sanitizing materials’ dispensers at public areas. These main four COVID-19 preventive health precautions were also stated at various declared new norms and references, e.g. Ministry of Tourism and Antiquities, 2020; Jordanian Ministry of Tourism and Antiquities, 2020; Zhao et al., 2020.

Data analysis
The present study adopted the means, to describe the participants' perspectives and standard deviations to indicate to what extent these perspectives deviated from their means. Moreover, a one-Sample t-Test was used to evaluate the impact of COVID-19. T-Test was adopted to measure the differences and similarities between the Egyptians and Jordanians.

Results & Discussion
The valid online forms were 411 forms. The collected sample was mainly distinguished using the geographical boundary factor. A cross-case analysis technique was used via adopting statistical tools, e.g., standard deviation, mean, and t-test.

Table 1
The Profile of The Sample

| N= 411 | Egyptian | Jordanian |
|--------|----------|-----------|
|        | Frequency| Percent | Frequency | Percent |
| Gender |          |         |           |         |
| Male   | 168      | 62.0    | 74        | 52.9    |
| Female | 103      | 38.0    | 66        | 47.1    |
| Age    |          |         |           |         |
| Less than 18 years | 5 | 1.8 | 2 | 1.4 |
| From 18 to less than 30 years | 97 | 35.8 | 92 | 65.7 |
| From 30 to less than 40 years | 105 | 38.7 | 17 | 12.1 |
| From 40 to less than 50 years | 54 | 19.9 | 14 | 10.0 |
| 50 years and above | 10 | 3.7 | 15 | 10.7 |
| Total  | 271      | 65.9    | 140       | 34.1    |

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The findings of Table 1 presented the profile of the sample. The participants of this study were 271 Egyptians (65.9%) and 140 Jordanians (34.1%), 242 males (58.9%) and 169 females (41.1%), and 7 participants (1.7%) less than 18 years old, 189 (46%) ranging from 18 to 30 years, 122 (29.7%) ranging from 31 to 40 years, 68 (16.5) ranging from 41 to 50 years and 25 (6.1) over than 50 years old.

Table 2
Having my Meals During My Travel (Out of My Home)

| N= 411 | The Two countries | Comparison between the two countries |
|-------|-------------------|------------------------------------|
|       | Mean/SD | p   | Egypt Mean/SD | Jordan Mean/SD | p   |
| I prefer to have my meals at my lodging private room. | 3.83/1.08 | 0.000 | 3.94/0.96 | 3.61/1.26 | 0.007 |
| I prefer to have my meals at restaurants. | 2.93/1.20 | 0.235 | 2.94/1.21 | 2.90/1.19 | 0.787 |

Table 2 highlighted that the COVID-19 had a significant effect on customers dining preference about having their meals during travel. At the two investigated countries, the desire to have their meals at their private rooms was high (mean = 3.83) and significant (p < 0.05), while the desire to have their meals at restaurants was medium (mean = 2.93), and this desire was not significant (p (0.235) > 0.05). This result indicated that the COVID-19 changed people's preferences and attitudes regarding having meals during travel. People currently preferred to have their meal in their lodging private rooms -during their travel- more than eating out. This finding confirmed -in some-how- Kim and Lee (2020) findings, as their sample in the USA preferred dining in private rooms inside the restaurant. Dining consumers presented evidence in these two studies, as their preferences at post-COVID-19 pandemic were different than before the COVID-19 pandemic.

Geography impact was presented in the second half of table 2, as it revealed that there were no significant differences (p (0.787) > 0.05) between Egyptians (mean = 2.94) and Jordanians (mean = 2.90), as they did not prefer to dine in a restaurant during their travel. However, the two nationalities supported having their meals at their lodging private rooms. There were significant differences (p < 0.05) between Egyptians and Jordanians. The Egyptians preferred to have their meals at their lodging private rooms (mean = 3.94) more than the Jordanians (mean = 3.61).

