

Mansoura University Faculty of Tourism and Hotels

VICARIOUS TRAVEL: THE COVID-19 TOURISM EXPERIENCE PARADIGM (EXAMINING ATTITUDES AND RISK PERCEPTIONS)

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المستخلص

برز السفر دون انتقال كبديل آمن للسفر المادي، وملجأ للاسترخاء، وتخفيف التوتر والهروب في ظل الحجر الصحي المنزلي وقيود السفر المفروضة بسبب جائحة كورونا.

تهدف الدراسة إلى فحص مواقف المصريين تجاه السفر دون انتقال ومدي استعدادهم لتبنيه وسط وبعد جائحة كورونا مع تقصي إدراك المصريين لمخاطر السفر وسلوك التخطيط للسفر ونوايا السفر وسط الوباء.

وقد تم جمع البيانات باستخدام استبانة عبر الإنترنت وتم استخدام نمذجة المعادلة الهيكلية لتحليل البيانات إحصائيا. وتظهر النتائج أن هناك علاقة ذو دلالة بين إدراك مخاطر السفر وسط جائحة كورونا والاستعداد لتجربة السفر دون انتقال. علاوة على ذلك، تكشف النتائج أن الموقف من السفر دون انتقال له تأثير إيجابي على نوايا السفر.

وبشكل عام، تلقي الدراسة الضوء على السفر دون انتقال في سياق الأزمات وتقدم تعريفًا موجزًا لهذا المفهوم الذي غالبًا ما يتم تجاهله في الأدب السياحي. وتعد أفكار الدراسة ذات قيمة للأوساط الأكاديمية والهيئات السياحية.

الكلمات الرئيسية: السفر دون انتقال، سلوك السفر، المواقف، إدراك المخاطر، جائحة كورونا

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Abstract

With COVID-19 travel restrictions and home quarantines, vicarious travel has emerged as a safe physical travel alternative and a refuge for relaxation, stress relief, and escapism. This study aims to examine Egyptians' attitudes towards vicarious travel and their willingness to adopt it amid and post-COVID-19 while investigating Egyptians' travel risk perception, travel planning behavior, and travel intentions amid the pandemic. Data were collected using an online questionnaire and structural equation modeling (SEM) was employed for statistical data analysis. Findings show that there is a significant correlation between travel risk perception amid COVID-19 and the willingness to experience vicarious travel. Furthermore, findings reveal that attitude towards vicarious travel has a positive impact on travel intentions. Overall, the study sheds the light on vicarious travel in the context of crises and introduces a concise definition for this oftenoverlooked concept in tourism literature. Study insights should be of value to academia and tourism authorities.

Keywords: vicarious travel; travel behavior; attitudes;

risk perception; COVID-19

Introduction

The COVID-19 pandemic is an unprecedented crisis that

severely hit the whole world all at once (Bratić et al., 2021; Chebli & Ben Said, 2020). The outbreak of this pandemic has deeply affected global tourism. According to WTTC (2021), the global travel and tourism industry witnessed a massive loss estimated at around USD 4.5 trillion in 2020 due to the COVID-19 pandemic. These massive losses are estimated at 11 times the losses incurred because of the 2009 global economic crisis (UNWTO, 2021b). As many countries enforced strict measures such as lockdowns, curfews, and airspace closure to contain the virus, these widespread imposed travel restrictions resulted in an unprecedented decline in travel demand where international tourist arrivals fell by 74% in 2020 from 2019 (UNWTO, 2021b). According to UNWTO (2021b), the figures for international tourism in 2020 are the worst on record so far. In times of crisis, consumers' behavior changes drastically (Mehta et al., 2020; Sawhney & Madan, 2021). Hence, the COVID-19 crisis has brought about significant changes in travel behavior and tourist psychology (Kock et al., 2020) and has resulted in increased digital consumption (De' et al., 2020) and internet usage, especially for social media engagement (Beech, 2020; Pandya & Lodha, 2021). With COVID-19 home confinement and tourist destinations

worldwide having to cancel events and shut down attractions (Gössling et al., 2020), people began to look for physical travel substitutes and seek travel experiences from the comfort of their homes (UNWTO, 2021a) to satisfy their wish for travel, escape quarantine, enhance their wellbeing and reduce psychological stress (Yang et al., 2021). According to UNWTO (2021a), COVID-19 resulted in an unprecedented demand for virtually accessing heritage sites, museum collections, and theatre performances. So, to encourage the citizens to comply with stay-at-home orders and maintain social distancing, many tourist attractions such as heritage sites (e.g. Machu Picchu, Great Wall of China, Taj Mahal), museums (e.g. the Louvre, British Museum, the Vatican museums), and national parks (e.g. Yellowstone, Yosemite) offered online virtual tours (Snow, 2020) that can be remotely experienced from home.

Similarly, the Egyptian Ministry of Tourism and Antiquities created an e-initiative entitled 'Explore Egypt from Home'. It included launching several virtual tours of Egyptian museums and ancient archaeological sites, which were made available on the ministry's official website and its social media platforms for everyone worldwide to watch from the comfort of their homes during the quarantine (Egyptian Ministry of Tourism and Antiquities, 2020; Essam, 2020). This initiative has sparked the idea of this research study.

Accordingly, the study's main objective is to investigate whether Egyptians have experienced vicarious travel amid COVID-19 and their willingness to adopt it as a substitute for physical travel in times of crisis when travel opportunities are limited.

To achieve this objective, the study at hand applies the theory of planned behavior (TPB) by Ajzen (1985) which indicates that behavioral intentions are influenced by attitudes about the likelihood that the behavior will reach the expected results besides the subjective evaluation of the risk and benefits of that result. Therefore, this study aims to (1) measure the impact of the attitude toward vicarious travel during crises, especially amid the COVID-19 pandemic on the behavioral intention of adopting vicarious travel. (2) measure the impact of COVID-19 subjective risk

perception on the behavioral intention of adopting vicarious travel during crises, particularly amid the COVID-19 pandemic. (3) measure the impact of subjective travel risk perception of respondents amid the COVID-19 pandemic on their attitude toward the adoption of vicarious travel experiences. Moreover, it (4) explores to what extent the tourists' are willing to replace corporeal travel with vicarious travel during crises, particularly amid the COVID-19 pandemic; (5) determines the advantages of vicarious travel experiences over corporeal travel experiences; (6) explores the vicarious travel experiences that respondents are willing to pay for; (7) If not willing to alter corporeal travel to vicarious travel, explores why do they think vicarious travel experiences can't replace corporeal travel experiences?; (8) determines the purposes for travel amid COVID-19; (9) measures the impact of the COVID-19 pandemic on respondents' travel planning behavior and travel habits; (10) explores the attitudes toward vicarious travel and the willingness to adopt it amid and post COVID-19; (11) describes the travel risk perception amid the COVID-19 pandemic; (12) analyzes the future intention to adopt vicarious travel amid and post COVID-19.

