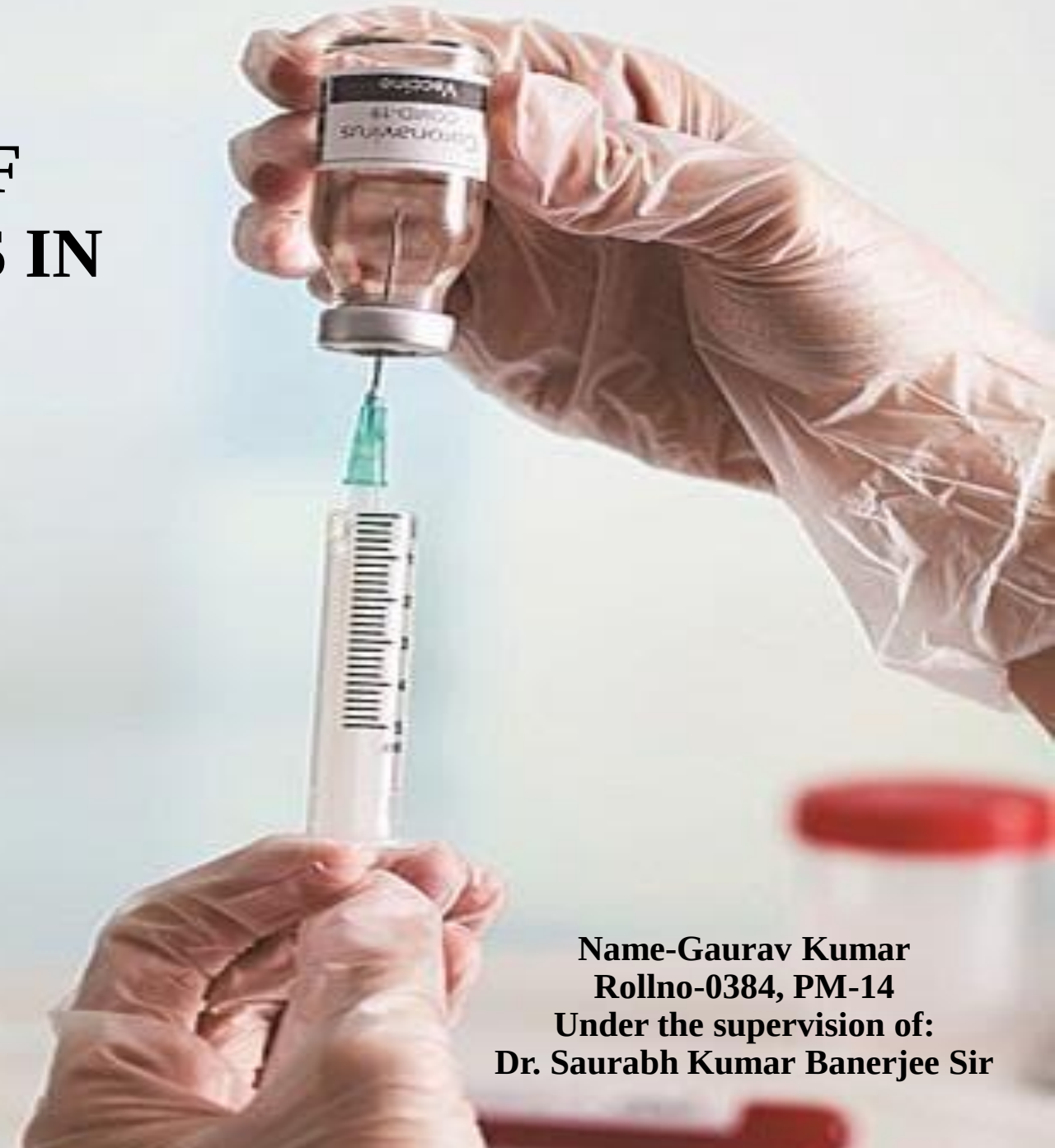


MARKET ASSESSMENT OF DISPOSABLE INJECTIONS IN INDIA



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INTRODUCTION

The disposable injection market in India is an important area of the healthcare business, with a diverse range of single-use syringes and needles.

This market evaluation examines the existing landscape, trends, and factors that influence its growth.