Table 3
Customers' Preferences Towards their Preferred Dining Style

| The Dining Style | The Two countries | The Two countries |
|------------------|-------------------|-------------------|
|                  | Mean/SD | p   | Egypt Mean/SD | Egypt Mean/SD | p   |
| Dine-in Restaurant | 2.66/1.18 | 0.000 | 2.67/1.15 | 2.64/1.25 | 0.777 |
| Takeaway         | 3.52/1.11 | 0.000 | 3.40/1.12 | 3.76/1.05 | 0.001 |
| Home Delivery    | 3.69/1.16 | 0.000 | 3.64/1.13 | 3.80/1.21 | 0.179 |
The results in table 3 revealed that the COVID-19 outbreak had significant impacts on the dining style preferences (dine-in restaurant, takeaway, home delivery). The entire $p$ values were less than 0.05. For dining in the restaurant, it was less than 3, as it achieved 2.66 (mean). This result indicated that the COVID-19 outbreak significantly decreased dining customers' preferences and desires to have their meals inside the restaurants. On the other hand, the COVID-19 outbreak significantly increased restaurant customers' preferences and desires to have their meals via home delivery (mean = 3.69). This finding coincided with Brizek et al.'s (2021) research outcome, which pointed to home delivery as the most preferred style for post-covid-19 customers. The second preference was takeaway (mean = 3.52). According to the results of table 3, geography had a limited role in this aspect. The differences among the dining customers of the two countries existed ($p < 0.05$) only in takeaway services. The Jordanians' customers had higher preferences and desires to enjoy takeaway services (mean = 3.76) than the Egyptians (mean = 3.40).

### Table 4
Dining Health Main Practices and Precautions

| Items | The Two countries | Egypt Mean/SD | Egypt Mean/SD | $p$ |
|-------|------------------|---------------|---------------|-----|
| A- Restaurants’ employees adhere to precautionary measures such as wearing gloves and masks. | 4.79/0.59 | 4.82/0.47 | 4.73/0.77 | 0.198 |
| B- Social distancing should be at least one meter at restaurants. | 4.76/0.57 | 4.82/0.39 | 4.66/0.80 | 0.025 |
| C- Installing hand sanitizers at all restaurants public areas. | 4.80/0.52 | 4.83/0.37 | 4.74/0.72 | 0.120 |
| D- Adopt a continuous sanitizing process at restaurants | 4.81/0.53 | 4.84/0.37 | 4.76/0.74 | 0.141 |

The COVID-19 outbreak had a great influence on the main restaurants' COVID-19 related health practices, i.e. “restaurants' employees adhere to precautionary measures such as wearing gloves and masks” [mean = 4.79, $p < 0.05$]; “Social distancing should be at least one meter at restaurants” [mean = 4.76, $p < 0.05$]; “Installing hand sanitizers at all restaurants public areas” [mean = 4.80, $p < 0.05$]; and “Adopt a continuous sanitizing process at restaurants” [mean = 4.81, $p < 0.05$], as illustrated in table 4. It was observed that the COVID-19 outbreak had a very great impact on these practices, because the entire means' values were higher than 4.76 (very close to being 5) and the whole $p$ values were far less than 0.05. The differences between the two nationalities existed only at one health practice item ($p [0.025] < 0.05$); the Egyptian customers significantly had greater preferences (mean = 4.82) than the Jordanians (mean = 4.66) to keep at least one meter of social distancing at restaurants.
Table 5

Customers' Preferences of Receiving Services at Outdoor or Indoor Places

| Restaurant Services to be afforded at | The Two countries Mean/SD | Comparison between Egypt and Jordan Mean/SD | p     |
|--------------------------------------|---------------------------|-------------------------------------------|-------|
| Open-air restaurant facility         | 4.30/0.88                 | 4.44/0.68                                 | 0.000 |
| Closed space restaurant facility     | 2.27/1.13                 | 2.20/1.06                                 | 0.000 |

Serving customers at open-air facilities or closed spaces was another area of examination in this research. Table 5 highlighted that the COVID-19 outbreak had significant \((p < 0.05)\) impacts on dining customers' preferences at this point. The sample had great preferences (mean = 4.30) to have restaurants' services at an open-air facility, meanwhile, their intention to have these services at a closed space facility was declined (mean = 2.27). Morawskis et al. (2020) justified this finding, due to the existing fear of COVID-19 air transmission abilities. Geographical factors had an impact on this point of investigation. Affording restaurant services at an open-air facility received a significant difference between the two nations \((p < 0.05)\), the Egyptians had higher preferences (mean = 4.44) towards receiving these services outdoors than the Jordanians (mean = 4.04).

