

**Vinayaka Mission's College of Pharmacy,
Vinayaka Mission's Research Foundation
(Deemed to be University), Salem**

Sponsored Seminar / Workshop / Conference Conducted

| Sl No | Department | Name of the conference / Workshop/ Seminar conducted | Sponsored Agency | Type of Program | Duration | Month & Year |
|--------------|--------------------------|---|---|------------------------|-----------------|--------------------------------|
| 1 | Pharmacy Practice | Pharmacovigilance and Drug Safety | All India Council of Technical Education, New Delhi | Seminar | 2 Days | 08.12.2017 & 09.12.2017 |
| 2 | Pharmaceutics | PCI Sponsored CEP on Challenges and strategies on Effective Teaching and Learning Process | Pharmacy Council of India New Delhi | Seminar | 3 Days | 07.09.2018 to 09.07.2018 |
| 3 | Pharmaceutics | ICMR Sponsored National Seminar on Big Data and Pharmaceutical Drug Discovery | Indian Council of Medical Research, New Delhi | Seminar | 2 Days | 13.07.2019 & 14.07.2019 |
| 4 | Pharmaceutical Chemistry | Practice School Module | Pharmacy Council of India New Delhi | Workshop | 2 Days | 28.02.2020 & 29.02.2020 |

**Report on Two days AICTE sponsored National Seminar on
Pharmacovigilance and Drug Safety
08-09th December 2017**

A Two days AICTE sponsored National Seminar on Pharmacovigilance and Drug Safety was conducted in Vinayaka Mission's College of Pharmacy, Vinayaka Mission's Research Foundation (Deemed to be University) Salem on 8th & 9th December 2017.

This seminar aimed to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Pharmacovigilance and Drug Safety. It also provided a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Pharmacovigilance and Drug Safety.

Dr. B. S. Venkateswarlu, Principal, Vinayaka Mission's College of Pharmacy, Salem welcomed the gathering. Dr. V. R. Rajendran, Vice-Chancellor, Vinayaka Mission's Research Foundation (Deemed to be University) Presided over the function.

Thiru N.V. Chandrasekar, Vice– President, Vinayaka Missions was the Chief guest. Thirumathi Annapoorani Shanmugasundaram, Madam Founder Chancellor, Vinayaka Missions lighted the divine lamp and inaugurated the Seminar.

Dr. Y. Abraham, Pro Vice Chancellor and Dr. B. Jayakar, Registrar, Vinayaka Mission's Research Foundation (Deemed to be University) were the Guest of Honour and Dr. S. Suriyanarayanan Deputy Director (Research) VMRF-DU, felicitated the function.

Over 200 delegates were participated from Tamilnadu, Kerala, Karnataka, Andhrapradesh, Telungana and Madhyapradesh on this two days seminar. The chief guest and the speakers of were gratified by Dr. B. Arul, Professor and Head, Department of Pharmacy Practice, Vinayaka Mission's College of Pharmacy, Salem.

On the first day (08th Dec 2017) the first session was given by Dr. S. Sriram, Professor & Head, Dept of Pharmacy Practice, College of Pharmacy, SRIPMS, Coimbatore delivered the lecture on Integrating Drug Safety & Patient care for effective health care.

The second session was given by Dr. K. P. Arun, Assistant Professor, Dept of Pharmacy Practice, JSS College of Pharmacy, Ooty on the topic Impact of Pharmacogenetics on Pharmacovigilance.

The third session was engaged by Mr. T. Thirumalai Nambi, Senior Pharmacovigilance Associate, MMC, Madurai PvPI, on the topic Pharmacovigilance – Clinical Aspects and then the first day sessions were completed.

