

Report on Medicines Management Symposium on Critical Care 2025

Date: 31.10.2025 to 01.11.2025

Venue: Auditorium, JSSCPO

Organised by: Department of Pharmacy Practice, JSS College of Pharmacy, Ooty
Program Report Submitted by: Dr Ponnusankar S, Professor & Head, Department of Pharmacy Practice, JSSCP, Ooty

Sponsorship: JSS Academy of Higher Education & Research, Mysuru sponsored Medicines Management Symposium on Critical Care 2025.

Resource Persons:

1. Dr. Shri Vishwapal Sivakumar
Team Leader & Critical Care Pharmacist
Sri Ramakrishna Hospital, Coimbatore, Tamil Nadu, India

2. Dr. Nivedha Karthikeyan
Clinical Pharmacist & Clinical Preceptor (Part-Time)
Sri Ramakrishna Hospital, Coimbatore, Tamil Nadu, India

Schedule and Participants

The Medical Management Symposium was meticulously planned and executed over two consecutive days, following a detailed academic schedule that incorporated both theoretical and practical learning components. Each day was structured with a series of well-timed sessions, beginning with introductory talks, followed by student-led case studies and expert lectures delivered by invited resource persons. The sessions commenced promptly at 10:00 AM on Day 1 and 9:15 AM on Day 2, ensuring full utilization of the academic hours. Topics such as Shock and Its Types, Sepsis, Heart Failure, Sedatives and Hypnotics, Arrhythmias, Anticoagulant Therapy, and Myocardial Infarction were covered sequentially to provide students with an integrated understanding of critical care and cardiovascular pharmacotherapy.

The participants included Pharm. D students from second year, fifth year, interns M. Pharm 1st & 2nd years, faculty members from the Department of Pharmacy Practice. Eminent guest speakers, Dr. Shri Vishwapal and Dr. Nivedha K, shared their clinical expertise through interactive and case-based teaching methods. Student presenters, selected from different year groups, contributed to the symposium by preparing and presenting case studies, demonstrating teamwork and a deep understanding of the subjects. The diverse mix of presenters and attendees fostered a rich academic environment where learning was both collaborative and

experiential. Overall, the schedule was efficiently followed, and all participants displayed exemplary enthusiasm and professionalism throughout the event.

Day 1 (31.11.2025)

Inauguration and Structure

The *Medical Management Symposium* commenced with a formal inauguration by Dr. Ponnusankar. S, who initiated the event for 2 days. It was followed by a formal introduction to the resource personnel by Dr. Shyam nikethen G and Dr. Jeyaram Bharathi JB. Dr. K. P. Arun provided an overview of the Medicines management symposium, ensuring clarity on its objectives and expectations encouraging students to make the session more interactive and enthusiastic event. The Delegates were honoured with Aura and shawl by Dr. Arun K P and Dr. Mohsina Hyder for their appearance to the event and its successful conduct. To promote collaborative learning and interprofessional teamwork, students were divided into 8 groups with a mixture of M. Pharm, Pharm. D V year and Pharm. D VI Year of 9-10 members in each group and were seated accordingly. Dr. Raja Mohammed proposed the vote of thanks and wished for the best towards the successful conduct of the event

Lecture 1: Sepsis and Septic Shock – A Case-Based Approach

Presented by: Dr. Shri Vishwapal Sivakumar

Duration: 1 hour 30 minutes (Day 1, Forenoon Session)

Session Sequence:

The session began with an introduction on *Shock and Its Types* by **Mr. Parthasarathi** and **Ms. Pruthvi**. They provided a detailed lecture on the pathophysiology, epidemiology, treatment patterns to be followed in Shock management.

Dr. Shri Vishwapal then conducted an in-depth, evidence-based session on *Sepsis and Septic Shock*, integrating pathophysiology, diagnostic markers, and management strategies.

