



School of Pharmacy, Centurion University of Technology and Management, Rayagada

Webinar on Eco-Friendly and Economic Applications of Solubilizing Properties of Safe and Economic Solids in Various Fields of Pharmacy

Date: 19th April 2024

Organized by: School of Pharmacy, Centurion University of Technology and Management, Rayagada

Resource Person: Dr. R.K. Maheshwari, Ex-Professor and Head, Department of Pharmacy, SGSITS, Indore, Madhya Pradesh

On 19th April 2024, the School of Pharmacy at Centurion University of Technology and Management, Rayagada, organized an enlightening webinar focused on exploring the eco-friendly and economic applications of the solubilizing properties of safe and economic solids across various domains of pharmacy. Dr. R.K. Maheshwari, an eminent Ex-Professor and Head from the Department of Pharmacy at SGSITS, Indore, Madhya Pradesh, served as the esteemed resource person for the event.

Objective of the Webinar: The webinar aimed to elucidate the significance of utilizing safe and economical solid materials as solubilizing agents in pharmaceutical formulations. Dr. Maheshwari delved into the eco-friendly aspects of this approach while highlighting its economic viability. The session sought to broaden participants' perspectives on sustainable practices in pharmacy and their potential implications for research, development, and industrial applications.

Session Overview: Dr. R.K. Maheshwari commenced the webinar with an insightful overview of the solubilizing properties of various safe and economic solid materials commonly employed in pharmaceutical formulations. He elucidated the advantages of utilizing these solids, such as enhanced solubility, bioavailability, and stability of active pharmaceutical ingredients (APIs), while minimizing environmental impact and production costs.

The session encompassed the following key discussions:

Types of Safe and Economic Solids: Dr. Maheshwari elaborated on a range of solid materials, including cyclodextrins, lipid-based carriers, polymers, and natural excipients, known for their solubilizing properties and biocompatibility. He highlighted their diverse applications in drug delivery systems, such as oral, topical, and parenteral formulations.

Eco-Friendly Formulation Strategies: The resource person emphasized the importance of adopting eco-friendly formulation strategies to reduce the ecological footprint of pharmaceutical manufacturing processes. He discussed green chemistry principles and sustainable approaches for selecting, designing, and synthesizing solubilizing agents with minimal environmental impact.

Economic Benefits: Dr. Maheshwari elucidated the economic advantages associated with incorporating safe and economic solids into pharmaceutical formulations. He underscored their potential to lower production costs, optimize drug delivery systems, and improve the affordability of healthcare products, particularly in resource-constrained settings.

Case Studies and Applications: The webinar featured case studies and real-world examples illustrating the practical applications of solubilizing properties of safe and economic solids in diverse fields of pharmacy, including drug solubilization, stabilization, taste masking, and controlled release formulations.

Q&A Session: Following the presentation, an interactive question-and-answer session provided participants with the opportunity to seek clarification on specific topics, share insights, and engage in constructive discussions with Dr. Maheshwari.

Conclusion: The webinar concluded with a vote of thanks to Dr. R.K. Maheshwari for his invaluable contributions and expertise in elucidating the eco-friendly and economical applications of solubilizing properties of safe and economical solids in pharmacy. The event was highly informative, inspiring participants to explore innovative approaches towards sustainable pharmaceutical development.

The School of Pharmacy sincerely appreciates all participants for their active participation and enthusiastic engagement in this enlightening discourse. The webinar has undoubtedly enriched the knowledge and understanding of eco-friendly practices among the pharmacy community at Centurion University, paving the way for future advancements in sustainable pharmaceutical research and development.

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ECOFRIENDLY LECTURE SERIES 01 (Youtube)

TOPIC - Ecofriendly and economic uv spectrophotometric analysis of poorly water soluble drugs by application of hydrotropy, mixed hydrotropy and mixed solvency concept, without the involvement of organic solvents.

ECOFRIENDLY LECTURE SERIES 02 (Youtube)

TOPIC - Ecofriendly and economic titrimetric analysis of poorly water soluble drugs by application of hydrotropy, mixed hydrotropy and mixed solvency concept, without the involvement of organic solvents.

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Mixed Solvency Concept Parameter:2

- Blend: pH = 7.0
- Sodium benzoate – 5 % w/v
- Sodium caprylate – 5% w/v
- Sodium citrate – 5%w/v
- Poloxamer 407 – 5% w/v
- Water up to 100%

1. Frusemide solubility = 35 mg/ml in Blend (Water solubility less than 1 mg/ml)
2. Piroxicam solubility = 20 mg/ml in Blend (Water solubility less than 1 mg/ml)

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RKM Institute of Pharmacy, YouTube.

List of Participants

15:30 64%

Close Participants (41)

- DR Deepankar rath
- D Dibya Ranjan Behera .
- G G.likita
- H Himansu Sekhor Panda
- I iPhone
- IP Ipsita Patra
- JK JOGENDRA KUMAR
- KS K Shyam Sundar Rao
- KS Kamini Sethy
- MT m tejeswari
- MR Md Rizwan Ansari
- N Nikky
- P Pallishree

Invite

15:30 65%

Close Participants (41)

Search

- G Gopal (me)
- DR Dr. R.K. Maheshwari (Host)
- Abinash Patra
- BS B sanjita
- BA babita adhikary
- BS Bharatbhusan Sahu
- Bighnaraj Sahu
- B Bikash Singh Rajput
- CU Centurion University_Rgda
- Chandan Brahma
- CS Chandra sekhar Patro
- Deepak Gouda

Invite