Digital marketing of online food delivery services in a social media platform before and during COVID-19 pandemic in Brazil

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Abstract

Objective: To describe the promotion of food and beverage and marketing strategies used by online food delivery services (OFDS) in a social media platform before and during the pandemic in Brazil.

Design: Publicly available data were extracted from OFDS Instagram accounts. Posts published 6 months immediately before and after the first case of COVID-19 in Brazil were randomly sampled. Two independent authors coded the posts’ content. Food and beverage items featured in posts were classified according to the NOVA food system classification. Marketing strategies were coded according to protocols from previous studies.

Setting: Top three OFDS Instagram accounts in Brazil.

Participants: Posts published in the period studied (n 304).

Results: During the pandemic, the proportion of posts featuring at least one food item decreased from 71·6 % to 40·2 %, and the proportion of ultra-processed foods decreased from 57·6 % to 27·9 %. Before the pandemic, the most widely used marketing strategies were branding elements (80·7 %), product imagery (unbranded) (48·9 %) and partnerships/sponsorship (35·2 %). While during the pandemic, branding elements (62·2 %) continued to be the most applied, but were followed by the use of videos/graphics interchange format/boomerangs (34·1 %) and corporate social responsibility (31·7 %). The most frequent COVID-19 marketing strategies were ‘social responsibility in the pandemic’ (30·5 %), ‘combatting the pandemic’ (28·0 %) and ‘accelerating digitalisation’ (20·7 %).

Conclusions: OFDS advertisements on a social media platform placed less emphasis on food items, but improved the nutritional quality of foods and beverages featured in posts. A COVID-washing approach was highlighted, especially through the use of social responsibility marketing during the pandemic.

Keywords

Digital food environment
Online food delivery platforms
Digital marketing
Food promotion
Ultra-processed food
Social media
COVID-19

COVID-19, the infectious disease caused by SARS-COV-2, emerged in December 2019 in Wuhan, China, and quickly reached pandemic status(1). The Brazilian Health Ministry confirmed the country’s first case on 26 February 2020(2) and had recorded 5 million cases and 150 thousand deaths by August that year. The first wave of the disease in the country lasted from March to November 2020(3) and reached its peak in August 2020(2).

In order to contain the spread of the virus, Brazilian states and municipalities implemented several plans such as closing schools and public recreational areas, adopting remote work in several sectors and establishing specific rules to keep essential services functioning while interrupting non-essential ones(4,5). Individual behaviours have also changed. About 70 % of adolescents and adults were practicing physical distancing between April and May

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2020(6), and 8.4 million Brazilians were working in home office mode in August 2020(7). With part of the population spending more time at home, there was an increase in time spent using electronic devices such as computers, tablets and TVs(8).

The digital food environment encompasses three factors that could influence diet-related outcomes: digital actors, digital settings where such actors operate and digital activities performed by such actors(9). According to this framework, the food industry is a digital actor that performs activities such as digital marketing in digital arenas (e.g., social media). We considered digital marketing as any promotional activities undertaken through websites, social media platforms, e-mails, mobile phone texts, apps and online games targeted to individuals, groups and/or populations(10).

The main digital and media marketing features used to target young people are immersive environments, active engagement, user-generated content, personalisation through ‘big data’, ubiquitous connectivity and the social graph – the complex web of relations that enables marketers to access and influence interconnected individuals(11,12). In particular, social media, which consists of apps that enable content creation and sharing(13), are among the most widely accessed digital marketing arenas. As the popularity of this type of platform has been growing, companies have been developing a variety of strategies to reach new audiences there, including those from the food and beverage industry(12).

Previous studies have shown that digital marketing on social media is centred on ultra-processed food and contributes to the consumption of unhealthy items, as it influences product recognition, consumer beliefs and preferences, purchase intention, food choices and eating behaviours(11,14). Considering the increase in the use of digital devices during physical distancing, it is plausible that the use of social media has also increased along with rising exposure to digital food marketing(15,16).

The pandemic’s context has also motivated the use of online food delivery services (OFDS), explained by the shift of establishments that sell food prepared away from home to the digital environment, the use of digital technology in daily activities and the promotion of this type of service in the digital environment(17). According to data collected from July to September 2020(18), the percentage of internet users who purchased food or food products online in Brazil increased, especially among consumers who ordered snacks and meals on OFDS (from 15% in 2018 to 44% during the pandemic). During the first wave of COVID-19 in Brazil, food advertising also started to stimulate food delivery and convey messages related to physical distancing, reinforcing the idea of staying home with the family and encouraging personal interaction through digital technologies(19).

