

REPORT ON INTERACTIVE SESSION ON RESEARCH ACTIVITIES

Date & Time of Event – 31th July 2022, 2:00 pm

Hosted by - Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, Tarnaka, Hyd.

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, College for Women, (Sponsored by The Exhibition Society), has organized an interaction session with **Dr. Y. Madhusudhan Rao**, Director, Vaagdevi Group of institutions on 31th July 2022, 2:00 pm. Dr. T. Mamatha introduced Dr. Y. Madhusudhan Rao to the faculty, explained in brief about the facilities available in the college, new courses introduced in the college and to be introduced by the college in the coming year. She then started the interaction session by handing over the mic to Y.M Rao sir.

Dr. Praneetha asked regarding phytosomes of Barbaloin and stability requirement in formulating a dosageform. Sir mentioned to formulate it into novel drug delivery system. If Barbaloin has to be formulated into Transdermal patches, we have to know the criteria for drug selection and its limitations. Do thorough literature survey before selection.

Mrs. Bhargavi asked about the type of dosage form to which the microspheres to be converted. Whether it is capsule filling or tablet compression. Sir replied to convert into either tablet or capsule. It depends on the polymer and concentration selected.

Dr. Hyma questioned about the type of polymer used for formulating Pyrazinamide liquid solid compact and improve its solubility. Sir mentioned to check the previous optimization technique data to information of polymers.

Dr. Lavanya then asked sir about optimization techniques to be used in preparation of fast dissolving films, how to proceed in a stepwise manner. Dr. YMRao sir replied by choosing Box Behken method and in this 3x3 or 3x4 model.

Dr.Hyma also asked about the names of new polymers available now and being used in research and development. Sir answered to use Ikea gum, which gives rate-controlled drug release.

Dr. Mamatha mam asked sir whether patent can be filed if it is from national origin. Sir replied that any work can be patented if its novel.

Mrs Swetha asked sir how to standardize plant material. Dr. Prashanthi asked whether nanoparticles are advantageous over microspheres. Sir said that nanoparticles are advantageous over microspheres.

Dr. Hyma asked about the name of high speed homogenizer to be procured. Sir told to buy Ultra Torrent.

Dr. Harika asked about the type of animals to be used for animal studies. Sir replied to use mice, rats, guinea pigs. He also mentioned to be careful when administering doses to animals. Use ingredients which are suitable to animals and doses sufficient to them. In animal experiments test with 1/100th of the dose. Sir told not to use Triton X- 100 as it is toxic to animals.

Dr. Asha Jyothi asked how to write a project proposal for funding. Sir told to initially do thorough literature survey, patent search and then finalise the topic of project.

Dr. Harika asked about the name of rotary flash evaporator to be procured Sir replied to get Hidolph brand. Harika also asked from natural products what type of cosmetic products are suitable. Sir replied it depends on their solubility.

Mrs. Srilalitha asked what type of dosage forms suitable for class IV drugs. Sir replied not to use such drugs for formulation as it is difficult to formulate.

Dr. Mamatha asked the range of particle size and zeta potential optimum range for dosage forms. Madam also asked about the equipment for measuring adhesive strength and name of dissolution equipment. Madam asked about the type of advanced viscometer and stability chamber to be procured. Sir answered that zeta potential of 35mv is good and particle size depends on the dosage forms. Sir recommended to use Mac Machine for adhesive studies and LabIndia/Electrolab for dissolution equipment. Sir also mentioned to get Plate and Cone viscometer as it can be used for a wide range of viscosities and stability chamber of Electrolab company.

Dr. Mamatha and Mrs. Swetha asked about how to plan commercial projects with simple polymers. Sir replied it is difficult to commercialize the dosage forms from college. Difficult

to procure large quantity of ingredients for the production. Getting the equipment is also difficult

Dr. Prashanthi asked whether to use chick ileum or goat ileum for exvivo studies and whether animal ethical committee permission is required for the study. Sir told pig ileum is good for human studies.

Mrs Indira asked about docking studies and use of natural products in HPLC. Sir replied not to depend on docking and to use reverse HPLC for natural products.

Dr. Mamatha mam thanked Dr. Y.M Rao sir for patiently listening all the queiries and answering them. The interaction session ended at 4.30 PM.

