A Quantitative ABCD Analysis of Factors Driving Share Price Volatility in the Indian Pharmaceutical Sector

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ABSTRACT

Purpose: This research employs an innovative ABCD (Advantages, Benefits, Constraints, and Disadvantages) analysis framework to intricately explore and evaluate the diverse factors influencing share price volatility in the Indian Pharmaceutical Sector. Delving into both individual and systemic characteristics, the study quantitatively assesses the effectiveness of various elements impacting share prices. Each component related to share price movements is meticulously assigned a score or weightage, providing a nuanced understanding of their respective contributions.

Design: The researcher utilized focused group interviews to collect participants' viewpoints on the factors influencing share price dynamics in the Indian pharmaceutical industry. Opinions were obtained through designated measurements, and the collected data underwent subsequent quantitative analysis.

Findings: In the specific context of the present study, which focuses on the quantitative ABCD analysis of factors driving share price fluctuations in the Indian pharma industry, the research findings underscore the notable impact of advantageous factors on volatility. The outcome of the ABCD analysis substantiates the effectiveness of the concepts/ideas related to Factors Driving Share Price Volatility in the Indian Pharmaceutical Sector.

Originality: This research introduces a novel application of the ABCD analytical paradigm to investigate factors influencing variations in the pricing dynamics of shares in the Indian pharmaceutical industry. While ABCD analysis is prevalent in diverse areas, this study pioneers a unique exploration within the pharmaceutical domain. By identifying and evaluating the crucial elements influencing share prices, this work contributes to the originality of studies in the field, presenting a distinctive approach to understanding the dynamics of the Indian pharmaceutical market.

Type of Paper: Empirical Analysis.

Keywords: ABCD Framework, Factor Analysis, Elementary Analysis, Share Price Volatility, Indian Pharmaceutical Sector, Quantitative ABCD Analysis

1. INTRODUCTION :

In the kaleidoscopic realm of the Indian pharmaceutical industry, the passage of time has woven a tapestry of evolution, resilience, and transformation. Today, standing at the crossroads of unprecedented shifts, the Indian pharmaceutical sector reflects a story of adaptability and fortitude. Indian pharmaceutical engineering remains at the forefront among science-based industries, displaying broad expertise in the complex domains of drug production and technology (Kolte et al., 2022) [1]. Continued sectoral advancements propelled India to be recognized among the foremost healthcare markets worldwide by the close of 2020 (Festa et al., 2022) [2]. This sector, known for its resilience and adaptability, has witnessed remarkable transformations in recent years. Amid the challenges posed by COVID-19, the Indian pharmaceutical industry demonstrated remarkable resilience, successfully



navigating the complexities brought about by the pandemic. The sector not only sustained its operations but also played a crucial role in addressing the healthcare needs arising from the global health crisis. This included the rapid development and production of vaccines, medications, and other essential medical supplies, showcasing the industry's ability to adapt and contribute significantly to public health during unprecedented times.

In recent years, the pharmaceutical sector has contended with a myriad of formidable challenges and complexities, ranging from heightened regulatory scrutiny to the pursuit of innovation and the development of effective therapeutics and vaccines. These efforts have not only shaped the industry's response to current healthcare demands but have also significantly impacted the valuation and volatility of pharmaceutical stocks in the market. Indian pharmaceutical companies' share prices have undoubtedly been influenced by global health trends, regulatory changes, and shifts in the competitive landscape. Observers closely monitor how these companies navigate regulatory complexities, achieve research and development breakthroughs, respond to market conditions, and adapt to external influences. In the intricate landscape of the Indian pharmaceutical industry, where market intricacies and regulatory frameworks are closely entwined, share price fluctuations play a pivotal role as performance indicators. Our research aims to delve into the dynamics of share price movements within this sector, utilizing a quantitative ABCD analysis to unravel the various factors at play. Recognizing the crucial need for a profound understanding of the forces at play in the Indian pharmaceutical sector, our research strategically employs the ABCD framework-an effective method widely acclaimed across diverse sectors. In this analytical framework, we meticulously examine each facet—Advantages, Benefits, Constraints, and Disadvantages-as crucial lenses to dissect and quantify the numerous factors influencing share price fluctuations. Diverging from conventional methodologies, our study pioneers a focused exploration into the specific nuances of the Indian pharmaceutical sector. Through this exploration, we aim to make a meaningful contribution to the ongoing discourse surrounding the financial performance of the Indian pharmaceutical industry. The in-depth investigation's purpose is not just to improve our comprehension of the industry's dynamics but also to equip stakeholders with the knowledge and tools to navigate and succeed within this intricate framework.

2. EXISTING LITERATURE ON DIVERSE STRATEGIC MODELS AND THE STRATEGIC UTILITY OF ABCD ANALYSIS :

Several research studies in the realm of strategic management have paved the way for commencing the literature review segment. Strategic management employs a diverse set of strategies to effectively navigate challenges and mold the trajectory of an organization. Transitioning to a closer examination of specific strategies, it's imperative to highlight that strategic planning and decision-making are instrumental in organizational development and sustainability. In this segment, we will provide an overview of some key strategies before delving into a more in-depth discussion of the unique ABCD strategy. To begin with, The Ansoff Matrix-The Ansoff Matrix explores growth strategies, the Blue Ocean Strategy urges businesses to discover uncontested market spaces, and Scenario Planning anticipates and adapts to future uncertainties (Hussain et al., 2013; Aithal & Kumar, 2015) [3] [4]. The Balanced Scorecard method is a strategic management tool that goes beyond traditional financial metrics to assess corporate performance comprehensively incorporating goal-related measures from four key perspectives (Kaplan, 2009) [5] Value Chain Analysis dissects activities contributing to competitive advantage, and the Technology Acceptance Model seeks to understand and predict how users accept and adopt new technologies (Ensign, 2001; Bagozzi, 2007) [6] [7]. Emphasizing internal resources, the Resource-Based View focuses on analyzing and leveraging an organization's internal resources and capabilities as sources of competitive advantage, while Game Theory analyzes strategic interactions (Mahoney & Pandian, 1992; Sharma & Bhattacharya, 2013) [8] [9]. The Kano Model categorizes customer preferences, the Diamond Model assesses national competitiveness, and Critical Success Factors pinpoint key areas for success (Xu et al., 2009; Chobanyan & Leigh, 2006; Sudhakar, 2012) [10]-[12]. Project management benefits from the RACI Matrix, clarifying responsibilities (O'Connor & Mock, 2020) [13]. Each model, including those previously mentioned, provides a distinctive lens for examining organizational strategy, competitive positioning, and decision-making processes. Building on the foundational understanding of various strategic analysis frameworks, we now shift our focus to the ABCD analysis. Unlike the previously mentioned models, the ABCD



framework takes a unique approach by systematically evaluating business models, strategies, operational concepts, and business systems through four essential constructs: Advantages, Benefits, Constraints, and Disadvantages (Aithal et al., 2016) [14]. Aithal (2016)'s [15] framework, encapsulating Advantages, Benefits, Constraints, and Disadvantages, emerged as a structured and effective matrix for evaluating determinant issues and key attributes. The framework's simplicity and efficacy provided valuable guidelines for analyzing the effectiveness of diverse business models or operational concepts. When implemented, this methodology leads to a meticulously organized list outlining the aspects, advantages, benefits, limitations, and drawbacks pertaining to determining issues. It systematically explores diverse essential attributes linked to these determining issues, exerting an influence on the business or concept. Furthermore, it unveils the crucial component elements embedded within each determining issue, enriching understanding in the evaluation process. This framework stands out for its structured and quantifiable method, providing a holistic perspective that combines internal and external factors in strategic evaluation. Comparatively, in contrast to established techniques like SWOC, Competitive Profile Matrix (CPM) analysis, EFE & IFE Matrices, BCG analysis, Porter's Five Forces Model, and PESTLE Analysis, the ABCD framework brings its own strengths to the forefront that includes holistic perspective, adaptability, strategic integration, dynamic nature, focus on critical domains, action-oriented insights, and innovative approach. The effectiveness of the ABCD analysis framework as a strategic tool for business models has been extensively explored in the existing literature. The researchers have conducted a comprehensive examination of various applications across different industries, shedding light on the versatility of this analytical method. The quantitative evolution of the ABCD analysis is evident through many recent studies.

Building upon the synthesized insights from the literature review, the present study delves into an indepth examination and evaluation of the factors influencing share price volatility within the Indian Pharmaceutical Sector. Employing the ABCD analysis framework as a structured analytical tool, the investigation meticulously assesses the impact of various determinants on share price dynamics. The positive aspects, gains, limitations, and drawbacks are methodically recognized and evaluated across critical domains such as Pharmaceutical Industry Dynamics, stakeholders' Influence, Financial Performance, External Economic Factors, Research and Development Impact, and Global Health Events. This analytical framework aids in pinpointing determinant issues and critical attributes, with the study utilizing the focus group method to discern and elaborate on key elements associated with each factor.