On the second day (9th Dec' 2017) the first session was engaged by Dr. R. Venkidesh, General Manager-Quality Assurance, Sai Mirra Innopharm Pvt.Ltd. Chennai. He delivered the lecture on the topic Pharmacovigilance & Drug safety

The second lecture was given by Dr. E. Manivannan, Associate Professor, Department of Pharmacology, Vinayaka Mission's Kirupananda Variyar Medical College, Salem on the topic Pharmacovigilance of Herbal drugs

The third session was engaged by Dr. Karthik Rakam, Associate Director, Tychee Innovations, Vijayawada, Andhra Pradesh on the topic: Prevention & Management of ADR

The fourth and Last session was engaged by Dr. B. Arul, Professor & Head, Department of Pharmacy Practice Vinayaka Mission's College of Pharmacy, Salem on the topic: Medication error & Patient & Safety

After each and every sessions there was an open discussion led by the speakers, and clarified the doubts of the delegates in the respective field.

The valedictory function was organized at 5.00 PM. The delegates given their feed back about the scientific sessions and their participant certificates were distributed to them. The two days seminar was ended with the vote of thanks by Mr. A. A. Mohammed Yasir Arafath, Asst. Professor, Department of Pharmacy Practice, Vinayaka Mission's College of Pharmacy Salem followed by High Tea.



Report on Three days PCI sponsored Continuing Education Program

On

“CHALLENGES AND STRATEGIES IN EFFECTIVE TEACHING AND LEARNING PROCESS”

7th – 9th September 2018

A three day PCI sponsored workshop on Continuing Education Program themed “Challenges and Strategies in Effective Teaching and Learning Process” was conducted by Vinayaka Mission’s College of Pharmacy, Vinayaka Mission’s Research Foundation (Deemed to be University) Salem from 7th to 9th September 2018.

The workshop was aimed to provide a platform for the Teaching faculties and Researchers to learn and share their expertise and experiences regarding the Challenges and Strategies in Effective Teaching and Learning Process related to the implemented PCI curriculum for the B. Pharmacy stream.

The workshop provided educators of different departments to present and discuss innovative techniques and sophisticated solutions concerned with the practical challenges encountered during adoption/implementation of recent PCI curriculum.

The inaugural function of the workshop was presided over by chief guests Dr.V.R.Rajendran, Vice-Chancellor, Vinayaka Mission’s Research Foundation (Deemed to be University), Thiru. N.V.Chandrasekar, Vice-President, Vinayaka Missions and Prof. K. Chinnasamy, President, State Pharmacy Council, Tamil Nadu

Prof. K. Chinnasamy, President, State Pharmacy Council, lighted the divine lamp and inaugurated the workshop followed by the welcoming address for the gathering by Dr. B. S. Venkateswarlu, Principal, Vinayaka Mission's College of Pharmacy, Salem. Dr. Y. Abraham, Pro Vice Chancellor and Dr. B. Jayakar, Registrar, Vinayaka Mission's Research Foundation (Deemed to be University) were part of the inaugural function as Guests of Honor and felicitated the function.

The souvenir of the workshop was released by Prof. K. Chinnasamy, President, State Pharmacy Council, Tamil Nadu and received by Dr. B. S. Venkateswarlu, Principal, Vinayaka Mission's College of Pharmacy, Salem.

Delegates from pharmacy colleges of various districts in and around Salem participated in this workshop. The speakers of the program from various institutions of Pharmacy shared their views and experiences with the participating delegates. The chief guest and the speakers of the program were greeted and gifted with the mementos by felicitators of various departments of Pharmacy, Vinayaka Mission's College of Pharmacy, Salem.

The first day of the workshop (07th Sep 2018), morning session started with the 1st lecture delivered by Dr. R. Kothai, Professor & Head, Dept of Pharmacology, Vinayaka Mission's College of Pharmacy, Salem, on Evidence based Education - Active Learning Strategies for effective Learning.

The days second session started post-lunch talk by Dr. C. S. Ramani Gopal, Professor & Head, Dept. of Management Studies, Kirupanada Variyar Engineering College, Salem on "Hurdles and its Overcomes in Class room Management". The

days session ended with the talk by Dr. T. K. Ravi, Principal & Head, Dept. of Pharmaceutical Analysis, SRIPS, Coimbatore on “PCI regulations for Pharmacy curriculum and defining program outcomes of new Pharmacy curriculum”.