Content Presented:

- **Overview of Shock and Sepsis:**
Dr. Vishwapal defined circulatory shock and described sepsis as a life-threatening organ dysfunction caused by a dysregulated host response to infection (Sepsis-3 definition). He elaborated on the evolution from *Sepsis-1* to *Sepsis-3* and explained the key physiological parameters used in early identification.
- **Pathophysiological Insights:**
Emphasized cytokine-mediated vasodilation, capillary leakage, and myocardial suppression contributing to hypoperfusion. Discussed the interplay of immune dysregulation, endothelial injury, and coagulopathy (DIC cascade).
- **Diagnostic Evaluation:**
Explained SOFA and qSOFA scoring, laboratory findings (elevated lactate, procalcitonin), and hemodynamic parameters.
- **Management Approach:**
Detailed the *Surviving Sepsis Campaign 2021* recommendations: initiation of antibiotics within one hour, 30 mL/kg fluid resuscitation, vasopressor use (norepinephrine preferred), and source control measures.

- **Case-Based Clinical Correlation:**

Students interpreted a sepsis case involving *Acinetobacter baumannii* infection, discussing antimicrobial stewardship and the rationale for polymyxin B and sulbactam combination.

The session concluded with active Q&A on vasopressor titration, fluid selection (RL vs. NS), and antibiotic initiation timing.

This session was followed by a case study by Mr. Yokeshwaran and Ms. Thusita. The lecture on *Sepsis and Septic Shock* provided a thorough understanding of the pathophysiological cascade from infection to multi-organ dysfunction. Through Dr. Shri Vishwapal's discussion, students learned to identify early clinical markers, interpret SOFA scores, and implement evidence-based sepsis bundles. The integration of a real-world case emphasized the pharmacist's role in antibiotic stewardship, fluid resuscitation, and vasopressor selection. Students appreciated the dynamic interaction between theoretical learning and bedside application, gaining confidence in correlating clinical signs with laboratory data. The session concluded by reinforcing the principles of early goal-directed therapy, highlighting that timely intervention can drastically reduce mortality. This lecture enhanced not only pharmacological knowledge but also decision-making in critical care, preparing students to manage septic shock systematically within multidisciplinary teams.

Lecture 2: Heart Failure – A Case-Based Discussion

Presented by: Dr. Nivedha Karthikeyan

Duration: 1 hour 30 minutes (Day 1, Afternoon Session)

Session Sequence:

The topic was introduced by **Mr. Salman** and **Mr. Naveen**, followed by a case presentation by **Mr. Rathina Dhanush** and **Ms. Shriya Prakash**.

Dr. Nivedha subsequently conducted a comprehensive session on the pathophysiology, classification, and pharmacotherapy of heart failure, emphasizing clinical reasoning and drug optimization.

Content Presented:

- **Defining Heart Failure and Classifications:**

Introduced the clinical spectrum from HF_rEF to HF_pEF and the NYHA and Forrester classifications. Discussed compensatory mechanisms involving SNS and RAAS activation, leading to ventricular remodeling.

- **Diagnostic Approach:**

Illustrated interpretation of ECG, ECHO findings, and biomarker relevance (BNP, lactate, troponin).

- **Pharmacological Management:**

Explained inotropes (Dobutamine, Milrinone) with reference to the SOAP-II and DOREMI trials, vasopressors (Norepinephrine as first-line), and contraindications for beta-blockers in acute decompensation.

- **Clinical Application:**

Case discussions focused on patients with *cardiogenic shock* and *right-sided failure*,

highlighting diuretic management, SGLT2 inhibitors (DAPA-HF, EMPEROR-Reduced evidence), and ARNI restrictions in renal dysfunction.

- **Therapeutic Planning:**

Presented treatment hierarchies including DAPT, diuretics, vasodilators, and inotrope infusion protocols.