By achieving the previous aims new knowledge will be added to the current literature and a new reliable and valid model regarding developing countries like Egypt is developed providing practical benefits and implications for researchers and practitioners. VICARIOUS TRAVEL: THE COVID-19 TOURISM EXPERIENCE PARADIGM (EXAMINING ATTITUDES AND RISK PERCEPTIONS)

Literature review Vicarious travel definition

A theoretical framework for vicarious travel has not been established yet and there is no precise definition for vicarious tourism up till now. According to Webster's New World College Dictionary (2020), to experience something vicariously is to experience it through imagined participation in someone else's experience. Therefore, to travel vicariously is to experience travel indirectly through imagination without having to physically travel.

Robinson et al. (2011) supported this notion by stating that 'physical travel is no longer necessary to achieve touristic experiences' (p.55). Similarly, Robinson (2014) discussed the importance of considering the vicarious elements of the travel experience as touristic encounters, regardless of the physical presence in the destination.

Armchair travel is a more commonly used synonym for vicarious travel. Although the term is not new to tourism literature, it is rarely discussed. Armchair travel was originally used to refer to the sensory travel experiences of elder or physically disabled people (Trembath, 2020). However, lately, with the COVID-19 quarantine, the term is brought back to the spotlight with a broader meaning.

According to Baxter & Pieszek (2011), armchair travel is a form of niche tourism that enables participants to explore destinations from the comfort of their homes without having to physically travel. They further explained that it can be experienced through books, television, or the internet. In this sense, the above definition of armchair tourism contradicts the WTO (1994) tourism definition stated below: Tourism comprises the activities of persons travelling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business, and other purposes not related to the exercise of an activity remunerated from within the place visited (WTO, 1994, p.8).

However, Baxter & Pieszek (2011) argued that tourism activity is not about physical change rather it can be regarded as a temporary psychological change in a person's state of mind, environment, and lifestyle experienced for several purposes such as recreation, adventure, education ... etc. Accordingly, vicariously traveling can be considered a form of tourism.

Another commonly used synonym for vicarious travel is virtual travel. Verhoeff (2006) considered virtual tourism as the new form of vicarious travel that uses modern media to create visual, sensual, and intellectual experiences and further asserted that today's vicarious tourism focuses on experience rather than physical presence since destinations' accessibility is much easier than before. Similarly, according to Spector (2015), today's virtual travel is merely yesterday's armchair travel. However, virtual travelers are more capable of controlling their travel experiences by choosing and customizing their tour components.

Generally, the vicarious components of the travel experience have often been overlooked in tourism literature while physical travel and bodily tourism have always been privileged in academia (Mura et al., 2017; Robinson, 2014). In other words, vicarious travel experiences haven't been discussed thoroughly in tourism literature but are merely referred to in the contexts of tourism experiences and tourism media (Table 1).

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[Table 1 near here]

Overall, several previous studies discussed the notion of vicarious travel. Nevertheless, the previous literature was not able to capture the whole picture of vicarious tourism. Most of the prior studies attempted to address vicarious travel in the context of modern media and ICT. However, vicarious travel rather reflects an umbrella term that encompasses all non-corporeal travel experiences whether technologically or non-technologically driven.

In an attempt to provide a more comprehensive understanding of the concept of vicarious travel, this study proposes the following definition: vicarious travel is all about non-corporeal travel experiences that allow participants to travel freely across time and space without having to endure real-world travel constraints where vicarious travel can be experienced through 3D VR tours, 360° travel videography, travel vlogs, travel photography, travel live streaming (TLS), travel T.V. shows and documentaries, travel podcasts, holiday books, and travel guides as well as folk music.

Vicarious travel experiences amid COVID-19

Facing these unprecedented challenges of uncertainty and travel anxiety, tourist destinations and attractions (supply side) began to develop alternative forms of travel and offer innovative tourism experiences to keep potential tourists interested in their destinations during the pandemic and entice future visits (Aminy, 2020). For example, Singapore Tourism Board (2020) launched the 'Experience Singapore now. Travel later' initiative which offers visitors 360° virtual experiences of Singapore's most popular attractions

to explore from the comfort of their homes. Similarly, Japan National Tourism Organization released 'Japan: Where Tradition Meets the Future'; a 360° virtual tour on YouTube of the most famous attractions of Japan that can be remotely accessed from any mobile device (May, 2020). Moreover, to generate revenue and mitigate the losses incurred during COVID-19 and keep potential visitors engaged, some tour operators, tourist attractions, and accommodation establishments began offering live video streaming, online classes, and selling souvenirs online (Deng et al., 2021; Qiu et al., 2021; Verbin, 2021). For example, San Diego and Houston Zoos offered live streaming so that visitors can virtually enjoy watching their animals. Aquariums such as Monterey Bay Aquarium, and New England Aquarium also offered live streams of their sea creatures (Bloom, 2020; Schlichter, 2020). Also, to survive the crisis, many tourism and hospitality businesses tried to come up with innovative vicarious tourism experiences. For example, many resort hotels started offering live-stream classes (voga, cooking, dancing, pottery, scuba diving ... etc.) or offered live guided tours within the resorts and live music. Some theatres offered live-stream performances of plays, opera, and ballet (e.g., the Metropolitan Opera, the Globe Theatre, and the Royal Opera House) (Michel, 2021).

Many travel agencies also adopted live-streaming (O'Neill, 2020) and started offering customized online tourism experiences for their customers in the form of interactive virtual tours where a local tour guide takes participants on a live sightseeing tour by sharing a live video of the tourist places, he is visiting over a video call using his smartphone while narrating the history of these places. Participants can

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ask their guide and get answered instantly as if they were on an actual tour. These tours were a way for local guides to earn a living during the pandemic. Travel agencies also have made good profits since the costs incurred for organizing physical sightseeing tours were no longer present (Ahaskar, 2020). Some travel agencies contacted local craft sellers to promote their products as souvenirs and sell them online through their official websites (Aminy, 2020).

Furthermore, many international organizations developed initiatives to help destination managers worldwide in their fight against COVID-19. For instance, UNESCO (2021) in collaboration with Google has launched a virtual tours exhibition of many world heritage sites and national parks to encourage people to comply with stay-at-home orders and keep them engaged with travel destinations amid the pandemic.

On the demand side, people began seeking vicarious travel experiences as physical travel alternatives during lockdowns. MacSween & Canziani (2021) indicated that respondents increasingly visited online travel resources during Covid-19 home confinement mainly for entertainment and relaxation purposes. Similarly, Rastati (2020) stated that people experienced virtual tours as a way of relaxing during the quarantine while addressing virtual tours as alternative tourism experiences amid COVID-19 that could even last after the pandemic is over as vicarious travel experiences are a much cheaper option, especially for those who 'do not have the resources, economic capacity, spare time, and access' (p.493). For instance, vicarious travel experiences offer a better travel alternative for people with disabilities or seniors with limited mobility who

cannot have physical tourism experiences (Rastati, 2020; Williams & Hobson, 1995).