The first session of the second day (08th Sep 2018), Dr. Narashiman Swaminathan, Professor- Physiotherapy, Vice-Principal, Faculty of Allied Health Sciences, SRIER (DR), Chennai delivered his speech “Technology tools-Game changer”. The second lecture of the days morning session was delivered by Dr.P.Gnanasekaran, Director – IQAC, VMRF (DU), Salem on The importance and Validity of TQM to improve learning Outcome”

The afternoon session of the second day started with the Dr. Munir Ahmed, Director, College Development Council, Rajiv Gandhi Univ. of Health Sciences, Karnataka, talk on “Evaluation of Teaching Methods-A comprehensive view”. The day was concluded with the second lecture of the session was given by Dr. B. Arul, Prof. & Head, Dept. of Pharmacy Practice, VMCP, Salem, shared his views and thoughts on “A Collaborative Teaching Method - Need of the Hour”

The first session of the third day (09th Sep 2018), started with Dr.K.Gowdhamarajan, Prof. & Head, Dept of Pharmaceutics, JSS College of Pharmacy, Ootacamund, speech of “Choice based credit system-Impact on Education” followed by the second lecture of the session by Dr. S. Sriram, Prof. & Head, Dept. of Pharmacy Practice, SRIPS, Coimbatore on the topic “A Comprehensive principles of problem based Learning - Pharma Education”

The afternoon session of the last day commenced with speech by Dr. M. Kumar, Prof. & Head, Dept of Pharm. Chemistry, Vinayaka Mission’s College of Pharmacy, on “Content knowledge-A Barrier to Teacher Development”. The last

session of the day and the also the workshop was delivered by Dr. B. S. Venkateswarlu, Principal, Vinayaka Mission's College of Pharmacy, Salem, on "Teaching Methods needs-Then and Now".

At the end of the sessions of the day, there was a panel discussions for an open discussion led by the speakers, and /clarified the doubts of the delegates in the respective field. Feed-back about the scientific sessions from the participants were collected.

The valedictory function was organized at 3.00 PM, where the participant were awarded with certificates of participation were distributed. The Vote of thanks was given by Dr. V. Muruganantham, Associate Prof., Dept. of Pharmaceutics, VMCP, Salem, followed by High Tea.





**ICMR SPONSORED NATIONAL SEMINAR ON
BIG DATA AND PHARMACEUTICAL DRUG DISCOVERY**



ICMR Sponsored National Seminar for two days (13th & 14th July 2018) was held at Auditorium of Vinayaka Missions College of pharmacy, Salem on the topic “Big Data and Pharmaceutical Drug Discovery”.





The programme on the first day started after registration at 10.01 am with inauguration. Invited chief guest Dr.Mrs.R.Anbu, District social welfare officer, Nammakkal district, Dr.B.S.Venkateswarlu Principal in-Charge were narrated about the Big Data and its Application in pharmacy field and all the department heads were present for the inauguration.

After tea break the session was started by 11.30 am, Mr.K.Chandra Mohan, Head, Bio-analytical Division, Syngene International limited, Bengaluru was gave speech on the topic, “Data analytical techniques used in Validation method”.



The goal of statistical analysis is to summarize a collection of data that provides an understanding of the examined method characteristic. Statistical analysis of data obtained during a method validation should be performed to demonstrate validity of the analytical method. The primary parameters used for the interpretation of analytical method validation results are the calculation of the mean (or average), standard deviation, relative standard deviation, confidence intervals, and regression analysis and the main tools are the *F*-test, *t*-test, and regression and correlation analysis. These calculations are characteristically performed using statistical software packages such as SPSS, R, and Minitab.