With a growing population and more healthcare awareness, the demand for safe and sterile injectable devices is expanding. Disposable injections have transformed the healthcare business by providing a convenient and sanitary way to administer drugs, fluids, and immunizations.

IMPORTANCE OF DISPOSABLE INJECTION IN HEALTHCARE

Disposable injections serve an important function in healthcare by lowering the danger of infection and cross-contamination.

They ensure sterility and safety for both patients and healthcare workers. They also streamline medical operations and enhance efficiency, which benefits both public health and patient results.



OBJECTIVE

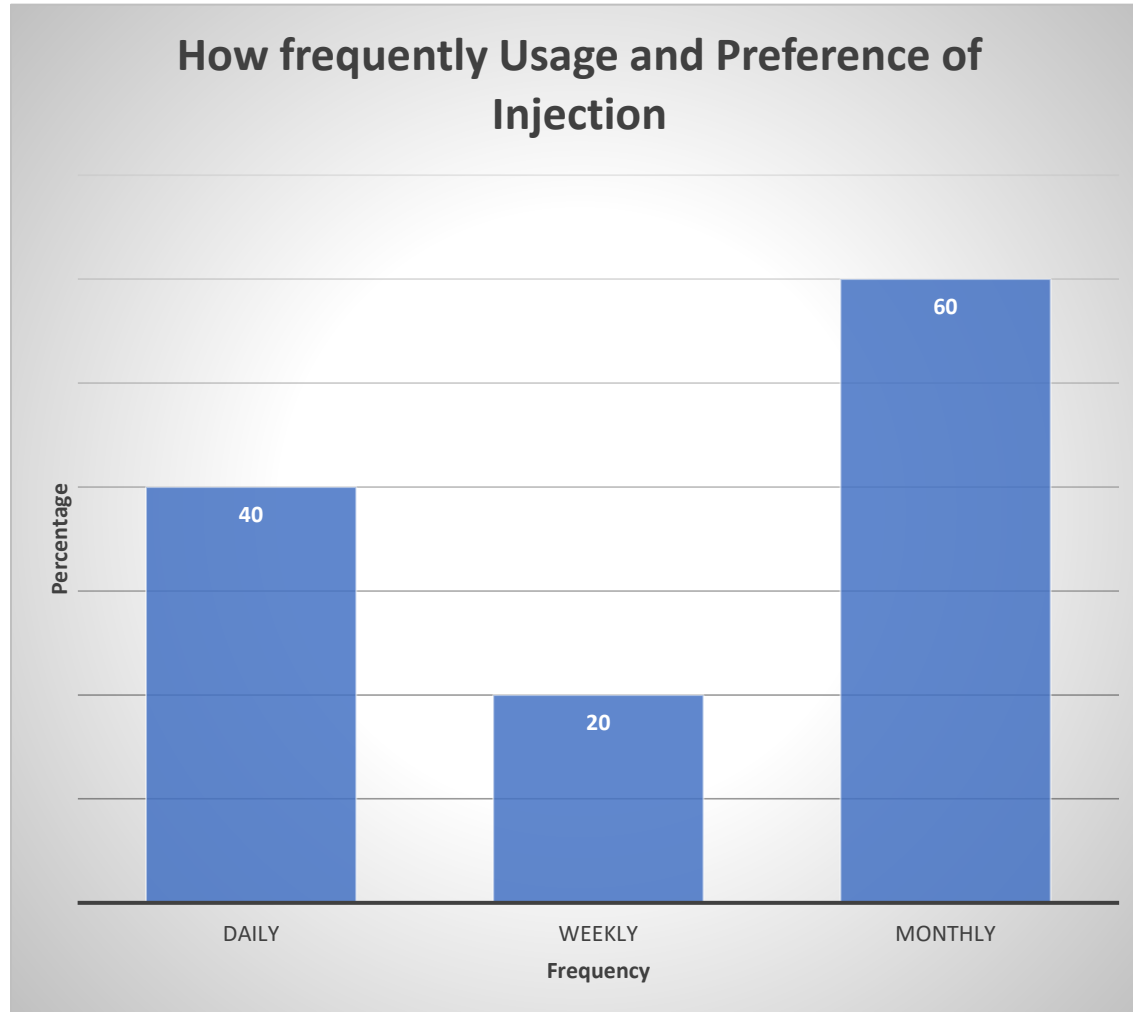
- To measure the size and the growth rate of the disposable injections market in India the following features are relevant.
- Identify a set of key parameters that affect the demand of disposable injections in the Indian market.