Dr. Nivedha Karthikeyan's session on *Heart Failure* bridged pathophysiological understanding with therapeutic precision. Students developed a holistic view of cardiac dysfunction, compensatory mechanisms, and pharmacologic interventions tailored to patient profiles. Through case-based learning, they learned to apply diagnostic criteria, interpret echocardiograms, and optimize drug regimens in acute and chronic heart failure. Emphasis on evidence-based trials such as DAPA-HF and EMPEROR-Reduced deepened their understanding of emerging therapies, including SGLT2 inhibitors and ARNI use. By analyzing real-life decompensated heart failure scenarios, students understood hemodynamic stabilization and the cautious use of beta-blockers and inotropes. The session concluded with the importance of individualized care, regular follow-up, and multidisciplinary collaboration to improve survival and quality of life. It effectively reinforced critical thinking, rational drug use, and clinical confidence in managing complex heart failure cases.

Lecture 3: Role of Sedatives and Hypnotics in Critical Care

Presented by: Dr. Shri Vishwapal Sivakumar

Duration: 1 hour (Day 1, Afternoon Session)

Session Sequence:

Students **Mr. Kanthimathimathi Meenal** and **Mr. Paul Mathivathana K** introduced sedatives and hypnotics, followed by a case discussion by **Dr. Ranil Boopathi** and **Mr. Shawn Lopes**.

Dr. Vishwapal's session provided a clinical framework for managing sedation in ICU patients.

Content Presented:

- **Principles of Analgo-Sedation:**
Discussed the "PADIS" guidelines emphasizing pain management before sedation, assessment using BPS and RASS scales, and delirium prevention.
- **Pharmacologic Overview:**
Compared benzodiazepines, propofol, dexmedetomidine, and ketamine. Highlighted hemodynamic considerations and adverse effects such as hypotension and propofol infusion syndrome.
- **Evidence and Practice:**
Referenced the MENDS and SPICE trials for light sedation benefits and shorter ventilator duration.
- **Clinical Integration:**
Through case correlation, explained how to titrate sedatives in mechanically ventilated patients, choose agents in renal/hepatic impairment, and assess readiness for weaning.

The lecture on *Sedatives and Hypnotics in Critical Care* offered an essential insight into the art of balancing sedation depth and patient safety in ICU practice. Dr. Shri Vishwapal emphasized the principle of “analgesia first,” detailing how appropriate pain and sedation management reduces delirium and ventilator-associated complications. Students gained proficiency in using sedation assessment tools like RASS and BPS, applying pharmacokinetic principles to tailor sedative therapy for critically ill patients. Real-world case discussions demonstrated how dexmedetomidine, propofol, and midazolam are selected based on hemodynamic profiles and organ function. The lecture also stressed adverse event monitoring, including hypotension, oversedation, and withdrawal. By linking clinical evidence from SPICE and MENDS trials to bedside protocols, the session reinforced rational sedative choice and safe titration strategies. Students concluded with a deeper appreciation for the pharmacist’s role in ensuring effective, individualized sedation management in critical care.

Day 2:

Lecture 4: Arrhythmias and Their Management

Presented by: Dr. Nivedha Karthikeyan

Duration: 1 hour 30 minutes (Day 2, Forenoon Session)

Session Sequence:

Introduced by **Ms. Sama Sruthi Reddy** and **Ms. Nithyasree**, with a case presentation by **Mr. Agarbala** and **Ms. Abigail James Raj**.

Dr. Nivedha elaborated on arrhythmia mechanisms, pharmacologic management, and evidence-based therapeutic decision-making.

Content Presented:

- **Pathophysiology and Classification:**
Reviewed cardiac conduction, impulse formation abnormalities, and ECG differentiation between supraventricular and ventricular arrhythmias.
- **Pharmacologic Management:**
Discussed Vaughan Williams classification, indications of amiodarone, lidocaine, and adenosine, and the monitoring of QT intervals.
- **Anticoagulation in Arrhythmias:**
Explained CHA₂DS₂-VASc scoring and the rationale for oral anticoagulants in AF management.
- **Case Integration:**
Students applied drug selection rationale for rate/rhythm control, reinforced by discussion on drug-drug interactions and hemodynamic implications.