Geography had influences on post-COVID-19 dining customers. There were significant differences between the two investigated dining customers at different points presented above. The results confirmed the state of fear, that played its role in announcing the significant impact of COVID-19 on customers’ preferences. The theory of planned behaviour and protection motivation theory justified these findings and presented a continuous need for further researches to identify the dining customers and their perceptions towards dining styles and COVID-19 preventive health precautions, which should help restauranteurs to fully recover from this disaster.

**Conclusion and Recommendations**

COVID-19 pandemic and geography influenced dining customers’ preferences toward dining styles and main preventive health precautions. Theory of planned behaviour and protection motivation theory justified this finding. The research investigated 411 online survey forms sample, which was selected using stratified and snowballing sampling techniques. The survey itself was built on previous – mainly modern- studies findings related to COVID-19. The collected sample was analyzed using quantitative statistical tools.

The current research findings found that Egyptians and Jordanians had certain significant differences in dining styles and main preventive health precautions. Egyptians highly preferred the following aspects more than the Jordanian customers, i.e. to keep at least 1 meter social distance at restaurants; preference to have their meals at their lodging private rooms; receiving dining products at open door restaurants facilities. On the other hand, the Jordanians’ dining customers were different than Egyptians in one point, as they had higher preferences and desires to
enjoy takeaway services than the Egyptians. But both of the two nationalities’ preferred to receive their dining meals at their private lodging rooms during travel; at home delivery when they will decide to order food from restaurants; and at open-air restaurant facilities if they have the choice between open-air and closed space restaurants. Both Nationalities did not prefer to dine in closed areas; restaurants in hotels or at regular restaurants. The main preventive health precautions were highly preferred and were remarked at the most highly important aspects that influenced post COVID-19 dining customers’ preferences in the two countries.

The research highlighted the desperate need of restauranteurs to understand the new customer’s preferences. The research findings and previous studies outcomes helped to develop the following list of recommendations: 1) The adoption of COVID-19 preventive health precautions were emphasized at mandatory and restaurants should use them to deliver marketing messages for reducing existed dining customers fears; 2) Restauranters need to adopt successful and fast home delivery strategies; 3) Hotels should develop room service menus and service to meet the new need of customers to dine in at their rooms ; 4) Open-air restaurant facilities were encouraged to be activated and marketed for customers, as a competitive advantage during these days (this recommendation is applicable for restaurants who has an open-air dining facilities).

Managerial Implications and Limitation of the Study

The research aimed to investigate the influence of geographical boundaries on customers dining preferences and its related health practices with an implication on Egypt & Jordan in the post-COVID-19 world. The research findings and previous investigated studies could lead to various profitable implications for restauranteurs, hoteliers, and travel agencies. There was a need to understand the post-COVID-19 dining consumers’ preferences. The hotels and restaurants can use these research findings to develop enjoyable dining experiences for their customers. Hotels need to assure affording room service in their accommodation services and open-air dining experience, if they will afford meals for their customers. Restauranteurs can develop new marketing campaigns focusing on their preventive health precautions, home delivery excellence, and open-air dining facilities (if applicable). Hoteliers can also benefit from this study by enriching their room service dining options, menus, and open-air dining facilities (if applicable at their hotel) and by focusing on preventive health precautions in their marketing campaigns.

The final thought of this research was that restauranteurs should develop their operational strategies and marketing tactics to succeed in satisfying post-COVID-19 pandemic dining customers, who changed their preferences. Even geography was approved as a factor affecting dining preferences. In brief, to succeed in the dining industry in the post-COVID-19 world, you need to keep yourself updated with research, reports and to continuously investigate your customers’ preferences and desires.
References

- Abdulla, S.A.M., Khalifa, G.S., Abuelhassan, A.E., Nordin, B.B., Ghosh, A. and Bhaumik, A., Advancement of Destination Service Quality Management Technology in Tourism industry.