Research Question

- What are the key parameters influencing the demand for disposable injections in the Indian market?

How frequently do you use disposable injections in your practice?



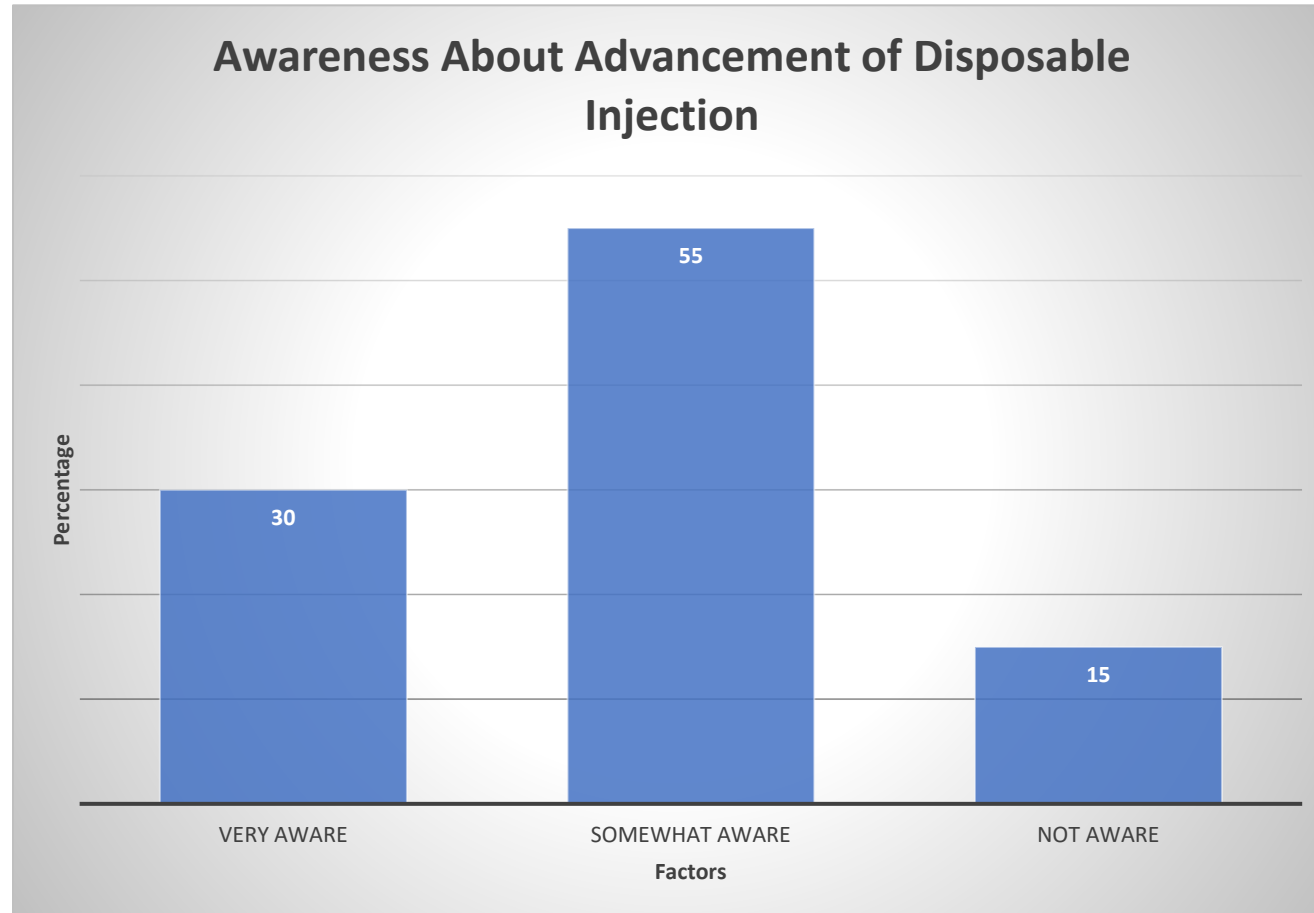
Findings-

40% say that they use it daily.