Dr. Nivedha Karthikeyan’s lecture on *Arrhythmias* provided a comprehensive framework to understand the electrophysiological mechanisms underlying rhythm disorders and their pharmacotherapeutic management. Students learned to identify arrhythmia patterns on ECG and correlate them with underlying cardiac conditions. The session offered clarity on the Vaughan-Williams classification, mechanism of antiarrhythmic drugs, and the clinical balance between rate and rhythm control. Case-based discussions illustrated the use of agents like amiodarone, lidocaine, and adenosine, emphasizing monitoring parameters and adverse reactions such as QT prolongation. Dr. Nivedha also highlighted the significance of

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anticoagulation in atrial fibrillation, with CHA₂DS₂-VASc scoring as a decision-making tool. The session concluded by reinforcing the need for individualized therapy guided by hemodynamics and comorbidities. Students appreciated the integration of ECG interpretation with pharmacological reasoning, enhancing their ability to manage cardiac arrhythmias confidently in real-world scenarios.

Lecture 5: Anticoagulants, TPA, and Obstructive Shock

Presented by: Dr. Shri Vishwapal Sivakumar

Duration: 1 hour 30 minutes (Day 2, Forenoon Session)

Session Sequence:

Preceded by an introductory briefing by Dr. Vishwapal himself, this session served as a combined exploration of anticoagulant pharmacology and shock pathophysiology.

Content Presented:

- **Anticoagulant Therapy Overview:**
Detailed the mechanism and dosing of Warfarin, Acitrom, and DOACs (Dabigatran, Apixaban, Rivaroxaban).
- **Bridging and Perioperative Management:**
Discussed LMWH/UFH transitions, INR targets, and emergency reversal with PCC, Vitamin K, and Andexanet alfa.
- **Anticoagulants in Special Populations:**
Addressed therapy in pregnancy, renal impairment, and lactation based on safety profiles.
- **Obstructive Shock Component:**
Explained cardiac tamponade, tension pneumothorax, and pulmonary embolism mechanisms.
Case analysis demonstrated the diagnostic process using WELLS criteria, CTPA, and treatment protocols with UFH and thrombolysis.

The combined lecture on *Anticoagulants and Obstructive Shock* by Dr. Shri Vishwapal Sivakumar expanded students' understanding of both pharmacologic anticoagulation and hemodynamic emergencies. Beginning with the mechanism and clinical applications of heparins, warfarin, and DOACs, the session highlighted safe dosing, INR interpretation, and emergency reversal strategies. Students learned bridging protocols and the nuances of managing anticoagulation in renal or hepatic impairment. Transitioning to obstructive shock, Dr. Vishwapal skillfully connected the pathophysiology of tamponade, pneumothorax, and pulmonary embolism with diagnostic and therapeutic interventions. Real case illustrations demonstrated the clinical reasoning behind initiating UFH or fibrinolytics in PE management. The lecture emphasized pharmacist involvement in monitoring drug efficacy, minimizing bleeding risks, and supporting rapid clinical decisions. Concluding with an evidence-based approach, students gained a well-rounded understanding of managing critical shock and anticoagulant therapy with precision and safety.

Lecture 6: Myocardial Infarction – Case-Based Discussion

Presented by: Dr. Nivedha Karthikeyan

Duration: 2 hours 30 minutes (Day 2, Forenoon to Early Afternoon Session)

Session Sequence:

Introduced by **Mr. Dhevakumar** and **Ms. Rithanya**, followed by a case study presented by **Ms. Nimishambal** and **Mr. Bhargav Naidu**.

Content Presented:

- **Pathophysiology and Classification:**
Defined STEMI, NSTEMI, and unstable angina; discussed coronary anatomy and infarct localization via ECG leads.
- **Acute Management Protocols:**
Covered aspirin and dual antiplatelet therapy (Ticagrelor, Clopidogrel), fibrinolysis timelines (door-to-needle ≤ 30 mins), and PCI indications.
- **Post-Procedure Care:**
Addressed use of statins, beta-blockers, and nitrates with emphasis on the SYNTAX scoring for revascularization choices.
- **Case Correlation:**
Explored post-thrombolysis complications such as arrhythmias and hypotension. Discussed nitroglycerin infusion and correction of hyperkalemia in CKD.
- **Clinical Reasoning:**
Reinforced clinical judgement through patient-specific adjustments, adverse effect monitoring, and secondary prevention strategies.

