A Review on Advanced Technology in Pharmaceutical Marketing

Mr. Durgesh Prajapat*, Mr. Dinesh Kumar, Ms. Shreya Singh

Assistant Professor in Career Point school of Pharmacy, Kota

Date of Submission: 14-12-2025 Date of acceptance: 27-12-2025

Abstract - According to a report by equities on the pharmaceutical industries master. the pharmaceutical industry in India market is the thirteenth biggest in terms of worth and the third largest in terms of volume. Approximately 70 to 80 percent % of the industry is made up of branded generics, which dominate the market. Though the pharmaceutical sector is thought to be highly fragmented, consolidation is becoming a significant aspect of the pharmaceutical industry in India now holds a leading position in the pharmaceutical industry worldwide. The nation is also home to sizable groups of engineers and scientists who might propel the sector to unprecedented heights. According to India Ratings, the Indian pharmaceutical industry is anticipated to grow at a compound annual growth rate (CAGR) of 20% during the next five year.

KEYWORDS: - Equities, Generics, Fragmented, Aspect, CAGR.

I. Introduction

The pharmaceutical market is characterized with the aid of very big promotional fees. A trade in the Food and Drug Administration's (FDA) regulation in August of 1997 has caused a chief shift in this direct-to-patron advertising (DTCA) of pharmaceuticals. Prior to this regulatory change, any DTC advertising that contained logo call and scientific claims needed to offer a "brief summary" of drug effectiveness, its facet effects, and any contraindications.

The pharmaceutical product that is prescribed (Rx) Sales representatives from the corresponding companies are promoting the products, and their designation According to the hierarchy that is being created or implemented in the organization, the article are titled Medical Representative, Sales Executive, Professional Service Executive, or Representative, and their Everyday operations are overseen or managed by the District Sales Manager, Area Sales Manager,

Regional Sales Manager, Zonal Sales Manager, or National Sales Manager.

Medical representatives and front-line staff are needed to interact with doctors and other health care providers to advertise the names and goods of the businesses they represent Time management is becoming of the most crucial abilities for everyone HCPs. When visiting the Out-Patient Department (OPD).

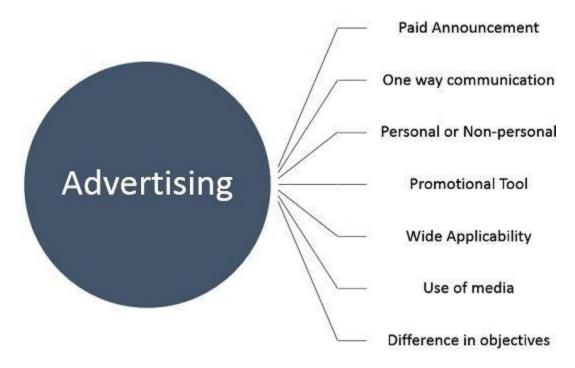
Advertising in scientific journals is one of techniques used by pharmaceutical organizations to sell their merchandise to medical doctors. Doctors use marketing in scientific journals as one of the foremost resources of statistics for newly marketed drugs. In 1988, the World Health Organization (WHO) mounted the Ethical standards for medication promotion. These criteria represent well-known standards for moral standards that can be adapted by governments to countrywide instances. Sales pressure inefficiency has been traditionally addressed by means of growing the numbers of in-house sales representatives.

II. POINTS TO REVIEW

Advertisement

A promotional communication reminds an audience about a good, intended to enlighten, convince, or service, or concept is called advertising. To reach its target audience, it usually uses support of media platforms, including print, radio, television, and online. Advertisements frequently employ innovative techniques to draw in viewers and sway their decisions to buy, such as memorable taglines, eye-catching imagery, and emotional appeals. The main objective of an advertisement is to increase consumer interest in a good or service, raise understanding of the brand, and eventually persuade the audience to take the required action or make a purchase to be able to support market and business expansion.

Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494



Type of Advertisement:-

Informative advertisement

There are techniques to investigation of the function of advertising within the economy. They are direct opposite. The first one, which were investigated by way of Kaldor (Kaldor, 1950), Bain (Bain, 1956). Mitra and Lynch (Mitra and Lynch, 1995) and others, grounds the capacity of advertising to augment the marketplace electricity of sure companies It is assumed hat persuasive advertising, which is orientated to the deformation of client's

utility feature, conduces to introduction and augment of market energy, at the same time as informative advertising decreases data asymmetry within the market that ends in the marketplace energy weakening.

Persuasive advertisement

In the age of consumerism, the role of advertising need to not be underestimated is it in phrases of developing enterprise and global dating, informing the society about new services and products, or drawing attention to critical social issues.

Classification of persuasive techniques in advertising

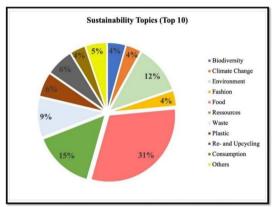
LOGOS		ETHOS	PATHOS	
•	Appeal to rationality	 Self – representation Appeal to authority 	 Seeking commonground Personal involvement Appeal to desires/preferences Appeal to state awareness Appeal to time awareness 	
			Appeal to benefitFlatter	

Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

Persuasive technology based on rational arguments (logos):-

Logos corresponds to the application of that logos – based persuasive rational argumentation as a way of technique appeal to rationality is reasoning that the receiver might explicated through, tripling, and accept. Sample analysis demonstrates quantitative sign.

Type of appeal	Frequency	Percentage
Pathos	99	55.00
Logos	75	41.67
Ethos	6	3.33
Total	180	100.00

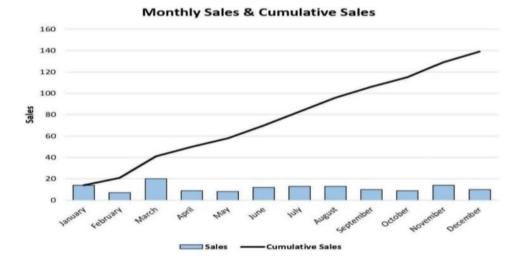


Reminder advertisement:-

The consensus that has emerged within the literature is that conceptually, companies pursue a aggregate of dreams when marketing they either intention at conveying data about the existence, characteristics, and charges of product; or they want to undoubtedly have an impact on the inclination of customers who already understand approximately their product to via gadget version of consumer behavior generally assert that now not making a purchase is deliberate desire.

In this case, purchaser may additionally cost being reminded through an advertisement. Before the cut-off date adverting leads in popular to each purchase and marketplace growth. We provide direct evidence

That advertising does no longer most effective have an effect on the timing of purchases, however also leads to market expiration, by means of showing that advertising has a quick-run effect until the cease of duration wherein tickets may be bought. After supplying this decreased from proof we increase and estimate a tractable structural version of purchaser behavior to degree the impact of advertising on overall income.



cumulative sales for selected rows



Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

Undercover Promotion / Marketing:-

By informing us about the presence and efficiency of a product we are already inclined to want or by appealing to our core interests, advertising seeks to arouse our desire for goods. and worries about our social status and identity, and then attempting to establish a link between those worries and a commercial product.

Nowadays, social media, blogs, chat rooms, and general troubleshooting forums are just a few of the many disciplines of internet marketing that are spreading and displacing traditional marketing. Customers can now promote these things worthwhile to buy online and have in-design, and quality of different depth conversations about the products from different industries, features, usefulness, durability.

Purpose of advertisement:-

Attract to customers

Attracting and maintaining customers is a totally challenging endeavour in the especially aggressive and globalized commercial surroundings we live in, the way purchasers save has extensively advanced, and traditional advertising and marketing strategies are likely to end up obsolete.

Every business employer's achievement relies upon on the pride of the clients. Whenever a commercial enterprise is ready to start, clients always come "first" and then the income. Those agencies which can be succeeding to fulfill the customers completely will continue to be inside the pinnacle position in a marketplace.

Niche marketing

It is a vital problem among multi national compenies. SMEs called the spine of the financial system of contries and want to develop their orginizational competence through formulizing their structures, system so one can be bocome more gifted. SMEs make contributions in the financial development of the person kingdom and state and the same timethey encourage the drift of change and investment between distinct economies inside the location.

