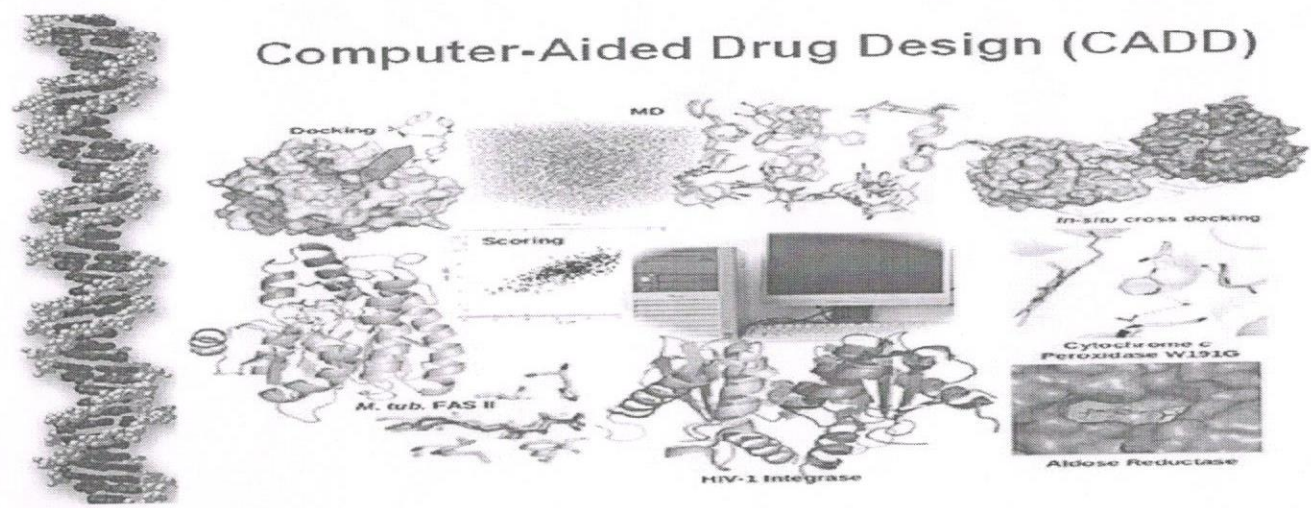




CADD

Computer-Aided Drug Design (CADD)




The development of new drugs is no longer a process of trial and error or strokes of luck in the field of research, it has become a delicate process depends mainly on the overlapping medical and pharmaceutical sciences and informatics. The explosive development of computer technology and methodologies to calculate molecular properties have increasingly made it possible to use computer techniques to aid the drug discovery process. Consequently, it was a principal professional requirement for to establish an educational and research CADD unit.

24/09/2018 to 29/09/2018

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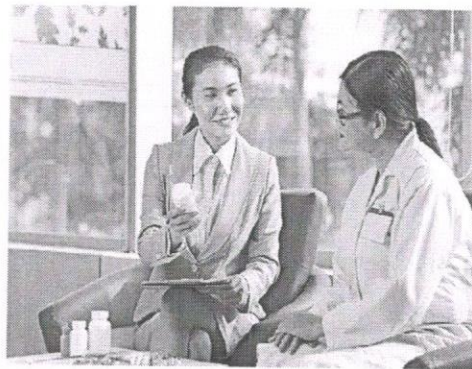
PHARMACEUTICAL SALES REPRESENTATIVES



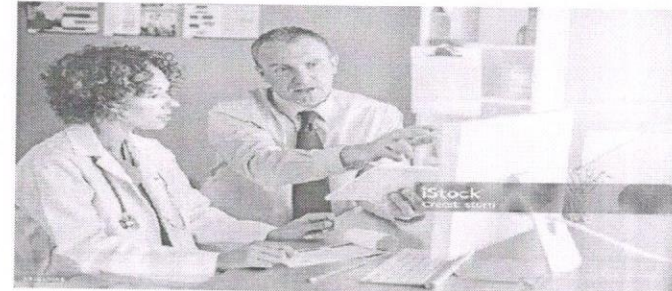
Pharmaceutical representative and African mature practitioner discussing results of the analysis and discussing patients report case.



A female administrator is asking questions and taking notes to male and female doctors.



Sales woman presenting new product to pharmacist



A medical administrator explaining a female doctor through a presentation.




Doctor and representative pharmaceutical shaking hands in a medical office. Cheerful salesman with new medicines senior doctor with medical team sitting at conference table.

01/10/2018 to 06/10/2018

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GMP PROGRAMME



Dr. J.

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Good Manufacturing Practices (GMP, also referred to as 'cGMP' or 'current Good Manufacturing Practice') is the aspect of quality assurance that ensures that medicinal products are consistently produced and controlled to the quality standards appropriate to their intended use and as required by the product specification ...

18/02/2019 to 23/02/2019

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PHARMACOVIGILANCE

PHARMACOVIGILANCE

- Pharmacovigilance also known as drug safety, is the pharmacological science relating to the collection, detection, assessment, monitoring, and prevention of adverse effects with pharmaceutical products.

AIM:

- To improve patient care and safety in relation to the use of medicines, and all medical and paramedical interventions
- To improve public health and safety in relation to the use of medicines

PROCESS

- DETECTING AND REPORTING AN ADR
- DATA COLLECTION AND CAPTURE
- DATA STORAGE AND MAINTENANCE
- DATA SELECTION, RETRIEVAL & MANIPULATION



- Central Drugs Standard Control Association
-DGHS, Ministry of Health & Family Welfare
- Legislative requirements of PV in India
-Schedule Y of the drugs & cosmetic act 1945

