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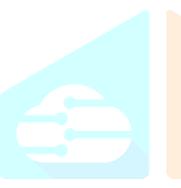
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THE E-COMMERCE EVOLUTION: ANALYSING CONSUMER ATTITUDES TOWARDS ONLINE SHOPPING DURING THE COVID-19 PANDEMIC



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ABSTRACT

The COVID-19 pandemic has significantly impacted consumer behaviour and the e-commerce landscape. This study aims to analyse consumer attitudes towards online shopping during the pandemic and examine the impact of COVID-19 on the sales of selected FMCG companies. The research objectives were to assess consumer perceptions of online buying during the COVID-19 pandemic and analyse the effects of COVID-19 on the sales of two FMCG companies. A random sampling method was employed to select 100 consumers based in Ahmedabad, Gujarat. The study focused on understanding consumer attitudes towards online shopping and their perception of this mode of buying during the pandemic. Additionally, the financial statements of the selected FMCG companies for the fiscal years 2019-20 to 2020-21 were analysed to determine the impact of COVID-19 on their sales performance. The data analysis utilized two statistical techniques: a two-tailed t-test and chi-square testing. The two-tailed t-test was used to examine whether there was a significant difference in consumer attitudes towards online shopping before and during the pandemic. Chi-square testing was employed to explore the relationship between COVID-19 and the sales performance of the selected FMCG companies.

KEYWORDS : Covid-19, Sales, Consumers, Online Shopping

1. INTRODUCTION

1.1 E-COMMERCE EVOLUTION IN INDIA

The evolution of e-commerce in India has been remarkable over the past decade. The rapid growth of internet penetration, increased smartphone adoption, and digital payment systems have played crucial roles in transforming the Indian e-commerce landscape. Here are some key aspects of e-commerce evolution in India:

- Early days: The e-commerce industry in India started taking shape around the late 1990s and early 2000s, with the emergence of online travel portals like MakeMyTrip and IRCTC. These platforms primarily focused on travel bookings and ticketing services.
- 2. Rise of marketplaces: In the mid-2000s, online marketplaces like Flipkart and Snapdeal entered the scene. These platforms offered a wide range of products across various categories, including electronics, fashion, and home goods. They played a crucial role in introducing e-commerce to Indian consumers and building trust in online shopping.
- 3. Mobile revolution: The introduction of affordable smartphones and cheap mobile data plans in India brought a significant shift in consumer behaviour. Mobile commerce (m-commerce) gained momentum as people increasingly started accessing the internet and making purchases through their smartphones. Companies like Flipkart, Amazon, and Paytm Mall focused on optimizing their platforms for mobile devices and offering user-friendly mobile apps.
- 4. Digital payments: The demonetization drive in 2016 acted as a catalyst for the adoption of digital payment systems in India. The government's push towards a cashless economy led to the rapid growth of mobile wallets like Paytm, PhonePe, and Google Pay. These digital payment platforms facilitated seamless transactions and enhanced the convenience of online shopping.
- 5. Expansion of international players: Global e-commerce giants like Amazon and Alibaba recognized the potential of the Indian market and made significant investments to establish their presence. Amazon launched its Indian marketplace in 2013 and has since become one of the leading e-commerce players in the country. Alibaba-backed Paytm Mall also made a substantial impact with its presence in the Indian market.
- 6. Diversification and vertical-specific platforms: Over time, e-commerce in India diversified beyond the traditional marketplace model. Niche platforms catering to specific verticals, such as fashion (Myntra, Jabong), furniture (Pepperfry, Urban Ladder), and groceries (BigBasket, Grofers), gained popularity. These platforms offered specialized products and services to cater to specific customer needs.
- 7. Hyperlocal and on-demand services: The emergence of hyperlocal delivery platforms like Swiggy and Zomato revolutionized the food delivery industry. These platforms enabled users to order food from local restaurants and get it delivered to their doorstep. On-demand services for cab booking (Ola, Uber) and home services (UrbanClap, Housejoy) also gained prominence.