Consumption of ultra-processed foods is associated with obesity and non-communicable diseases(20). One study conducted in Brazil showed that the digital food environment of OFDS has prioritised ultra-processed food during the pandemic, as free delivery ads, promotional combos and discount messages in the apps were mainly targeted towards ultra-processed foods(21). However, there are only a few studies(22,23) on digital marketing by OFDS in other digital environments such as video-sharing websites and social media platforms, and they were conducted in high-income countries.

Considering the potential of digital food marketing to influence food and beverage consumption and the growth of OFDS use during the pandemic, it is important to understand how these companies advertise their services on a popular social media platform. This study, therefore, aims to analyse the content of marketing strategies and the promotion of food and beverages in the top three OFDS Instagram accounts in Brazil, comparing their behaviour before and during the first wave of the COVID-19 pandemic in the country.

Methods

Sampling and data extraction

We selected verified publicly available Instagram accounts from the top three OFDS operating in Brazil: iFood®, UberEats® and Rappi®. They were chosen because they were the food delivery market leaders in the country(24). Instagram was chosen due to its widespread use among young Brazilian adults(25), who also are the main population segment among OFDS users(26).

We used the free version of a cloud-based data extraction software to automatically scrape data from posts published in the period between 26 August 2019 and 26 August 2020 – 6 months before and after the first case of COVID-19 was recorded in the country, respectively. Therefore, it included the first wave of the pandemic in Brazil(2). The information extracted from Instagram accounts were the current number of followers, number of posts during the period studied, number of posts since the account’s creation, date of each post, link to access the posts, post type (photo or video), number of likes and comments and number of views (exclusive for video posts).

Content coding protocol

Two independent authors performed a three-phase content coding protocol adapted from previous work by Jia et al.(22). Discrepancies were discussed and solved by a third encoder.

In Phase 1, we coded the nutritional quality of foods or beverages for the posts in which these elements were present. The classification was made according to the Dietary Guidelines for the Brazilian Population(27). It is based on the NOVA classification, a food categorisation
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system based on the extent and purpose of the foods’ industrial processing\(^{28}\).

We used NOVA to classify dishes and culinary preparations based on a decision tree\(^{29}\) that categorises food, preparations and beverages into three groups: (1) unprocessed or minimally processed foods or hand-prepared dishes based on these foods; (2) processed foods or (3) ultra-processed foods (online Supplementary Table S1). We examined the number of foods or beverages presented in the post and the number of items in each group. The authors who coded the nutritional quality are nutritionists.

In Phase 2, we coded marketing strategies used by OFDS on Instagram posts, considering coding frameworks developed in a former study on social media junk food promotion\(^{30}\). We also assessed whether each post had informative content, original content and/or health claims (online Supplementary Table S1).

In Phase 3, we coded posts published during the first wave of the pandemic in Brazil in four thematic categories as proposed by Jia et al.\(^{22}\): (i) appropriating frontline workers; (ii) combating the pandemic via promotions; (iii) selling social distancing and (iv) accelerating digitalisation (online Supplementary Table S1).

In Phases 2 and 3, posts could be coded into multiple categories if more than one marketing strategy was present. The classification was performed by viewing the posts and reading their captions. If a strategy could not be clearly coded in one of the pre-established categories, each encoder described the strategy to discuss with the third encoder whether it was necessary to build a new category. Thus, in Phase 2, a new category emerged and was called ‘meme’, referring to the use of any type of content that can viralise on the internet and that is modifiable during peer-to-peer transmission. In Phase 3, we added the categories ‘Support to delivery drivers’, ‘Support to restaurants’ and ‘Social responsibility during the pandemic’ – divided into ‘Corporate social responsibility’ and ‘Individual social responsibility’ (online Supplementary Table S1).

In order to better understand the marketing messages related to COVID-19 in the specific Brazilian context, we conducted case studies illustrating each Phase 3 category.