Travel planning behavior and consumption patterns amid COVID-19

COVID-19 has resulted in significant impacts on tourists' travel planning behavior and consumption patterns (Abdullah et al., 2020; Hall et al., 2021; Toubes et al., 2021). Generally, the pandemic heightened travel anxiety that arises from the presence of travel-related risks, which in turn influence travel intentions, travel planning behavior (Bratić et al., 2021; Luo & Lam, 2020) and eventually reshape travel habits (Eichelberger et al., 2021; Shamshiripour et al., 2020).

Therefore, travel fear and anxiety arising from the possibility of contracting COVID-19 have resulted in massive trip cancellations (Eichelberger et al., 2021; Gössling et al., 2020) and travel avoidance (Gupta et al., 2021). In other words, tourists' perception of COVID-19 as a travel-related risk has compelled them to alter their vacation plans in terms of destination, transportation, accommodation, and activity choices (Bratić et al., 2021). For instance, COVID-19 has resulted in international travel avoidance (Chua et al., 2020), domestic trips preference (Del Chiappa et al., 2021), overcrowded destinations and big cities avoidance (Marques Santos et al., 2020), reduced length of stay (Bratić et al., 2021), favoring outdoor tourist activities to indoor events (Marques Santos et al., 2020) as well as the preference of independent travel to group travel (Wen et al., 2020) and using private cars as a mode of transportation (Abdullah et al., 2020; Beck & Hensher, VICARIOUS TRAVEL: THE COVID-19 TOURISM EXPERIENCE PARADIGM (EXAMINING ATTITUDES AND RISK PERCEPTIONS)

2020; De Haas et al., 2020). Also, tourists started adopting new health-protective behaviors (e.g. wearing face masks, using hand sanitizers or disposable gloves, and practicing social distancing) for safe travel (Addo et al., 2020; Bhati et increased interest al.. 2020) with in hospitality establishments that apply strict safety measures (e.g. testing temperature, implementing social distancing, a limited number of guests, visible sanitizing/cleaning efforts) and offer contactless experiences (keyless entry, smart selfcheck-in/out kiosks, contactless payment, touchless elevators, digital menus, service robots ... etc.) (Gursoy & Chi. 2020).

Furthermore, COVID-19 has contributed to lessened disposable income influencing the tourists' willingness to pay for travel and tourism products in the first place (Toubes et al., 2021). Nevertheless, studies have shown that tourists are willing to pay extra fees for safe tourism services that ensure their safety amid COVID-19 (Gursoy & Chi, 2020; Jeon & Yang, 2021; Sánchez-Cañizares et al., 2020). Besides, with the uncertainty related to COVID-19, tourists tend to delay their travel purchase decisions and opt for last-minute bookings (Toubes et al., 2021).

As for consumption patterns, COVID-19 has mainly resulted in an accelerated shift towards digital consumption (UNCTAD, 2020) with consumers adopting more of a 'millennial mindset' regardless of their age group (Puttaiah et al., 2020) in which they have become more reliant on online information sources and digital transactions where ecommerce became indispensable (Murphy, 2021). These consumer behavioral changes towards increased digital adoption and online shopping are more likely going to continue after the pandemic for they offer consumers convenience and well-being (Puttaiah et al., 2020; Torkington, 2021). Accordingly, more travelers will be planning and booking their trips over the Internet. Therefore, to successfully operate in a post-pandemic digitally transformed tourism industry, tourism businesses take into consideration these new consumption patterns and adapt to the new situation accordingly.

Research hypotheses

The theory of planned behavior (TPB) is considered the supporting theory to explain the relations among the study variables. It indicates that behavioral intentions are influenced by attitudes about the likelihood that the behavior will reach the expected results in addition to the subjective evaluation of the risk and benefits of that result (Ajzen, 1985).

The theory of planned behavior includes constructs representing the person's actual control over behavior which are: (1) Attitudes refer to the degree to which a person has a favorable or unfavorable evaluation of the behavior of interest. (2) Behavioral intention refers to the motivational factors that influence a given behavior; the stronger the intention to perform the behavior, the more likely the behavior will be performed. (3) A subjective norm is the belief that the majorities of people approve or disapprove of the behavior. (4) Perceived power refers to the perceived presence of factors that can help or hinder the performance of the behavior. (5) Perceived behavioral control refers to a person's perception of how easy or difficult it is to perform the desired behavior. Hence the following hypotheses are proposed:

H1: Attitude towards vicarious travel experiences has a significant positive impact on the behavioral intention to adopt vicarious travel.

H2: The subjective evaluation of the COVID-19 pandemic risk has a significant positive impact on the behavioral intention to adopt vicarious travel.

H3: The subjective evaluation of the COVID-19 pandemic risk has a significant positive impact on attitudes toward vicarious travel experiences.

Moreover, previous studies such as Zhang et al. (2022) regarding travel risk perception amid the COVID-19 pandemic and attitude towards vicarious travel experiences found a significant positive impact of travel risk perception on attitude towards vicarious travel experiences, which means positive attitudes of tourists toward vicarious travel experience are affected by crises situations through perceiving the subjective evaluation of the risk of COVID-19 pandemic.

Also, proceeding studies such as Wen et al. (2020) found a significant impact of the COVID-19 pandemic on future travel preferences and related behaviors post the disaster where Chinese tourists will be more likely to seek out destinations with established infrastructure and highquality medical facilities post-COVID-19 outbreak and purchase travel insurance while reserving a tour to cover illness like COVID-19, they may also avoid traveling to crowded tourist sites and they will be cautious while selecting tourism destinations in the future. Nazneen et al. (2020) found a significant impact of the COVID-19 pandemic on the Chinese decision for traveling and travel behavior intentions where tourists intended to postpone their travel plans for the next 12 months and it also raised their concerns about the safety and hygiene of public transportation, hotels, and recreation sites.

Rahman et al. (2021) found that COVID-19 has a great impact on travel risk perception, and it affected tourists' travel planning and intentions where they will avoid overpopulated destinations and prefer short-distance travel. It also has a positive impact on following strict hygiene and safety procedures.

Furthermore, Bae & Chang (2020) found that attitude is a significant mediator between affective risk perception and future travel intention.

El-Said & Aziz (2021), Bratić et al. (2021), and Turnšek et al. (2020) investigated the travel risk perception amid the COVID-19 pandemic and the travel intentions toward vicarious travel and found that COVID-19 pandemic risk perception positively impacted tourists future travel intention to adopt vicarious travel and that they will recommend and encourage their friends to experience vicarious travel amid the COVID-19 pandemic.

[Figure 1 near here]

Method

To gain in-depth insights concerning attitudes towards vicarious travel experiences amid COVID-19, the study adopted the deductive approach and quantitative method using hypotheses to measure the causal relationship among the study variables.

Data collection and sampling

The survey targeted Egyptian internet users (18 years of age and above) who are interested in travel (members of active travel groups and communities). For data collection, the researchers used the non-probability sampling technique (self-selection sampling technique). According to Saunders et al. (2016), this technique is used when each case, usually an individual, is allowed to identify their desire to participate in the research. Researchers publicized the need for participants by advertising on Egyptian travel groups and communities on social networking sites such as (Facebook, and LinkedIn).