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- 8. Rural e-commerce: With the penetration of the internet and smartphones in rural areas, e-commerce players began targeting rural markets. Platforms like Amazon, Flipkart, and JioMart expanded their reach to smaller towns and villages, offering a wide range of products and leveraging localized logistics networks.
- 9. Social commerce and influencer marketing: Social media platforms like Facebook, Instagram, and WhatsApp have become essential tools for e-commerce businesses in India. Social commerce, which involves selling products directly through social media platforms, gained traction. Influencer marketing also became a popular strategy, with brands collaborating with social media influencers to promote their products and reach a wider audience.
- 10. Future trends: The future of e-commerce in India looks promising. With the government's push for digital initiatives like Digital India and increased focus on infrastructure development, more people are expected to come online and engage in e-commerce activities. Additionally, emerging technologies like artificial intelligence, augmented reality, and voice commerce are likely to shape the future of e-commerce, providing personalized experiences and enhancing customer engagement.

Overall, the evolution of e-commerce in India has transformed the retail landscape, providing consumers with convenience, a wide range of choices, competitive pricing, and doorstep delivery. The COVID-19 pandemic further accelerated the growth of e-commerce as people turned to online shopping for their everyday needs, including groceries, medicines, and other essential items.

Several key trends are shaping the future of e-commerce in India:

Omnichannel approach: E-commerce players are adopting an omnichannel approach by integrating their online and offline operations. This includes initiatives such as click-and-collect, where customers can order online and pick up their purchases from nearby stores. This approach provides a seamless shopping experience, combining the benefits of online and offline channels.

Tier 2 and Tier 3 city expansion: E-commerce companies are increasingly focusing on expanding their reach to smaller cities and towns. These regions have a significant untapped market potential and are witnessing rapid internet penetration and increased consumer spending. Companies are investing in localized strategies, language support, and logistics infrastructure to cater to the specific needs of these markets.

Social commerce and vernacular content: Social commerce is gaining traction in India, with platforms like Facebook, Instagram, and WhatsApp facilitating direct selling and peer-to-peer transactions. Additionally, the availability of content in regional languages is becoming crucial for engaging with customers in non-metro areas. E-commerce platforms are incorporating vernacular content, product descriptions, and customer support to cater to diverse linguistic preferences.

Sustainable and conscious consumerism: There is a growing awareness and demand for sustainable and ecofriendly products among Indian consumers. E-commerce platforms are responding to this trend by offering green products, promoting responsible sourcing, and incorporating environmentally friendly packaging and delivery practices. Consumers are also showing a preference for brands that align with their social and ethical values.

Personalization and recommendation engines: With the advancement of artificial intelligence and data analytics, e-commerce platforms are leveraging customer data to provide personalized product recommendations, customized offers, and targeted marketing campaigns. By understanding individual preferences and behaviour, e-commerce companies aim to enhance the customer experience and increase conversion rates.

Cross-border e-commerce: Cross-border trade is gaining momentum in India, with consumers showing interest in international products and brands. E-commerce platforms are forming partnerships and collaborations with global sellers to offer a wider selection of imported goods. This trend is driven by factors such as increasing disposable income, exposure to global trends, and a desire for unique and high-quality products.

Logistics and last-mile delivery innovations: E-commerce companies are continually investing in improving logistics and last-mile delivery capabilities. This includes building warehouses and fulfillment centers, partnering with logistics providers, and adopting innovative solutions like drones and electric vehicles for efficient and eco-friendly deliveries. Speed and reliability of deliveries are key competitive factors in the e-commerce industry.

Enhanced customer experience: E-commerce players are focusing on providing a superior customer experience through features like hassle-free returns, 24/7 customer support, real-time order tracking, and secure payment options. Integration of emerging technologies like chatbots and virtual assistants is helping to automate customer service and provide quick resolutions to queries and concerns.

Overall, the e-commerce landscape in India is dynamic and evolving rapidly. With the continued growth of internet users, digital literacy, and technological advancements, the e-commerce sector is poised for further expansion, innovation, and transformative changes in the coming years.