The final lecture on *Myocardial Infarction* delivered by Dr. Nivedha Karthikeyan synthesized pathophysiological knowledge with real-time clinical application. Students were guided through ECG interpretation for STEMI and NSTEMI patterns, infarct localization, and prompt initiation of reperfusion strategies. Dr. Nivedha meticulously explained the pharmacotherapeutic sequence from aspirin loading to dual antiplatelet therapy, fibrinolysis, and PCI timelines. Case discussions illustrated post-thrombolysis complications, hyperkalemia management, and the rationale for adjunctive therapies such as beta-blockers, nitrates, and statins. By integrating the TIMI and SYNTAX scoring systems, she fostered analytical thinking in treatment planning. The lecture concluded by emphasizing secondary prevention through lifestyle modification and medication adherence. Students reflected a clear understanding of acute coronary management, drug interactions, and patient safety measures. The session profoundly reinforced the pharmacist's role in emergency cardiovascular care and long-term cardiac rehabilitation.

Summary of the Events:

Day 1 events:

The first day of the symposium commenced at 10:00 AM with an introduction to Shock and Its Types delivered by Mr. Parthasarathi and Ms. Pruthvi, setting the stage for deeper discussions on clinical management. This was followed by an expert session on “Sepsis and Septic Shock:

A Case-Based Approach” conducted by Dr. Shri Vishwapal Sivakumar, who emphasized early identification, sepsis bundles, and individualized antimicrobial therapy. This was followed by a tea break at 11:45 AM. The subsequent session introduced the topic of Heart Failure, with Mr. Salman and Mr. Naveen providing a foundational overview, complemented by a Case Study on Heart Failure presented by Mr. Rathina Dhanush and Ms. Shriya Prakash. Lunch break was given from 1:30 PM to 2:15 PM.

Post lunch, Dr. Nivedha Karthikeyan led an in-depth “Heart Failure: Case-Based Discussion”, highlighting key aspects of pharmacotherapy optimization, dose titration, and monitoring parameters in chronic heart failure management. Later in the afternoon, Mr. Kanthimathi Meenal and Mr. Paul Mathivathana K introduced Sedatives and Hypnotics in ICU practice. This was followed by a tea break at 4:15 PM. The day concluded with an insightful session titled “Role of Sedatives in Critical Care” by Dr. Shri Vishwapal, who explained the pharmacologic rationale, sedation scales, and safety monitoring in ICU sedation protocols by 5:20 PM. The first day was marked by strong student participation, dynamic interaction, and a well-balanced blend of academic and clinical discourse.

Day 2 events:

The second day began at 9:30 AM. The first expert session of the day, “Arrhythmias and Their Management,” was delivered by Dr. Nivedha Karthikeyan, who elucidated the mechanisms, pharmacologic interventions, and individualized drug selection strategies for arrhythmia management. This was followed by Dr. Shri Vishwapal’s comprehensive session on “Anticoagulants, Thrombolytics (TPA), and Obstructive Shock,” which covered the clinical nuances of antithrombotic therapy, safety monitoring, and the role of pharmacists in critical care anticoagulation stewardship. This was followed by a short Tea break at 11:00 AM. The day concluded with Dr. Nivedha’s case-based expert discussion on “Myocardial Infarction Management,” integrating current evidence-based treatment guidelines and patient-centered care strategies by 1:45 PM. Unlike Day 1, Day 2 primarily featured the expert sessions by Dr. Nivedha and Dr. Vishwapal, allowing for deeper clinical exploration and practical correlation of complex cardiovascular and critical care topics.