**Statistical analysis**

The total number of posts in the period studied (\(n = 304\)) was considered to describe the accounts’ characteristics. For the three-phase content coding, we took a simple random sample of the posts, considering a 95% level of significance, a 5% margin of error and a 50% heterogeneity (\(n = 170\)).

We performed a descriptive analysis of the posts published before and during the COVID-19 pandemic. We calculated some interaction proxies: the average number (minimum – maximum) of likes and comments per post and of views per video post and the relationship between the number of likes/comments/views and the number of followers. We also calculated absolute and relative frequencies of each NOVA food group, general marketing strategy and COVID-19 marketing strategy.

**Results**

**Online food delivery services Instagram accounts characteristics**

By the time of the present study’s data scrapping (June 2021), the three Brazilian Instagram accounts together had 1.84 million followers and a total of 1468 publications since their inception. The iFood\(^{®}\) account had more followers (1.1 million, 59.78%) and posts (852, 58.44%), followed by Rappi\(^{®}\) (460 thousand followers, 25.00%; 523 posts, 35.87%) and UberEats\(^{®}\) (280 thousand followers, 15.22%; 93 posts, 6.38%). iFood’s first post was published in 2015/01, UberEats’ in 2019/11 and Rappi’s in 2017/07.

In the 6 months before the pandemic (26 August 2019 to 25 February 2020), 11.10% (163/1468) of all publications were posted. During the pandemic, that is, in the first 6 months of the first wave in Brazil (February 26, 2020 to August 26, 2020), this percentage was lower and equal to 9.60% (141/1468). Specifically regarding videos, the number of posts with this type of media before the pandemic was lower than during it (42 v. 51). Average likes (1113 v. 1412), comments (306 v. 617) and video views increased (13 045 v. 98 511) during the pandemic, but active interaction (likes and comments) was low (<1%) relative to the number of total account followers. Passive interaction (video viewing), in turn, reached a higher percentage of followers, especially during the pandemic (1.70% v. 10.00%) and in the iFood\(^{®}\) account (1.30% v. 15.60%) – even though this company had posted the same number of videos (\(n = 27\)) in both periods (Table 1).

**Nutritional quality of featured foods**

Among publications posted before the pandemic, 71.59% (63/88) included images of at least one food or beverage. Overall, 139 food items were identified and fifty-three (38.13%) were unprocessed or minimally processed foods or hand-prepared dishes based on these foods, six of which (4.52%) were processed foods, and eighty of which (57.55%) were ultra-processed foods. Furthermore, ultra-processed foods were predominant in 58.70% (37/63) of the posts featuring food items. Most of the foods and beverages identified appeared in the iFood\(^{®}\) account (96/139), and the posts from this company also showed a higher percentage of ultra-processed foods (63/96, 65.62%) compared with UberEats\(^{®}\) (9/21, 42.86%) and Rappi\(^{®}\) (8/22, 36.36%).

During the pandemic, posts featuring foods or beverages decreased to 33 (40.24%), and the number of food
Table 1 Account characteristics on a social media platform of online food delivery services before and during COVID-19 pandemic, Brazil

<table>
<thead>
<tr>
<th>Online food delivery services’ Instagram account characteristics</th>
<th>Total (n 304)</th>
<th>Before the pandemic (n 163)</th>
<th>During the pandemic (n 141)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Overall</td>
<td>iFood®</td>
<td>UberEats®</td>
</tr>
<tr>
<td>Total posts during study period, n</td>
<td>304</td>
<td>191</td>
<td>55</td>
</tr>
<tr>
<td>Average likes per post</td>
<td>1252</td>
<td>1564</td>
<td>523</td>
</tr>
<tr>
<td>Ratio between likes/number of followers, %</td>
<td>0·16</td>
<td>0·14</td>
<td>0·19</td>
</tr>
<tr>
<td>Average comments per post</td>
<td>451</td>
<td>325</td>
<td>282</td>
</tr>
<tr>
<td>Ratio between comments/number of followers, %</td>
<td>0·8</td>
<td>0·03</td>
<td>0·10</td>
</tr>
<tr>
<td>Total videos during study period, n</td>
<td>93</td>
<td>54</td>
<td>8</td>
</tr>
<tr>
<td>Average views per video</td>
<td>59 914</td>
<td>93 093</td>
<td>5681</td>
</tr>
<tr>
<td>Ratio between views/number of followers, %</td>
<td>6·30</td>
<td>8·50</td>
<td>2·00</td>
</tr>
</tbody>
</table>
items shown in the posts decreased to 86. This was also seen individually in the iFood and Rappi accounts. Regarding UberEats®, although the number of posts featuring food items had increased, there was a proportional reduction in the number of foods and beverages shown. In the iFood® account, posts showing food items decreased by about 3·5 times, and the number of items decreased approximately threefold. The percentage of unprocessed or minimally processed foods or hand-prepared dishes based on these foods increased to 69·76 % (60/86) and ultra-processed foods decreased to 27·91 % (24/86). Therefore, posts in which ultra-processed foods or beverages were predominant also decreased to only 11 (33·30 %). This trend was observed in the accounts of all companies individually (Table 2).