- Abuelhassan, A.E. and Alharbi, S.S., 2020. Investigating the Relative Impacts of Distributive, Procedural and Interactional justice on Affective Organizational Commitment in the Egyptian Hotel Industry. International Journal of Heritage, Tourism and Hospitality, 14(1), pp.260-275.

- Abuelhassan, A.E. and Elsayed, Y.N.M., 2020. The impact of employee green training on hotel environmental performance in the Egyptian hotels. International Journal on Recent Trends in Business and Tourism (IJRTBT), 4(1), pp.24-33.

- Abuelhassan, A.E., 2019. The Effect of Trust in Supervisor on Employee Organizational Citizenship Behaviour and Knowledge Share: Evidence from the Egyptian Hospitality Industry. Minia Journal of Tourism and Hospitality Research MJTHR, 8(1), pp.87-112.

- Ajzen, I., 1991. The theory of planned behavior. Organizational Behavior and Human Decision Processes, 50(2), pp. 179–211.

- Algassim, A.A. and Abuelhassan, A.E., 2021. The Effect of COVID-19 on potential tourist's consumption behavior: Evidence from GCC countries. Journal of Association of Arab Universities for Tourism and Hospitality, 20(1), pp.129-144.

- Alharbi, S.S. and Abuelhassan, A.E., 2020. The Impact of Trust in Supervisor on Turnover Intention: Organizational Commitment as A Mediating Mechanism. International Journal on Recent Trends in Business and Tourism (IJRTBT), 4(2), pp.1-8.

- Benghadbane, F. and Khries, S., 2020. Urban touristic development in the coastal cities: case study: Aqaba, Alexandria, Annaba and Casablanca cities. GeoJournal of Tourist & Geosites, 29(2).

- Boguszewicz-Kreft, M., Kuczamer-Klopotowska, S, Kozlowski, A, Ayci, A and Abuhashesh, M., 2020. The Theory of Planned Behaviour in Medical Tourism: International Comparison in the Young Consumer Segment. International Journal of Environmental Research and Public Health, 17(5), http://search.ebscohost.com.sdl.idm.oclc.org/login.aspx?direct=true&db=mdc&AN=32138240&site=eds-live (Accessed on 12 December 2020).

- Brito, C. D., 2020. Safe Spaces: A closer look at hospitality’s new normal, Hotelier Middle East, available at: https://www.hotelierrmideast.com/business/117843-cover-story-safe-spaces?utm_source=newletter&utm_medium=email&utm_campaign=hoteliermid dleast_newsletters&utm_email=Abed_2869@yahoo.com (Accessed on 2 June 2020).

- Brizek, M. G., Frash, R. E., McLeod, B., M., and Patience, M. O., 2021. Independent restaurant operator perspectives in the wake of the COVID-19...
pandemic, *International Journal of Hospitality Management*, 93, 102766, https://www.sciencedirect.com/science/article/pii/S0278431920303182. (Accessed on 15 March 2021)

- Byrd, K., Her, E., Fan, A., Almanza, B., Liu, Y. and Leitch, S., 2021. Restaurants and COVID-19: What are consumers’ risk perceptions about restaurant food and its packaging during the pandemic?, *International Journal of Hospitality Management*, 94, 102821, https://doi.org/10.1016/j.ijhm.2020.102821 . (Accessed on 20 March 2021).

- Chadee, D., Ren, S., and Tang, G., 2021. Is digital technology the magic bullet for performing work at home? Lessons learned for post COVID-19 recovery in hospitality management. *International Journal of Hospitality Management*, 92, pp.102718.

- Cheng, E. W., 2019. Choosing between the theory of planned behavior (TPB) and the technology acceptance model (TAM). *Educational Technology Research and Development*, 67(1), pp. 21-37.

- Chien, P. M., Sharifpour, M., Ritchie, B. W., and Watson, B., 2017. Travelers’ health risk perceptions and preventative behavior: A psychological approach. *Journal of Travel Research*, 56(6), 744–759.