The structure of the symposium was thoughtfully designed to ensure a logical progression of topics and learning outcomes. Each day featured a balanced combination of introductory lectures, student-led case presentations, and expert discussions led by clinicians and academic professionals. The sessions were arranged in a sequence that facilitated continuity of learning starting from basic pathophysiological concepts, moving into real-life case studies, and culminating with advanced management strategies. Adequate breaks and interactive discussions were incorporated to maintain engagement and comprehension. The well-structured agenda allowed participants to grasp complex therapeutic concepts through a blend of theoretical and experiential learning, making the symposium both intellectually stimulating and practically relevant.

Student Participation and Engagement

The symposium demonstrated exemplary student engagement, particularly during Day 1 when all student groups actively participated in case presentations and introductory sessions. Their preparation and clinical reasoning reflected a commendable understanding of pharmacotherapeutic principles. On Day 2, students participated actively in discussions with the expert speakers, clarifying complex mechanisms, drug interactions, and patient management strategies. Interactive questioning and group engagement contributed significantly to the learning environment.

Conclusion

The two-day *Medicines Management Symposium* was a resounding success, achieving its goals of enhancing clinical knowledge, reinforcing patient-centered pharmacotherapy, and promoting evidence-based practice among pharmacy students.

The balanced combination of student-led presentations and expert sessions by **Dr. Nivedha K** and **Dr. Shri Vishwapal S** provided a holistic understanding of medicines management in critical care and cardiology settings.

The active involvement of faculty members, from Department of pharmacy Practice, JS College of Pharmacy, further enriched the academic value of the event. The symposium not only strengthened clinical competencies but also instilled a spirit of teamwork, analytical thinking, and lifelong learning among participants.

Valedictory Function

The symposium concluded with a Valedictory Function, marking the successful completion of the two-day event. The session began with reflections on the learning outcomes and experiences shared by both students and faculty members. Group 8 was recognized as the Most Interactive and Responsive Team for their active participation and accurate responses during Q&A sessions throughout the symposium. The team was awarded a memento in recognition of their enthusiasm and performance.

The valedictory addresses were delivered by Dr. Ponnusankar S, professor & HOD, Department of Pharmacy Practice, JSS College of Pharmacy, and Dr. K.P. Arun, Vice-Principal, JSS College of Pharmacy. Both speakers appreciated the efforts of the organizing committee, faculty coordinators, and student participants for their dedication and professionalism. They emphasized the importance of continuous clinical learning and interdisciplinary collaboration in the evolving field of pharmacotherapy.

Student feedback was then collected, highlighting the sessions' practical relevance, the clarity of expert talks, and the interactive nature of the symposium. The event concluded with a certificate distribution ceremony, where all participants received certificates of participation in recognition of their active involvement and commitment to professional learning.

Dr. S. Ponnusankar

Program Co-Ordinator

JSS College of Pharmacy, Ooty
Medicines Management Symposium on Critical Care 2025

31st October & 1st November 2025

Venue: Auditorium, JSS College of Pharmacy, Ooty

FEEDBACK

JSS College of Pharmacy, Ooty

Medicines Management Symposium on Critical Care 2025

31st October & 1st November 2025

Venue: Auditorium, JSS College of Pharmacy, Ooty

FEEDBACK FORM

Thank you for participating in the Medicines Management Symposium scheduled from 31.10.2025 to 01.11.2025. Your feedback is valuable in improving the quality of our curriculum in the upcoming Teaching-Learning modules. Please take a few minutes to complete this form.