The study used an online questionnaire created using Google Forms which was sent to interested participants. A total number of 292 valid responses were received between April 29th to August 5th, 2021. According to Hair et al. (2014), the minimum sample size in SEM is (100) for models containing five or fewer constructs, each with more than three items (observed variables), and with high item communalities (0.6 or higher).

Questionnaire development

The study questionnaire included closed-ended questions that allowed respondents to select the most relevant answers. The questionnaire survey consisted of six sections. The first section aimed to examine the respondents' travel planning behavior amid COVID-19. It included ten questions concerning their travel arrangements, travel purposes, travel budget, length of stay, mode of transportation, and safety precautions amid COVID-19. These questions were derived from Howard (2020).

The second section had the purpose of investigating the respondents' subjective evaluation of the risk of the COVID-19 pandemic. Respondents were required to indicate how strongly they agree or disagree with six statements using a five-point Likert scale ranging from (1) 'Strongly disagree' to (5) 'Strongly agree'. The statements were adapted from (Cahyanto et al., 2016; El-Said & Aziz, 2021; Lindell & Perry, 2000; Nazneen et al., 2020).

The third section aimed at evaluating the respondents' perception of vicarious travel experiences. The respondents were asked about their past vicarious travel experiences, the pros, and cons of vicarious travel, the types of vicarious travel experiences they are willing to pay for, and finally, if they are completely satisfied after consuming vicarious travel experiences or more interested in physically visiting the destination. The last question was adapted from (Huang et al., 2013).

The fourth section was concerned with examining the respondents' attitudes toward adopting vicarious travel amid COVID-19. The study adopted previously validated measurement scales used in previous literature of similar contexts (online travel vlogs, VR in tourism) as shown in Table 2. All items were measured on a five-point Likert scale.

[Table 2 near here]

Using a five-point Likert scale, the fifth section (nine statements) aimed at investigating the respondents' future intentions concerning adopting vicarious travel to reach travel safety, avoiding crowded attractions, preferring highquality accommodation and restaurants, using public transport, traveling extensively, and taking longer trips. The statements were derived from (Bratić et al., 2021; Cheng et al., 2020; Nazneen et al., 2020; Richards & Morrill, 2020; Turnšek et al., 2020; Z. Wen et al., 2008).

The final section of the questionnaire had the purpose of collecting the respondents' profiles in terms of their gender, age group, marital status, education level, work status, travel frequency, travel duration, and travel companionship.

Tools for data analysis

The advanced multivariate structural equation modeling (SEM) technique was used for quantitative data analysis. Furthermore, the structural equation modeling analysis was carried out using the Amos software version (26). The statistical package for social sciences (SPSS version 22, Chicago, IL) was also used.

The questionnaire validity and the pilot testing

Validity for the measurement model is accomplished through two types of validity: convergent validity and discriminant validity. Convergent validity is measured by two measures: composite reliability (CR) which measures construct reliability and average variance extracted (AVE). For convergent validity, the loadings of factors of each construct should be greater than 0.70 and according to Chin (2009), the items with factor loadings lower than 0.40 should be eliminated so that the only remaining of high factor loading can process for the subsequent step according to Hair et al. (2011). Accordingly, the analysis reduced the construct of travel risk perception from five items to four items by removing the fifth item and reduced the construct of future intention from nine items to four items by eliminating the second, third, fourth, fifth, and ninth items.

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The findings of convergent validity of the measurement model are revealed in Table 3 where composite reliability and Cronbach's alpha according to Hair et al. (2016) for all constructs exceed 0.70 and AVEs greater than 0.50 (Table 4), indicating convergent validity as mentioned by Altman & Bland (1994) and Chin (2009).

Discriminant validity (Table 4) measures the distinction of latent variables in the model from each other according to Hair et al. (2011) where the findings show that the square root of the AVE for each variable is higher than all of the correlation among the latent variable and other latent variables in the model revealing acceptable discriminant validity for the model.

Furthermore, the multivariate normality of data was tested using an online tool (<u>https://www.statology.org/skewness-and-kurtosis-calculator/</u>), and the result indicated that the data set is normal as it has skewness between (- and+1) and kurtosis between (- and+3) that matches a normal distribution.

[Table 3 near here] [Table 4 near here]

Results

Respondents' profile

All respondents were Egyptians. The demographic profile of respondents is shown in Table 5. Concerning travel frequency, 51% of respondents travel once a year, 25% 2-3 times a year, 18% rarely travel, and 6% travel more than 3 times a year. The average length of vacation for 47% of

responders is 4-6 days, 32% 2-3 days, 14% 7-10 days, and 7% 11-15 days. As for travel companionship, 47% of respondents travel with family, 23% with their spouses, 19% with friends, 6% in groups, and 5% travel solo.

[Table 5 near here]

Descriptive findings

First, the findings demonstrate that about 50% of respondents agreed and strongly agreed on replacing their corporeal travels with vicarious travel experiences amid the COVID-19 pandemic, while 26 % of respondents disagreed and strongly disagreed with that (Table 6).

Moreover, the findings showed that 69% of the respondents who agreed and strongly agreed on replacing their corporeal travels with vicarious travel experiences amid the COVID-19 pandemic, enjoyed travel vlogs during COVID-19 quarantine, 41% enjoyed travel photography, 36% enjoyed movies that inspire for travel, 35% enjoyed 360° travel videos, 33% enjoyed travel T.V shows, 26% enjoyed 3D VR tours, 14% enjoyed travel destinations live streaming, 8% enjoyed holiday books and travel guides, 6% enjoyed travel podcasts and 0.34% Google map street view (Table 6).

Also, respondents identified the following advantages of vicarious travel experiences over corporeal travel experiences: 46% pointed out that it is a good alternative for those who cannot physically visit tourist sites, 34% indicated that it is an affordable travel alternative, 29% said that it brings distant destinations closer, 28% selected it allows tourists to visit inaccessible sites, and 21% said it can recreate destroyed historical sites, 9% said that it's a more environmentally conscious travel choice, and 33% of respondents mentioned all the above (Table 6).

In addition, findings revealed that the vicarious travel experiences that respondents were willing to pay for are: VR sightseeing tours (21%), VR museum tours (17%), virtual resort experiences (15%), VR scuba diving tours (11%), subscribe to cable travel channels (10%), VR national parks tours (6%), buy holiday books and travel guides (5%), none of the above (16%) (Table 6).

Furthermore, 26% of the total respondents disagreed and strongly disagreed that vicarious travel experiences can replace corporeal travel experiences where 45% of them would miss the sensual aspects of travel, 35% would miss walking and exploring places, 29% would miss visiting local markets and buying souvenirs, 29% would miss local food and drinks and 25% would miss getting in touch with locals, 24% would miss swimming, diving, hiking, and enjoying nature/wildlife, and 43% mentioned all the above (Table 6).

[Table 6 near here]

Second, the findings revealed that 43% of respondents were willing to travel amid COVID-19 for business/work and for relaxation/leisure, 36% for visiting family and friends, 30% for studying, 23% for health reasons, 13% for religious reasons, 10% for adventure/exploration, 4% for honeymooning, and 12% were not planning to travel amid COVID-19 (Table 7).

