**FUTURISTRIC TRENDS IN PHARMACY**

**S. Gejalakshmi\*,N.Harikrishnan**

**Faculty of Pharmacy,Department of pharmaceutical chemistry**

**Dr.M.G.R.Educational and Research Institute,Velappanchavadi,Chennai-77**

Pharmaceutical Industry rate in the Global market is around 1.2 trillion dollars. Such a huge capital of investment in pharmaceutical industry and due to technological development design of new patents and novel innovations made a greater focus towards prevention and digital health map. The devoped Pharmaceutical industrial sector has made a vast challenge in ethical issues to finanacial status. Due to launch of many disruptive technologies which includes 3D printed drugs,Artificial Intelligence assisted therapies and preventive medicine working with various authorized agencies related to regulatory affairs in order to ensure safety of patient health,hereby it adds benefit from the digital revolution.

In our Research, Technologies Shaping the Future of Pharma have analysed major Digital health technology and practices with greater importance in the Pharmaceutical Sector which compiles datas of patient in decision making, personalized care and artificial Intelligence to automatic Pharmaceutical Process which discovers various findings in the research field of Pharmacy.

The system of Dug regulations need to updated .In order to ensure safety of patients,World safe authorities like FDA must be implanted new plans and deal with innovative ideas .New Trends in medicine need to be developed faster while the US FDA has need update recommendations.

We need Medical technology development in medicine and health care sector.Health digital development is required.

Input of generic drugs will help poor patients in buying medicine for health illness.

Empowering efforts has to be driven for medical technologies revolution, traditional, clear-cut roles need to be familiarized, A redefined place in the field of medicine is required. A multi drug dispenser has to be developed in a shared and community-based economy.

Tremendous changes are wavering and disruption across the healthcare value sector and it transfer the importance of future of Pharmacy.Clinical developments are developed.

Clinical and drug development process are occurring at a term, over the development of artificial intelligence, interoperable data insights,robotics,As a developed medicine has made a shift to precision treatments, the aspects of Pharmacist and channel delivers are changed day today.The combo may bring a motive change from a fee for service development models which pavs the pharmacy with broader route along the underway.

Development of innovation happens across the life science field to input importance of development task.

Researchers are making tremendous innovations like smart mirrors which has equipped cameras ,variations in health data.

Novel health care bots and tools are launched to perform basic services which works in Japan are using exoskeleton to extend the performance of manual labours.

Discovery of gadgets,smartphones are evolved to act as home pitched home diagnostic app or tool for testing and monitoring the Urinary Tract Infection or diabetic eye disease.

Many diagnostic labs have been developed as ingestible origami robot which are used to swallow and control a patch to wound.

Many companies are developing the gut microbiome to create a food as medicine based approach to manage glucose levels and improve overall health.

When the innovations are combined with growing influence of consumers focused on their wellness ,the development of Pharmacy may be radically a different task.These motivational tasks create more innovative ideas and demand high between Pharmaceutical Industrial Companies ans Pharmacist as they defend among themselves to win in today’s market while executing ,adapting and investing for the future.

The effect of the COVID-19 pandemic leads to disastrous for economical and industries worldwide. Globally the growth and crisis occur in Pharmaceutical Industry. New Challenges were developed a task of living new development in Pharmaceutical sector which is now an impact of COVID-19 pandemic which is emerged under developing environment. From Hitech implementations to developing investments to refine the product of life cycle through digitization, the developing Pharmaceutical Industry has adapted, innovated and is expected to undergo a rapid change in the years to overcome. there is a trendy change in the trends that will play a key role in reshaping the future of Pharmaceutical development.

Artificial Intelligence:

A Software based study known as artificial Intelligence and it is machine learning process are revolutionizing industry and leading to huge task development of chatbots ,smarthomes,self-operated cars ,ICT tools and advanced apps.As per Global reports over artificial Intelligence software trade market is developing a forecast to grow from biilions to trillions.AI can develop a million of opportunities for Pharmaceutical Industry bringing a vast shift in the innovation skill of the Pharmaceutical companies.Pharmaceutical Industries globally has leveraging ML alogorithms and it made a AI powered tools to streamline the drug discovery development and process.Implementation of AI techniques in the manufacturing process leads to higher productivity, vast efficiency and increased process production of life saving drugs.

E Pharmacy:

Due to COVID-19 situation there is advanced development of E pharmacies in India, which acted as life saving tool in our country. Nonstop operation in the ground emerges as life savers.Emerges the need of health saving people in the doorstep.During pandemic over 3.5 billion to million drugs have distributed through E pharmacy.ThePharmaceutical Field has received around 700 million investement in employing around 300 skilled professionals. Due to rapid increase in elevation of population the growth of E pharmacy will continue strongly and the overall has set bench mark for households from 70 million. The impact of E pharmacies has played vital role during pandemic.

Precision Medicine:

Personalised Medicine are produced depending on a specific patient diagnosis. The primary task to personalize the effective medicine is to produce optimal effectiveness and patient outcomes. The production of precision medication advanced facilities that are super specialized and they are smaller than most factories. Even though it has posed many problems for pharmaceutical manufacturers, this is a trend that’s anticipated to continue as methods used are refined. Precision medicine has developed like level of medication than the regular medicine.

Clinical Trials:

Clinical trials are expected to grow and change periodically. From trials to patients by analysing the health records to improve medication adherence, the trials have become more global and remoted match. With the useage of Internet tools and technologies and self-monitoring task.

Researchers are seeking for patient well-being by critical data.This transition to similar technology for clinical trials is expected to become relatively fast adoption of such new technologies. In the near future new technology like digital skills will increase the accuracy of monitoring and reporting the drugs.

Research and Development:

The worst crisis of pandemic situation has emerged a tool of development shifted the attention towards the importance of medication, Pharmaceutical companies around the world are more concerned than ever research and development which hits the intended targets.There is a need of ongoing effort to achieve greater efficiency and effectiveness to meet patients needs from bottom line.There is a research designed to identify medicine which will improve and experience the quality of life for patients. Pharmaceutical company examine their research activities in development practices to ensure they are focused and refined.

Concluding Thoughts:

Around 2025 there will be tremendous changes across every area of innovation in Pharmaceutical industry leads to discovery of Process, clinical trials, treatment approached, pandemic has developed a rapid growth in the pharma industry along with special and rapid growth from discovery to treatment approaches.It definitely accelerated the rapid change and spurred a sense of urgency in healthcare and pharma professionals to transform the landscape to gitital transformation.