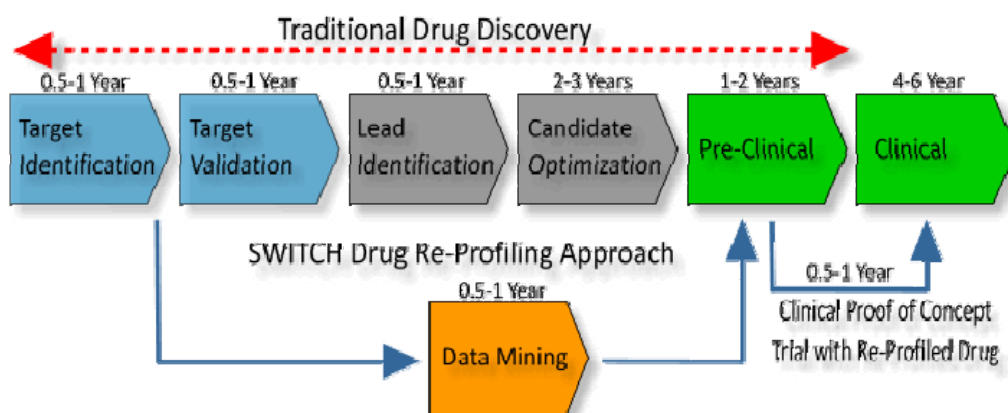
He briefed about how the Method validation helps to validate the analytical method for a range of concentrations so that the change in formulation or concentration do not require additional validation. Once the methods have been developed, qualified and validated the impact they have on out-of-specification rates and process capability needs to be quantified and evaluated to determine its effectiveness for future use.

The second session was given by Dr. Giles, Professor, Acharya B.M.Reddy College of Pharmaceutical Sciences, Bangaluru on the topic, “Drug Discovery and development”.



He gave an elaborated speech on various stages of drug discovery, Once researchers identify a promising compound for development, they conduct experiments to gather information on:

- How it is absorbed, distributed, metabolized, and excreted.
- Its potential benefits and mechanisms of action.
- The best dosage.
- The best way to give the drug (such as by mouth or injection).
- Side effects or adverse events that can often be referred to as toxicity.
- How it affects different groups of people (such as by gender, race, or ethnicity) differently.
- How it interacts with other drugs and treatments.



Stages

of Drug Discovery

- New insights into a disease process that allow researchers to design a product to stop or reverse the effects of the disease.

- Many tests of molecular compounds to find possible beneficial effects against any of a large number of diseases.
- Existing treatments that have unanticipated effects.
- New technologies, such as those that provide new ways to target medical products to specific sites within the body or to manipulate genetic material. Its effectiveness as compared with similar drugs.

Third session given by Mr. S.Balaji, Head, Scope-E-Knowledge, Chennai. He gave a seminar on the topic Pharma- Fields of Big Data. He narrated that "Big Data are high-volume, high-velocity, and/or high-variety information assets that require new forms of processing to enable enhanced decision making, insight discovery and process optimization"



What is BIG DATA

- Walmart handles more than 1 million customer transactions every hour.
- Facebook handles 40 billion photos from its user base.
- Decoding the human genome originally took 10years to process; now it can be achieved in one week.