[Table 7 near here]

Third, for the impact of the COVID-19 pandemic on respondents' travel planning behavior and travel habits, the findings show that during 2020 most of the respondents (75%) canceled their travel arrangements due to the outbreak of COVID-19. More than half of the respondents (55.5%) did not plan for going on a vacation in 2021.

82.5% of respondents have not made any travel arrangements (booked hotels, flight tickets ... etc.) during 2021. Around 69% of respondents were not encouraged by accommodation and flight deals and discounts to travel amid COVID-19. Only 28% of respondents will reduce their length of stay if on vacation. 48% stated that there is no change in their travel budgets due to COVID-19, 40% decreased their travel budgets and only 12% increased their travel budgets.

Moreover, most respondents (79%) believed that using private cars is the safest mode of transportation amid COVID-19. As for safety precautions during travel, the findings showed that 68% of respondents used face masks, 64% practiced social distancing, 61% used hand sanitizers, 60% avoided crowded places, 55% washed hands regularly, 45% used disposable cutlery, 34% used contactless payment, 27% participated in outdoor activities only, 24% chose isolated accommodation, 23% used contactless check-in/out, 18% used virtual room keys, 39% did all the above and 1% of them did not follow any of these safety precautions (Table 8).

[Table 8 near here]

Fourth, for the attitudes towards vicarious travel and the willingness to adopt it amid COVID-19, it was found that 67% of respondents agreed and strongly agreed that vicarious travel experiences helped them to pass time, about 63% agreed and strongly agreed that vicarious travel experiences helped them overcome boredom, 64% agreed and strongly agreed that vicarious travel experiences are entertaining, 47.5% agreed and strongly agreed that vicarious travel experiences helped them to feel relax while 24% disagreed and strongly disagreed, about 55% agreed

and strongly agreed that experiencing vicarious travel let them imagine themselves being at the destination, 42.5% agreed and strongly agreed that experiencing vicarious travel made them feel as if they were a part of the travel journey while 30% disagreed and strongly disagreed, Around 42% agreed and strongly agreed that vicarious travel experiences helped them escape from reality while 30% disagreed and strongly disagreed, Also, 69.5% agreed and strongly agreed that vicarious travel is a safe alternative that protects them from contracting COVID-19, about 50% agreed and strongly agreed that vicarious travel should replace physical travel during the times of crises while 26% disagreed and strongly disagreed, and 49% agreed and strongly agreed that they will recommend experiencing vicarious travel to their friends instead of corporeal travel amid COVID-19 (Table 9).

[Table 9 near here]

Fifth, for the travel risk perception amid the COVID-19 pandemic, findings showed that 70% of respondents perceived that traveling is unsafe due to COVID-19, 75% were worried about contracting COVID-19 during traveling, about 71% would not travel within groups amid COVID-19, and 86% did not feel safe in crowded tourist attractions (Table 10).

[Table 10 near here]

Finally, concerning the intention to adopt vicarious travel and future travel intentions, for 84% of respondents, safety will be the deciding factor when they choose where to travel in the future. More than half of respondents (63.5%) will travel again after it becomes safe, they will take long trips and will also increase the length of their stay. After COVID-19, 68% will experience vicarious travel to inspire them to visit new destinations and 72% will experience vicarious travel to help them better plan their vacations (Table 11).

[Table 11 near here]

Measurement model (see Figure 2)

To extend the reliability of the measurement model, composite reliability (CR) (Nunnally & Bernstein, 1994) was also suggested. Both previously mentioned approaches carry the same concept, but CR seemed a better preference (Afthanorhan et al., 2014).

Hair et al. (2014) indicates that the model fit indices should be within target limits when analyzing the measurement model's findings.

The model fit indices: Chi-square = 434, Degrees of freedom = 223 (must be > 0) which is representing the amount of mathematical information available to estimate model parameters. Chi-square P-value = .061 (ideal when >.05) small Chi-square (χ 2) value (and corresponding large p-value), indicate that there is no statistically significant difference between the two matrices, supporting the notion that a proposed theory fits reality

Measurement model incremental fit indices:

Comparative Fit Index CFI = .952 (ideal when > 0.9). A better fit is described by higher values. RMSEA= .058 Lower RMSEA values indicate a better fit. Where it demonstrates how well a model fits a population rather than merely a sample used for estimation. PNFI Ratio= .735 (highest PNFI values represent good fit). In terms of the criteria reflected by this index, the highest PNFI value is the most supported.

[Figure 2 near here] Structural model: (see Figure 3)

Structural model Goodness of Fit: Chi-square = 417. Degrees of freedom = 221 (must be > 0) where it represents the amount of mathematical information available to estimate model parameters. Chi-square P-value =0.61 (ideal when >.05) where we look for a relatively small Chi-square (χ 2) value (and corresponding large p-value), showing that there is no statistically significant difference between the two matrices, supporting the notion that a proposed theory fits reality.

Structural model incremental fit indices: Comparative Fit Index CFI = .958 (ideal when > 0.9). A better fit is determined by higher values. RMSEA= .055 where lower values show a better fit. It demonstrates how well a model fits a population rather than merely a sample used for estimation. PNFI Ratio= .733 (highest PNFI values indicate good fit) and the most supported.

[Figure 3 near here]

Hypotheses testing

Findings of the structural model indicated that attitudes of the Egyptians towards vicarious travel experiences have a significant positive impact on their behavioral intention to adopt vicarious travel where (β = 0.50 and P<0.05). Thus, H1 is supported.

Findings also showed that subjective evaluation of the COVID-19 pandemic risk by respondents has a weak positive impact on their intention to adopt vicarious travel and their future travel where (β = 0.24 and P<0.05). Therefore, H2 is supported.

Furthermore, the subjective evaluation of the COVID-19 pandemic risk of respondents was found to have a positive impact on their attitude towards vicarious travel experiences where (β = 0.36 and P<0.05). Thus, H3 is supported.

Discussion and conclusion

The current study focuses on vicarious travel as a new tourism experience brought about by COVID-19. It also examines the subjective evaluation of the COVID-19 pandemic risk, attitude toward vicarious travel, and intentions to adopt vicarious travel as well as travel safety procedures amid the pandemic.

Findings indicated that 50% of respondents agreed and strongly agreed on replacing their corporeal travels with vicarious travel experiences amid the COVID-19 pandemic. Also, they enjoyed travel vlogs, travel photography, travel destinations live streaming, movies that inspire travel, 360° travel videos, travel T.V shows, 3D VR tours, and travel podcasts during the COVID-19 quarantine. These findings agree with MacSween & Canziani (2021) who reported an increase in visiting online travel resources during COVID-19 quarantine mainly for entertainment and relaxation, Rastati (2020) who stated that people experienced virtual tours as a way of relaxing during quarantine, and Sarkady et al. (2021) who found that VR gives users a sense of escapism to overcome infectious diseases as a barrier for traveling.

Moreover, the advantages of vicarious travel experiences over corporeal travel experiences were identified by respondents as being a good alternative for those who cannot physically visit tourist sites, being an affordable travel alternative, bringing distant destinations closer, allowing tourists to visit inaccessible sites, recreating destroyed historical sites, being a more environmentally conscious travel choice, and one-third of respondents mentioned all the above. This finding agrees with the findings of Rastati (2020).