05/03/2019 to 9/03/2019

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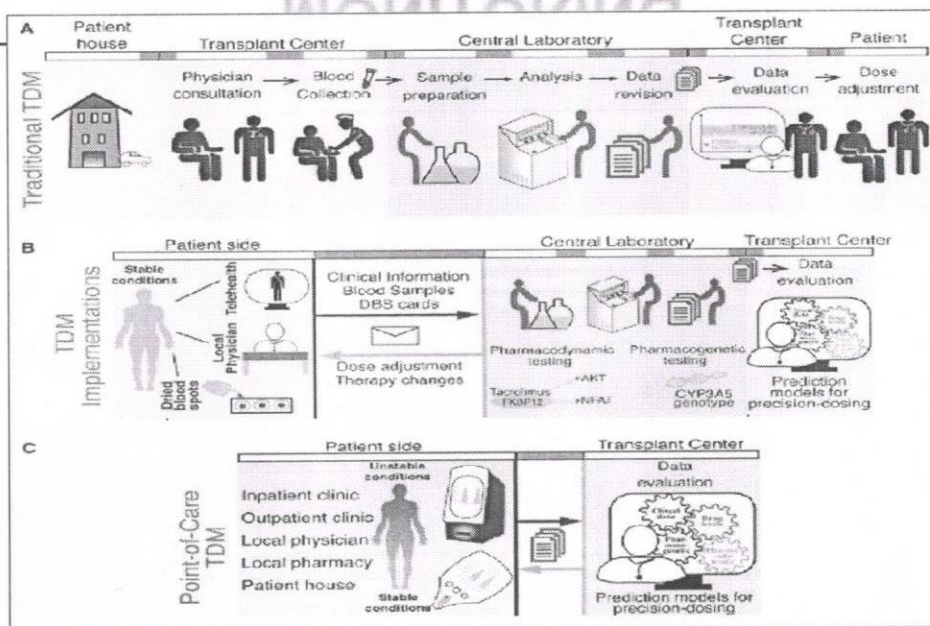


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THERAPEUTIC DRUG MONITORING



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22/04/2019 to 27/04/2019

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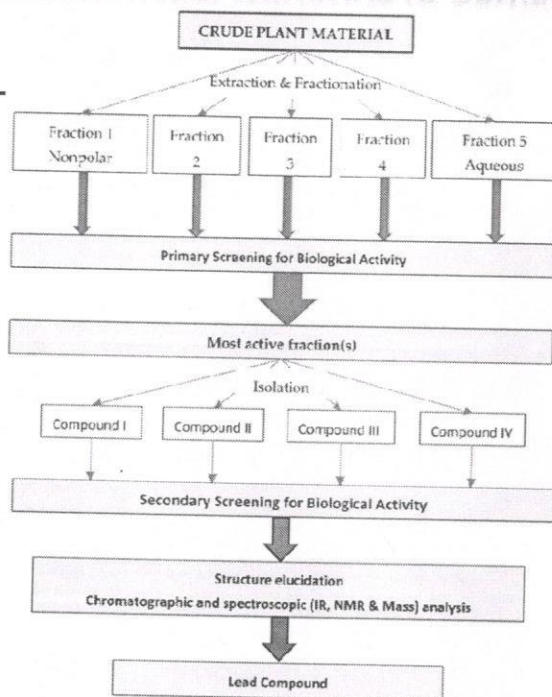
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ISOLATION AND CHARACTERIZATION OF NATURAL PRODUCTS



Natural products represents an important source of new lead compounds in drug discovery research. The isolation and characterization of bioactive compounds from natural resources is extremely challengeable due to the complexity in traditional methodologies. Several drugs currently used as therapeutic agents have been developed from natural sources.

21/10/2019 to 26/10/2019

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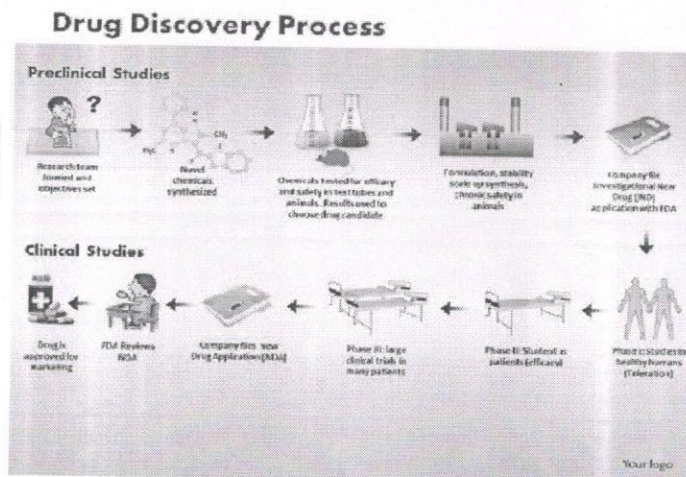
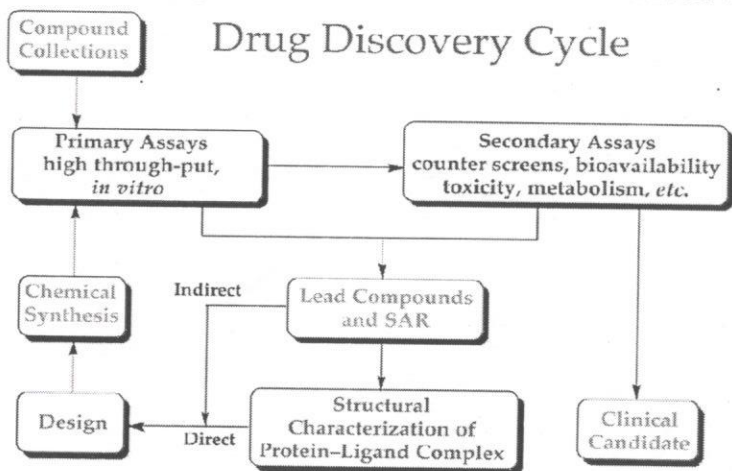




MEDICAL CHEMISTRY & DRUG DISCOVERY



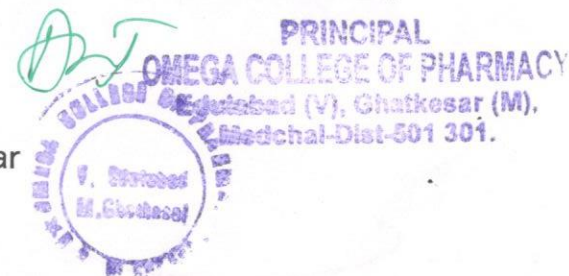
The program develops students knowledge of medicinal chemistry through design, synthesis, pharmacological And profiling of novel pharmacotherapeutics as applied to helping solve unmet medical needs. For this purpose many pharmacy graduates established research carrier in the pharmaceutical or biotech industry.



