



Libyan International Medical University
Faculty of Business Administration



Impact of COVID-19 on Supply Chain Management

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INTRODUCTION

Global supply chains have been severely disrupted by the COVID-19 epidemic, impacting sectors as diverse as manufacturing, retail, and even the food and healthcare industries. Global supply chain management has been significantly impacted by the COVID-19 epidemic.

A greater understanding of the necessity for risk management methods and the deployment of digital technology to enhance supply chain resilience has emerged as a result of the pandemic's exposure of supply chain vulnerabilities.

In this study, we look at how COVID-19 has affected supply chain management and talk about what steps might be made to lessen the pandemic's interruptions.



TERMINOLOGIES



COVID-19

The disease caused by a coronavirus called SARS-CoV-2. The World Health Organization (WHO) first learned of this new virus on 31 December 2019, following a report of a cluster of cases of so-called viral pneumonia in Wuhan, People's Republic of China. (W.H.O, 2019).



SUPPLY CHAIN MANAGEMENT

Is the integration of all business operations that benefit consumers and other chain participants, such as information sharing, product development, and customer support, in a supply chain that extends from the final consumer to the primary suppliers. (Douglas, 1998, p.9).



METHODOLOGY

In this academic research used the experimental method by reviewing 15 published academic papers, by analyzing them to come up with significant results.

LITERATURE REVIEW TABLE

Papers	Authors	Year	Country	Sector	Respondents	Population (data collected)	Sample	Data collection tool	Limitations	Findings
1	Dilek Ulucan Erkesim	2021	Turkey	Management	/	/	/	Previous research	There is no clear data collection toll/ the author did not has a sample.	Increase in the cost of work for manufacturing companies. It has become increasingly difficult to market products around the world.
2	Kedwadee Sombultawee/Pattama Lenuwat/Natdanai Aleenajitpong and Sakun Boon-itt	2022	Thailand	Management	/	/	/	Previous research	A lot of papers were collected/ the data collection tool was not clear.	Negative effects on economic performance that persist across entire supply chains\.
3	Rakesh Kumar /R.S. Mishra	2020	India	Management	130	Target population of supply chain industries	300	Questionnaire	The research limited on the resource in both sides financial and time recuses and there is not a lot of previous studies about the topic.	The keys found from this article that it is focused in four pertinent on product classification including export product, import product, elective product and emergency product. It shows that the export and import product have negative implications
4	Priyabrata Chowdhury a Sanjoy Kumar Paul b Shahriar Kaiser a Md. Abdul Moktadir	2020	Bangladesh	Management	/	/	/	74 Previous research	First, we considered only Journal articles published on or before 28 September 2020, and only those written in English. Thus, book chapters, books, conference papers, and unpublished works were not considered in this research.	The synthesis of the findings reveals that four broad themes recur in the published work: namely, impacts of the COVID-19 pandemic, resilience strategies for managing impacts and recovery, the role of technology in implementing resilience strategies, and supply chain sustainability in the light of the pandemic. Alongside the synthesis of the findings, this study describes the methodologies, context, and theories used in each piece of research. Our analysis reveals that there is a lack of empirically designed and theoretically grounded studies in this area; hence, the generalizability of the findings, thus far, is limited.

5	Dilek Ozdemir ,Mahak Sharma Amandeep Dhir ,Tugrul Daim f,g	2021	Taiwan	Management	282	/	282 retail employees	Questionnaire	/	The findings demonstrate that pandemic-related disruptions have affected resilience-building activities. While both proactive and reactive approaches have promoted resilience building during the pandemic, they have not been sufficient to ameliorate all the pandemic's negative effects
6	Zhitao Xu, Adel Elomri	2020	Saudi Arabia	Management		/	/	Previous study	/	The study showed that the COVID-19 pandemic has resulted in unprecedented disruptions to the mechanics of most GSCs such as pharmaceuticals, food, electronics, automotive industry
7	Vesna Milovanović ¹ , Mihailo Paunovic, Stefan Avramovski	2022	Serbia	Management	40	/	40 hotels	Questionnaire	/	Negative effects on economic performance that persist across entire supply chains\.
8	Siti Amalia Dio, Caisar Darma and Siti Maria	2020	Indonesia	Management		/	/	Previous study	/	Indonesia have relaxed their social distancing policies, which means that factories have begun to reopen and operations are running normally. The tension caused by the supply chain jamming began to decrease. Even the impact of Covid-19 is expected to gradually improve in 2021.