According to findings, respondents are willing to pay for VR sightseeing tours, VR museum tours, virtual resort experiences, VR scuba diving tours, subscribe to cable travel channels, VR national parks tours, and buy holiday books and travel guides.

Furthermore, the answer to why 26% of respondents disagree that vicarious travel experiences can replace corporeal travel experiences is because they will miss the sensual aspects of travel, visiting local markets, buying souvenirs, local food and drinks, getting in touch with locals, swimming, diving, hiking, enjoying nature and wildlife, and 43% mentioned all the above. This finding agrees with the findings of Gössling (2021) and Urry (2002) who argued that virtual travel can never replace corporeal travel. Most respondents also stated that after consuming vicarious travel experiences, they are more interested in physically visiting the destination.

The findings show that during 2020, the majority of the respondents canceled their travel arrangements due to the outbreak of COVID-19 which agrees with the findings of Eichelberger et al. (2021) and Gössling et al. (2020) who stated that COVID-19 has resulted in massive trip cancellations. More than half of the respondents did not plan on going on a vacation in 2021 and most respondents have not made any travel arrangements (booked hotels, flight tickets ... etc.) during 2021. These findings agree with

Gupta et al. (2021) who reached similar results concerning Indians' travel avoidance amid COVID-19.

According to study findings, using private cars was found to be the safest mode of transportation amid COVID-19. This finding agrees with the findings of Abdullah et al. (2020), Beck & Hensher (2020), and De Haas et al. (2020).

Findings show that the attitudes toward vicarious travel have a positive impact on the intention to adopt it amid the COVID-19 pandemic based on many reasons; it is a safe alternative that protects them from contracting COVID-19, it helped them pass time, overcome boredom, feel relaxed, and escape from reality. Also, it is entertaining, it lets them imagine themselves being at the destination, and it makes them feel as if they are a part of the travel journey which is consistent with the findings of Bae & Chang (2020) who found that attitude is a significant mediator between affective risk perception and travel intention. Furthermore, Sánchez-Cañizares et al. (2020) found that a positive attitude increases travel intention.

According to the findings the perceived subjective evaluation of the COVID-19 pandemic risk, has a weak positive impact on the intention to adopt vicarious travel as respondents perceived traveling as unsafe due to COVID-19, they were worried about contracting COVID-19 during traveling, they were not willing to travel within groups amid COVID-19, and they did not feel safe in crowded tourist attractions which is consistent with the findings of (El-Said & Aziz, 2021; Bratić et al., 2021; Turnšek et al., 2020) who found that COVID-19 pandemic risk perception positively impacted tourists travel intention. In addition, they will recommend and encourage their friends to experience vicarious travel amid the COVID-19 pandemic. The findings indicated that concerning the future travel intention amid and post COVID-19, they will experience vicarious travel during and post COVID-19 pandemic which inspires them to visit new destinations and helps them better plan their vacation. Also, safety will be the deciding factor when they choose where to travel in the future. They will travel again after it becomes safe, they will take long trips, and increase the length of their stay.

Furthermore, findings revealed that the perceived subjective evaluation of the COVID-19 pandemic risk has a positive impact on their attitude towards adopting vicarious travel experiences which is consistent with Zhang et al. (2022) who found a significant positive impact of travel risk perception on attitude toward vicarious travel experiences. This finding agrees with the findings of Sánchez-Cañizares et al. (2020) who found that respondents' perceived subjective evaluation of the COVID-19 pandemic risk has a negative influence on both their attitude towards corporeal travel and their willingness to travel. Also, Sarkady et al. (2021) found that the intention to avoid or cancel travel during a pandemic, such as COVID-19, is highly related to risk perception towards travel in general, and especially towards destinations with reported cases. However, these findings are inconsistent with the findings of Boto-García & Leoni (2021) who reported that Spanish people who were severely affected by COVID-19 were still willing to travel amid the pandemic. This could be attributed to the cultural differences between countries. People in different countries differ in cultural attitudes toward travel behavior. It can also be attributed to the factors that influence travelers' risk perception such as the growth rate of the pandemic in the country, media coverage, and governance.

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Research implications

The following implications are provided based on the study findings:

Theoretical implications

First, the study at hand contributes to the existing tourism literature by thoroughly discussing and conceptualizing the often-overlooked vicarious travel experience, which differs in nature from the often-privileged corporeal travel experiences.

Second, while most of the prior studies attempted to address vicarious travel in the context of modern media and ICT focusing on virtual reality experiences, this research study is one of the few empirical studies that introduces a concise definition for vicarious travel to provide a more comprehensive understanding of the concept which encompass all non-corporeal travel experiences whether technologically or non-technologically driven.

Third, the study proposes a conceptual model of vicarious travel in the context of crises that consists of three dimensions which include travel risk perception, attitudes, and future travel intention.

Lastly, the study results have revealed that, in general, vicarious travel replaces corporeal travel in times of crisis and that consuming vicarious travel experiences raises interest in physically visiting tourist destinations. In this respect, these results may encourage future research to investigate how vicarious travel affects the willingness to physically visit certain destinations and how can tourist destination managers benefit from this to entice future travel visits needed for post-pandemic recovery.

Practical implications

First, travel destinations and tourism businesses should try to understand tourists' preferences and new consumption patterns and adapt accordingly. Second, <u>DMOs should</u> <u>stress safety and health precautions as well as any activities</u> <u>that could make tourists feel safe to travel again and</u> <u>decrease their travel risk perception</u>. Lastly, creative marketing strategies should be developed to effectively market vicarious travel experiences as customized innovative tourism products amid and post-pandemic.

Limitations and future work

This study examined Egyptians' attitudes towards vicarious travel experiences amid the COVID-19 crisis. Data were only obtained from Egyptians therefore findings may need to be compared to the peer studies related to other countries. For this reason, future studies should consider thoroughly discussing vicarious travel in a wider context and apart from the crises' framework. Accordingly, the post-pandemic attitudes of both frequent and non-frequent travelers should be examined. Also, attitudes of seniors (50+) in comparison to those of younger generations (Gen Z, Millennials, and Gen X) should be investigated to get deeper insights into the motives that could entice Egyptians to embrace vicarious travel post-pandemic.

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Table 1. Reference to vicarious travel experiences in prior

 tourism literature

In the context of tourism	In the context of tourism media
experiences	
• Weed (2008) referred to	• Dicks (2004) highlighted the role
sports spectators as vicarious	of the internet as a means of non-
participants in sports	corporeal travel enabling users to
tourism experiences.	experience tourist destinations
• Kim & Richardson (2003)	virtually from the comfort of their
argued that vicarious travel	armchairs.
experiences of destinations	• Novelli (2005) indicated that the
featured in films count as	internet has facilitated virtual
tourism experiences.	reality (VR) journeys as vicarious
	tourism experiences bringing travel
	to one's own home while arguing
	that VR travel is more likely to
	entice actual travel rather than
	adopting vicarious travel.
	• Molz (2006) referred to vicarious
	travel as virtual travel where
	travelers share their travel stories
	on their websites in real-time
	turning the interacting audience

into virtual travelers by giving them the chance to participate vicariously and even influence the travel journey while it is happening by their comments and suggestions.