20% said that they use weekly.

60% said that they use it monthly.

How aware are you of the latest advancements in disposable injection technology (e.g., auto-disable, pre-filled syringes)?



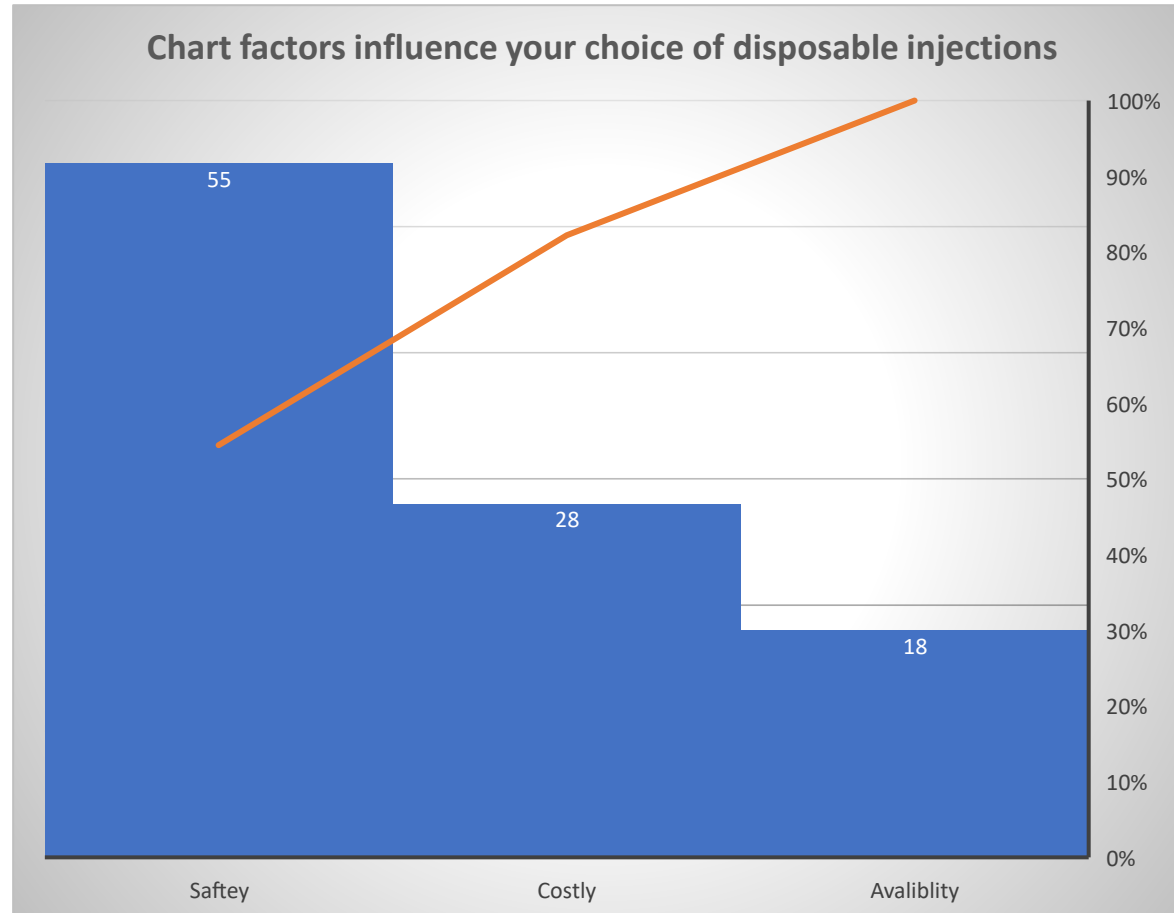
Findings-

30% say that they are very aware.

55% say that they are somewhat aware

15% say that they are not aware.

What factors influence your choice of disposable injections?



Findings-

55% of doctors say that disposable injections are safe.

28% of doctors say that disposable injections are costly.

18% of doctors say that disposable injections are available in the market.