01/04/2020 to 07/04/2020

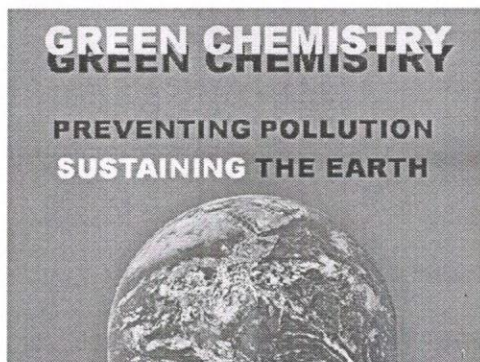
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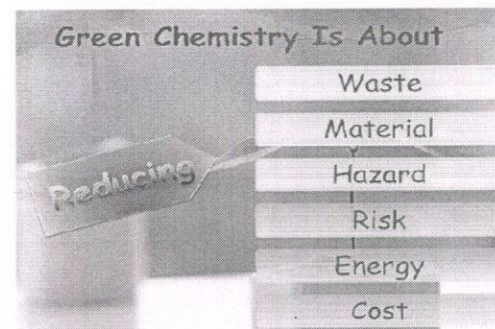




GREEN CHEMISTRY



Green chemistry (sustainable chemistry) deals with the design and optimization of processes and products in order to lower, or remove altogether, the production and use of toxic substances. It is not the same as environmental chemistry.




Green chemistry, is an area of chemistry and chemical engineering focused on the design of products and processes that minimize or eliminate the use and generation of hazardous substances. It focuses on the environmental impact of chemistry, including lowering consumption of nonrenewable resources ...

02/03/2020 to 07/03/2020

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INNOVATIVE APPROACHES TO DRUG DESIGN



- Computer aided drug design(CAD)
- Molecular Modeling
- Structure based drug design
- Analog drug design
- Combinatorial chemistry
- Computational chemistry
- ARRAY technology
- Pharmacogenomics
- Proteomics
- Recombinant DNA technology


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Novel approaches is a research focusing upon drug designing methodologies, new drugs developments in chemical and biological researches. It involves multi disciplinary field ranging from drug designing, development, discovery and also involves medicinal chemistry, pharmacology, Drug delivery systems, pharmacokinetics and dynamics, pharmaceutical and biomedical analysis, gene delivery....

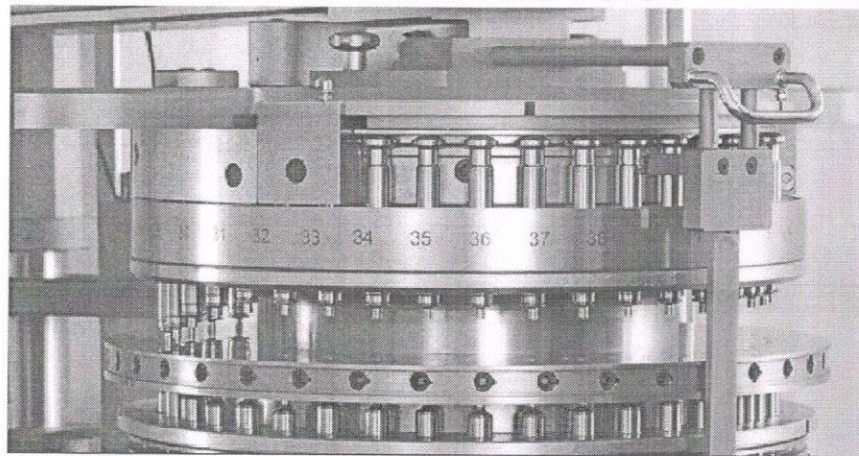
16/09/2019 to 21/09/2019

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HANDS ON COMPRESSION MACHINE AND TABLET TECHNOLOGY



Tablet Making Machine is driven hand operated by circulating wheel. The compression pressure on the tablets, is controlled by adjusting a lever, the powder filled in cavity is controlled automatically by a moving a feeder provided.. They aim to eliminate air in the powder particles or die. The main compression rollers offer an increased amount of force for tablet formulation. At this stage, no vibration is required because any movement will interfere with the tablets' thickness and size.

10/02/2020 to 15/02/2020

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Clinical Trials

PHASES OF CLINICAL TRIALS

 PHASE 1	 PHASE 2	 PHASE 3	 PHASE 4
20-80 Participants	100-300 Participants	1,000-3,000 Participants	Thousands of Participants
Up to several months	Up to 2 Years	1 to 4 Years	1+ Year
Assess the safety, dosage and general safety of a medication/treatment	Studies of the reliability and side effects	Efficacy of a therapy and monitor its adverse reactions	Monitor the long-term safety and efficacy of a therapy after its approval
70% Success Rate	33% Success Rate	25-30% Success Rate	70-90% Success Rate

Clinical Trials will be carried out in Healthy Humans

Phase 1: Measures response to the drug.

Phase 2: Measures efficacy and short term side effects.

Phase 3: Measures same parameters but in thousands of Humans.


Phase 4: Post market survey after getting approval.

24/09/2020 to 30/09/2020

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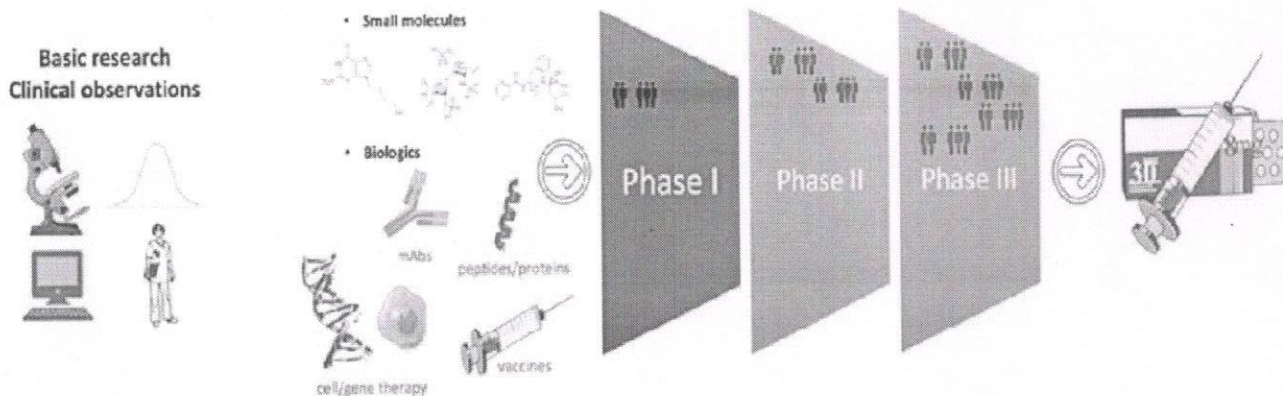
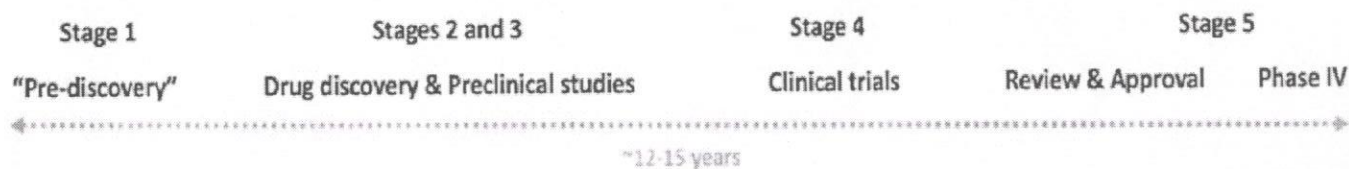
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PHARMACEUTICAL RESEARCH & DRUG DEVELOPMENT