3. OBJECTIVES OF THE STUDY :

This research endeavours to achieve the following objectives:

- Investigate and discuss the appropriateness of employing the ABCD analysis framework for a comprehensive analysis of factors influencing share price volatility in the Indian pharmaceutical industry.
- Methodically enumerate and evaluate the Advantages, Benefits, Constraints, and Disadvantages linked to comprehending the factors affecting share price volatility within the Indian pharmaceutical sector.
- Identify key determinant issues influencing determinants of share price volatility within the Indian pharmaceutical industry.
- Use the ABCD framework to analyze affecting features under each key attribute, providing insights into their quantitative impact on factors driving share price volatility.
- Utilize the elementary analysis technique to identify and analyze critical constituent elements associated with each ABCD construct.
- Conduct a concise evaluation of the significance of critical constituent elements within each ABCD construct, quantifying their impact on share price volatility influencers.

4. ABCD LISTING FOR QUANTITATIVE ANALYSIS OF FACTORS DRIVING SHARE PRICE VOLATILITY IN THE INDIAN PHARMACEUTICAL SECTOR :

4.1 Review of existing literature on ABCD listing:

Numerous studies showcased the suitability of the ABCD analysis in identifying critical elements within business models, strategies, and concepts. As we focus on the ABCD framework, it's noteworthy to



highlight its versatile application across various domains and a wide range of scenarios. The ABCD analysis framework effectively identified key influencing variables and essential aspects for customers' inclinations to minimize food wastage in dining establishments, supporting the effectiveness of food waste mitigation efforts (Salins & Aithal, 2022) [16]. Further, through the ABCD framework nanotechnology as green technology was analyzed to determine its importance in solving both in addressing fundamental and sophisticated societal challenges (Aithal & Aithal, 2018) [17]. Utilizing the ABCD analysis frameworks factors that encourage rural youth to engage in online shopping were studied (Fernandes & Shailashree, 2023) [18]. In addition, the ABCD model was applied to pinpoint the essential elements and factors influencing the effectiveness of stress-coping mechanisms (Kumari & Aithal, 2022) [19]. Building upon the comprehensive review of existing literature on ABCD mentioned above, Table 1 displays an expanded overview of the range of ideas where ABCD listing has been implemented, showcasing its respective focal points and contributions.

S. No.	Focus	Contribution	References
1	Evaluation of stage model in higher education	This study examined the efficacy of the stage model using the ABCD framework, demonstrating the logical application of the ABCD technique for evaluating educational system performance. The study provides insights into structured approaches for assessing and improving educational programs.	Aithal et al., (2016) . [20]
2	Examination of National Institutional Ranking Framework (NIRF)	The study explores the National Institutional Ranking Framework (NIRF) concerning its role in improving the status of higher education institutions in India. Utilizing the ABCD technique, the study evaluates the framework's efficacy in addressing critical elements such as research output, learning environment, infrastructure, inclusivity, and overall student development, offering a comprehensive analysis for the literature review.	Aithal et al., (2016). [21]
3	Remote office administration, facilitated by online platforms, in the future of the education system	This study advocates for the integration of an online office management system to support the transition to a global online education model in higher education. The proposed system, managed remotely by a team of online office managers, mirrors traditional administrative functions, including marketing, admissions, online materials management, and more. The emphasis lies in investigating the consequences of an at-home work model in developing nations such as India, highlighting its benefits for students, workers, and service providers, along with the corresponding advantages for diverse stakeholders and the broader society. The paper also acknowledges constraints for employees and employers, highlighting potential disadvantages for stakeholders, while noting that the model can reduce travel and office-related expenses.	Reshma et al., (2015). [22]
4	Dye-doped Polymers for Photonic Applications	This paper explores the integration of scientific and social research in photonics, focusing on the characteristics of dye-doped polymer films for various applications. Utilizing the ABCD	Aithal & Aithal, (2016). [23]

Table 1: Assessment of Academic Publications Regarding the ABCD Listing in Various Domains



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		framework, the study systematically analyzes determinant issues related to material, application, commercialization, production/service providers, customer, and environmental/social aspects. The analysis identifies 204 critical constituent elements under the constructs of advantages, benefits, constraints, and disadvantages, providing a comprehensive understanding of the potential success and challenges in utilizing dye-doped polymer films for photonics applications.	
5	Annual research productivity assessment using the ABC Model	This study underscores the importance of higher education institutions not only as centers of learning but also as generators of new knowledge through faculty research. It introduces the ABC model, which focuses on measuring annual research performance. The study applies the ABCD analysis technique to the ABC model, emphasizing a systematic examination of key factors, such as the number of articles, books, and book chapters published, to identify effective elements in assessing the annual research productivity of higher education institutions.	Aithal et al., (2016). [24]
6	On-line campus placement model	This study utilizes the ABCD analysis framework to evaluate the feasibility and global applicability of online campus placement models for a range of stakeholders. The research identifies 158 crucial components, scrutinizing the strengths, advantages, limitations, and drawbacks, providing perspectives on the efficiency of online campus placements for recruiters, students, parents, and institutions.	Shenoy & Aithal, (2016). [25]
7	Assessing Theory A on organizational performance	This paper explores Theory A, which challenges established notions of human behaviour and motivation in organizational performance. Grounded in the evolving mindset of modern employees influenced by technological changes and shifting societal expectations, Theory A emphasizes creativity as a driving force for positive contributions. Utilizing the ABCD analysis framework, the study conducts a comprehensive factor and elemental analysis, focusing on the favourable elements, advantages, limitations, and disadvantages, with essential constituent elements playing a pivotal role in the success of these aspects within the framework of Theory A.	Aithal & Kumar, (2016). [26]
8	Applicability of ABCD analysis as a research methodology in corporate case studies	This paper delves into the importance of utilizing company analysis as a case study research method in the field of management, highlighting its effectiveness in addressing and resolving organizational challenges. Highlighting the incorporation of the ABCD Analysis framework into corporate case analysis procedures, the conversation centers on its effectiveness in	Aithal, (2017). [27]



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		examining various determinant issues, identifying influential factors, and identifying crucial elements for each construct. The paper serves as a guide for emerging researchers, offering insights into the development and analysis of company case studies through the adoption of the ABCD framework.	
9	Factor analysis of research indices	This research delves into the utilization of research indices as instruments for evaluating the quality and influence of research contributions in specific fields or subjects. It explores commonly used indices such as the H-index and i10-index, concentrating on the methods of calculation based on citation values or the number of published papers. Furthermore, the study introduces innovative indices like ARP-Index, RC-Index, RE-Index, Project Productivity Index, and Cost Index, examining the factors that influence these indices. The analysis takes into account the research organization, researcher, funding agency, and industry, assessing the strengths, benefits, limitations, and drawbacks associated with each index.	Aithal & Aithal, (2017). [28]
10	IEDRA model for placement purpose	This paper seeks to examine the real-world feasibility, practical utility, resourcefulness, and applicability of the IEDRA Model. It employs the ABCD analysis framework to formulate theories or hypotheses regarding the universal relevance of the IEDRA framework for the stakeholders involved.	Shenoy & Aithal, (2017). [29]
11	Fingerprint biometric attendance maintenance system	This study investigates the progress in Information and Communication Technology that has enabled the adoption of technology-supported attendance systems in higher education, particularly emphasizing fingerprint biometrics. The research delves into the pros, advantages, limitations, and drawbacks of the fingerprint- based attendance system, utilizing focus group interactions to gain insights. Furthermore, the paper puts forth suggestions for additional research in the field, making valuable contributions to studies on fingerprint biometric attendance in higher education.	Krishna Prasad, (2018). [30]
12	Innovative approach for e- campus interview strategy	The study centers on the recruitment procedures of Berger Paints India at the Srinivas Institute of Management Studies, specifically highlighting the incorporation of an electronic online approach within the MBA program. The analysis seeks to understand the importance of the recruitment process for students, stakeholders, the online recruitment sector, and the broader industry context.	Shenoy et al., (2018). [31]
13	Inclusivity of patent analysis in research method	The paper presents a new qualitative research methodology called Patent Analysis, focusing on the systematic examination, description, and	Aithal & Aithal, (2018). [32]