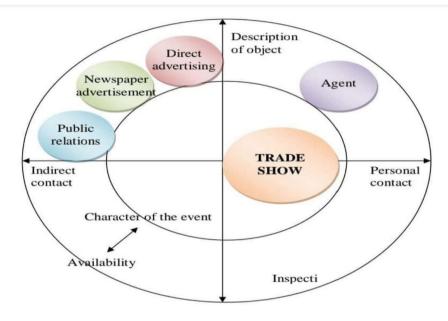
SMEs are display advertising source of employement and destiny grouth possibilities for many countries across the globe. Therefore SMEs are referred to as the pleasant sources of task introduction reasonable contribution to the financial and additionally evolved the life-style of purchasers as well as proprietors.



Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

TRADE SHOW MARKETING

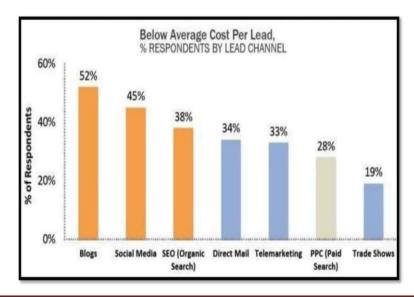
Trade display marketing is the simplest medium for attaining new costomers and markets; itshortens the shopping for cycle and gives companies get entry to to clients who are in any other case impossible to reach. Trade indicates are simply every other tool for firms to satisfy their advertising desires a good way to be greater or much less vital relying on the kind of product being sold and the targets to be met. According to, exchange display advertising is an essential part of a organization's income strategy.



In bond marketing vs. out bond marketing: a continuous debate on blogosphere:

When inbound marketing tactics are used appropriately, they can yield exponentially higher returns than outbound marketing. Digital marketing offers highly measurable and results-oriented analysis tools. It requires using all digital channels at once.

To attain these unmatched outcomes, the website must be continuously strengthened, effective content must be developed, and measurement methods must be put into practice. The goal of inbound marketing is to capture the interest of possible clients via social media and interesting information, like blogs, forums, podcasts, and other online publications.



IJPRA Journal

International Journal of Pharmaceutical research and Applications

Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

Use of Artificial Intelligence in pharmaceutical marketing

The process of promoting the sales of a business product and services is called marketing. Additional benefits of using AI systems in the pharmaceutical industry include improved value proposition, better market share gain through resource allocation, growth maximization potential, and customized sales and marketing data and channels [advanced analytics for pharma marketing efficiency and growth]. Businesses like Google, IBM, and a few others are beginning to focus on using AI to diagnose illnesses.

Artificial intelligence, both descriptive and predictive, is being used in India. Descriptive and predictive artificial intelligence is being used by Indian enterprises that are involved in the development of medical supplies and equipment. AI is being used and accepted in a range of settings throughout the healthcare network. By analyzing an individual's genome, artificial intelligence can assist in recommending the best course of action with fewer side effects.

Future scope of artificial intelligence in pharma marketing:-

Computer science is being used greater and greater in a range of industries, including manufacturing, commerce, R&D, and medicine. More money was allocated to healthcare AI projects in 2016 than to another AI project in any other field.

But despite the excitement, there's a disclosure of confidence because of some unmet expectations. Artificial intelligence has demonstrated the capacity for assess several kinds of picture data, including ultrasound, radiography, and retinal scans. Thanks to AI, a large number of these images may be taken affordably. Establishing a necessary link between physicians and artificial intelligence systems is facilitated by integrating these technologies with clinical practice. When they collaborate, they both perform better. The global pharmaceutical industry invests enormous sums of money in R&D.