- Chiu, L. K., Ting, C., Alananzeh, O., and Hua, K., 2019. Perceptions of Risk and Outbound Tourism Travel Intentions among Young Working Malaysians. *Dirasat, Human and Social Sciences*, 46 (1), pp.365-379.

- Conner, K. R., Duberstein, P. R., and Conwell, Y., 2001. The validity of proxy-based data in suicide research: A study of patients 50 years of age and older who attempted suicide. I. Psychiatric diagnoses. *Acta Psychiatrica Scandinavica*, 104(3), pp.204–209.

- Corbetta, P., 2003. *Social Research: Theory, Methods and Techniques*. Sage Publications. London, United Kingdom. pp. 269-274.

- COSMOS Corporation., 1983. *Case studies and organizational innovation: Strengthening the connection*. Bethesda, MD: Author.

- Crouch, G. I., Perdue, R. R., Immermans, H. J. P., and Uysal, M., 2004. Building foundations for understanding the consumer psychology of tourism, hospitality and leisure. In G. I. Crouch, R. R. Perdue, H. J. P. Immermans, & M.( Uysal (Vol. Eds.), *Consumer psychology of tourism, hospitality and leisure*, 3, 1–10. London: CABI.

- El-Hassan, A.E.A., Elsayed, Y. and Soliman, D., 2015. Job Satisfaction and Generational Differences: Luxor Hotel Employees Case Study. *Egyptian Journal of Tourism Studies* 14(1).

- Elsayed, Y.N.M., Abuelhassan, A. and Khreis, S.H., 2021. The Effect of COVID-19 on the Domestic Tourists’ Attitudes: A Comparative Study between Egypt and Jordan. *Journal of Association of Arab Universities for Tourism and Hospitality*., 20(2).
Fishbein, M., and Ajzen, I., 1975. *Intention and Behavior: An introduction to theory and research.* MA: Addison-Wesley, Reading.

Fishbein, M., and Ajzen, I., 2011. *Predicting and Changing Behavior: The Reasoned Action Approach.* NY: Psychology press.

Gerend, M. A., and Shepherd, J. E., 2012. Predicting human papillomavirus vaccine uptake in young adult women: Comparing the health belief model and theory of planned behavior. *Annals of Behavioral Medicine*, 44(2), pp.171–180.

Gössling, S., Scott, D., and Hall, C. M., 2020. Pandemics, tourism and global change: a rapid assessment of COVID-19. *Journal of Sustainable Tourism*, 29(1), pp.1-20.

Gursoy, D., Chi, C. C. and Chi, O. H., 2020. COVID-19 Report for the Restaurant and Hotel Industry: Restaurant and Hotel Customers’ Sentiment analysis: Would they come back? If they would, WHEN? (Data Collected Between May 1 and May 7, 2020). May 8, 2020, Pullman, WA. *Hospitality & Tourism Management Academy: A Research Community*. [http://www.htmacademy.com/covid-19-research-for-hospitality-industry/](http://www.htmacademy.com/covid-19-research-for-hospitality-industry/). (Accessed on 4 November 2020).

Gursoy, D., Chi, C. C. and Chi, O. H., 2021. Tracking the Effects of COVID 19 Pandemic on Restaurant and Hotel Customers’ Sentiments “Customers’ Sentiments in January 2021 towards Dining Out, Traveling to a Destination and Staying at a Hotel”. (Data Collected Between January 1 and January 15, 2021). May 20, 2021, Pullman, WA. *Hospitality & Tourism Management Academy: A Research Community*. [http://www.htmacademy.com/covid-19-research-for-hospitality-industry/](http://www.htmacademy.com/covid-19-research-for-hospitality-industry/). (Accessed on 4 March 2021).

Hossain, M.S., Sambasivan, M., Abuelhassan, A.E. and Khalifa, G.S.A., 2020. Factors influencing customer citizenship behaviour in the hospitality industry. *Annals of Leisure Research*, pp.1-24.