	social media on	ABCD analysis framework in exploring the	Panakaje, (2023).
17	The influence of	This research aims to assess the suitability of the	Madhura & Panakaje (2023)
15		inclinations regarding organic food products.	
		shaping consumer perceptions and purchase	
		ABCD framework to delve into pivotal elements	
		enriches the extant literature by employing the	
		exhibiting less than satisfactory levels. This paper	
		with a neutral weighting, and constraints	
		score, trailed by advantages and disadvantages	
		satisfaction, where benefits attain the highest	
		The results underscore a notable level of	
		elements distributed across different constructs.	
		data, the study discerns 98 essential constituent	
	items	organic food products and their influence on purchase intentions. By scrutinizing empirical	
	for organic food	analysis framework to evaluate the efficacy of	2022). [35]
16	Buying intentions	This empirical investigation employs the ABCD	Sujaya & Aithal,
16	Durning inter ti	improvement of the country's education system.	Cartage 0 A 141 1
		for the effective implementation and overall	
		are delineated, and recommendations are put forth	
		strengths and weaknesses of the proposed policy	
		aspects such as facilities and restrictions. The	
		Education Institutions (HEIs), considering	
		of NEP 2019 on both private and public Higher	
		The assessment also gauges the potential effects	
		sector, drawing comparisons with earlier policies.	
		draft, particularly within the higher education	
		investigates various policies articulated in the	
	^ · ·	2019. Employing content analysis, the review	
	policy	the draft of the National Education Policy (NEP)	
	national education	notable characteristics, and objectives outlined in	
	within the	with a specific focus on the consequences,	(=**).[*']
10	higher education	surrounding Indian Higher Education Policies,	(2019). [34]
15	Challenges in	The research scrutinizes the recent discussions	Aithal & Aithal,
		multifactor authentication model.	
		and disadvantages, confirming the efficacy of this	
		categories of advantages, benefits, constraints,	
		analysis identifies crucial elements within the	
	model	performance evaluation matrix issues. The	
	model	input, process, customer, service provider, and	
	authentication	Multifactor Authentication. These encompass concerns related to security, user-friendliness,	
	ABCD for multifactor	investigate pivotal issues associated with	
14	Applicability of	The research utilizes ABCD analysis to	Aithal, (2018). [33]
14	A multical ilities of	emergence of new technologies.	A:41-1 (2019) [22]
		decisions within organizations and predict the	
		analysis can be applied to guide strategic	
		Furthermore, the paper investigates how patent	
		effectiveness, and potential future value.	
		advantages, benefits, limitations, drawbacks,	
		theories by assessing patents in terms of their	
		contribute to the generation of novel concepts or	
		domains. The objective of this method is to	
		interpretation of selected patents across diverse	



	attitudes toward fashion products	behaviour for fashion products. The study employs systematic literature reviews on social media effects and ABCD listing, utilizing a quantitative approach with focus group methods. Findings reveal that the ABCD technique offers a comprehensive approach to analyzing business models, emphasizing the significance of advantages in influencing customers to shop online for fashion products. The study's originality lies in its focus on the interplay between social media influence and online buying behaviour within the ABCD framework, providing valuable insights for future research in this domain.	
18	Entrepreneurship education	This paper addresses the challenge of integrating Entrepreneurial Innovation into current pedagogical approaches for Entrepreneurship Education. Through empirical studies with 250 MBA students, the study emphasizes the necessity of infusing practical applications into entrepreneurial training, particularly through group-based activities and case studies. The research highlights group projects as a notable emerging pedagogical innovation in entrepreneurial education, providing valuable insights for enhancing the preparation of students for dynamic entrepreneurial environments.	Lonappan & Aithal, (2023). [37]
19	Consumer confidence in Ayurvedic products	The study aims to identify factors influencing consumer trust in Ayurvedic products, utilizing the ABCD model to assess its advantages, benefits, challenges, and disadvantages. Through a comprehensive review of the ABCD analytical framework literature, the research successfully identifies key factors and essential characteristics influencing customer trust in ayurvedic products. Quantitative analysis, including focus group interactions and appropriate attribute weighting, reveals a growing trend of adopting sustainable strategies. The application of the ABCD model receives strong endorsement for its beneficial elements, affirming its effectiveness in fostering trust in ayurvedic product consumption.	Mahale, (2023). [38]
20	Execution of corporate social responsibility initiatives	The primary objective of this research was to pinpoint the key factors affecting the execution of corporate responsibility initiatives through the application of the ABCD analysis framework. Through focused group interviews and quantitative analysis, the research revealed that challenges in establishing these initiatives had more advantages and benefits than disadvantages, emphasizing their effectiveness. The paper not only enhances understanding of factors impacting corporate responsibility but also suggests the development of measurement scales for future studies, providing valuable insights for	Bindhu & Shailashri, (2023). [39]



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		academics, researchers, and HR policymakers seeking to boost employee productivity.	
21	Fostering corporate sustainability through disclosures in education"	The paper focuses on evaluating the efficacy of the ABCD analysis method in comprehensively analyzing corporate sustainability disclosures within the context of education. Furthermore, the research has utilized factor analysis and elementary analysis to delve more profoundly into this realm, providing insightful contributions to the current body of literature concerning sustainability reporting and educational practices.	Nayak & Kayarkatte, (2022). [40]
22	Agricultural stakeholders	This research investigates the roles of stakeholders in the modern agriculture program's use of agricultural machinery to better serve farmers. Using the ABCD analysis method, it explores the involvement, influence, interests, and relationships of various parties involved in contemporary agricultural programs. The study's findings highlight the applicability of the ABCD technique for all agricultural stakeholders, revealing significant insights through quantitative analysis and focus group engagement.	Kambali et al., (2023). [41]
23	Green banking practices and products	The investigation utilized the ABCD analysis framework to appraise the feasibility of a concept or idea, with a particular emphasis on individual characteristics, system attributes, and the overall efficacy of the proposed plan or concept. Additionally, the study delves into the identification of constitutionally relevant traits in the analysis.	Prabhu & Aithal, (2023). [42]
24	The business strategy employed by millennials for engaging customers online.	Investigated the strategic business model of millennials' online customer engagement using the ABCD analysis framework. The focus is on identifying key factors influencing the proposed model by assessing its Advantages, Benefits, Constraints, and Disadvantages constructs. By employing an integrated qualitative and quantitative methodology, the study seeks to identify the most impactful elements within each of these four constructs of the model.	Raghavan & Pai, (2023). [43]
25	Assessment of local media's engagement with the youth audience	This study explores the engagement of the youth audience in local media using the ABCD analysis framework to identify key factors impacting the proposed model. Utilizing a combination of qualitative and quantitative methods, data was gathered through focus group discussions and pre-designed response sheets. The results highlight that the advantage and benefit components exert a more positive influence on the youth audience and local media in comparison to constraints and disadvantages. Notably, the study contributes to originality by extensively employing the ABCD analysis framework as a tool for business model analysis, incorporating insights from previous research using the same	Lobo & Bhat, (2023). [44]



		framework, and suggesting novel research directions for youth audiences and local media.	
26	Consumer perspectives on home furniture purchases	The study has made a comprehensive understanding of the development of the ABCD framework for examining in-store transactions and consumer perspectives on home furnishings. From a stakeholder perspective, the research facilitates the identification, evaluation, and comprehension of crucial factors, concerns, and significant attributes influencing elements such as advantages, benefits, constraints, and consequences of disadvantages. Additionally, the study aims to pinpoint the key determinants influencing all in-store purchases of home furnishings products.	Amin & Kumar, (2023). [45]
27	Viability of engaging in business within the base of the pyramid market	This research focuses on the quantitative analysis of the ABCD framework within the Base of the Pyramid (BoP) market context. It assesses stakeholders' perceptions regarding its attractiveness, feasibility, profitability, and potential for sustainable business generation. Utilizing a systematic literature review and a quantitative approach involving the focus group method, the research identifies essential constituent elements and their attributes within the ABCD framework. The study demonstrates the framework's effectiveness in formulating a viable business model for successful penetration of the BoP segment.	Raj & Aithal, (2022). [46]
28	Private university operations	Utilizing the analytical lens of the ABCD approach, scholars in this study have delved into a comprehensive exploration. Within the spectrum of six pivotal variables, the operational dynamics of a university emerge prominently. These variables encapsulate challenges spanning governance, leadership, innovation, and best practices. Moreover, the research explores aspects related to the organizational facets, student advancement, faculty growth, communal and past stakeholder considerations, and issues surrounding various challenges.	Muduli et al., (2019). [47]
29	Online food delivery facilities	The study has traced the evolution of the ABCD framework applied to the analysis of online food delivery services. It has uncovered and assessed the key issues and attributes influencing advantages, benefits, constraints, and disadvantages.	Frederick & Bhat, (2022). [48]
30	Six thinking hat	The ABCD analysis framework is applied to evaluate the Six Thinking Hat techniques, encompassing an examination of organizational barriers, conceptual uncertainties, operational issues, managerial challenges, and concerns related to society and stakeholders.	Aithal et al., (2016). [49]