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1.2 ONLINE SHOPPING DURING THE COVID-19 PANDEMIC

The COVID-19 pandemic has significantly impacted the way people shop, leading to a surge in online shopping across the globe. Here are some key aspects of online shopping during the pandemic:

- 1. Increased adoption: With physical retail stores temporarily closed or operating with restrictions, consumers turned to online shopping as a safe and convenient alternative. Both new and existing online shoppers increased their usage of e-commerce platforms to meet their needs.
- 2. Essential items and groceries: Online shopping became particularly crucial for purchasing essential items like groceries, medicines, and personal care products. Consumers preferred to have these items delivered to their doorsteps to minimize the risk of exposure to the virus in crowded public spaces.
- 3. Shift in product categories: While essential items experienced high demand, there was also a significant shift in consumer spending towards other categories. Home office equipment, fitness equipment, entertainment products, and cooking supplies saw increased sales as people adjusted to remote work, home-based activities, and limited outside entertainment options.
- 4. Health and hygiene considerations: Online shoppers became more conscious of health and hygiene factors during the pandemic. They paid attention to sellers' safety protocols, such as contactless delivery, sanitization measures, and proper packaging. E-commerce companies implemented measures to ensure the safety of their employees, delivery personnel, and customers.
- 5. Surge in new online shoppers: The pandemic prompted many individuals who had never shopped online before to try e-commerce for the first time. This included older adults and people from non-metropolitan areas who previously relied heavily on physical retail stores. Online platforms worked on simplifying the user experience and providing support to accommodate these new shoppers.
- 6. Digital payment adoption: The fear of handling cash and the preference for contactless transactions led to an increased adoption of digital payment methods. Mobile wallets, digital banking, and payment apps became popular as they offered a secure and convenient way to complete transactions without physical contact.
- 7. Logistics challenges: The surge in online shopping during the pandemic created significant logistical challenges for e-commerce companies. Increased order volumes, reduced manpower due to safety measures, and disrupted supply chains led to delays in deliveries in some cases. Companies worked towards optimizing their logistics networks and partnering with additional delivery service providers to meet the increased demand.
- 8. E-commerce support for local businesses: Online platforms played a vital role in supporting local businesses during the pandemic. Small retailers, restaurants, and artisans were able to reach customers and sustain their businesses through online marketplaces and delivery services.
- 9. Return and exchange policies: Given the uncertain nature of the pandemic and changing circumstances, e-commerce companies had to adapt their return and exchange policies to accommodate customer needs. Flexibility in return timelines, simplified return processes, and extended refund periods became common to address customer concerns.

10. Long-term impact: The pandemic has accelerated the digital transformation of the retail industry, and the shift to online shopping is expected to have a lasting impact. Even as physical stores reopen, many consumers are likely to continue relying on the convenience and safety of e-commerce. This shift has prompted retailers to invest more in their online presence and omnichannel strategies.

Overall, the COVID-19 pandemic has acted as a catalyst for the growth of online shopping, reshaping consumer behaviour and the retail industry as a whole.

2. LITERATURE REVIEW

The E-Commerce Evolution: Analysing Consumer Attitudes towards Online Shopping during the COVID-19 Pandemic is a comprehensive study that examines consumer behaviour and attitudes towards online shopping in the context of the COVID-19 pandemic. This review of literature explores the contribution of both Indian and foreign authors to the research on e-commerce evolution during the pandemic, shedding light on various perspectives and key findings.

Ghosh, S., & Mukhopadhyay, S. (2020) - In their research, Ghosh and Mukhopadhyay investigate the impact of COVID-19 on consumer buying behaviour in India. They identify a significant shift towards online shopping during the pandemic, driven by factors such as convenience, safety concerns, and increased trust in ecommerce platforms.

Singh, S., & Aggarwal, A. (2021) - Singh and Aggarwal analyse consumer perceptions and preferences regarding online shopping platforms during the COVID-19 outbreak. Their study highlights the importance of factors such as product availability, pricing, and customer service in influencing consumer attitudes towards e-commerce.

Arora, K., & Verma, S. (2022) - Arora and Verma focus on the role of social media in shaping consumer attitudes towards online shopping during the pandemic. They emphasize the impact of influencers and user-generated content on purchase decisions and highlight the growing significance of social media platforms as a marketing tool for e-commerce businesses.

Chen, Y., & Xie, Y. (2020) - Chen and Xie explore the changes in consumer behaviour and the e-commerce landscape during the COVID-19 pandemic in China. Their study uncovers the surge in online shopping and the preference for contactless delivery options due to safety concerns. They also highlight the importance of trust, reputation, and reviews in online shopping decisions.

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Hajli, M. N. (2020) - Hajli examines the impact of the COVID-19 pandemic on e-commerce and consumer behaviour globally. The study emphasizes the crucial role of technology in facilitating online transactions and suggests that factors such as website usability, security, and personalization significantly influence consumer attitudes towards online shopping.