In doing so we examine the impact of exogenous constructs

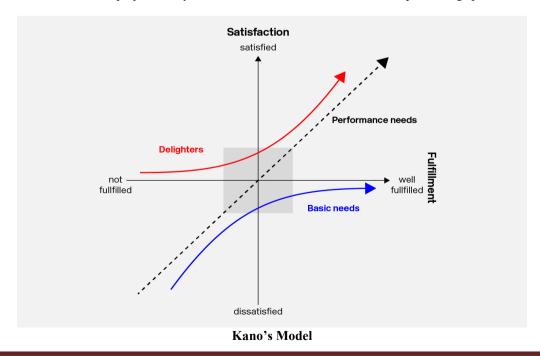
- ☐ Communication effectiveness
- ☐ Technical quality
- ☐ Functional quality

Model for measuring customers content:-

To be engaged in a long-term partnership with a company, additionaly to be faithful to him, it is necessary to measure the client's degree of satisfaction. Such as model that determines the degree among the clients gratitude/enthusiasm is the kano model.

Examples of kano's model:-

- 1. Feature: Intuitive interface
- 2. Performance: Fast processing speed



Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

III. Conclusion:-

IJPRA Journal

Prescriber behavior is heavily influenced promotion, and pharmaceutical by corporations employ many strategies to exert influence over prescribers. It's critical to stay focused and give the doctors exactly what they require, especially in light of the limited time that corporations have with the physicians.

The study's findings demonstrate the value of promotional efforts, but doctors are more concerned with keeping up with the latest findings in science. They are more eager to stay up to date on the latest scientific developments and to update their knowledge. They will undoubtedly benefit in their career from this.

Digital channel campaigns can be more successful than field force promotions and provide an opportunity to stand out from competition by interacting with the intended medical professionals more frequently, offering a wider variety material, and In India, it is customary for pharmaceutical businesses to promote their line of work, facilities, capacity for research, etc.

The Drugs and Magical Remedies Act was implemented with the intention of outlawing selfmedication by regulating drug advertising. After examining the numerous laws and regulations, it is possible to draw the conclusion that advertising of any kind, including pharmaceuticals, is illegal unless approved by the Central government licensing body through notice or the law itself. These laws stipulate that advertisements must be consistent with approved prescribing information, that specific forms of advertisements cannot be used, and that there will be consequences for violating the regulations.

Different regulatory systems influence journal advertisement quality concerning all measured domains. However, differences may also be attributed to other health regulatory, legal, cultural or system factors unique to each other.

References:-

- Bala, Ram, and Pradeep Bhardwaj. [1]. "Detailing vs. direct-to-consumer advertising in the prescription pharmaceutical industry." Management science 56, no. 1 (2010): 148-
- Diep, Dion, AbnoosMosleh-Shirazi, and Joel [2]. Lexchin. "Quality of advertisements for

- prescription drugs in family practice medical journals published in Australia, Canada and the USA with different regulatory controls: a cross-sectional study." BMJ open 10, no.7 (2020): e034993.
- [3]. Othman, Noordin, Agnes Vitry, "Quality Elizabeth E. Roughead. pharmaceutical advertisements in medical journals: a systematic review." PloS one 4, no. 7 (2009): e6350
- zhttps://www.tutorialspoint.com/advertiseme [4]. nt and marketing communications/Advert isementintroduction.htm [Last Accessed on 2023 February 27)]
- Rajput, Kalyani, and Rajesh Kumar Pandey. [5]. "Pharmaceutical marketing: A literature review." International Journal Engineering And Management Research 12, no. 2 (2022): 56-63.
- [6]. Sahne, Bilge Sözen, Selen Yeğenoğlu, Mehmet Mithat Uner, and Tuba Yumusak Tokuçoğlu. "The content analysis of drug advertisements in two local medical journals, Turkish Journal of Pharmaceutical Sciences (2012). [Page no 8-9]
- [7]. Gerasymenko, Anzhelika G. "Informative Advertising: A Market Information Provider or a Seed of Market Power?" Ecoforum Journal 1, no. 1 (2012).
- Verlegh, Peeter WJ, Marieke L. Fransen, and [8]. Amna Kirmani. "Persuasion in advertising: when does it work, and when does it not?" International Journal of Advertising 34, no.1 (2015):3-5
- [9]. Romanova, Irina D., and Irina V. Smirnova. echniques advertising. "Persuasive n Training, Language and Culture 3, no. 2 (2019): 55-70
- [10]. https://www.mdpi.com/2071-1050/14/5/2591 [Last Accessed on 2023 February 27]
- https://www.researchgate.net/figure/Quantita tive-representation-of-persuasive techniquesfound-in-commercials fiel 334127915 [Last Accessed on 2023 February 27]
- [12]. He, Chen, and Tobias J. "Advertising as a reminder: Evidence from the Dutch State Lottery." Marketing Science (2022). [Page no 1-2]
- [13]. He, Chen, and Tobias J. Klein. " Advertising as a reminder: Evidence from the Dutch State Lottery." Marketing Science (2022). [Page no 6-8]
- https://www.researchgate.net/figure/Color-[14]. online-Cumulative-Sales-for-Selected-