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31	Generating value via corporate social responsibility	The objective of this research was to examine the ABCD analytical frameworks concerning Corporate Social Responsibility (CSR) to identify crucial constituent elements and factors influencing value creation through CSR. The quantitative analysis within the ABCD framework revealed a significant emphasis on favourable variables in the context of value generation through CSR, with benefit factors closely trailing. The results suggest that CSR offers more advantages and benefits than limitations and drawbacks, highlighting its effectiveness in value creation.	Dsouza & K. V. M. Varambally, (2023). [50]
32	Significance of ancient Indian education in contemporary educational systems.	This study examines the rich educational traditions of ancient India, emphasizing contributions like the decimal system and Vedic teachings. It draws parallels between ancient and modern education, highlighting the continuity of practices such as yogic techniques and memory enhancement methods. Utilizing the ABCD approach, the study thoroughly examines the strengths, merits, limitations, and drawbacks of the current education system, considering viewpoints from both students and educators.	Mishra & Aithal, (2023). [51]
33	Optimizing resources through the circular economy	The study utilizes systematic review, SWOC, and ABCD analyses to underscore the importance of the circular economy for resource optimization, offering valuable insights into its significance and opportunities in various industries.	Aithal & Aithal, (2023). [52]
34	Performance metrics for researchers at various levels and approaches for attainment.	The study emphasizes the critical role of Key Performance Indicators (KPIs) for academic researchers at different career stages, from Ph.D. to post-doctorate levels, and for research supervisors. Using an exploratory research method, the study identifies and analyzes numerous KPIs, employing the ABCD analysis framework. The results underscore the structured guidance offered by these Key Performance Indicators (KPIs) to improve research output, influence, and cooperative efforts, thus influencing the career paths of academic researchers.	Aithal & Aithal, (2023). [53]
35	Employability prediction model for management students	This article tackles the increasing need for management education and its implications for evaluating students' employability. Through an examination of employability models in the literature, especially those incorporating machine learning, the research seeks to construct a predictive model for employability. Applying ABCD analysis, the results underscore the critical requirement for a precise model to assist both students and faculty. Moreover, the research highlights shortcomings in existing models that evaluate the uncertainty associated with assessing	Crasta & Shailashri, (2023). [54]



the	quality	of	outcomes	from	educational
insti	itutions in	the	managemer	nt doma	ain.

4.2 ABCD Analysis of Factors Influencing Share Price Volatility in the Indian Pharmaceutical Sector:

Advantages:

Advantages associated with understanding the factors influencing share price volatility in the Indian pharmaceutical industry:

- Informed Decision-Making: Knowledge of influencing factors empowers stakeholders to make well-informed decisions regarding investments and strategic moves.
- Risk Mitigation: Understanding the factors contributing to share price volatility allows for better risk assessment and mitigation strategies.
- Strategic Planning: Insights into these factors enable the formulation of strategic plans to capitalize on opportunities and navigate challenges in the market.
- Investor Confidence: A transparent understanding of share price drivers enhances investor confidence, attracting and retaining stakeholders.
- Market Competitiveness: Awareness of influencing factors helps pharmaceutical companies stay competitive by adapting to market dynamics effectively.
- Resource Allocation: Efficient allocation of resources based on a comprehensive analysis of share price determinants ensures optimal financial management.
- Regulatory Compliance: Knowledge of factors influencing share prices helps companies stay compliant with regulatory changes, reducing legal and financial risks.
- Stakeholder Communication: Clear communication with investors, analysts, and other stakeholders is facilitated when armed with insights into share price volatility drivers.
- Operational Efficiency: Companies can streamline operations by addressing key factors affecting share prices, leading to improved overall efficiency.
- Market Positioning: Understanding share price dynamics assists in positioning pharmaceutical companies strategically within the market.
- Anticipation of Trends: Awareness of influencing factors enables companies to anticipate market trends and stay ahead of industry shifts.
- Long-Term Planning: Companies can develop robust long-term plans by considering the persistent and evolving factors affecting share prices.
- Financial Performance Analysis: Factors influencing share prices provide valuable inputs for assessing financial performance and planning for future growth.
- Investment Attraction: Transparent insights into share price determinants make pharmaceutical companies more attractive to potential investors.
- Dynamic Adaptation: With a deep understanding of factors influencing share prices, companies can adapt dynamically to changing market conditions.
- Enhanced Credibility: Accurate analysis and communication of share price determinants enhance the credibility of pharmaceutical companies in the financial market.
- Effective Communication: Companies can communicate their financial health more effectively to shareholders, fostering trust and credibility.
- Strategic Alliances: Knowledge of share price drivers facilitates the formation of strategic alliances and collaborations within the pharmaceutical industry.
- Performance Benchmarking: Companies can benchmark their performance against industry standards by considering factors influencing share prices.
- Valuation: Understanding these factors contributes to more accurate company valuations, aiding potential investors and stakeholders in decision-making.

Benefits:

Benefits associated with understanding the factors influencing share price volatility in the Indian pharmaceutical industry:

• Improved Investment Returns: A nuanced understanding of share price determinants enables investors to make informed decisions, potentially leading to improved investment returns.



- Risk Diversification: Knowledge of factors influencing share prices allows investors to diversify their portfolios effectively, managing risk exposure in the pharmaceutical sector.
- Strategic Investment Planning: Investors can strategically plan their investments based on a comprehensive analysis of share price drivers, optimizing their overall investment strategy.
- Timely Decision-Making: Access to insights on share price volatility factors facilitates timely decision-making for investors looking to capitalize on market opportunities or mitigate risks promptly.
- Enhanced Portfolio Management: Investors can manage their portfolios more effectively by aligning their investment strategies with the factors affecting share prices in the pharmaceutical industry.
- Economic Exposure: Understanding share price determinants allows investors to gauge their economic exposure to the pharmaceutical sector, making well-informed decisions about their financial positions.
- Long-Term Wealth Creation: Informed investment decisions based on a deep understanding of share price dynamics contribute to long-term wealth creation for investors.
- Increased Investor Confidence: Transparent communication about the factors influencing share prices enhances investor confidence, attracting more investment into the pharmaceutical industry.
- Alignment with Financial Goals: Investors can align their financial goals and objectives with the market dynamics, optimizing their investment strategies for both short-term gains and long-term growth.
- Opportunistic Investing: Knowledge of share price determinants enables investors to identify and seize opportunistic investment moments in the ever-changing pharmaceutical market.
- Strategic Asset Allocation: Investors can strategically allocate their assets by considering the influencing factors, ensuring a balanced and diversified investment portfolio.
- Market Timing: A clear understanding of share price determinants aids investors in effective market timing, maximizing their returns while minimizing risks.
- Active Portfolio Adjustments: Investors can make active adjustments to their portfolios based on changes in the factors influencing share prices, adapting to evolving market conditions.
- Optimized Risk-Reward Ratio: Investors can optimize their risk-reward ratio by making calculated investment decisions informed by a comprehensive analysis of share price drivers.
- Adaptability to Market Trends: Investors can adapt their investment strategies to align with emerging market trends and dynamics, staying ahead of shifts in the pharmaceutical sector.
- Mitigation of Financial Losses: Awareness of share price determinants enables investors to mitigate potential financial losses by making well-informed and timely adjustments to their investment portfolios.
- Enhanced Due Diligence: Investors can conduct more thorough due diligence by considering the factors influencing share prices, ensuring a more informed approach to investment decisions.
- Competitive Investment Edge: Investors who understand the factors affecting share prices gain a competitive edge, making strategic investment decisions that set them apart in the financial market.
- Valuation Assessment: Investors can more accurately assess the valuation of pharmaceutical companies, making investment decisions based on a clearer understanding of market value.
- Optimized Returns: Ultimately, understanding the factors influencing share prices in the pharmaceutical industry allows investors to optimize their returns by making well-calculated and strategic investment choices.

Constraints:

List of constraints associated with understanding the factors influencing share price volatility in the Indian pharmaceutical industry:

• Market Uncertainty: Share prices are influenced by unpredictable factors, introducing market uncertainty.



- Regulatory Risks: Stringent and evolving regulations pose challenges for predicting share price movements.
- External Economic Factors: Economic downturns, inflation, and external economic factors impact share prices beyond control.
- Research and Development Risks: Share prices are tied to the success or failure of research and development efforts, exposing investors to inherent risks.
- Competitive Landscape: Intense competition within the industry can lead to sudden market shifts, and challenging prediction and response.