Hong, I. B., & Chiu, C. Y. (2021) - Hong and Chiu investigate the effects of the COVID-19 pandemic on online shopping behaviour in South Korea. Their research highlights the mediating role of perceived risk and trust in shaping consumer attitudes towards e-commerce. They also discuss the importance of factors such as website quality, customer service, and product information.

Chauhan, P., & Sharma, V. (2021) examined the influence of the COVID-19 pandemic on consumer behaviour and the adoption of e-commerce in India. The study highlighted the increased reliance on online shopping due to lockdown restrictions and safety concerns. Factors such as convenience, product availability, and perceived risk were found to shape consumer attitudes towards online shopping platforms.

Yadav, R., & Sharma, M. (2021) investigated the role of trust and perceived risk in influencing consumer intentions to adopt online shopping during the pandemic. The study emphasized the significance of building trust through secure payment systems, reliable delivery, and transparent return policies to enhance consumer confidence and promote e-commerce growth.

Jha, S., & Vardhan, H. (2021) explored the impact of the COVID-19 pandemic on consumer attitudes and preferences towards online grocery shopping in India. The study identified factors such as product quality, delivery speed, and website design as crucial drivers of consumer satisfaction and repeat purchase intentions. Additionally, concerns regarding product freshness and substitution were found to influence consumer trust in online grocery platforms.

Chakraborty, A., & Zaman, A. (2021) examined the factors influencing Indian consumers' intention to continue online shopping beyond the pandemic. The study revealed that perceived ease of use, perceived usefulness, and enjoyment of online shopping experiences positively influenced consumers' intention to sustain their online shopping behaviour. Trust, security, and personalized recommendations were also identified as key factors affecting post-pandemic online shopping intentions.

Verma, P., & Yadav, R. (2021) investigated the impact of the COVID-19 pandemic on consumer attitudes and preferences towards online fashion shopping in India. The study found that factors such as product variety, price, website quality, and social influence significantly influenced consumer purchase intentions. Trust in online transactions and the ability to try on or return products were identified as critical factors in overcoming barriers to online fashion shopping.

The reviewed literature demonstrates a consensus among Indian and foreign authors regarding the impact of the COVID-19 pandemic on e-commerce and consumer attitudes towards online shopping. The studies reveal a significant increase in online shopping due to safety concerns, convenience, and changing consumer preferences. Factors such as product availability, pricing, website quality, trust, and customer service emerged as key determinants of consumer attitudes towards e-commerce platforms. Additionally, the influence of social media and technology in shaping consumer behaviour during the pandemic was highlighted. Overall, these studies provide valuable insights into the e-commerce evolution and consumer attitudes during the COVID-19 crisis, offering a foundation for further research and strategic decision-making in the field of online retail.

3. RESEARCH METHODOLOGY

3.1 NEED FOR THE STUDY

The study on The E-Commerce Evolution: Analysing Consumer Attitudes towards Online Shopping during the COVID-19 Pandemic addresses an important research need in understanding the impact of the pandemic on consumer behaviour and attitudes towards e-commerce. Several reasons highlight the significance and relevance of this study:

- 1. Unprecedented Impact of the COVID-19 Pandemic: The COVID-19 pandemic has brought about unprecedented changes in consumer behaviour worldwide. The study aims to explore the specific impact of the pandemic on consumer attitudes towards online shopping, considering the unique circumstances and challenges posed by the global health crisis.
- 2. Rapid Shift towards E-Commerce: The pandemic has accelerated the adoption of e-commerce as consumers turned to online shopping to fulfill their needs while adhering to social distancing guidelines and lockdown measures. This study aims to examine the factors influencing this rapid shift and understand how consumer attitudes towards online shopping have evolved during this critical period.
- 3. Changes in Consumer Attitudes: The study seeks to analyse how the pandemic has affected consumer attitudes towards online shopping. It explores factors such as convenience, safety concerns, trust in e-commerce platforms, perceived risk, and the role of social media influencers in shaping consumer behaviour and decision-making.
- 4. Implications for Businesses and Policy: Understanding consumer attitudes towards online shopping during the pandemic has significant implications for businesses and policymakers. This study can provide insights into strategies that businesses can adopt to meet evolving consumer needs and preferences, enhance customer experiences, and improve the effectiveness of e-commerce platforms. It can also guide policymakers in formulating regulations and policies to support and regulate the e-commerce sector.