Why Big Data

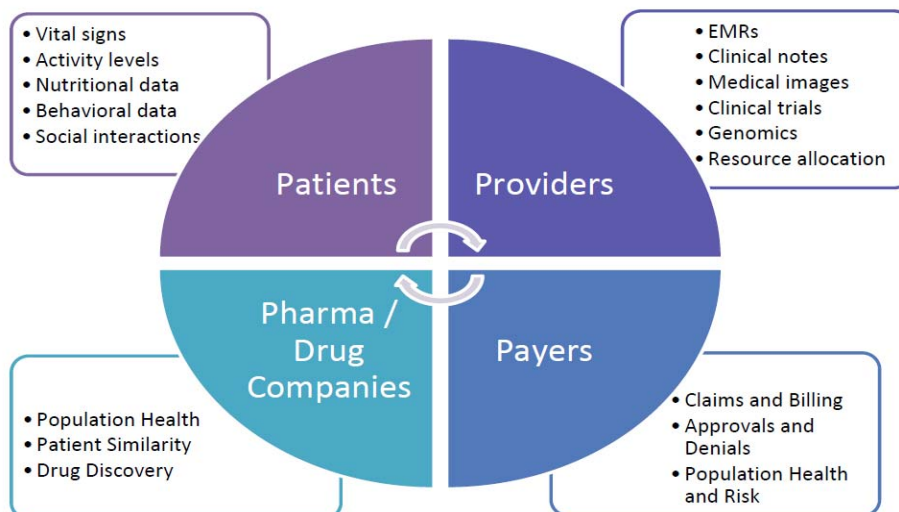
- Increase of storage capacities
- Increase of processing power
- Availability of data(different data types)
- Every day we create 2.5 quintillion bytes of data; 90% of the data in the world today has been created in the last two years alone

What to do with these data?

- Aggregation and Statistics
 - Data warehouse and OLAP
- Indexing, Searching, and Querying
 - Keyword based search
 - Pattern matching (XML/RDF)
- Knowledge discovery
 - Data Mining
 - Statistical Modeling



...With Many Ecosystem Stakeholders



...That Need Big Data Analytics

He gave an elaborated speech on Big data, its components and how can we use Big Data in pharmacy sector, Future aspects of Big data etc. Really it was an eye opening session for the young pharma buds.

Second day session started on 14 July 2018. First session started by Dr.Nagasamy Venkatesh, Assistant professor, JSS College of pharmacy, Ooty. He gave an elaborated practical demo class on the topic, “ *In vitro* dissolution calculation for release kinetics using excel work sheet”. He elaborated on

- Dissolution studies
- Rate of reaction
- Order of reaction
- Half life of drug
- Pharmaco kinetic data's etc.





Finally he gave an Practical demo class on *Invitro* dissolution calculation for release kinetics using excel work sheet, with example he worked out the different dissolution calculation, which was very much relevant to the seminar topic.

Second session started after tea break, Dr.P.Venkatesan ,Assistant professor , Department of Pharmacy, Annamalai University, Chidambaram gave a seminar on the topic, “QBD Analysis”.





Quality by design (QbD) is defined in ICH guidelines as ‘a systematic approach to pharmaceutical development starting with pre-defined objectives with an emphasis on product and process understanding control’.

Significance Of QbD

- Quality by Design means –designing and developing formulations and manufacturing processes to ensure a predefined quality
- Quality by Design requires – understanding how formulation and manufacturing process variables influence product quality.
- Quality by Design ensures – Product quality with effective control strategy

Within the pharmaceutical industry there is increasing discussion about the principles of QbD analytical methods. For many years, analysts used to develop a method based on trial and error approach. With this traditional approach, many unexpected results are observed during the stage of validation in chromatographic methods (HPLC/GC etc) including the disappearance of a few peaks or appearance of new peaks creating a need to go back from starting of the method development steps. This approach is very tedious and time consuming and it cannot give robust results. This can be avoided by applying Quality by design (QbD) approach. The degradants (impurities) can be separated (or quantified) using chromatographic techniques which can be tuned by many variables and all these variables can be optimised by QbD.

A key component of the development of analytical method using QbD is what has been called the Design Space (DS) which can be generated through experimental design. The main benefit of defining design space is that a flexible area can be determined in which regulatory post-approval change permission would not be required. As per the ICH Q8 guidelines, design space is defined as “multidimensional combination and interaction of input variables that have been demonstrated to provide assurance of quality”

Third session started soon after lunch break. Mr.Gopalan Marimuthu, Deputy Manager, Systems(IT SPOC for SARC),Syngene International Ltd, Bangaluru , gave an elaborated seminar on the Topic, “ Pharmaceutical Software in DD and R&D”.