Disadvantages:

List of disadvantages associated with understanding the factors influencing share price volatility in the Indian pharmaceutical industry:

- Global Supply Chain Risks: Disruptions in the global supply chain impact production and distribution, affecting share prices.
- Clinical Trial Outcomes: Sensitivity of share prices to unexpected outcomes of clinical trials introduces uncertainty.
- Intellectual Property Risks: Risks associated with patent expirations or legal challenges can adversely affect share prices.
- Currency Fluctuations: Global operations expose stakeholders to currency fluctuations, impacting financial results and share prices.
- Public Perception and Image: Negative public perception or controversies can lead to reputational damage, impacting share prices.
- Product Liability Issues: Unexpected product liability issues, such as recalls or adverse effects, can impact share prices negatively.
- Healthcare Policy Changes: Shifts in healthcare policies or government interventions introduce uncertainties, impacting share prices.
- Dependency on Key Personnel: Share prices are influenced by the departure or absence of key personnel, introducing risk associated with leadership changes.
- Market Sentiment: Share prices are heavily influenced by market sentiment, rumors, or speculative trading, leading to short-term fluctuations.
- Macro-Economic Factors: Broader macro-economic trends, such as interest rate changes or geopolitical events, can introduce volatility.
- Lack of Information Transparency: Limited transparency in financial reporting or insufficient information disclosure poses challenges for investors.
- Technological Disruptions: Rapid technological advancements or disruptions can impact the market landscape, influencing share prices.
- Supply and Demand Dynamics: Fluctuations in demand or disruptions in the supply chain introduce uncertainties, affecting share prices.
- Market Speculation: Excessive speculation in the stock market can lead to short-term price volatility.

Investigating the appropriateness of employing the ABCD analysis framework for a comprehensive analysis of factors influencing share price volatility in the Indian pharmaceutical industry reveals a clear alignment between the framework's structured approach and the study's objectives. The extensive advantages underscore ABCD's suitability, providing a systematic and informed platform for decision-making, risk mitigation, and strategic planning. Additionally, the framework addresses challenges, such as potential biases and constraints, ensuring a transparent and rigorous analysis. ABCD's capacity for dynamic adaptation, efficient resource allocation, and anticipation of trends resonates with the industry's complex dynamics, making it an apt choice for unraveling the nuanced factors impacting share prices. The outlined benefits, constraints, and disadvantages further emphasize that ABCD is not only suitable but integral for yielding valuable insights into the volatile landscape of the Indian pharmaceutical sector.



5. LITERATURE SURVEY OF FACTOR AND ELEMENTARY ANALYSIS USING ABCD FRAMEWORK :

To advance our exploration of factor and elementary analysis within the ABCD framework, reference has been made to pertinent scholarly publications. Table 2 displays the determinant issues identified through the ABCD framework in academic publications about diverse subject areas.

Table 2: Review of Scholarly Publications of ABCD Analysis Related to Various Domains and their	
Determinant Issues	

S.No.	Focus	Determinant Issues	References
1	The idea of optimal software and scenarios for its actualization	Operational, transitional, maintenance, output, environment	Aithal & Pai T, (2016). [55]
2	Task Shifting: An optimal alternative for addressing shortages in professional healthcare personnel	Organizational, alternative acceptors, donor physicians,	Aithal & Aithal, (2017). [56]
3	Attraction and propulsion strategies of female entrepreneurs in the food processing industry	customer, operational, and social,	D'Silva & Ganesha, (2023). [57]
4	Aligning corporate social responsibilities with green banking practices: evaluating customer attraction and retention perspectives in selected Indian banks	of directors, society, government,	Prabhu & Aithal, (2023). [58]
5	Promoting Emotional Intelligence Among College Educators	8	Santhumayor, (2023). [59]

6. KEY ATTRIBUTES AFFECTING SHARE PRICE VOLATILITY IN THE INDIAN PHARMACEUTICAL SECTOR :

The critical factors impacting share price volatility within the Indian Pharma Industry are thoroughly explored and analyzed by identifying key attributes associated with each determinant issue. These attributes serve as essential characteristics for discerning the influencing factors within each construct. Table 3 provides an overview of determinant issues and their significant key attributes in the context of factors driving share price volatility in the Indian Pharma Industry.

Table 3: Determinant Issues and Key Attributes of Factors Influencing Share Price Volatility Analysis

 within the Indian Pharma Industry

S.	Determinant Issues	Key Attributes
No.		
1	Pharmaceutical Industry Issues	Market Trends, Regulatory &
		Policy Changes, Competitive
		Landscape
2	Stakeholder Issues	Investor Sentiment, Institutional
		Holdings, Analyst
		Recommendations
3	Financial Performance Issues	Revenue Growth, Profit Margins,
		Debt Levels
4	External Economic Issues	GDP Trends, Interest Rates,
		Currency Exchange Rates



5	Research and Development Issues	Pipeline Succ	ess, Patent
		Expirations, Innov	ation Trends
6	Global Health Event Issues	Pandemics,	Epidemics,
		Healthcare Policy	Changes

This investigation centers on a systematic ABCD analysis aimed at exploring the factors influencing share price volatility within the Indian pharmaceutical sector. It is crucial to acknowledge that aside from the factors examined in this study, numerous other variables could potentially exert an impact on stock prices. These factors include supply chain resilience, product portfolio diversity, technological innovation, social responsibility, government policies, mergers and acquisitions, legal compliance, market perception, customer satisfaction, brand reputation, and political stability. While recognizing their relevance, these factors have been excluded from the current analysis due to the need for a targeted and in-depth examination of specific attributes that can be effectively captured within the structured framework of ABCD analysis. The ABCD method inherently requires a focused approach to systematically evaluate and quantify key aspects, and including an exhaustive list of variables may dilute the precision and depth of the analysis. Additionally, data limitations and the need for a manageable scope play a significant part in the selection of factors for the ABCD analysis. Future studies with a broader scope may delve into the influence of these excluded factors for a more holistic understanding of the intricate dynamics surrounding share price fluctuations in the Indian pharmaceutical sector.

7. FACTOR ANALYSIS OF FORCES DRIVING SHARE PRICE VOLATILITY IN THE INDIAN PHARMACEUTICAL SECTOR USING ABCD FRAMEWORK :

Analyzing the determinants of the pivotal attributes associated with the dynamics of share price volatility in the Indian Pharmaceutical Industry involves discerning the Advantages, Benefits, Constraints, and Disadvantages within the ABCD framework. Table 4 exemplifies a factor analysis within the ABCD framework, elucidating the exploration of factors influencing share price fluctuations in the Indian Pharmaceutical Industry.

Determinant	Key	Advantages	Benefits	Constraints	Disadvantages
Issues	Attributes				
Pharmaceutical Industry Issues	Market Trends	Informed decision- making based on trends	Strategic planning opportunities	Imitation by competitors	Limited market growth due to trend uncertainties
	Regulatory & Policy Changes	Adaptability to regulatory shifts	Compliance with industry standards	Operational disruptions due to sudden changes	Regulatory hurdles impacting business operation
	Competitive Landscape	Awareness of industry competition	Strategic positioning in the market	Increased competition leads to price wars	Market share erosion and reduced profitability
Stakeholder Issues	Investor Sentiment	Attraction of investment with positive sentiment	Increased liquidity and value of shares	Volatility in sentiment affecting investments	Negative sentiment leading to stock devaluation
	Institutional Holdings	Stability in ownership structure	Long-term commitment from institutional investors	Restrictions on decision- making due to	Potential conflicts of interest among stakeholders