5. Cross-Cultural Analysis: By involving Indian and foreign authors, the study can provide a comprehensive perspective on consumer attitudes towards online shopping during the pandemic. Cross-cultural analysis helps identify similarities and differences in consumer behaviour across different regions, contributing to a more nuanced understanding of the e-commerce evolution during this global crisis.

Overall, the study on The E-Commerce Evolution: Analysing Consumer Attitudes towards Online Shopping during the COVID-19 Pandemic fills a research gap by examining the impact of the pandemic on consumer behaviour and attitudes towards e-commerce. It provides valuable insights that can guide businesses, policymakers, and researchers in adapting their strategies and understanding the changing dynamics of online shopping in the context of the COVID-19 pandemic.

3.2 RESEARCH OBJECTIVE

- 1. To assess the perception of consumers towards online buying during Covid-19
- 2. To analyse the impact of Covid-19 on sales of selected FMCG companies

3.3 SAMPLE SIZE

The research study aims to analyse the buying behaviour of consumers during the COVID-19 pandemic with a specific focus on the state of Gujarat, India. The study targets a sample size of 100 consumers from Gujarat, representing a diverse range of demographics and socioeconomic backgrounds. By focusing on a specific geographical region, the study aims to capture insights and trends specific to the local context.

In order to gain a comprehensive understanding of consumer attitudes and behaviours, the study selects two prominent FMCG companies operating in India: Dabur Limited and Hindustan Unilever Limited. These companies are well-known in the FMCG sector and offer a wide range of consumer products such as personal care items, food and beverages, and household products. By including these companies in the study, the researchers aim to explore consumer preferences, purchasing patterns, and perceptions specifically related to these brands during the COVID-19 pandemic.

3.4 PERIOD OF DATA COVERAGE

The financial statements of the selected FMCG companies have been analysed for the fiscal years 2019-20 to 2020-21 in order to determine the effects of the Covid-19 pandemic on the sales performance of selected 2 companies.

4. DATA ANALYSIS

1. H_01 : There is no association between consumers' perception towards buying online during Covid-19 and education of the consumers

| Chi-Square Tests | | | | |
|--------------------|--------------------|----|---|--|
| | Value | df | Asymptotic Significance (2-sided) | |
| Pearson Chi-Square | 7.004 ^a | 12 | .857 | |

INTERPRETATION

The significant p value is greater than 0.05, implying that there is no link between consumers' perception towards buying online during Covid-19 and education of the consumers.

2. H_02 : There is no association between consumers' perception towards buying online during Covid-19 and age of the consumers

| | Chi-Squa | re Te | ests | | |] |
|--------------------|--------------------|-------|------|----|--------------------------------------|---|
| | Value | | df | | Asymptotic Significance (2-sided) | |
| Pearson Chi-Square | 9.626 ^a | | | 12 | .649 | Ł |

INTERPRETATION

The significant p value is greater than 0.05, implying that there is no link between consumers' perception towards buying online during Covid-19 and age of the consumers

 H₀3 : There is no association between consumers' perception towards buying online during Covid-19 and gender of the consumers

| Chi-Square Tests | | | | | |
|--------------------|--------------------|----|--------------------------------------|--|--|
| | Value | df | Asymptotic Significance (2-sided) | | |
| Pearson Chi-Square | 4.699 ^a | 4 | .320 | | |

INTERPRETATION

The significant p value is higher than 0.05, implying that there is a link between consumers' perception towards buying online during Covid-19 and gender of the consumers

| | Before | After |
|------------------------------|-----------|-----------|
| | Covid-19 | Covid-19 |
| Mean | 22291.4 | 26247.865 |
| Variance | 510823077 | 726806232 |
| Observations | 2 | 2 |
| Pooled Variance | 618814655 | |
| Hypothesized Mean Difference | 0 | |
| df | 2 | |
| t Stat | -0.159048 | |
| P(T<=t) one-tail | 0.4441205 | |
| t Critical one-tail | 2.9199856 | |
| P(T≤=t) two-tail | 0.8882409 | |
| t Critical two-tail | 4.3026527 | |

DECISION

From the above table it can be seen that P value (Two Tail) is 0.888 which is higher than significance value 0.05 (P value > 0.05) which means,

Null Hypothesis is accepted and it is concluded that there is no significant difference in sales of the companies before and after Covid-19 pandemic which implies that there is no impact of Covid-19 pandemic on the sales of the selected companies.