Pharmaceutical research and development of new medicines is nothing but the Pharmaceutical R&D. It begins with understanding the disease and choosing a target (usually a receptor site on a cell) that can potentially be affected by a drug molecule. Identification of therapeutic agents modulating selected targets. Evaluation in human beings Response , Efficacy, Side effects. Review getting approval and post market monitoring.

03/11/2020 to 10/11/2020

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Medical Officer

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ADVANCEMENT IN NANOTECHNOLOGY

NANOTECHNOLOGY IN AGRICULTURE

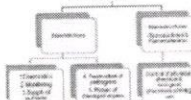
Nanometer also improve the productivity of crops and efficiently regulates the delivery of nutrients to plants and targeted sites, thus assuring the minimal usage of agrochemicals.



The efficient use of nanomaterials may reduce the negative environmental impact of conventional agricultural practices. In recent laboratory analyses, it has been reported that nano fertilizers can improve crop productivity by enhancing the rate of seed germination, seedling growth and photosynthetic activity.

Nanotechnology in medicine currently being developed involves employing nanoparticles to deliver drugs, heat, light or other substances to specific types of cells (such as cancer cells).

NANOTECHNOLOGY IN MEDICINE



ENGINEERING MATERIALS

The following nanotechnology examples demonstrate how nanotechnology engineering can be used to improve the functionality of certain products and impact production and processes across a range of industries.

CARBON NANOTUBE BODY ARMOR

Functional bulletproof materials are essential for law enforcement officers and military personnel, who are at

SOLAR PANELS

Solar power allows people to harness electricity from the sun without directly creating waste, but the process of creating solar cells is energy-intensive and can produce large amounts of waste.

As nanotechnology engineering evolves, it will continue to transform how scientists research and produce new materials at the molecular level.

ABOUT
Nanotechnology is the manipulation of matter on a nano-scale to produce new structures, materials and devices.

Nanotechnology is generally defined as engineering structures, devices, and systems. Nanoscale refers to those things that have a length scale between 1 and 100 nanometers.



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04/01/2021 to 09/01/2021

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BREAST AND CERVICAL CANCER

Cervical Cancer Is Linked to Sexual Activity
 Cervical cancer affects the lower part of a woman's reproductive system. There are 13,000 new cases of cervical cancer each year. Studies have found a number of activities can contribute to a woman getting cervical cancer including having sexual intercourse with many partners and cigarette smoking.

Learning how to find breast and cervical cancer in their early stages can help save your life.

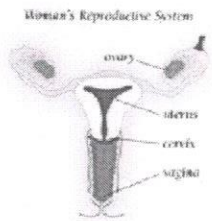


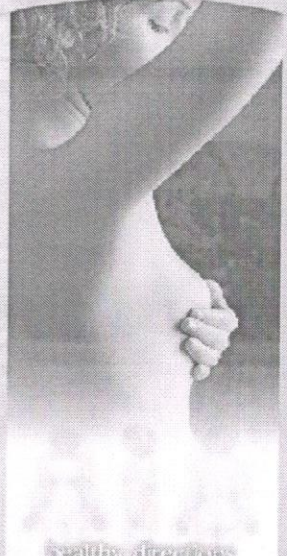
Breast Cancer Is the Second Most Common Cancer in Women
 More than 280,000 women get breast cancer each year. If it is found early enough, it can be treated. Some groups of women are at higher risk for breast cancer than others, these include:

- Women over 40 years old
- Women with a close family member that has had breast cancer
- Women who have had a child after age 30

Your Health Is Important
 Take care of your health, do it for yourself and for your family. For more information on breast and cervical cancer, call the National Cancer Institute at 1-800-4-CANCER. Or visit their Web site at www.cancer.gov

Breast & Cervical Cancer
find them early and save your life

healthy directions

22/03/2021 to 27/03/2021

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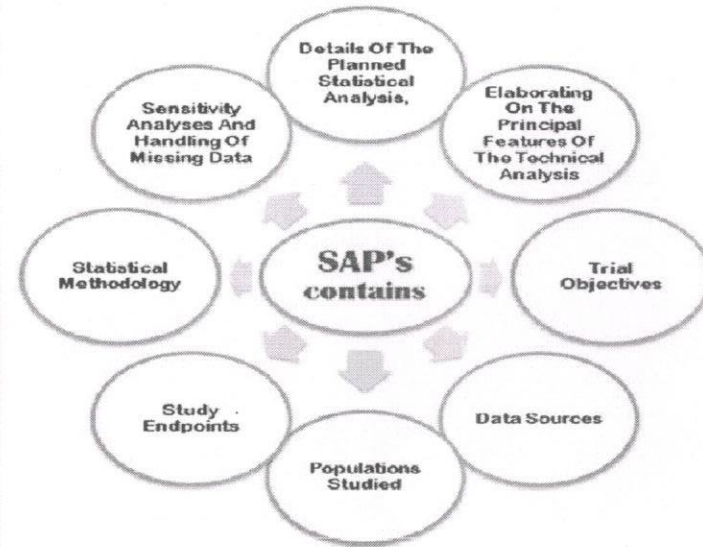
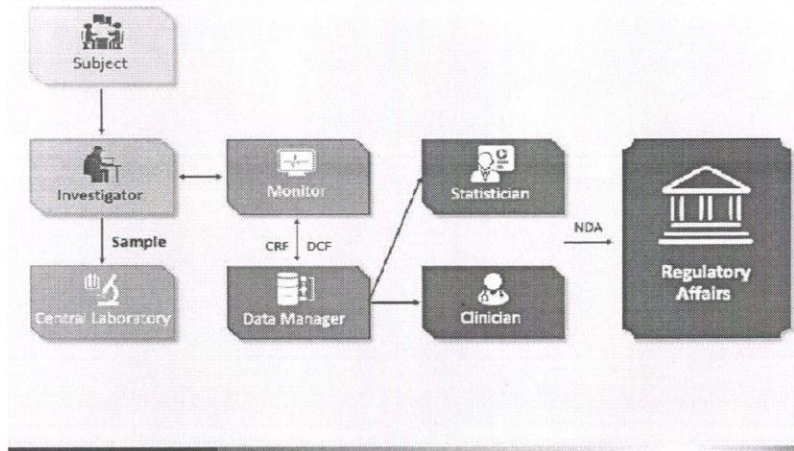