Table 4: Factors Affecting Key Attributes Under the ABCD Framework



Analyst RecommendationsIncreased investorPositive impact on share pricesOwerreliance on analyst opinionsUnreliable o biased analy recommendatFinancial Performance IssuesRevenue GrowthIndicates business health and potentialAttracts investors and stakeholdersDependent on market confidenceRevenue dec may lead to financial instabilityProfit MarginsReflects efficiency and potentialIndicates financial sustainabilityHigh competition marginsNarrow prof margins may hinder grow profitabilityDebt LevelsProvides insight into financial leverageAccess to capital for capital for expansionHigh debt can lead to financial financial financial financial financial expansionDebt burden limit financi financial financia	t tions line t h may
Analyst RecommendationsIncreased investor confidencePositive impact on share pricesOverreliance on analyst opinionsUnreliable o biased analy recommendatFinancial Performance IssuesRevenue GrowthIndicates business health and potentialAttractsDependent on market investors and 	t tions line t h may
Recommendationsinvestor confidenceon share priceson analyst opinionsbiased analy recommendatFinancial Performance IssuesRevenue GrowthIndicates businessAttracts investors and stakeholdersDependent on market conditionsRevenue dec may lead to financial instabilityProfit MarginsReflects efficiency and 	t tions line t h may
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Performance Issuesbusiness health and potentialinvestors and stakeholderson market conditionsmay lead to financial instabilityProfit MarginsReflects efficiency and 	t h may
Performance Issuesbusiness health and potentialinvestors and stakeholderson market conditionsmay lead to financial 	t h may
Issueshealth and potentialstakeholdersconditionsfinancial instabilityProfit MarginsReflects efficiency and profitabilityIndicatesHigh financial 	h may
potentialinstabilityProfit MarginsReflectsIndicatesHighNarrow profefficiencyfinancialcompetitionmargins mayandsustainabilitymayhinder grownprofitabilityprofitabilitypressuremarginsDebt LevelsProvidesAccess toHigh debtDebt burdeninsight intocapital forcan lead tolimit financialfinancialexpansionfinancialflexibilityleveragerisksriskseconomicIssuesGDP TrendsCorrelatesBusinessEconomicIssuesInterest RatesAffectsStrategicHigh-Interest RatesAffectsStrategicHigh-Economicinvestmentscosts andplanningmay deterhigh borrowcurrencyImpactsDiversificationExchangeCurrency	h may
Profit MarginsReflects efficiency and profitabilityIndicates financial sustainabilityHigh competition 	h may
efficiency and profitabilityfinancial sustainabilitycompetition 	h may
and profitabilitysustainabilitymay pressure marginshinder growthDebt LevelsProvides 	h may
Provides insight into financial leverageAccess to 	may
Debt LevelsProvides insight into financial leverageAccess to capital for expansionHigh debt can lead to financial financial financial flexibilityExternal Economic IssuesGDP TrendsCorrelates with economic healthBusiness growth opportunitiesEconomic may impact businessReduced consumer spending dur businessInterest RatesAffects borrowing investmentsStrategicHigh- costsEconomic borrowing financial interest ratesStrategic high- borrow investmentsHigh- costs	
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Exchange Dates intermedianel in state 1 1 1	
Exchange Rates international in global rate depreciation	
trade and markets fluctuations affects profit	3
revenue pose risks	
Research and Pipeline Success Ensures a Competitive High Pipeline faile	res
Development steady flow edge in the investment may lead to	
Issues of innovative market risk in revenue loss	
products unsuccessful	
projects	
Patent Expirations Encourages Secures market Increased Loss of	
continuous share for competition exclusivity r	lav
innovation patented post-patent impact profi	-
and market products expiration	-
exclusivity	
Innovation Trends Aligns the Attracts Rapid Failure to ad	ant
business with customers with changes may lead to	۰pt
evolving new offerings may require obsolescence	
market needs frequent	
Global HealthPandemicsFocus onIncreasedSupplyRegulatory	
Events Issues healthcare demand for chain changes	
solutions and pharmaceuticals disruptions impacting	
innovation and business	
operational operations	
challenges	
EpidemicsOpportunitiesEnhancedGlobalPublic fear	
for vaccine reputation for economic impacts	
development health solutions uncertainty consumer	
behavior	



			may affect business	
Healthcare Policy Changes	Adaptation to evolving healthcare regulations	Alignment with industry standards	Increased compliance burden on businesses	Policy changes may lead to increased costs

8. ELEMENTARY ANALYSIS BASED ON CRITICAL CONSTITUENT ELEMENTS :

This section offers an in-depth examination of the fundamental constituent elements linked to each primary characteristic within the designated focus domain, concerning the structure of the ABCD analysis framework. Tables 5 through 8 presented below display the recognized Critical Constituent Elements (CCE) for advantageous, beneficial, constraining, and disadvantageous factors, respectively.

Table 5: Advantageous	Factors Affecting the	Determinant Issues	and Its Critical	Constituent Elements
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Determinant Issues	Key Attributes	Advantageous Factors Affecting	Critical Constituent Elements
		Determinant Issues	
Pharmaceutical Industry Issues	Market Trends	Informed decision- making based on trends	Timely adaptation to market trends for strategic planning
	Regulatory & Policy Changes	Adaptability to regulatory changes	Implementation of agile regulatory strategies for compliance
	Competitive Landscape	Awareness of industry competition	Competitive Intelligence Framework
Stakeholder Issues	Investor Sentiment	Attraction of investment with positive sentiment	Enhanced trust and confidence, attracting more investment
	Institutional Holdings	Stability in ownership structure	Promotes long-term commitment and stability, fostering a conducive environment for sustainable business growth.
	Analyst Recommendations	Accurate recommendations leading to increased investor confidence	Favorable and Consistent Analyst Endorsements
Financial Performance	Revenue Growth	Indicates business health and potential	Strategic planning for market expansion and revenue streams
Issues	Profit Margins	Reflects efficiency and profitability	Cost management strategies and operational efficiency
	Debt Levels	Provides insight into financial leverage	Effective debt management and risk mitigation
External Economic Issues	GDP Trends	Correlates with economic health	Informed economic decision-making
	Interest Rates	Affects borrowing costs and investments	Effective management of interest rate risks
	Currency Exchange Rates	Impacts international trade and revenue	Currency risk mitigation strategies
Research and Development Issues	Pipeline Success	Ensures a steady flow of innovative products	Continuous investment in research and development
	Patent Expirations	Encourages continuous	Strategic planning for patent renewal



		innovation and market exclusivity	
	Innovation Trends	Aligns the business with evolving market	Flexibility and adaptability to changing trends
Global Health Events Issues	Pandemics	needs Focus on healthcare solutions and innovation	Strategic planning for healthcare solution delivery
	Epidemics	Opportunities for vaccine development	Ongoing investment in vaccine research and development
	Healthcare Policy Changes	Adaptation to evolving healthcare regulations	Regulatory compliance and policy adaptability

Determinant	Key Attributes	Beneficial Factors	Critical Constituent Elements
Issues		Affecting	
		Determinant	
		Issues	
Pharmaceutical Industry Issues	Market Trends	Strategic planning opportunities	Enhanced strategic decision-making
industry issues	Regulatory &	Compliance with	Adherence to stringent industry
	Policy Changes	industry standards	standards and guidelines
	Competitive	Strategic	Effective strategic planning and market
	Landscape	positioning in the market	positioning
Stakeholder Issues	Investor Sentiment	Increased liquidity	Robust investor relations and
		and value of shares	communication
	Institutional	Long-term	Consistent engagement and
	Holdings	commitment from	collaboration with institutions
		institutional	
		investors	
	Analyst	Positive impact on	Reliability and accuracy in analyst
	Recommendations	share prices	recommendations
Financial	Revenue Growth	Attracts investors	Sustainable business growth and
Performance Issues		and stakeholders	market appeal
	Profit Margins	Indicates financial	Efficient cost management and
		sustainability	profitability
	Debt Levels	Access to capital for	Prudent debt management and capital
		expansion	allocation
External Economic	GDP Trends	Business growth	Strategic alignment with economic
Issues		opportunities	growth prospects
	Interest Rates	Strategic financial	Flexible financial strategies and risk
		planning	management
	Currency Exchange	Diversification in	Robust currency risk management and
Research and	Rates	global markets	global expansion
	Pipeline Success	Competitive edge in	Continuous innovation and product
Development Issues	Dotont Expirations	the market Secures market	development strategies Effective patent portfolio management
	Patent Expirations	share for patented	and renewal strategies
		products	and renewal strategies
	Innovation Trends	Attracts customers	Market-driven innovation and agile
		with new offerings	product development
		with new offerings	product development



Global Health	Pandemics	Increased demand	Efficient supply chain management
Events Issues		for pharmaceuticals	and production
	Epidemics	Enhanced	Effective crisis communication and
		reputation for health	public relations
		solutions	-
	Healthcare Policy	Alignment with	Adaptability to regulatory changes and
	Changes	industry standards	compliance

Table 7: Constraint Factors Affect	ting the Determinant Issues and its Critical Constituent Elements

Determinant Issues	Key Attributes	Constraints Factors	Critical Constituent Elements
		Affecting Determinant Issues	
Pharmaceutical Industry Issues	Market Trends	Imitation by competitors	Loss of competitive advantage due to imitation by competitors
	Regulatory & Policy Changes	Operational disruptions due to sudden changes	Potential disruption in operations leading to inefficiencies and difficulties in adapting to regulatory shifts
	Competitive Landscape	Increased competition leads to price wars	Reduced profit margins
Stakeholder Issues	Investor Sentiment	Volatility in sentiment affecting investments	Increased uncertainty impacting investment decisions and stock values
	Institutional Holdings	Restrictions on decision-making due to ownership structure	Limited flexibility in strategic decisions and potential missed opportunities.
	Analyst Recommendations	Overreliance on analyst opinions	Vulnerability to biased or unreliable information affecting decision-making
Financial Performance Issues	Revenue Growth	Dependent on market conditions	Vulnerability to economic fluctuations affecting revenue unpredictability.
	Profit Margins	High competition may pressure margins	Reduced profit margins due to competitive pricing pressures.
	Debt Levels	High debt can lead to financial risks	Increased financial instability and potential difficulties in debt repayment.
External Economic Issues	GDP Trends	Economic downturn may impact business	Reduced market growth and potential financial instability.
	Interest Rates	High-interest rates may deter investments	Limited access to capital for expansion and increased borrowing costs.
	Currency Exchange Rates	Exchange rate fluctuations pose risks	Business uncertainties due to variations in international currency values.
Research and Development Issues	Pipeline Success	High investment risk in unsuccessful projects	Financial losses and potential setbacks in innovation.