Marder et al. (2018) referred to 'vicarious travel consumption' (VTC) as 'the indirect experience of travel-related content' (p.1014) while discussing the consumption of vacation posts on Facebook.

Source: Dicks, 2004; Kim & Richardson, 2003; Marder et al., 2018; Molz,2006; Novelli, 2005; Weed,2008.

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 Table 2. Attitudes towards adopting Vicarious Travel amid

Variables		Measurement Scales
Entertainment	•	Vicarious travel experiences help me pass time, overcome boredom, relax
	•	Vicarious travel experiences are entertaining
	•	Vicarious travel lets me imagine myself being at the destination
Escapism	•	Vicarious travel makes me feel as if I am a part of the travel journey
	•	Vicarious travel makes me feel like I am physically present in the destination even though I did not travel in person
	•	Vicarious travel experiences help me escape from reality
	•	Various travel is a safe alternative that protects me from contracting COVID-19
Hazard recognition	•	I think vicarious travel should replace physical travel during times of crises
	•	I will recommend experiencing vicarious travel to my

COVID-19 pandemic.

، مجلة كلية السياحة والفنادق – عدد 12 – ديسمبر 2022م الجزء الثانى =

friends instead of physical travel amid covid-19

Source: Adapted from Cheng et al., 2020; El-Said & Aziz, 2021; Hosany & Witham, 2010; Jung & Seock, 2017; Lee & Ma, 2012; Terpstra & Lindell, 2012.

Table 3. Statistics of the measurement model.

Word of mouth

Construct	Indicator	Standardized loading	Error variance	Item R- square	CR	AVE	α	Noi	rmality
				•				Skew	Kurtosis
Attitude		Entertainme	nt		_				
towards vicarious travel	Vicarious travel experiences help me pass time	0.687	0.528	0.472				0.337	-1.632
	Vicarious travel experiences help me overcome boredom	0.650	0.577	0.423	-			0.348	-1.608
	Vicarious travel experiences are entertaining	0.720	0.482	0.518	0.919	0.533	0.926	0.332	-1.620
	Vicarious travel experiences help me relax	0.826	0.318	0.682	_			0.497	-1.354
		Escapism			-				
	Experiencing vicarious travel lets me imagine myself being at the destination	0.816	0.334	0.666	-			0.412	-1.502
	Experiencing vicarious travel makes me feel as if I am a part of the travel	0.784	0.385	0.615	-			0.585	-1.220

VICARIOUS TRAVEL: THE COVID-19 TOURISM EXPERIENCE PARADIGM (EXAMINING ATTITUDES AND RISK PERCEPTIONS)

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	journey						
-	Experiencing vicarious	0.720	0.482	0.518	-	0.716	-0.942
	travel makes me feel like I						
	am physically						
	present in						
	the						
	destination						
	I did not						
	travel in						
	person						
-	Vicarious	0.693	0.520	0.480	-	0.603	-1.195
	travel						
	experiences						
	help me						
	reality						
-	leanty	Hazard recog	nition		-		
-	Vicarious	0.611	0.627	0.373	-	0.326	-1.662
	travel is a						
	alternative						
	that protects						
	me from						
	contracting						
	COVID-19				_		
	I think	0.605	0.634	0.366		0.567	-1.313
	vicarious						
	replace						
	physical						
	travel during						
	times of						
-	crises				_		
		Word of mo	uth				
-	I will	0.696	0.516	0.484	-	0.527	-1.344
	recommend						
	experiencing						
	vicarious						
	friends						
	instead of						
	physical						
	travel amid						
	COVID-19						
m 1	Nowadays,	0.670	0.551	0.449		0.292	-1.691
Travel risk	traveling is						
perceptions	to COVID-						

	19								
	I am	0.791	0.374	0.626	0.831	0.522	0.814	0.252	-1.747
	worried				0.001	0.022	0.014		
	about								
	contracting								
	COVID-19								
	during								
	traveling								
	I prefer to		(dropped)		-				
	travel only		· · · · · · · · · · · · · · · · · · ·						
	with my								
	family								
	amid								
	COVID-19								
	I will not	0.709	0.497	0.503	-			0.336	-1.708
	travel with								
	groups								
	amid								
	COVID-19								
	I don't feel	0.714	0.490	0.510	-			0.173	-1.874
	safe in								
	crowded								
	tourist								
	attractions								
	I refuse to		(dropped)		-				
	physically		(diopped)						
	visit indoor								
	tourist								
	attractions								
	because of								
	the risk of								
	contracting								
	COVID-19								
	virus								
Future	Safety will	0.687	0.528	0.472				0.178	-
intentions	be the							1	.836
	deciding							_	
	factor when								
	I choose								
	where to								
	travel in the								
	future								
	In the		(dropped)		-				
	future. I		(
	will no								
	longer visit								
	crowded								
	cities/								
	attractions.								
	or attend				0.81	4	0.523		
	crowded					0.807			
	events								

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After it is safe to	0.721	0.480	0.520	0.301 -
travel				1.044
again I will				
take long				
trins				
(increase				
the length				
of my stay)				
After it is		(dropped)		
After it is		(uropped)		
sale to				
agoin I will				
again, 1 win				
uaver				
to malve up				
to make up				
for lost				
time		<u></u>		
After		(dropped)		
COVID-19,				
I prefer to				
stay in				
high-				
quality				
hotels and				
eat food in				
high-				
quality				
restaurants				
In the		(dropped)		
future, I				
will have				
no problem				
using				
airplanes,				
trains, or				
buses as				
they will be				
safe again				
soon				
After	0.754	0.431	0.569	0.290 -
COVID-19,				1.678
I will				
experience				
vicarious				
travel to				
inspire me				
to visit new				
destinations				
After	0.720	0.469	0.531	0.267
COVID 10	0.729	0.407	0.331	0.207 -
L will				1./15
1 WIII				
experience				
vicarious				

help me		
better plan		
my		
vacation		
trips		
After	(dropped)	
COVID-19,		
I will prefer		
vicarious		
travel to		
physical		
travel if		
vicarious		
travel		
experiences		
are offered		
at a lower		
cost than		
equivalent		
traditional		
experiences		
(e.g.,		
museum		
VR tour vs		
real-life		
visit)		

Table 4. Square roots of AVEs and correlations among

constructs.

	Travel risk perception	Attitude towards vicarious travel	Future intentions
Travel risk perception	0.522		
Attitude towards vicarious travel	0.336	0.533	
Future intentions	0.375	0.376	0.511

Variables	Ν	%
Age		
18-25 years	38	13
26-40 years	177	60.6
41-50 years	46	15.8
Above 50 years	31	10.6
Gender		
Female	153	52.4
Male	139	47.6
Marital Status		
Single	96	32.9
Married	186	63.7
Other	10	3.4
Education level		
High school	5	1.7
degree	145	49.7
Bachelors' degree	74	25.3
Master's degree	68	23.3
Ph.D. degree		
Work Status		
Employed full-	175	59.9
time	31	10.6
Self-employed	12	4.1

Table 5. Demographic variables.