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CLINICAL DATA MANAGEMENT AND STATISTICAL ANALYSIS SYSTEM

CLINICAL DATA MANAGEMENT
Clinical Data Management Process



SAP is crucial, more challenging task and is one of the key Regulatory confidential documents in the development of a clinical trial. It provides explicit guidance on statistical programming and the presentation of results. The following four important types of SAP are used in a clinical trial. (i) Data monitoring, (ii) Interim statistical analysis, (iii) Integrated statistical analysis plan, (iv) Statistical analysis plan for clinical study.

21/06/2021 to 26/06/2021

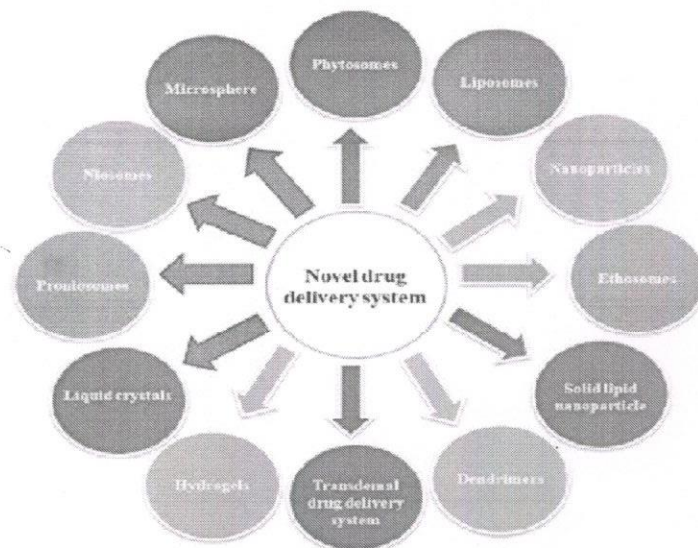
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PHARMACEUTICS & NOVEL DRUG DELIVERY SYSTEM



Novel Drug delivery System (NDDS) is for delivery of drug other than traditional drug delivery system. It refers to the approaches, formulations, technologies, and systems for transporting a pharmaceutical composite for therapeutic effects. It is a arrangement of advance technique and new dosage forms which are far better than conventional dosage forms. Advantages are: Optimum dose at the right time and right location, Efficient use of expensive drugs, percipients and reduction in production cost, useful to patients, better therapy, improved comfort and standard of living.

25/10/2021 to 30/10/2021

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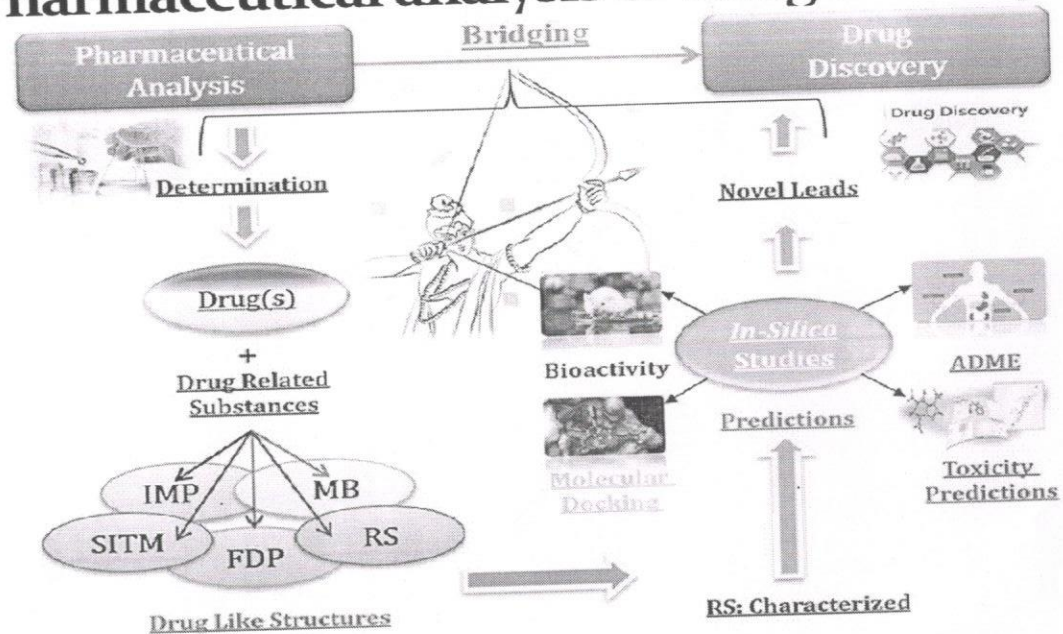
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Pharmaceutical analysis & Drug Development



Pharmaceutical drug analysis (PDA) may be extended towards comparative in-silico predictions for drugs and RS. This may lead to the evaluation of drug likeliness of nontoxic RS as an incentive to study them additional. It may help to widen horizon from regulatory toxicology evaluation towards drug discovery. The extension of impurity profiling, after toxicity evaluation, to ADME estimation, QSAR studies, molecular docking, and bioactivity prediction, has widened the purposes of drug analysis. The RS which has low toxicity may be in-silico exploited for their therapeutic potential before to entering into the DD path.