	Patent Expirations	Increased competition post- patent expiration	Loss of market exclusivity and intensified competitive pressures.
	Innovation Trends	Rapid changes may require frequent adaptations	Increased operational complexities and potential resource drain.
Global Health Events Issues	Pandemics	Supply chain disruptions and operational challenges	Disruption in the production and delivery of pharmaceutical products.
	Epidemics	Global economic uncertainty may affect business	Financial instability and challenges in strategic planning
	Healthcare Policy Changes	Increased compliance burden on businesses	Higher operational costs and potential legal and regulatory challenges

Table 8:	Disadvantageous	Factors	Affecting	the	Determinant	Issues	and	its	Critical	Constituent
Elements										

Determinant Issues	Key Attributes	Disadvantageous Factors Affecting Determinant Issues	Critical Constituent Elements
Pharmaceutical Industry Issues	Market Trends	Limited market growth due to trend uncertainties	Missed opportunities for expansion and reduced market share.
	Regulatory & Policy Changes	Regulatory hurdles impacting business operation	Increased operational challenges and potential legal issues
	Competitive Landscape	Market share erosion and reduced profitability	Financial losses and decreased competitiveness in the market
Stakeholder Issues	Investor Sentiment	Negative sentiment leading to stock devaluation	Decreased market capitalization and shareholder value
	Institutional Holdings	Potential conflicts of interest among stakeholders	Erosion of trust and credibility, affecting long-term investments
	Analyst Recommendations	Unreliable or biased analyst recommendations	Misinformed investment decisions and potential financial risks
Financial Performance Issues	Revenue Growth	Revenue decline may lead to financial instability	Increased financial risks and potential business downturn
	Profit Margins	Narrow profit margins may hinder growth	Limited resources for expansion and reduced competitiveness
	Debt Levels	Debt burden may limit financial flexibility	Constraints in financial manoeuvrability, and investment
External Economic Issues	GDP Trends	Reduced consumer spending during recessions	Decreased demand for products and potential revenue loss
	Interest Rates	Economic slowdown due to high borrowing costs	Constraints on business investments and growth



	Currency Exchange	Currency depreciation	Reduced profitability in
	Rates	affects profits	international transactions
Research and	Pipeline Success	Pipeline failures may	Increased financial risks and
Development Issues		lead to revenue loss	potential business downturn
	Patent Expirations	Loss of exclusivity may	Constraints on market share and
		impact profits	potential revenue decline
	Innovation Trends	Failure to adapt may	Reduced competitiveness and
		lead to obsolescence	potential loss of market relevance
Global Health	Pandemics	Regulatory changes	Operational disruptions, increased
Events Issues		impacting business	costs, and potential losses
		operations	
	Epidemics	Public fear impacts	Decline in consumer confidence
		consumer behavior	and changes in buying patterns
	Healthcare Policy	Policy changes may lead	Financial strain, potential
	Changes	to increased costs	operational challenges, and costs

9. QUANTITATIVE CRITICAL CONSTITUENT ELEMENTS OF FACTORS DRIVING SHARE PRICE VOLATILITY IN THE INDIAN PHARMA INDUSTRY AS PER ABCD ANALYSIS :

The critical constituent elements for each key attribute within the construct of the ABCD analysis framework for the factors impacting share price volatility in the Indian Pharmaceutical Industry are presented below:

The allocation of weights to each vital component is decided by the focus group, utilizing the subsequent ranking scale:

1 - Disagree

2 -Neutral

3 - Agree

The information gathered from the focus group is subsequently examined, and the findings are presented in Tables 9 to 12.

Determinant Issues	Key Attributes	Advantageous Factors Affecting Determinant Issues	Critical Constituent Elements	Key Attributes (Total Score)	Determinant Issues (Total Score)	Total Mean Score
Pharmaceutical Industry Issues	Market Trends	Informed decision- making based on trends	Timely adaptation to market trends for strategic planning	30		
	Regulatory & Policy Issues	Adaptability to regulatory changes	Implementation of agile regulatory strategies for compliance	28	84	
	Competitive Landscape	Awareness of industry competition	Competitive Intelligence Framework	26		
Stakeholder Issues	Investor Sentiment	Attraction of investment with positive sentiment	Enhanced trust and confidence, attracting more investment	28	85	

Table 9: Exhibits of Advantageous Factors of Forces Driving Share Price Volatility in the Ind	lian
Pharma Industry and their Critical Constituent Elements with the Summative Mean Score	



r		T	1	1	T	
	Institutional Holdings	Stability in ownership structure	Promotes long- term commitment and stability, fostering a conducive environment for sustainable business growth.	29		155.1
	Analyst Recommendations	Accurate recommendatio ns leading to increased investor confidence	Favorable and Consistent Analyst Endorsements	28		
Financial Performance Issues	Revenue Growth	Indicates business health and potential	Strategic planning for market expansion and revenue streams	27		
	Profit Margins	Reflects efficiency and profitability	Cost management strategies and operational efficiency	29	84	
	Debt Levels	Provides insight into financial leverage	Effective debt management and risk mitigation	28		
External Economic Issues	GDP Trends	Correlates with economic health	Informed economic decision-making	29		
	Interest Rates	Affects borrowing costs and investments	Effective management of interest rate risks	28	86	
	Currency Exchange Rates	Impacts international trade and revenue	Currency risk mitigation strategies	29		
Research and Development Issues	Pipeline Success	Ensures a steady flow of innovative products	Continuous investment in research and development	27		
	Patent Expirations	Encourages continuous innovation and market exclusivity	Strategic planning for patent renewal	27	83	
	Innovation Trends	Aligns the business with evolving market needs	Flexibility and adaptability to changing trends	29		
Global Health Events Issues	Pandemics	Focus on healthcare	Strategic planning for	28	84	



	solutions and innovation	healthcare solution delivery		
Epidemics	Opportunities for vaccine development	Ongoing investment in vaccine research and development	29	
Healthcare Policy Changes	Adaptation to evolving healthcare regulations	Regulatory compliance and policy adaptability	27	

Table 10: Exhibits of Benefit Factors of Forces Driving Share Price Volatility in the Indian Pharma

 Industry and their Respective Critical Constituent Elements with the Aggregate Mean Score

Determinant Issues	Key Attributes	Benefit Factors Affecting Determinant Issues	Critical Constituent Elements	Key Attributes (Total Score)	Determinant Issues (Total Score)	Total Mean Score
Pharmaceutical Industry Issues	Market Trends	Strategic planning opportunities	Enhanced strategic decision- making	28		
	Regulatory & Policy Issues	Compliance with industry standards	Adherence to stringent industry standards and guidelines	29	87	
	Competitive Landscape	Strategic positioning in the market	Effective strategic planning and market positioning	30		
Stakeholder Issues	Investor Sentiment	Increased liquidity and value of shares	Robust investor relations and communication	29		
	Institutional Holdings	Long-term commitment from institutional investors	Consistent engagement and collaboration with institutions	28	86	
	Analyst Recommendations	Positive impact on share prices	Reliability and accuracy in analyst recommendations	29		
Financial Performance Issues	Revenue Growth	Attracts investors and stakeholders	Sustainable business growth and market appeal	28		
	Profit Margins	Indicates financial sustainability	Efficient cost management and profitability	28	85	152.4
	Debt Levels	Access to capital for expansion	Prudent debt management and capital allocation	29		
External Economic Issues	GDP Trends	Business growth opportunities	Strategic alignment with economic growth prospects	27	83	



	Interest Rates	Strategic	Flexible financial		
		financial	strategies and risk	27	
		planning	management		
	Currency	Diversification	Robust currency		
	Exchange Rates	in global	risk management	29	
		markets	and global	27	
			expansion		
Research and			Continuous		
Development			innovation and		
Issues		Competitive	product	28	
		edge in the	development		
	Pipeline Success	market	strategies		
		Secures market	Effective Patent		
		share for	portfolio	27	84
		patented	management and	21	
	Patent Expirations	products	renewal strategies		
			Market-driven		
		Attracts	innovation and	29	
		customers with	agile product	27	
	Innovation Trends	new offerings	development		
Global Health	Pandemics	Increased	Efficient supply		
Events Issues		demand for	chain	27	
		pharmaceuticals	management and	27	
			production		
	Epidemics	Enhanced	Effective crisis		
		reputation for	communication	28	81
		health solutions	and public	20	01
			relations		
	Healthcare Policy	Alignment with	Adaptability to		
	Changes	industry	regulatory	26	
		standards	changes and	20	
			compliance		

Table 11: Exhibits of Constraints Factors of Forces Driving Share Price Volatility in the Indian

 Pharma Industry and their Critical Constituent Elements with the Overall Mean Score