Employed part-	25	8.6
time	17	5.8
Homemaker	23	7.9
Students	9	3.1
Retired		
Unemployed		

Table 6. Vicarious travel experiences amid COVID-19.

Are you	Strongly disagree	11.9
willing to	Disagree	14.0
replace	Neutral	24.2
your	Agree	20.5
corporal	Strongly agree	29.4
travels with	Total	100
vicarious travel experiences		
amid COVID-19		
pandenne:		

	Travel vlogs on YouTube, Facebook, or	69
Did you	Instagram	
enjoy any	Travel photography	41
vicarious	Movies that inspire travel	36
travel	360-degree travel videos	35
experiences	Travel T.V. shows	
during		33
COVID-19	3D virtual reality tours	26
quarantine?	Destinations live streaming	14

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Holiday books and travel guides		8
Travel podcasts		6
Other (Google map street view)		0.3
A good alternative for people who cannot		46
physically visit tourist sites (e.g., people		
with disabilities, seniors, or less privileged		
people)		
Affordable travel alternative		34
Bring far destinations closer		
-	29	
Allow tourists to visit inaccessible places		
and sites.	28	
Can recreate destroyed historic attractions		21
and heritage sites		
A more environmentally conscious travel		9
choice		
All the above		33
	Holiday books and travel guidesTravel podcastsOther (Google map street view)A good alternative for people who cannotphysically visit tourist sites (e.g., peoplewith disabilities, seniors, or less privilegedpeople)Affordable travel alternativeBring far destinations closerAllow tourists to visit inaccessible placesand sites.Can recreate destroyed historic attractionsand heritage sitesA more environmentally conscious travelchoiceAll the above	Holiday books and travel guidesTravel podcastsOther (Google map street view)A good alternative for people who cannotphysically visit tourist sites (e.g., peoplewith disabilities, seniors, or less privilegedpeople)Affordable travel alternativeBring far destinations closer29Allow tourists to visit inaccessible placesand sites.28Can recreate destroyed historic attractionsand heritage sitesA more environmentally conscious travelchoiceAll the above

-

Which of	Virtual reality sightseeing tours	21
following	Virtual reality museum tours	17
vicarious	Virtual resort experiences (live online	15
travel	cooking, yoga, surfing, music, or wellness	
experiences	classes)	
are you	Virtual reality scuba diving tours	11
willing to nav for?	Subscribe to cable travel channels	10
(Check all	Virtual reality national parks tours	6
that apply)	Buy holiday books and travel guides	5
	None of the above	16

Why do think vicarious	I would miss the sensual aspects of traveling (feeling air/sun on my skin, touching the water, walking barefoot on grass/ sand, etc.).	45	
travel	I would miss walking and exploring places	35	
experiences cannot	I would miss visiting local markets and buying souvenirs	29	
replace real-	I would miss local food and drinks	29	
experiences?	I would miss getting in touch with the local host communities	25	
	I would miss swimming, diving, hiking, and nature/wildlife	24	
	All the above	63	

Table 7. Travel purposes amid COVID-19.

		%
	Business/work	43
	Relaxation/leisure	43
Why are you	Visiting family and friends	36
willing to	Studying	30
Covid 102	Health purposes	23
(Check all	Religious purposes	13
(Check an that annly)	Adventure/Exploration	10
that apply (Honeymooning	4
	I am not planning to travel amid Covid-	12
	19	

 Table 8. Safety precautions amid COVID-19.

	%
Wear a face mask	68
Practice social distancing	64
Use hand sanitizers regularly	61
Avoid crowded places	60
Wash hands regularly	55
Use disposable plastic cutlery	45
Contactless payment (using smartphones or	34
	Wear a face maskPractice social distancingUse hand sanitizers regularlyAvoid crowded placesWash hands regularlyUse disposable plastic cutleryContactless payment (using smartphones or

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precautions	debit/credit cards)	
are you	Participate in outdoor activities only	27
going to	Choose isolated accommodation	24
follow?	(apartments, chalets, villas)	
(Check all	Contactless check-in/out	23
that apply)	Virtual room keys	18
	All the above	39
	None of the above	1
T 11 0 4		

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Table 9. Attitudes toward vicarious travel.

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		SD	D	Ν	Α	SA
	Vicarious travel experiences help me pass time	3.8	9.6	19.8	35.8	31.1
Attitudes toward	Vicarious travel experiences help me overcome boredom	4.8	6.8	25.6	33.1	29.7
vicarious travel in	Vicarious travel experiences are entertaining	3.1	8.9	23.9	35.2	29.0
case of enjoying	Vicarious travel experiences help me relax	6.8	17.4	28.3	27.0	20.5
any vicarious	Experiencing vicarious travel lets me imagine myself being at the destination	6.1	11.9	27.3	35.8	18.8
travel experiences during the COVID-19 quarantine	Experiencing vicarious travel makes me feel as if I am a part of the travel journey	12.3	17.7	27.3	27.3	15.4
	Experiencing vicarious travel makes me feel like I am physically present in the destination even though I did not travel in person	16.0	22.9	25.9	20.8	14.3
	Vicarious travel experiences help me escape from reality	13.7	18.1	26.3	28.3	13.7
	Vicarious travel is a safe alternative that protects me from contracting COVID-19	4.8	7.5	18.1	36.2	33.4
	I think vicarious travel should replace physical travel during the times of crises	11.9	14.0	24.2	20.5	29.4
	I will recommend experiencing	10.6	13.3	27.3	26.6	22.2

vicarious travel to my friends instead of physical travel amid covid-19

Table 10. Travel risk perception amid COVID-19.

		SD	D	Ν	А	SA
Travel risk perception amid COVID- 19 pandemic	Nowadays, traveling is unsafe due to COVID-19	2.7	6.1	21.2	29.7	40.3
	I am worried about contracting COVID-19 during traveling	2.4	4.4	18.1	29.7	45.4
	I will not travel with groups amid COVID-19	5.5	8.5	15.4	13.7	57.0
•	I don't feel safe in crowded tourist attractions	3.1	2.7	6.8	21.2	66.2

Table 11. Future travel intention.

		SD	D	Ν	Α	SA
Future travel intention	Safety will be the deciding factor when I choose where to travel in the future	1.4	2.7	11.6	28.7	55.6
	After it is safe to travel again, I will take long trips (increase the length of my stay)	1.0	6.5	29.0	26.3	37.2
	After Covid-19, I will experience vicarious travel to inspire me to visit new destinations	3.1	4.8	23.9	34.8	33.4
	After Covid-19, I will experience vicarious travel to help me better plan my vacation trips	2.7	4.1	21.2	34.1	37.9

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Figure 1. The conceptual model of the study.



Figure 2. Observed variables (indicators) specified to latent variables.

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Figure 3. The structured model of travel risk perception, attitude, and future travel intentions.