13/12/2021 to 18/12/2021

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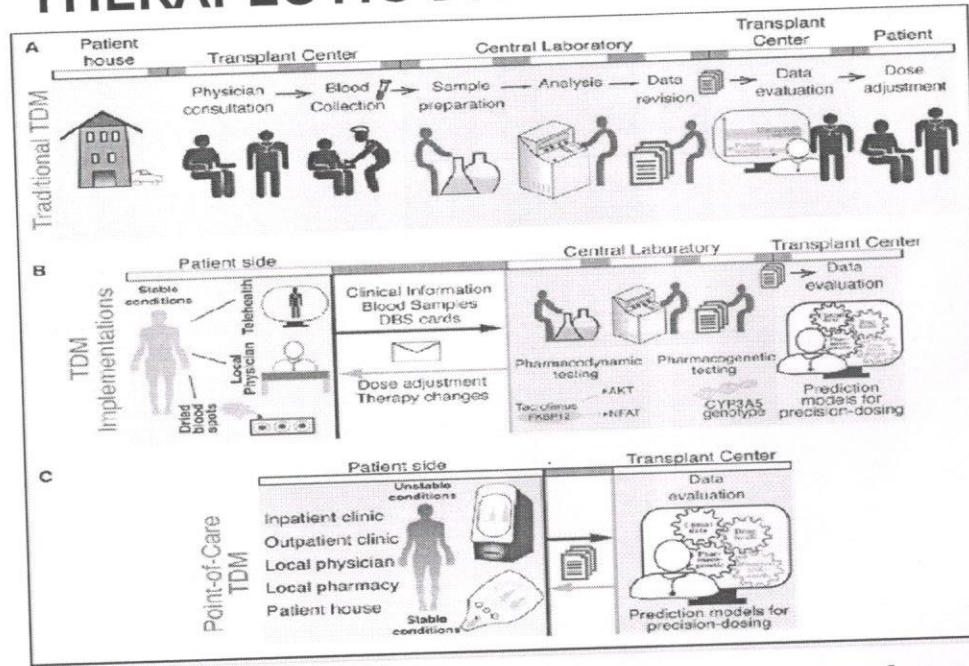
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THERAPEUTIC DRUG MONITORING



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03/01/2022 to 08/01/2022

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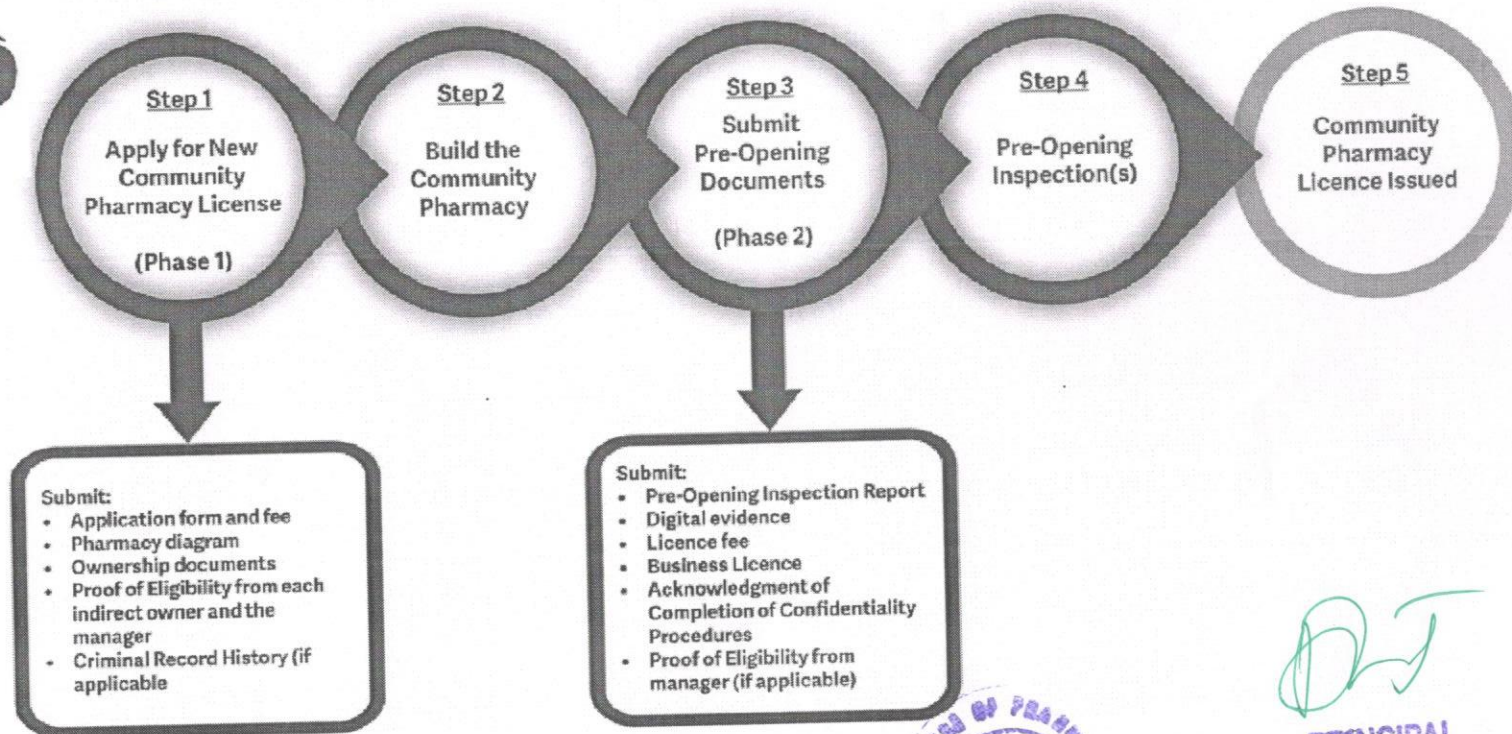
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COMMUNITY PHARMACY ENTREPRENEURSHIP