9	Akintokunbo, Oluwarotimi Odunayoand Adim, Chidiebere Victor	2020	Nigeria.	Management	/	/	/	Previous study	/	The key finds conduct the there is negative impact of covid-19 on the supply chin performance
10	Kamola Mukhamedjanovaa	2021	Uzbekistan	Management	/	/	/	Previous study	/	The supply chain is the worst affected industry because of the pandemic. The situation with the corona virus affects almost all functional units - procurement, logistics, warehouses, Finance, IT.
11	Abhijit Barman, Rubi Das, Pijus Kanti De	2021	India	Management	/	/	/	No data are taken / from any case study	/	Food supply chain facilities should concentrate on facilities like maintenance of employees' safety and health, change of conditions in working. To prevent the increment of food prices, the protectionist policy should be avoided.
12	Serpil Aday and Mehmet Seckin Aday	2020	Turkey	Management	/	/	/	Previous research	The authors declare no conflict of interest	Each country must realize the severity of the situation and sometimes should tighten or loosen the measures according to the spread of the pandemic. The supply chain also should be flexible enough to respond to the challenges in the food supply chain. The purpose of this review is to evaluate the impact of COVID-19 on the agriculture and food sector and to summarize the recommendations required to reduce and control the effect of the pandemic

13	Tirivangani T., Alpo B., Kibuule D., Gaeseb J.	2021	Nambia	Management	21	/	An online survey/ was developed using Google® Forms as survey platform in the form of semi- structured questions.		None of the authors has any competing interests that are directly related to this project.	This study has attempted to document salient points that can assist pharmaceutical and governmental institutions deal with pharmaceutical supply chain disruptions during future pandemics.
14	Anu Sharma, Pankaj Gupta and Rishabh Jhu	2020	India	Management	/	/	/	/	The author declared no potential conflict of interest with respect to The research, authorship and/or publication of this article.	The paper focused on the challenges that supply chains faced during the pandemic. Also the paper covered the shortage of supply because the demand increased but the supply decreased. Researchers found that covid-19 has a huge impact on supply chain, which a negative impact because the supply has decreased a lot during the pandemic.
15	Hiroyasu Inoue, Yasuyuki Todo	2020	Japan	Managament	/	/	/	Secondary data/ from a credit research company in Japan.		The simulation results clearly show that the effect of a lockdown of Tokyo quickly propagates to other regions outside Tokyo, leading to a substantial effect on the entire Japanese economy. This conclusion is consistent with the previous finding that economic shocks due to natural disasters propagate to non- disaster regions and result in a large total loss.

LITERATURE REVIEW

First paper:

In 2020, Rakesh Kumar and R.S. Mishra conducted a study on COVID-19 Global Pandemic, the Impact on Management of Supply Chain in India, using qualitative data collected through a questionnaire. The sample size was 300 and they received 130 respondents. The goal of this study was to determine the effect of covid-19 on the supply chain management during Covid-19 pandemic. The keys found from this article that it is focused in four pertinent on product classification including export product, import product, elective product and emergency product. It shows that the export and import product have negative implications. The limitation of the study shows that the research limited on the resource in both sides financial and time recuses and there is not a lot of previous studies about the topic.

Second paper:

In Serbia, According to Vesna Milovanović, Mihailo Paunovi, and Stefan Avramovski in 2021, the effects of COVID-19 on supply chain management were studied using a questionnaire that receives responses from 40 hotels. The findings demonstrate that there are adverse repercussions on hotel performance throughout the whole supply chain.

Third paper:

In India, Abhijit Barman, Rubi Das, Pijus Kanti De conducted a study on the impact of COVID-19 in food supply chain by using previous academic studies. The main research finding is that COVID-19 has a detrimental influence on supply chain performance.

Fifth paper:

According to a Turkish study conducted by Serpil Aday and Mehmet Seckin Aday in 2020, the impact of covid-19 in supply chain was studied by using previous academic studies. The research found that covid-19 has negatively affected the supply chain. Also it has a negative impact on the global economy. Despite the fact that there haven't been any significant issues in the supply chains so far, the future is still unclear.

Seventh paper:

In 2020. Anu Sharma, Pankaj Gupta and Rishabh Jha. conducted a study on the impact of Covid-19 on Health Supply Chain in India. They used previous studies to collect their information. The paper focused on the challenges that supply chain has faced during the pandemic. Also, the paper covered the shortage of supply because the demand increased but the supply decreased. Researchers found that covid-19 has a huge impact on supply chain, which a negative impact because the supply has decreased a lot during the pandemic.



REFLECTION

Covid-19 pandemic influenced the economy globally with supply chain management being one of the important elements of the economy. This academic paper investigates if supply chain management was affected by the pandemic. After extensively reviewing different academic papers and reviews, it was revealed that there was a negative impact from covid-19 pandemic on the supply chain management.

Most of the paper assessed have used previous studies as data collection while others have used questionnaire by different respondents in different sectors. As a result, from reviewing the academic papers in various countries, all research studies conducted so far have concluded that the supply chain management was negatively affected by the covid-19 pandemic.

LIMITATION

Unfortunately, this academic paper suffers from a few limitations. Firstly, the majority of this literature review has used previous studies which have used similar methods.

Therefore, we recommend that future studies apply more econometric techniques that may be examined to determine how reliable our findings are.

Additionally, the study only included a small number of countries, therefore comparable studies might be conducted in additional countries to identify parallels and differences in order to increase accuracy.



CONCLUSION

The effect of the Covid-19 epidemic on supply chain networks is examined in this scholarly article. The majority of the publications used earlier research as data sources and questionnaires with responses from various respondents in different industries, and it was discovered that there is a detrimental influence on supply chain management.

This is a result of global procurement systemic issues that have had a cascading effect on supplier networks at various levels.



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