Jonas, A., Mansfeld, Y., Paz, S., and Potasman, I., 2011. Determinants of health risk perception among low-risk-taking tourists traveling to developing countries. *Journal of Travel Research*, 49(1), pp. 87–99.

Jordanian Ministry of Tourism and Antiquities 2020. Preventive health precautions Guidance for All operating Types of Restaurants. [http://www.mol.gov.jo/ebv4.0/root_storage/ar/eb_list_page/%D8%AF%D9%84%D9%8A%D9%84_%D8%B9%D9%85%D9%84_%D8%A7%D9%84%D8%AA%D8%AF%D8%A7%D8%A8%D9%8A%D8%B1_%D8%A7%D9%84%D8%B3%D9%84%D8%A7%D9%85%D8%A9_%D9%88%D8%A7%D9%84%D9%88%D9%82%D8%A7%D9%8A%D8%A9_%D8%A7%D9%84%D8%B5%D8%AD%D9%8A%D8%95_%D8%A7%D9%84%D8%B3%D9%84%D8%A7%D8%A9_%D8%A7%D9%84%D8%B1_%D9%88%D8%A7%D9%84%D8%AD%D9%85_%D8%A7%D9%84%D8%B1_%D8%A7%D9%84%D8%AD%D9%85_%D8%A7%D9%84%D8%B5%D8%AD%D9%8A%D8%95_%D8%A7%D9%84%D8%B3%D9%84%D8%A7%D8%AD%D9%8A%D8%A9.pdf](http://www.mol.gov.jo/ebv4.0/root_storage/ar/eb_list_page/%D8%AF%D9%84%D9%8A%D9%84_%D8%B9%D9%85%D9%84_%D8%A7%D9%84%D8%AA%D8%AF%D8%A7%D8%A8%D9%8A%D8%B1_%D8%A7%D9%84%D8%B3%D9%84%D8%A7%D9%85%D8%A9_%D9%88%D8%A7%D9%84%D9%88%D9%82%D8%A7%D9%8A%D8%A9_%D8%A7%D9%84%D8%B5%D8%AD%D9%8A%D8%95_%D8%A7%D9%84%D8%B3%D9%84%D8%A7%D8%AD%D9%8A%D8%A9.pdf). (Accessed on 16 March 2021).

Jung, H. S., Jung, Y. S., and Yoon, H. H., 2021. COVID-19: The effects of job insecurity on the job engagement and turnover intent of deluxe hotel employees.
and the moderating role of generational characteristics. International Journal of Hospitality Management, 92, pp. 102703.

- Katsigris, C. and Thomas, C., 2008. Design and Equipment for Restaurants and Foodservice: A Management View, 3rd Edition. John Wiley and Sons.

- Khreis, S., Chapuis, J.M. and Shunnaq, M., 2020. Best Practices for Tour Guides at Christian and Islamic Religious Sites: A Case Study of Jordan. In Cases on Tour Guide Practices for Alternative Tourism (pp. 154-180). IGI Global.

- Kim, J. and Lee, J. C., 2020. Effects of COVID-19 on preferences for private dining facilities in restaurants, Journal of Hospitality and Tourism Management, 45, pp. 67-70.

- Li, J., Pearce, P. L., Wu, B., and Morrison, A. M., 2015. The impact of smog on risk perception and satisfaction of international and domestic tourists in Beijing. Tourism Tribune, 30(10), 48–59.

- Lovric, M. 2011. International Encyclopedia of Statistical Science. Springer.

- Madden, T. J., Ellen, P. S., and Ajzen, I., 1992. A comparison of the theory of planned behavior and the theory of reasoned action. Personality and Social Psychology Bulletin, 18(1), pp. 3–9.

- Maxwell, J.A., 1998. Designing a Qualitative Study. In: L. Bichman and D. J. Rog (Eds.). Handbook of Applied Social Research Methods. Sage Publications, California, USA. pp.69-100.

- Ministry of Tourism and Antiquities. 2020. Mandatory Guidelines and Regulations for Hotels and Resorts to Receive Guests: Statement from the Ministry of Tourism and Antiquities Preventive measures in hotel establishments. Ministry of Tourism and Antiquities Official Facebook Page website: https://www.facebook.com/moantiquities/. (Accessed on: 16 December 2020).