Methodology

- **Study design** –The study design of this research paper is quantitative in nature and data will be collected from a representative sample of participants using a structured questionnaire
- **Type of study:** It is a cross-sectional, descriptive study in nature
- **Type of research** – The type of research done is primary research asking doctors about disposable injection.
- **Study tool-** A questionnaire was formed by asking doctors how often they use disposable injections.
- **Study population-** individuals between 18-60 years of age were considered for the survey
- **Inclusion Criteria:** All females and males between 18-60 years were included in the study of the survey circulated.
- **Duration of study:** The study started in April 2024 and ended in June 2024, which is 3 months
- **Sample size:** A sample size of 100 was selected for this study, and their insights were used as to study the survey.
- **Sampling technique** – convenience sampling

MARKET OVERVIEW

- Over the last ten years, India's disposable injections market has grown significantly.
- India, one of the biggest pharmaceutical markets in the world, has a sizable need for injectables in a variety of healthcare settings, such as clinics, hospitals, and home healthcare.
- With a projected value of \$148.00 million in 2020, the disposable syringes market in India is expected to grow at a compound annual growth rate (CAGR) of 10.3% from 2021 to 2030, or \$385.54 million. Medical devices such as disposable syringes are disposed of after a single usage.



Market dynamic

India has a high incidence of infectious diseases such as tuberculosis, hepatitis, and HIV/AIDS, necessitating the frequent use of injectable medicines. According to the World Health Organization (WHO),

India accounts for a large share of the worldwide tuberculosis burden, with an anticipated 2.64 million cases in 2019.

Government measures have an important role in encouraging the use of disposable injections. The

National Health Mission (NHM) and other public health programs have greatly expanded the scope of healthcare services

, advocating for the use of single-use medical equipment to prevent healthcare-associated illnesses.

The Swachh Bharat Abhiyan (Clean India Mission) emphasizes the significance of sanitation and hygiene in healthcare settings, which indirectly promotes the use of disposable injections.



REGULATORY ENVIRONMENT

India has a strong regulatory system for disposable injections, to ensure medical device safety and efficacy.

The CDSCO is the major regulatory agency responsible for the approval and quality control of disposable injections.

Manufacturers must follow the requirements established in the Drugs and Cosmetics Act and the Medical Device Rules of 2017.

REGULATORY CHALLENGES

Navigating the regulatory landscape in India can be difficult, particularly for new and small businesses.

Obtaining the appropriate permissions takes time and necessitates extensive documentation as well as adherence to strict quality standards. Furthermore, the cost of regulatory compliance might be prohibitively expensive, limiting the entry and viability of smaller businesses in the market.

Manufacturers must adhere to guidelines set by the Central Drugs Standard Control Organization (CDSCO).



CHALLENGES

Despite the benefits, the use of disposable injections is hampered by cost concerns, particularly in resource-constrained environments. According to Singh et al. (2020), the higher cost of disposable injections versus reusable syringes continues to be a significant obstacle for many healthcare practitioners and patients in low-income countries.

SUPPLY CHAIN & DISTRIBUTION ISSUES

Supply chain concerns frequently impede the delivery of disposable injections, particularly in remote and rural areas. The logistics of ensuring a steady supply of medical gadgets are challenged by poor infrastructure and transportation networks. Effective distribution techniques are required to ensure that disposable injections reach every part of the country.



COMPETITIVE LANDSCAPE

The disposable injection industry in India is quite competitive, with multiple domestic and international firms. Hindustan Syringes & Medical Devices Ltd., Becton Dickinson India Pvt. Ltd., and Life Long Group are among the market's leading players.

These corporations maintain their market positions by leveraging broad distribution networks, product innovation, and strategic collaborations.