IJPRA Journal

International Journal of Pharmaceutical research and Applications

Volume 10, Issue 6, Nov-Dec 2025, pp:1433-1440 www.ijprajournal.com ISSN: 2456-4494

- Draws_ fiel_365862552 [Last Accessed on 2023 February 27]
- [15]. Hoang Trong and Chu Nguyen Mong Ngoc, 2008. Analysing the researched data by SPSS software, Hong Duc publication. [Page no 4-61]
- [16]. Abdullah, R.B. 2012. The relationship between store band and customer loyalty in relating in Malaysia. Asian Social Science, Volume 8, Issue 2, pp 117-185
- [17]. Khan Lal M &Muhammad Irfan J.; Antecedents of Innovativeness and its mpact on small firm performance (A Study of Pakistani Small Firms). (Internet). Bleking Institute of Technology/School of Management. (2012) reviewed on 2015-09-25, Available on: http://www.uppsatser.se/uppsats/2546e5fc83/
 [Page no 11-13]
- [18]. Akmal, N., Wahab, A., Dora, M. T., Majid, I. A., Hafiz, M., & Razak, A. (2012). Measuring the Organizational Innovation Impact towards the Performance of SMEs InMalaysia, 1-10.

 Retrieved from

 http://ictmt.utem.edu.my/index.php?option=com_docman&task=doc_details&gid=1

 9&Itemid=31
- [19]. Widodo, F., Shamsuddin, A., & Abdullah, N. H. (2013). Characteristics of Innovative SMEs in Pakistan: A Case Study. IOSR Journal of Business and Management (IOSRJBM), 14(6), [Page no 45-51].
- [20]. OECD, (2005), SME and Entrepreneurship Outlook, retrieved on 27-06-2015 from http://www.camaras.org/publicado/europa/pdf/8505011E.pdf Pitta, D. A., Weisgal, M. and Lynagh, P. (2006). Integrating exhibit marketing into integrated marketing communications. The Journal of Consumer Marketing, 23(3), 156 166
- [21]. Munuera, J. L., Ruiz, S., Hernández, M. and Mas, F. (1993). Las ferias comercialescomo variable de marketing: análisis de los objetivos del expositor. InformaciónComercial Española, 718, 119-138
- [22]. Ferre, J. M. (2000). El entronque de la feria dentro del plan de marketing, IPMARK, 537, 48-49.
- [23]. Dallmeyer, B. (2(013). S ccessfud xhibi Marketing. Etrieved from: http://www.ufi.org/Medias/pdf/thetradefairsector/howtoexhibit. pdf.[40]_Berné, C. and

- García-Uceda, M.E. (2008). Criteria Involved in Evaluation of Trade Shows to Visit Industrial Marketing Management, 37(5), 565-579.
- [24]. Jiménez, J. F., Cazorla, I. M. and Linares, E. (2002). Ferias comerciales en España. Un análisis sectorial. Distribución y Consumo, 61 [Page no 4-5]
- [25]. Bampo, Mauro, Michael T. Ewing, Dineli R. Mather, David Stewart, and Mark Wallace 2008. ."The Effects of the Social Structure of Digital Networks on Viral Marketing Performance.' Information Systems Research 19: 273-290 [Page no 9-12]
- [26]. Chaturvedi, Sumit, and Sachin Gupta. "Social media-a new tool in modern era marketing." International Journal of Engineering Sciences & Management Research 1, no. 2 (2014): 80-81.