**Marketing strategies**

Before the pandemic, fourteen out of the fifteen marketing strategies assessed were used by the OFDS, ranging from seven to thirteen strategies applied by each company. The most frequently used were branding elements (80-70 %), product imagery (unbranded) (48-90 %) sponsorships/partnerships (35-20 %), use of videos/graphics interchange format/boomerangs (28-40 %) and links (to additional content, external pages from partner restaurants or from the platforms themselves) (31-80 %). Only one post on corporate social responsibility was published before the pandemic. The new category ‘meme’ was applied in 23·90 % of the posts published before the pandemic (Table 3).

During the pandemic, ten different strategies were applied, and we observed a reduction in the use of branding elements (62-20 %), product imagery (unbranded) (28-00 %) and links (26-80 %), but these remained among the most widely used strategies along with the use of videos/graphics interchange format/boomerangs (34-10 %) and corporate social responsibility (31-70 %) (Table 3).

Only Uber Eats® adopted the practice of ‘regramming’ customers’ content, before or during the pandemic. The entire content produced by the other two brands was original in both time periods (see definitions in online Supplementary Table S1). We observed health claims in only one post before the pandemic and in two posts during the pandemic. The prevalence of informative posts did not differ before and during the pandemic (31·80 % v. 28·00 %) (Table 3). However, before the pandemic, informative content was primarily about the physical location of the partner restaurants’ food outlets, while during the pandemic it mainly included new features added to the apps due to the pandemic.

**Marketing strategies related to COVID-19**

Among publications posted during the first wave of COVID-19, 53·66 % referred directly or indirectly to the context of the pandemic. The iFood® account was the most...
### Table 3: Marketing strategies used in online food delivery services’ posts on a social media platform before and during COVID-19 pandemic, Brazil

<table>
<thead>
<tr>
<th>Marketing strategies used in Online Food Delivery Services Instagram posts</th>
<th>Overall (n 170)</th>
<th>iFood® (n 101)</th>
<th>UberEats® (n 36)</th>
<th>Rappi® (n 33)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before</td>
<td>During</td>
<td>Before</td>
<td>During</td>
</tr>
<tr>
<td>Total posts during study period, n</td>
<td>88</td>
<td>82</td>
<td>56</td>
<td>45</td>
</tr>
<tr>
<td>Informational posts</td>
<td>28</td>
<td>31·80</td>
<td>23</td>
<td>28·00</td>
</tr>
<tr>
<td>Original posts</td>
<td>85</td>
<td>96·60</td>
<td>80</td>
<td>97·60</td>
</tr>
<tr>
<td>Health claims</td>
<td>1</td>
<td>1·10</td>
<td>1</td>
<td>1·80</td>
</tr>
<tr>
<td>Marketing strategies used (n 15)</td>
<td>14</td>
<td>1·10</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Corporate social responsibility</td>
<td>1</td>
<td>1·10</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Celebrities</td>
<td>16</td>
<td>18·18</td>
<td>9</td>
<td>10·97</td>
</tr>
<tr>
<td>Sportspeople</td>
<td>1</td>
<td>1·10</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Children’s characters</td>
<td>1</td>
<td>1·10</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Branded characters</td>
<td>1</td>
<td>1·10</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Special price promotions</td>
<td>16</td>
<td>18·20</td>
<td>11</td>
<td>13·40</td>
</tr>
<tr>
<td>Vouchers</td>
<td>6</td>
<td>6·80</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Competitions</td>
<td>0</td>
<td>0·00</td>
<td>0</td>
<td>0·00</td>
</tr>
<tr>
<td>Engagement</td>
<td>9</td>
<td>10·20</td>
<td>14</td>
<td>17·10</td>
</tr>
<tr>
<td>Memes</td>
<td>21</td>
<td>23·90</td>
<td>2</td>
<td>2·40</td>
</tr>
<tr>
<td>Sponsorships/partnerships</td>
<td>31</td>
<td>35·20</td>
<td>8</td>
<td>9·80</td>
</tr>
<tr>
<td>Videos/GIF/boomerangs</td>
<td>25</td>
<td>28·40</td>
<td>28</td>
<td>34·10</td>
</tr>
<tr>
<td>Links</td>
<td>28</td>
<td>31·80</td>
<td>22</td>
<td>26·80</td>
</tr>
<tr>
<td>Branding elements</td>
<td>71</td>
<td>80·70</td>
<td>51</td>
<td>62·20</td>
</tr>
<tr>
<td>Product imagery (unbranded)</td>
<td>43</td>
<td>48·90</td>
<td>23</td>
<td>28·00</td>
</tr>
</tbody>
</table>