Life Long Syringes

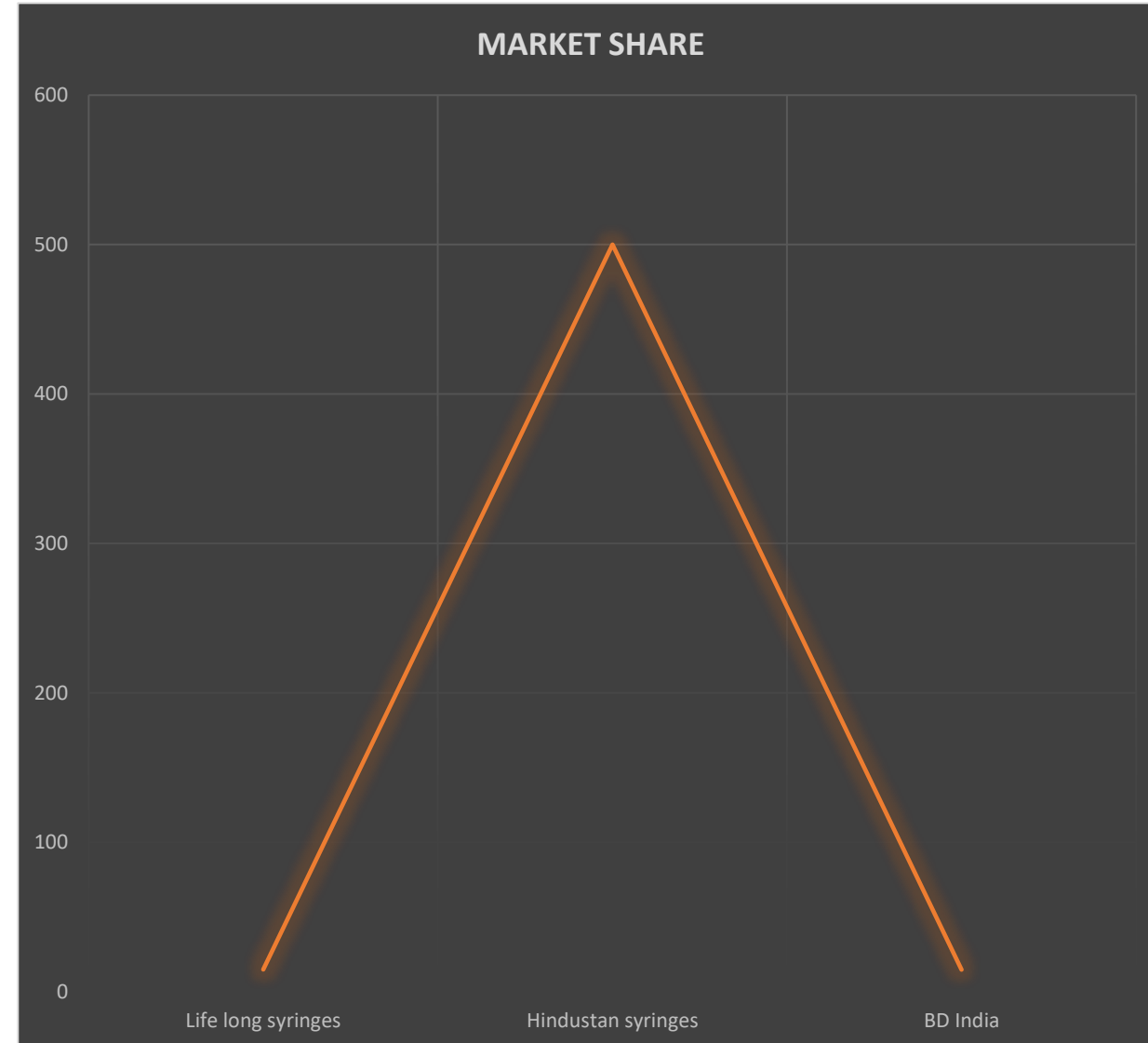
- Standard Syringe {UTTARAKHAND }
- Safety Syringe Market share-15 Cr

Hindustan Syringes and Medical Devices

- Single-use syringes
- Single-use needle {HARYANA} Market share- 500Cr

BD India Pvt. Ltd

- Disposable syringes
- Single Use Syringes {HARYANA} Market Share-14.8Cr



FUTURE TRENDS

Technological advances have played an important influence in the growth of the disposable injections market. Innovations such as auto-disable syringes and needle-free injectors have considerably increased patient safety and convenience.

Auto-Disable Syringes –

The introduction of auto-disable syringes has been a game-changer in the Indian healthcare landscape.

These syringes are engineered to lock or break after a single use, making them an essential tool in preventing the spread of infectious diseases.

Pre-Filled Syringes –

They are pre-loaded with medication, which reduces preparation time and the danger of dosing errors.

This technique is very useful in emergencies and for patients who require frequent injections, such as those with diabetes.