- Morawska, L., Tang, J. W., Bahnhlefth, W., Bluyssen, P. M., Boerstra, A., Buonanno, G., Cao, J., Dancer, S., Floto, A., Franchimon, F., Haworth, C., Hogeling, J., Isaxon, C., Jimenez, J. L., Kurnitski, J., Li, Y., Loomans, M., Marks, G., Marr, L. C., Mazzarella, L., Melikov, A. K., Miller, S., Milton, D. K., Nazaroff, W., Nielsen, P. V., Noakes, C., Peccia, J., Querol, X., Sekhar, C., Seppänen, O., Tanabe, S., Tellier, R., Tham, K. W., Wargocki, P., Wierzbicka, A. and Yao, M., 2020. How can airborne transmission of COVID-19 indoors be minimised?, Environment International, 142, 105832.

- Myers, J. L., Well, A., and Lorch, R. F., 2010. Research design and statistical analysis. Routledge.

- NRA, 2020. COVID-19 Operating Guidance: A Guide for Restaurant Industry. National Restaurants Association Updated Guide: December 2020. https://go.restaurant.org/rs/078-ZLA-461/images/COVID19-Operating-Guidance-National-Restaurant-Association.pdf. (Accessed on 16 March 2021).

- OECD, 2020. The territorial impact of COVID–19: Managing the crisis across levels of government. OECD Policy Responses to Coronavirus (COVID-19).
November 2020. http://www.oecd.org/coronavirus/policy-responses/the-territorial-impact-of-covid-19-managing-the-crisis-across-levels-of-government-d3e314e1/. (Accessed on 17 March 2020)

- ONA. (2020). Oman Ministry of Tourism Guide of COVID-19 Preventive Actions at Travel Agencies and Tourism Enterprises. https://omannews.gov.om/Culture_Arabic/ArtMID/483/ArticleID/15386 (Accessed on 1 July 2020)

- Pappas, N., and Glyptou, K., 2021. Accommodation decision-making during the COVID-19 pandemic: Complexity insights from Greece. *International Journal of Hospitality Management*, 93, pp. 102767.

- Pearce, P. L., and Packer, J., 2013. Minds on the move: New links from psychology to tourism. *Annals of Tourism Research*, 40, pp. 386–411.

- Peattie, S., Clarke, P., and Peattie, K., 2005. Risk and responsibility in tourism: Promoting sun-safety. *Tourism Management*, 26(3), pp. 399–408.

- Pizam, A., Jeong, G.H., Reichel, A., Boemmel, H., Lusson, J.M., and Steynberg, L., 2004. The relationship between risk-taking, sensation-seeking, and the tourist behavior of young adults: a cross-cultural study. *J. Travel. Res.* 42, 251–260. https://doi.org/10.1177/0047287503258837.

- Quintal, V. A., Lee, J. A., and Soutar, G. N., 2010. Risk, uncertainty and the theory of planned behavior: A tourism example. *Tourism Management*, 31(6), pp. 797–805.

- Rahmah, M., Ameen, A., Isaac, O., Abu-Elhassan, A.E.E.S. and Khalifa, G.S., 2020. Effect of Organizational Innovation (Product Innovation, Process Innovation, and Administrative Innovation) On Organizational Learning. *Test Engineering and Management*, 82, pp.12101-12113.

- Reidy, G., 2020. No Conveyor Belt Sushi: Japan Adapts to New Normal of the Virus. *Bloomberg.Com*, available at: http://search.ebscohost.com.sdl.idm.oclc.org/login.aspx?direct=true&db=bsu&AN=142087034&site=eds-live (accessed on 13 July 2020).

- Rogers, R. W., 1975. A protection motivation theory of fear appeals and attitude changed. *Journal of Psychology*, 91, pp. 93 – 114.

- Saunders, M., Lewis, P. and Thornhill, A., 2016. *Research Methods for Business Students*. Sixth Edition. Pearson Education.