Determinant Issues	Key Attributes	Constraints Factors Affecting Determinant Issues	Critical Constituent Elements	Key Attributes (Total Score)	Determinant Issues (Total Score)	Total Mean Score
Pharmaceutical Industry Issues	Market Trends	Imitation by competitors	Loss of competitive advantage due to imitation by competitors	25	78	
	Regulatory & Policy Issues	Operational disruptions due to sudden changes	Potential disruption in operations leading to inefficiencies and difficulties in adapting to regulatory shifts	27		



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r	I	Γ	1			-
	Competitive Landscape	Increased competition leads to price wars	Reduced profit margins	26		
Stakeholder Issues	Investor Sentiment	Volatility in sentiment affecting investments	Increased uncertainty impacting investment decisions and stock values	26		144.8
	Institutional Holdings	Restrictions on decision- making due to ownership structure	Limited flexibility in strategic decisions and potential missed opportunities.	27	79	
	Analyst Recommendations	Overreliance on analyst opinions	Vulnerability to biased or unreliable information affecting decision- making	26		
Financial Performance Issues	Revenue Growth	Dependent on market conditions	Vulnerability to economic fluctuations affecting revenue unpredictability.	27		
	Profit Margins	High competition may pressure margins	Reduced profit margins due to competitive pricing pressures.	26	78	
	Debt Levels	High debt can lead to financial risks	Increased financial instability and potential difficulties in debt repayment.	25		
External Economic Issues	GDP Trends	Economic downturn may impact business	Reduced market growth and potential financial instability.	25		
	Interest Rates	High interest rates may deter investments	Limited access to capital for expansion and increased borrowing costs.	26	77	
	Currency Exchange Rates	Exchange rate	Business uncertainties due to	26		



		a:	• .• •			
		fluctuations	variations in			
		pose risks	international			
			currency			
			values.			
Research and	Pipeline Success	High	Financial losses			
Development		investment	and potential			
Issues		risk in	setbacks in	26		
		unsuccessful	innovation.			
		projects				
	Patent Expirations		Loss of market			
	1	Increased	exclusivity and			
		competition	intensified	26	77	
		post-patent	competitive			
		expiration	pressures.			
	Innovation Trends	Rapid	Increased			
		changes may	operational			
		require	complexities	25		
		frequent	and potential	25		
		adaptations	resource drain.			
Global Health	Pandemics	Supply chain	Disruption in			
Events Issues	1 andennes	disruptions	the production			
Events issues		and	and delivery of	26		
		operational	pharmaceutical	20		
		A	-			
	En 1. min	challenges	products.			
	Epidemics	Global .	Financial			
		economic	instability and			
		uncertainty	challenges in	25	76	
		may affect	strategic			
		business	planning			
	Healthcare Policy	Increased	Higher			
	Changes	compliance	operational			
		burden on	costs and	25		
		businesses	potential legal	23		
			and regulatory			
			challenges			

Table12: Exhibits of Disadvantageous Factors of Forces Driving Share Price Volatility in the Indian Pharma Industry and their Critical Constituent Elements with the Total Mean Score

Determinant Issues	Key Attributes	Disadvantageous Factors Affecting Determinant Issues	Critical Constituent Elements	Key Attributes (Total Score)	Determinant Issues (Total Score)	Total Mean Score
Pharmaceutical Industry Issues	Market Trends	Limited market growth due to trend uncertainties	Missed opportunities for expansion and reduced market share.	26		
	Regulatory & Policy Issues	Regulatory hurdles impacting business operation	Increased operational challenges and potential legal issues	26	77	
	Competitive Landscape	Market share erosion and	Financial losses and decreased	25		



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	1	Γ	Γ	1	1	1
		reduced	competitiveness in			
		profitability	the market			
Stakeholder	Investor	Negative	Decreased market			
Issues	Sentiment	sentiment leading	capitalization and	25		
		to stock	shareholder value.	20		
		devaluation			-	
	Institutional	Potential conflicts	Erosion of trust and			
	Holdings	of interest among	credibility,	25		
		stakeholders	affecting long-term		76	
		TT 1' 1 1	investments.		-	
	Analyst	Unreliable or	Misinformed			
	Recommend	biased analyst	investment	26		
	ations	recommendations	decisions and	26		
			potential financial risks.			
Financial	Revenue	Revenue decline	Increased financial			-
Performance	Growth	may lead to	risks and potential			
Issues	Glowin	financial	business downturn.	25		
155005		instability	ousiness downturn.			
	Profit	Narrow profit	Limited resources		-	
	Margins	margins may	for expansion and			
	1.1. Build	hinder growth	reduced	25	74	
		8	competitiveness			
	Debt Levels	Debt burden may	Constraints in		-	
		limit financial	financial	24		130.3
		flexibility	manoeuvrability,	24		
		-	and investment			
External	GDP Trends	Reduced	Decreased demand			
Economic		consumer	for products and	25		
Issues		spending during	potential revenue	25		
		recessions	loss		-	
	Interest Rates	Economic	Constraints on			
		slowdown due to	business	26	75	
		high borrowing	investments and	_		
	0	costs	growth			
	Currency	Currency	Reduced			
	Exchange	depreciation	profitability in international	24		
	Rates	affects profits	transactions			
Research and	Pipeline	Pipeline failures	Increased financial			-
Development	Success	may lead to	risks and potential	26		
Issue	Success	revenue loss	business downturn	20		
10000	Patent	Loss of	Constraints on		-	
	Expirations	exclusivity may	market share and			
	2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	impact profits	potential revenue	24	75	
			decline		, -	
	Innovation	Failure to adapt	Reduced		1	
	Trends	may lead to	competitiveness	25		
		obsolescence	and potential loss	25		
			of market relevance			
Global Health	Pandemics	Regulatory	Operational			
Issues		changes	disruptions,			
		impacting	increased costs, and	26	76	
		business	potential losses			
		operations				



Epidemics	Public fear impacts consumer behavior	Decline in consumer confidence and changes in buying patterns	25	
Healthcare Policy Changes	Policy changes may lead to increased costs	Financial strain, potential operational challenges, and costs	25	

10. GRAPHICAL REPRESENTATION OF AFFECTING FACTORS FOR FORCES DRIVING SHARE PRICE VOLATILITY IN THE INDIAN PHARMA INDUSTRY THROUGH ABCD ANALYSIS :

Figure 1 presents the aggregate mean score for elements influencing share price volatility within the Indian pharmaceutical sector, providing insights into the primary factor of influence according to the ABCD analysis framework.



Fig. 1: Exhibits of Total Mean Score of Factors Influencing Share Price Volatility in Indian Pharma Industry as per ABCD analysis framework

Interpretation:

The visualization presented above delineates the impact of factors on share price volatility through ABCD analysis. Results obtained from the focus group interaction, utilizing a scale ranging from 1 to 3, highlight a unanimous consensus among participants regarding the substantial positive influence of advantageous factors on share price volatility. This is evident in their elevated mean score of 155.1, signifying strong agreement among stakeholders on the pivotal role of these factors in shaping share prices. Moreover, the pronounced agreement on advantageous factors is mirrored in the focus group's recognition of the positive impact of benefits on share price volatility, reflected in a high mean score of 152.4. Participants widely acknowledge and agree on the favorable outcomes associated with these identified benefits, emphasizing the potential advantages for stakeholders. Conversely, constraints received a neutral mean score of 144.8, indicating a balanced or mixed perspective among participants. The absence of a strong inclination towards either agreement or disagreement suggests varied opinions about the impact of constraints on share prices. This neutrality implies a nuanced understanding among participants, highlighting the need for further exploration to comprehend the intricacies of these



constraining factors and their effects on share price dynamics. In contrast, disadvantages received a relatively lower mean score of 130.3, signaling a collective perception that participants are less inclined to view these factors as significant contributors to share price volatility. This lower mean score suggests a reduced level of agreement or conviction regarding the adverse effects of disadvantages on share prices. Unlike advantageous factors and benefits, participants may not perceive disadvantages as strongly influential in shaping share price dynamics according to their assessments.

11. CONCLUSIONS :

Investigating the factors influencing share price volatility in the Indian pharmaceutical sector, this study employed a comprehensive ABCD analysis framework. The results reveal a striking consensus among participants on the positive influence of advantageous factors, as reflected by the substantial mean score of 155.1. These findings contribute valuable insights into the dynamics of the sector and offer stakeholders a clearer understanding of the factors shaping share price volatility. Through this investigation, it becomes evident that the ABCD framework is well-suited for analyzing the factors driving share price volatility in the Indian pharmaceutical sector. The study showcases the framework's efficacy in comprehensively assessing various elements, strategies, and concepts specific to the industry. The implications of this research extend to informed decision-making for investors, policymakers, and industry players. Future studies could delve deeper into understanding the nuanced perspectives on constraining factors and explore potential correlations between identified factors and market trends, providing a more comprehensive picture for strategic decision-making in the Indian Pharmaceutical Sector.

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