02/03/2022 to 08/03/2022

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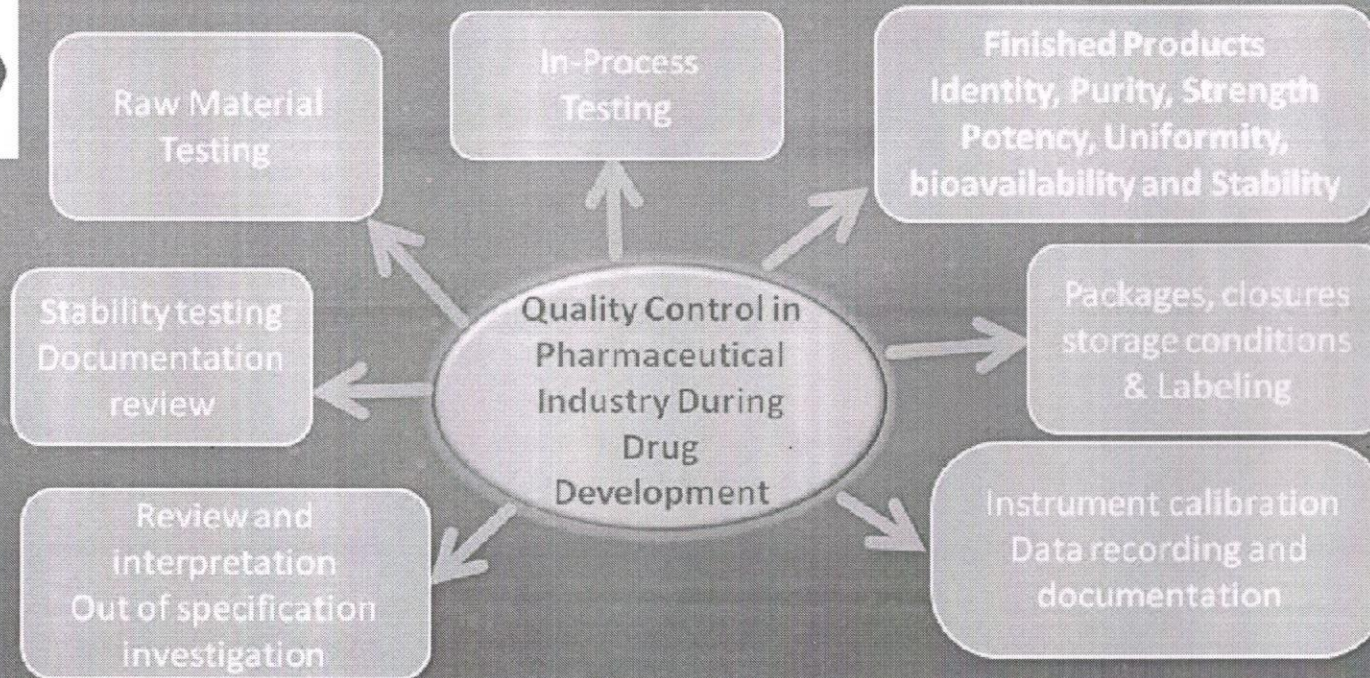
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DRUG DEVELOPMENT AND QUALITY CONTROL

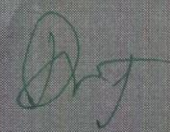


Quality control in drug development involves testing the drugs at various stages of their production to ensure highest quality. This department also tests the manufacturing process to ensure confirmation of specifications and limits. It also determines the acceptability of each batch before release and identifying the quality defects fixing the problems with correct techniques and measures.

06/04/2022 to 12/04/2022

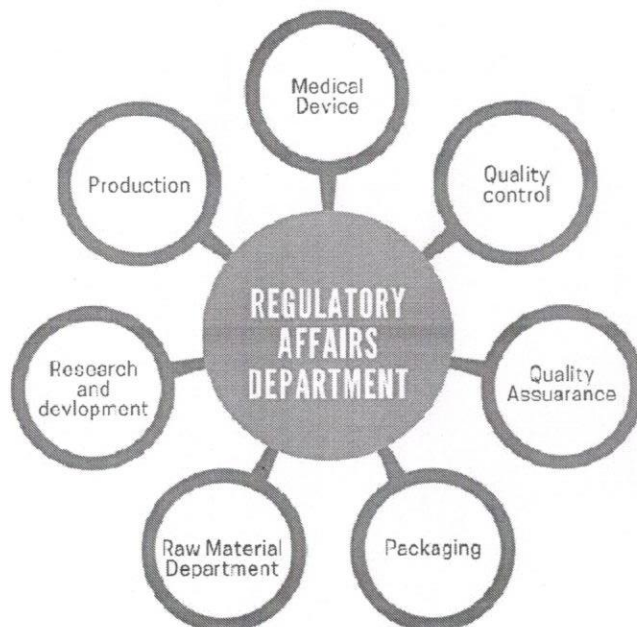
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DRUG REGULATORY AFFAIRS CHEMIST




Drug Regulatory Affairs (DRA) is a crucial component of the pharmaceutical industry that involves adhering to government regulations, policies, and procedures to oversee the development, testing, manufacturing, distribution, and marketing of pharmaceutical drugs, medical devices, and other healthcare products. The primary objective of DRA is to ensure that these products are safe, effective, and of high quality and that they are marketed in compliance with applicable laws and regulations.

17/10/2022 to 22/10/2022

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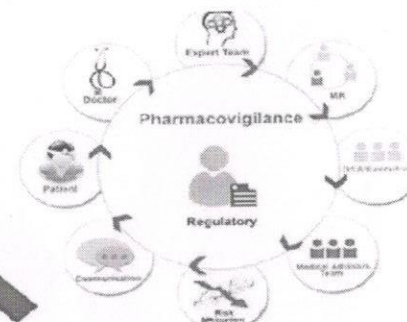
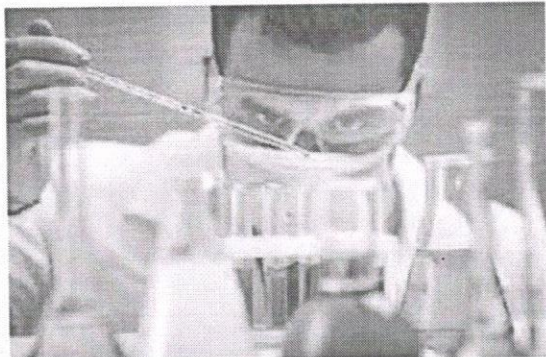



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CLINICAL RESEARCH & PHARMACOVIGILANCE

Clinical Research



Pharmacovigilance

Clinical research and pharmacovigilance share the common goal of improving healthcare. Clinical research focuses on developing new therapies by testing the safety and effectiveness of new medicines, while pharmacovigilance focuses on monitoring the safety of existing ones by activities related to detection, assessment, understanding and prevention of adverse effects or drug related problems.