GIF, graphics interchange format.
active during the period, publishing forty-five posts, 46.67% of which mentioned the pandemic. Overall, UberEats® published fewer posts. However, this brand made proportionally more references to the pandemic. Meanwhile, only three posts in the Rappi® account mentioned the pandemic (Table 4).

Our analysis of marketing strategies related to COVID-19 showed that the predefined analytical categories ‘appropriating frontline workers’ and ‘selling social distancing’ were not used in any post. However, we defined three important non-mutually exclusive categories: ‘social responsibility in the pandemic’ (30.50%), the most frequently used, ‘support for delivery drivers’ (14.60%) and ‘support for restaurants’ (14.60%). ‘Social responsibility in the pandemic’ had two sub-analytical categories: ‘corporate social responsibility’ (76.00%) and ‘individual social responsibility’ (40.00%). ‘Combating the pandemic via promotions’ (28.00%) and ‘accelerating digitalisation’ (20.70%) were the second and third most widely used strategies (Table 4).

Case studies - COVID-19 marketing strategies

We present some case studies below illustrating each strategy related to the COVID-19 context (see posts used as examples in the Figures in Supplemental Table S2).

Social responsibility in the pandemic

Before the pandemic, ‘corporate social responsibility’ was an uncommon practice by OFDS. However, such actions became frequent during the first wave in Brazil. We also identified the emerging practice of marketing ‘individual social responsibility’. Together, the two categories were generically called ‘social responsibility during the pandemic’ and were the most frequently applied during this period.

- Corporate social responsibility: OFDS targeted social responsibility actions to the various parties affected by the pandemic. Online Supplementary Figure 1 shows an example in which iFood® announces the creation of a protective fund for delivery drivers as well as actions to prevent coronavirus infection among them. Online Supplementary Figure 2 shows Uber Eats® calling its customers to donate food and hygiene items to a Brazilian non-governmental organisation and encouraging on-going donations via its own mobile app.

  - Individual social responsibility: Customers were also encouraged to act on behalf of the various entities affected by the pandemic. UberEats® encouraged its customers to tip delivery drivers (online Supplementary Fig. 3) and announced a new app feature that allowed customers to donate to establishments to help its professionals (online Supplementary Fig. 4). Also, concerning community support, iFood® encouraged platform users to donate money to be converted into food baskets delivered by a non-governmental organisation to families throughout Brazil (online Supplementary Fig. 5).

Combating the pandemic via promotions

Online Supplementary Figure 3 illustrates how OFDS linked the use of their services to health recommendations during the pandemic: UberEats® underscored its commitment to supporting the community and helping to keep the cities where it operated safe by granting a free delivery fee. The company also highlighted the possibility of contactless delivery. iFood® also encouraged the option of contactless delivery (online Supplementary Fig. 6).