5. **RECOMMENDATION**

Based on the finding that there is no significant difference in the sales of the selected FMCG companies before and after the Covid-19 pandemic, several suggestions can be made:

- Diversify Product Offerings: Although the companies analysed in this study were not significantly impacted by the pandemic, it is still important for them to consider diversifying their product offerings. By expanding their range of products, they can cater to a wider customer base and mitigate potential risks associated with fluctuations in consumer preferences or unforeseen market disruptions.
- 2. Strengthen Online Presence: While the analysis shows that the pandemic had no significant impact on sales, it is crucial for the companies to continue investing in their online presence. As consumer behaviour continues to evolve, having a robust e-commerce platform and engaging digital marketing strategies will be essential for capturing and retaining customers in an increasingly competitive landscape.
- 3. Enhance Supply Chain Resilience: Even though the analysis indicates that sales were not significantly affected, the companies should still focus on strengthening their supply chains. The pandemic highlighted the importance of having resilient and agile supply networks that can withstand disruptions. By proactively addressing supply chain vulnerabilities, such as diversifying suppliers or implementing contingency plans, the companies can better navigate any future challenges.

- 4. Monitor Changing Consumer Preferences: The pandemic has accelerated shifts in consumer behaviour and preferences. It is crucial for the companies to continuously monitor and adapt to these changing trends. Conducting market research, leveraging consumer insights, and staying up-to-date with emerging consumer demands will enable the companies to align their product offerings and marketing strategies accordingly.
- 5. Prepare for Future Uncertainties: While the sales of the selected FMCG companies were not significantly impacted by the pandemic, it is essential for them to remain prepared for future uncertainties. This includes developing contingency plans, maintaining financial stability, and regularly reviewing business strategies to ensure resilience in the face of unforeseen challenges.
- 6. Collaborate with Stakeholders: The companies can benefit from building strong relationships and collaborations with their stakeholders, including suppliers, distributors, and retailers. Open communication channels and collaborative efforts will help in addressing any potential disruptions and finding innovative solutions to challenges that may arise in the future.

In summary, although the analysis suggests no significant impact on sales, the selected FMCG companies should proactively take steps to adapt to evolving consumer preferences, strengthen their supply chains, enhance their online presence, and prepare for any future uncertainties. By staying vigilant and proactive, the companies can continue to thrive and succeed in the dynamic business environment.

6. CONCLUSION

The analysis of the financial statements for the selected FMCG companies during the years 2019-20 to 2020-21 has revealed an interesting finding. The data indicates that there is no significant difference in the sales performance of the companies before and after the Covid-19 pandemic. This finding suggests that the Covid-19 pandemic has had no discernible impact on the sales of the selected companies.

The lack of a significant difference in sales figures between the pre-pandemic and pandemic periods implies that the companies have managed to maintain a relatively stable level of sales despite the challenges posed by the global health crisis. This finding may suggest that the selected FMCG companies were able to adapt and respond effectively to the changing market dynamics and consumer behaviour during the pandemic.

Several factors could have contributed to this lack of impact on sales. The companies may have implemented strategic measures such as diversifying their product portfolios, expanding their online presence, or modifying their marketing and distribution strategies to address the unique circumstances brought about by the pandemic. Additionally, the companies may have benefited from increased consumer demand for essential products and the ability to cater to the changing needs and preferences of consumers during the pandemic.

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It is important to note that this finding is specific to the selected FMCG companies analysed in this study and may not be applicable to the entire FMCG sector or other industries. Furthermore, the lack of significant impact on sales does not necessarily imply that the pandemic did not affect the companies in other areas such as supply chain disruptions, production costs, or overall financial performance.

In conclusion, based on the analysis of financial statements, there is no significant difference in the sales performance of the selected FMCG companies before and after the Covid-19 pandemic. This suggests that the pandemic had no discernible impact on the sales of these companies. Further research and analysis may be needed to explore other aspects of the companies' operations and financial performance to gain a comprehensive understanding of the overall impact of the Covid-19 pandemic on their business.

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