04/05/2023 to 10/05/2023

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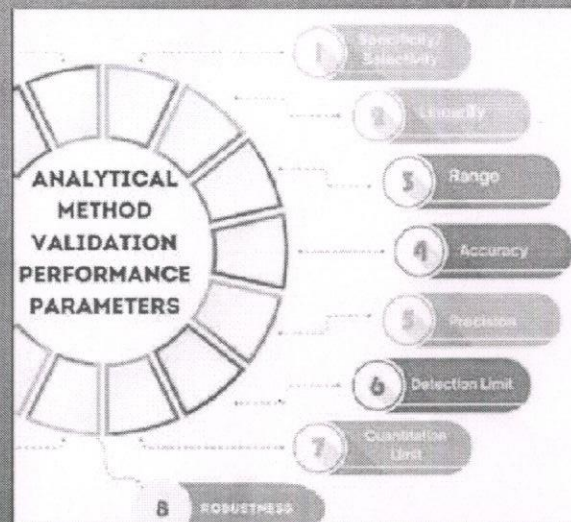
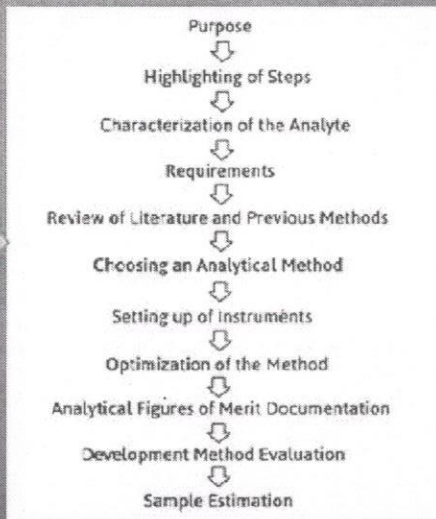
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ANALYTICAL METHOD DEVELOPMENT AND VALIDATION



Analytical methods are critical tools for ensuring the quality, safety, and efficacy of pharmaceutical products in the drug development process. The goal of method development and validation is to make sure that the methods used to measure the identity, purity, potency, and stability of drugs are accurate, precise, and reliable.

26/12/2022 to 31/12/2022

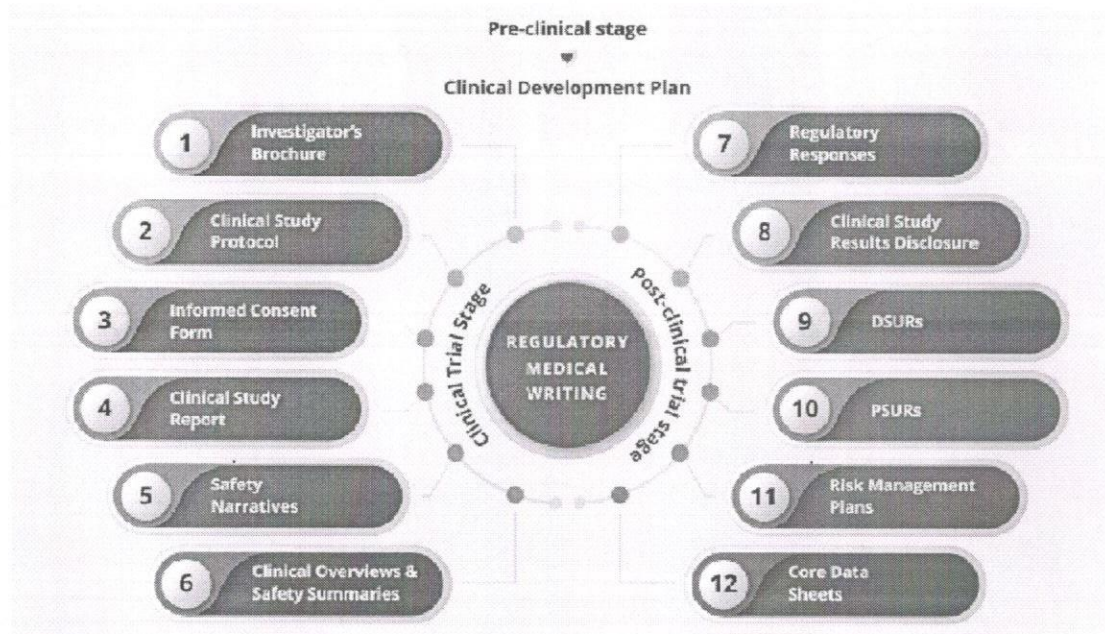
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REGULATORY MEDICAL WRITER



Regulatory medical writing is the unsung hero in the pharmaceutical world, translating scientific discoveries into approved treatments. Regulatory medical writers are key personnel in Regulatory setting in pharmaceutical products. These writers bridge the gap between complex clinical data and regulatory standards, crafting documents essential for government agency approvals.

26/12/2022 to 31/12/2022

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CLINICAL RESEARCH

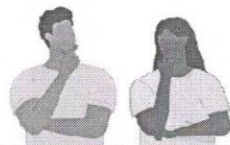
With the help of volunteer participants, clinical research leads to new and improved:

			
Medications, vaccines, therapies and treatments	Medical tests, procedures and practices	Medical tools, equipment and devices	Scientific knowledge and understanding of illness and disease

This type of research addresses a wide range of challenges, such as:

What types of health behaviours (such as diet, exercise, and sleep habits) lead to increased risk for certain diseases—even in childhood?

How can we ensure that organ transplants last as long as possible and that transplant recipients stay as healthy as possible?



Could video games and online puzzles improve rehabilitation programs?


What if patients helped design mental health supports? Could it enrich standards of care?


Would something new (such as a medication, surgery technique, therapy, medical device, procedure, or post-care program) work better than what is currently available for patients?

Do medications or drug interactions have different effects in men, women, and gender diverse people?

What does clinical research look like?

THERE ARE TWO MAIN TYPES OF CLINICAL RESEARCH:


OBSERVATIONAL STUDIES
In observational studies, researchers use questionnaires and medical tests to collect and analyze data about patients' health, habits and behaviours, biology, bodily functions and changes, and more. This helps researchers better understand the factors that contribute to health or disease.


CLINICAL TRIALS
In clinical trials, researchers test a new intervention—like a vaccine, medical device, or health program—and compare the results with a placebo group (i.e., a group that did not receive the intervention). This helps researchers determine whether the new intervention is safe and (more) effective for patients.

Clinical research is the comprehensive study of the safety and effectiveness of the most promising advances in patient care. It is different than laboratory research. It involves people who volunteer to assist us better understand medicine and health

15/04/2023 to 21/04/2023

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