Accelerating digitalisation

Online contact became the safest possible means of interaction between people during the pandemic, affecting relationships with family and friends. OFDS grasped the context of accelerating digitalisation with increased virtual interaction to encourage consumers to use the platform. Rappi®, for example, encouraged customers to protect their grandparents by buying groceries to be delivered to their homes via the app (online Supplementary Fig. 7). Uber Eats® claimed that its customers were not alone because they were all united by food (online Supplementary Fig. 8). iFood® encouraged users to buy a meal for their mothers in celebration of Mother’s Day.
found a modest increase in the frequency of consumption of healthy eating markers (vegetables, fruits and beans) and stability in the consumption of ultra-processed foods during the first months of the pandemic. This cohort consisted mostly of highly educated people living in the most economically favoured regions of Brazil. Food delivery app users in Brazil also belong to these socio-economic strata and regions(26). Furthermore, during the pandemic, social discourses began to reinforce the importance of maintaining healthy lifestyles(32). Thus, OFDS may have emphasised the image that the delivery service could be used to purchase healthy food because its main target audience was more concerned about improving nutrition to increase immune defenses against COVID-19(33).

Although ultra-processed food promotion has been reduced on Instagram during the pandemic, evidence shows that availability and food advertising of unhealthy foods exceed that of healthy foods in the digital environment of the OFDS platforms(21,34,35), including in Brazil(22). Additionally, iFood reported that sfihas, hamburgers (hand-prepared or fast-food type), pizzas, sodas, sandwiches and wraps were among the most frequently ordered items during the pandemic(50). Also, a web survey conducted with highly educated adults in Greater Metropolitan Rio de Janeiro, Brazil, found that fast food, homemade hamburgers and pizzas, sodas, oriental food and Brazilian meals remained among the top five ordered food items by OFDS users, although the proportion of fast foods and sodas orders decreased during the pandemic(37). This set of information demonstrates inconsistency between OFDS Instagram advertising and the impact of delivery on food consumption during the pandemic.

Regarding the presence of marketing strategies in the posts, the three OFDS mainly used branding elements and product imagery (unbranded) strategies in both periods. During the pandemic, the use of these approaches decreased compared with the previous period because considerable space was shifted to social responsibility messages. As happened in Australia, UK and USA(22), OFDS could have taken advantage of their growing popularity and use during the health crisis in Brazil(50) to employ branding elements such as colours, logos and symbols to consolidate identity by improving recognition and recall, which has a positive impact on purchase intention(14). Contrarily, the number of posts decreased (except specifically from UberEats®), and companies focused on showing awareness and engagement in facing the consequences of the pandemic to improve their corporate image.

The tendency to encompass issues related to the pandemic was also observed in other aspects analysed. For instance, during the pandemic, links to extra content consisted mostly of preventive measures and actions taken by OFDS towards the coronavirus and informational posts focused on new possibilities for buying groceries, requesting contactless delivery and making donations through the app.
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Also, before the pandemic, more than 20% of posts used memes to generate engagement through relaxed and familiar language to social media users. However, the tone of marketing messages has changed, and only two posts used this strategy during the health crisis in Brazil.

With respect to pandemic-related marketing strategies, the most commonly used in high-income countries was ‘combatting the pandemic via promotions’\(^{(22)}\). While in Brazil, this was the second most widely used, following ‘social responsibility during the pandemic’. It is worrisome because although young adults realise that corporate social responsibility digital marketing is designed to promote a product, their interest in it is highly affected by these actions\(^{(38)}\). Further investigation showed that these responsibility messages during the pandemic in Brazil referred not only to ‘corporate social responsibility’ but also to ‘individual social responsibility’, encompassing a prominent discourse evoking individual actions of social responsibility by customers. According to Abid, Abid-Dupont & Moulin\(^{(39)}\), ‘brands can encourage consumer commitment through their environmental and philanthropic engagements by conveying values with which consumers can identify to foster brand identification’. The frequent use of social responsibility discourses was probably motivated by the underlying economic and social crisis, which resulted in increased unemployment and food insecurity rates and became an agenda for marketing in different areas\(^{(40)}\).

This type of pro-cause marketing was extensively practiced by the food industries during the pandemic\(^{(40-42)}\). It is called COVID-washing\(^{(41,42)}\) and can be defined as the appropriation of the adverse context of the pandemic by companies to show themselves empathetic and proactive in relation to the health crisis, aiming to improve their image and create positive associations with their brands\(^{(40-42)}\). COVID-washing has the potential to blur the perception of the negative impact of harmful products on public health and increase consumers’ trust, perception of quality and brand loyalty\(^{(39,41)}\). Thus, the highlight of healthy foods and beverages on OFDS Instagram accounts during the pandemic in Brazil can be considered part of this marketing strategy to reshape brand image since it is inconsistent with the greater availability of ultra-processed foods in their applications.