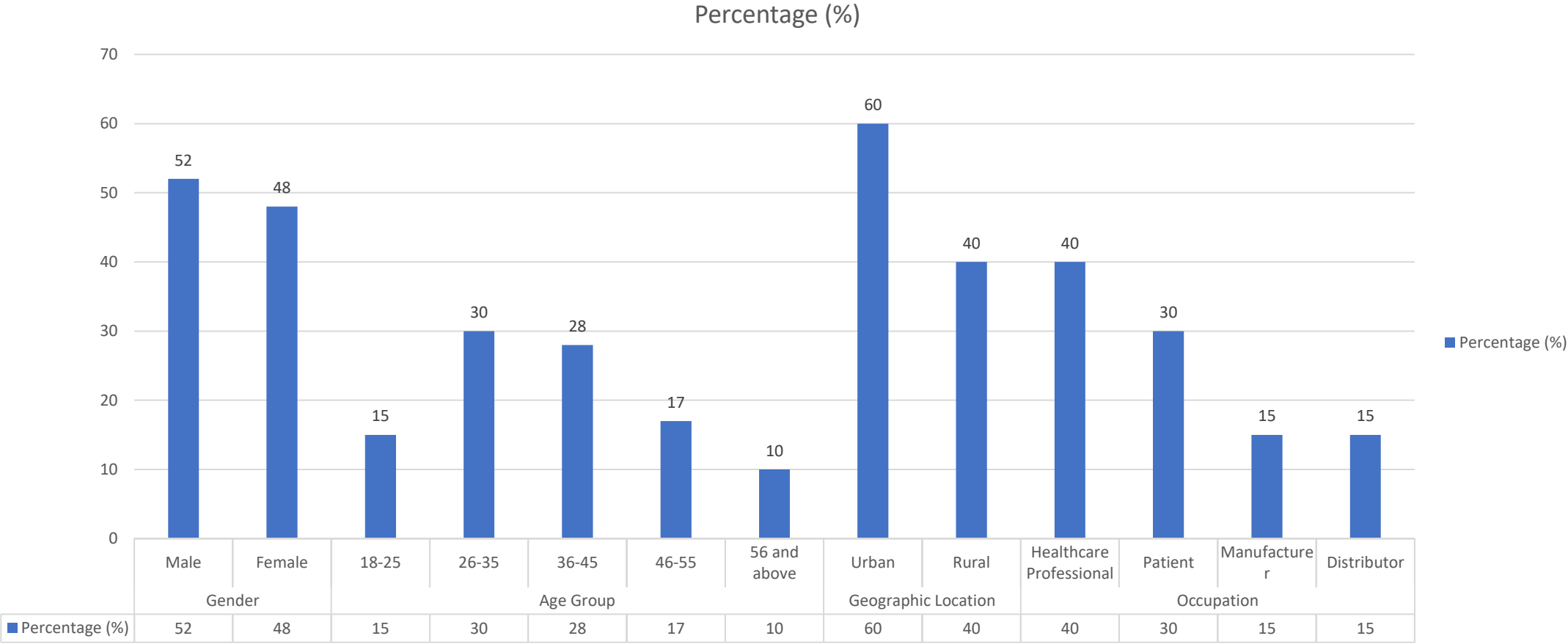
Needle-Free Injection-

Needle-free injectors represent a novel advancement in injection technology, providing a pain-free alternative to traditional needles. These devices use high-pressure gas or spring systems to deliver medication through the skin.



Demographic distribution of the respondents which included healthcare professionals, patients and clients, manufacturers and distributors

Demographic Characteristic	Category	Percentage (%)
Gender	Male	52
	Female	48
Age Group	18-25	15
	26-35	30
	36-45	28
	46-55	17
	56 and above	10
Geographic Location	Urban	60
	Rural	40
Occupation	Healthcare Professional	40
	Patient	30
	Manufacturer	15
	Distributor	15



CONCLUSION

- India's disposable injection market is primed for growth due to safety concerns and government support. Safety syringes dominate, but affordability remains a hurdle, especially in rural areas. Collaboration between manufacturers, healthcare providers, and policymakers is key to address cost, regulations, supply chains, and technology adoption. By working together, the market can become more accessible and contribute to better healthcare for all Indians.