- Schmude, J., Zavareh, S., Schwaiger, K. M., and Marion, K., 2018. Micro-level assessment of regional and local disaster impacts in tourist destinations. *Tourism Geographies*, 20(2), pp. 290–308.

- Sekaran, U., and Bougie, R., 2016. *Research Methods for Business: A Skill Building Approach*. John Wiley and Sons.
Sigala, M., 2020. Tourism and COVID-19: Impacts and implications for advancing and resetting industry and research. *Journal of business research*, 117, pp. 312-321.

Smith, S. L. J., 1983. Restaurants and dining out: Geography of a tourism business, *Annals of Tourism Research*, 10(4), pp. 515-549.

Song, H. J., Yeon, J., and Lee, S., 2021. Impact of the COVID-19 pandemic: Evidence from the U.S. restaurant industry, *International Journal of Hospitality Management*, 92, 102702.

Tikkanen, A., 2020. New Seven Wonders of the World. *Britannica*. https://www.britannica.com/list/new-seven-wonders-of-the-world. (Accessed on 17 March 2021).

Ulker-Demirel, E., and Ciftci, G., 2020. A systematic literature review of the theory of planned behavior in tourism, leisure and hospitality management research. *Journal of Hospitality and Tourism Management*, 43, pp. 209-219.

UNCTAD, 2020. Financing the response and recovery from the pandemic in developing countries. In: *United Nations Conference on Trade and Development, Impact of the COVID-19 Pandemic on Trade and Development: Transitioning to a New Normal*. United Nations Publications. https://unctad.org/system/files/official-document/osg2020d1_en.pdf. (Accessed on 17 March 2021).

UNWTO, 2020a. *Impact Assessment of the COVID-19 Outbreak on International Tourism*. United Nations World Tourism Organisation. https://www.unwto.org/impact-assessment-of-the-covid-19-outbreak-on-international-tourism. (Accessed on 16 December 2020).

UNWTO, 2020b. Tourism and Covid-19. United Nations World Tourism Organisation. https://www.unwto.org/news/covid-19-unwto-calls-on-tourism-to-be-part-of-recovery-plans. (Accessed On: 25 November, 2020).

Wang, J., Liu-Lastres, B., Ritchie, B.W. and Mills, D.J., 2019. Travellers’ self-protections against health risks: An application of the full Protection Motivation Theory. *Annals of Tourism Research*, 78, pp. 102743.

Westcott, R., Ronan, K., Bambrick, H., and Melanie, T., (2017). Expanding protection motivation theory: investigating an application to animal owners and emergency responders in bushfire emergencies. *BMC Psychology*. 5(13). 1-14.

Williams, A. M., & Baláž, V., 2015. Tourism risk and uncertainty: Theoretical reflections. *Journal of Travel Research*, 54(3), pp. 271–287.

Yin, R. K., 2018. *The Case Study Research and Applications: Design and Methods*. Sixth Edition. Sage Publications.

Yuriev, A., Dahmen, M., Paillé, P., Boiral, O., & Guillaumie, L., 2020. Pro-environmental behaviors through the lens of the theory of planned behavior: A scoping review. *Resources, Conservation and Recycling*, 155, 104660.
Tasteful changes in the behavior of restaurants and food and beverage operations have started to appear, and demand changes have started to appear in the restaurant business due to the COVID-19 pandemic. It is a new challenge to introduce new ideas in the restaurant business, and to change the customer's behavior of eating and drinking when there is no need to leave the hotel.

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Keywords: Coronavirus; Food and Beverage Industry; Restaurants; Consumer Preferences; Egypt; Jordan.

The paper discusses the impacts of the COVID-19 pandemic on the restaurant business, and how it has been affected differently in different countries. From total closure of restaurants to implementing new operational guidelines for re-opening, there have been differences in the response of consumers. The researchers tried to understand the new behavior of consumers during the post-corona period. One of the most important results of this study is the effect of geographical differences on consumer preferences, and their priorities in food and beverage operations. The researchers also built a list of recommendations for restaurant operators to respond to the new consumer preferences in the post-corona period, which will contribute to the development of food and beverage operations and the handling of consumer concerns in different geographic areas.