Additionally, OFDS used discourses about supporting delivery drivers and restaurants during the pandemic. Such findings corroborate those by Jia et al.\(^{(22)}\), who commented that OFDS served messages and hashtags to make users feel they could support local restaurants and delivery drivers. However, these messages appear to have been more widely used in the Brazilian context, probably to appease the social mobilisation generated by a strike by delivery drivers demanding better working conditions and the end of restrictions and punishments by the authorities\(^{(43)}\). Brazilian society engaged with this cause because, during the pandemic, the population recognised that this class of workers provided essential services and was indispensable for food outlets to continue functioning. Despite this, OFDS drivers are not employees of the companies, as they are subject to a new kind of relationship called a ‘partnership’ by the companies. Therefore, they assume the work’s risks and costs, while the OFDS only provides the infrastructure for their ‘partners’ to conduct the activities\(^{(44)}\). At the same time, small restaurant owners’ complaints about OFDS charging abusive fees and lowering the visibility of their business on the platform resonated during the COVID-19 crisis due to the economic vulnerability of small and medium-sized businesses\(^{(45)}\).

These findings highlight the relevance of empirical research investigating how digital marketing techniques can affect consumers’ purchase intention. It is important to continually monitor the food delivery industry’s advertising on social media to identify how they adapt their messages to transformations in the social context to better persuade the public, as we observed about COVID-washing. Future research should also focus on investigating whether OFDS’ food promotion and marketing strategies have undergone any lasting post-pandemic changes and elucidate how exposure to persuasive content on the digital landscape can impact individual eating practices. Currently, marketing legislation is not fully adapted and extended to the digital food environment of social media\(^{(46)}\), so this set of evidence could support public policies to regulate industry’s acting in the digital environment and to promote both overall digital literacy and health and nutrition literacy.

Policymakers should include brand marketing in social media within the scope of advertising regulations to prevent companies from promoting unhealthy foods using their branding elements and generating loyalty\(^{(40,41)}\) as well as protect society against social responsibility actions. Although such actions may seem harmless, they contribute to maintaining the status quo. For example, OFDS demonstrated concern about the consequences of the pandemic and announced actions to support delivery drivers and small restaurants, but their complaints were not addressed, neither was there any substantial change in the asymmetric relationships between the parties involved in this business model. Furthermore, the highlight of healthy foods and beverages on Instagram during the pandemic can also be considered merely part of the marketing strategy to reshape brands’ image since it is known that most of the food available and sold on their platforms is associated with weight gain and chronic diseases\(^{(20)}\).

**Strengths and limitations**

The present research adds to the literature on the digital food environment, as it replicated a social media monitoring methodology previously applied in three high-income countries\(^{(22)}\) to assess the promotion of unhealthy foods and the marketing strategies employed by OFDS on an important social media platform in a middle-income...
context, and especially by considering the advent of the COVID-19 pandemic.

A methodological strength of this study concerns the comparison between a pre-pandemic moment and the first wave of COVID-19, the period in which there was greater adherence to physical distancing by the Brazilian population. It allowed mapping strategic changes motivated by the pandemic context. Furthermore, we analysed a continuous period to guarantee that observed differences between the periods would truly have been caused by the emergence of COVID-19. Additionally, we assessed foods and beverages based on the NOVA classification, a system that considers the extent and purpose of food processing and that guides public policies on food and nutrition in the country.

Our main limitation is the analysis restricted to the feed from only one social media platform. It is possible that the OFDS adopt different strategies in different social media platforms, and that there are differences in paid advertising. However, Instagram is a relevant platform for this research because its audience consists predominantly of people from the same prevailing age group as among food delivery users in Brazil. Moreover, the results obtained refer to the first 6 months of the pandemic in the country and may not represent later moments in which commercial establishments were gradually reopening. Lastly, it was not possible to recover the number of followers of the accounts in the period whose posts were evaluated.

Conclusions

In Brazil, OFDS intensely practiced COVID-washing on a popular social media platform during the first wave of the pandemic by featuring mostly healthy foods and showing concern and commitment during the health, social, and economic crisis.

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Supplementary material

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