EFFECT OF PHARMACY ON HUMAN GROWTH

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ABSTRACT
This article includes impact of pharmacy and its role in human growth in varying fields like customer satisfaction, patient care, heath care advice and career option open in pharma field including research institute, industry, academics and medical field. Here we discern different angles of pharmacy in career or human growth, drug discovery and research field.

Keywords: - Pharmacy, health care pharmacy, community pharmacy, research and drug discovery

1. INTRODUCTION

The awareness about pharmacy is increasing continuously to rake up all aspects of pharmacy not only with compounding and dispensing medicine. Now pharmacy includes all prospects of medicine making, marketing, and research of new chemical entity to develop a scintillating career option in pharma field. The pharmacy works on various directions such as evaluation of new and existing services, workload measurement, pharmacoeconomics, and quality management. Basic pharmaceutical sciences, including the development and testing of new dosage forms, use of medicine, route of administration and side effects of medicine. It is clear that while we continue to use the term “pharmacy research”, it carries no universally accepted meaning. As health care professionals, pharmacists represent only one aspect of the complex and interdependent health care system. The term pharmacy carries all areas of medicine, from the beginning to make a formulation to dispensing of medicine to the patient. Focusing on different areas of pharmacy including testing, packaging, dispensing, clinical trial requires skilled personnel to complete entire work successfully. Here the role of pharmacists must be involved in all aspects. The pharmacy is a field that requires a team work, not only one department could do all research, the collective works of all departments made a new discovery or successful research.

Approaches of pharmacy in various fields

a. **Drug discovery**
b. **Industrial pharmacy**
c. **Health care pharmacy**
d. **Community pharmacy**

2. Drug discovery

In the field of drug discovery pharmacy has great role. A discovery of new drug starts with the understating the basic function of body and its reaction towards

chemicals developed in research institute or drug industry. To know about safe and effective medication, it's crucial to consider all side effects and toxicological effects. The discovery of drug is very long process, it includes assay of thousand compounds. There are several tests are done to find the desired right compound. The goal of these tests is to find which addition shows some effect which would be beneficial for searching active compounds. The discovery of new chemical entities requires series of experiments with patience and hard work. Sometime, scientists find great failure during screening of compounds. The researcher must be focus on target deal the experiments and assay with patiently.

Another approach to improving therapeutic properties is to identify that portion of a natural molecule responsible for its biological activity and synthesize new molecules that are based on it. This active portion is known as the essential structural unit. Another approach involves testing compounds made naturally by microscopic organisms. Candidates include fungi, viruses and molds, such as those that led to penicillin and other antibiotics. Scientists grow the microorganisms in what is known as a "fermentation broth," with one type of organism per broth. In most cases, the chemist has specific reasons for synthesizing a particular compound, usually based on theoretical considerations, medicinal chemistry, biological mechanisms or a combination of all three. One of the major factors leading to a more rational approach to new drugs has been improved knowledge of bio chemical mechanism.

3. Industrial pharmacy

Industrial pharmacy explores various methods of manufacturing safe, effective and therapeutically active medication. Industrial pharmacists are working from initial stage of processing of medicine including research development, clinical trials, overseeing production, quality testing, marketing to applying to have the drug legally registered. In clinical trials, industrial pharmacists work closely with doctors, nurses and other medical staff. Clinical trials usually involve four stages: tests on healthy volunteers, then a small number of patients, then larger scale tests on patients and, finally, studies in patients after the drug have become available to buy and use. The major role of industrial pharmacist is to decide which form of drug would be appropriate for administration (liquid, tablet, ointment, injection), they can take independent decision of which form drug is more suitable.

4. Health care pharmacy

The main object of health care pharmacy is to educate people carefully about taking proper medication, avoid overdosing, prevent inappropriate combination of medicine and completely inhibit misuse of medicine. The pharmacists involved in health care pharmacy should have sincere approach towards customer. Before prescribing any medication, self satisfaction is a major part of pharmacist's profession dealing with health care department of pharmacy. The mission of health care pharmacy is to supply genuine quality healthcare products to the public through a chain of pharmacy stores at competitive price.

5. Community pharmacy

Community pharmacies are speeded from one-off service provision to a frame of constant care. The vitality of process depends on continuously increasing health benefits advices towards medicine and complete health care programs. As an outcome of this process, pharmacy and dispensary requires skilled, qualified professional's assistants for medication advice and compliance and health education to support these growing services. The community pharmacy demands high level of regulation, in particular ownership laws which limit the ownership of pharmacies and legislative frame. Therefore, management skills incorporating motivation, leadership, constant management planning and team building are crucial to the industry for its continued growth and productivity. Community pharmacists are also continuing to assume new roles in disease management and preventative health. These changes have the potential to increase demand for pharmacy assistants.

6. IMPACT OF PHARMACY ON HUMAN GROWTH

Emerging fields of pharmacy explore expeditious ways of human growth. The opportunities in pharma industry are increasing in India as well as abroad. In present scenario thousands of molecules are screened by researchers to achieve therapeutically active compounds to serve mankind. Today research in pharmacy has given various new drug molecules to cure diseases completely which were incurable earlier. By structure modification of various chemicals the synthesis of therapeutically active molecules are possible to treat chronic disease. The foundation of industry and research institute has opened broad avenues towards human growth in pharmacy.

7. CONCLUSION

Due increasing research and development in the field of pharmacy, it is fast emerging as a popular career option around the world. The population growth will lead to an increased demand for workers in the service industries; staff efficiency and productivity gains will be required in some sectors to serve the growing number of customers. Industry consultation has shown that a growing population is seen as potentially good for business. Pharmacies will get busier as the demand for doctors grows. A key skill requirement for the industry is the ability to provide health care solutions, balancing consumer advice and expert pharmacist support and guidance. It is essential that training addresses changing health needs, and that different groups are provided with adequate and respectful duty of care.

8. References

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