He listed out N number of software's used in Pharma Fields, He explained about how effectively we can use those software's in DD and R&D fields. He listed out the follows,

Software Based Methods:

Software based methods such as [molecular modeling](#), structure-based drug design, structure-based virtual screening, ligand interaction and molecular dynamics are considered to be powerful tool for investigation of [pharmacokinetic](#) and [pharmacodynamic](#) properties of drug, and structural activity relationship between ligand and its target. Computational approaches such as docking confer interaction of small molecules with structural macromolecules and thereby hit identification and lead optimization.

- E-Notebook is used to record and protect organizations' intellectual property. E-Notebook may be used in multiple domains and for multiple targets:
 - Pharmaceutical companies, allowing scientists to record and analyze their lab experimental work
 - Food industries
 - Research centers
 - Schools and Universities
- Drag and Drop feature is a mechanism that allows users to bring files to the E-Notebook collections, providing the following advantages:
 - Making E-Notebook more user-friendly
 - Avoiding the issue that bringing existing contents to the Notebook requires too many lengthy Process
 - Maintaining the ability to edit and save of the hosted documents



After tea break second day's sessions were ended with Valedictory function, Principal in charge Dr.B.S.Venkateswarlu thanked all the invited speakers, delegates of different colleges and who were all worked for this function to become grand success.Finally,the seminar come to the end with National Anthem.

Practice School Module Workshop Inaugural Ceremony Report

The inaugural ceremony of Pharmacy Council of India, New Delhi Sponsored and Vinayaka Mission's College of Pharmacy, VMRF (DU), Salem organized National level workshop on "Practice School Module "Pharmacy Council of India (PCI) commenced with the heavenly blessings of Dr.Shanmugasundaram (Founder Chancellor,VMRF-DU) and the lighting of the divine lamp by the group of eminent dignitaries Tmt.Annapoorani Shanmugasundaram (Trustee, VMRF-DU), DR. Shailendra Saraf (Vice President, PCI), Dr.K.Sudhir, Vice Chancellor (VMRF-DU), DR.B.Jaykar. Registrar (VMRF-DU), DR.B.S.Venkateswarlu (Workshop Organising Chairman) and Convenor of the workshop DR.M.V.Kumudhawalli (VMRF-DU), on 28th February-2020 at 9.30Am in the college auditorium

The program was followed by prayer to almighty. Around 50 faculty members of different departments from various colleges and Universities were actively participated in the workshop.

DR.B.S.Venkateswarly, (Organizing Chairman of the Workshop) formally welcomed all the dignitaries present on the dais and participants from various colleges of the country, co-coordinators, core committee members' colleagues & students. She mentioned about the significance of Practice School Module and its aims about bringing faculty members from different Universities together with a significant participation from our own state Tamilnadu.

DR.Shailendra Saraf described the importance of Practice School in the remolding of student career and related fields of Pharmacy and how they are interconnected with each other. He motivated everyone to actively participate in the workshop to get benefited.

Dr.K.Sudhir Vice Chancellor of VMRF (DU) in his address, briefed about the importance of the practice school and our esteemed resource persons. He wished for the success of the workshop and inspired the participants.

DR.B.Jaykar, Registrar, VMRF (DU) elaborated the main theme of the workshop and hinted its relevance with future opportunities for a pharmacy graduates.

In the end DR.M.V.Kumudhavalli (Convener of the workshop) offered a vote of thanks to DR. ShailendraSaraf, Dr.K.Sudhir, DR., B.Jaykar, and Dr.B.S.Venkateshwarlu.

She further thanked all the invited guests, Resource persons, Co-coordinators, Organizing Committee members, Student volunteers and participants for gracing the occasion by their solemn presence. She specially thanked Tmt. Annapoorani Shanmugasundram (Trustee, VMRF-DU) for providing all kind of facilities to conduct such workshops in the centre.