Question	Response
The symposium helped me understand the principles of medicines management in real clinical settings.	Likert Scale (1–5)
Rate your ability in identifying and managing critical conditions such as sepsis, shock, heart failure, MI and arrhythmias after the symposium.	Likert Scale (1–5)
The sessions improved my ability to apply pharmacotherapy concepts to patient care.	Likert Scale (1–5)
The discussions and case examples enhanced my problem-solving and clinical reasoning skills.	Likert Scale (1–5)
The symposium bridged the gap between classroom learning and real-world clinical application.	Likert Scale (1–5)
The sessions encouraged active participation and interaction with the speakers.	Likert Scale (1–5)
The symposium provided clarity on rational drug use and optimization in complex clinical conditions.	Likert Scale (1–5)

Rate the overall flow and organization of the symposium effective for learning.	Likert Scale (1–5)
What aspects of the symposium helped you understand medicines management better? (Multiple selection)	Checkbox Options: Case discussions / Real-world clinical examples / Speaker explanations / Q&A sessions / Interaction with clinical pharmacists / Other
How confident are you in applying what you learned to real clinical situations?	Likert Scale (1–5)
Overall, how satisfied are you with the Medicines Management Symposium?	Likert Scale (1–5)
Please share one suggestion or topic you would like included in future clinical pharmacy symposia.	Your Answer
Any other comments	Your Answer Answer

JSS College of Pharmacy, Ooty

Medicines Management Symposium on Critical Care 2025

Feedback Analysis Report

Feed Back from the Symposium:

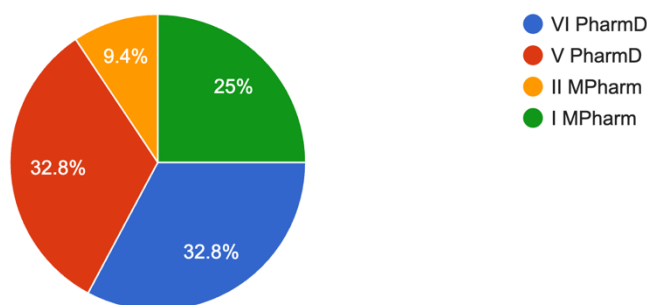
Below is a **400–500 word Feedback Analysis Report** based on the charts, survey responses, and thematic summaries you provided. This is written in a clean, formal, event-report style and can be directly inserted into your final documentation.

Feedback Analysis Report

The Medicines Management Symposium conducted on 31.10.2025 and 01.11.2025 received feedback from 64 participants representing various academic levels, including VI PharmD, V PharmD, I MPharm, and II MPharm students. Participation was almost evenly distributed between PharmD and MPharm cohorts, indicating broad academic engagement. The overall feedback reflected a highly positive learning experience, with participants expressing satisfaction regarding the structure, relevance, and delivery of the sessions.

Total Participants

Course:
64 responses



Learning Experience and Understanding

A significant majority of the students strongly agreed that the symposium enhanced their understanding of medicines management in real clinical settings. More than two-thirds (67.2%) rated the statement with the highest score, while no participant disagreed. Similarly, a substantial proportion rated their improved ability to manage critical conditions including sepsis, shock, heart failure, myocardial infarction, and arrhythmias at 4 or 5 on the Likert scale. Participants also acknowledged improvements in applying pharmacotherapy concepts, problem-solving, and clinical reasoning. Many agreed that the symposium effectively bridged the gap between theoretical learning and practical clinical application, particularly through case discussions and real-world examples presented by practicing Clinical Pharmacists.

Reflection and Improvement

In the reflection section, participants highlighted specific components that significantly supported their learning. Case discussions, real-world clinical scenarios, Q&A sessions, interaction with clinical pharmacists, and clear explanations by speakers were frequently selected as the most beneficial elements. The majority rated the overall flow and organization of the symposium as effective for learning, with strong confidence in applying gained knowledge to actual clinical situations.

Suggestions for Future Topics

Participants recommended expanding future symposia to include a broader range of specialized clinical topics. The most frequently mentioned areas included oncology, pulmonology (particularly COPD), cardiology, nephrology, pediatrics, psychiatry, gastroenterology, dermatology, infectious diseases (TB and mosquito-borne diseases), neurology, diabetology, surgery-related discussions, antimicrobial stewardship, and emergency medicine. Additionally, several respondents suggested incorporating updates on new treatments, country-specific therapy variations, and topics related to artificial intelligence in clinical decision-making. Many emphasized the importance of detailed case analyses and disease explanations before discussions.

General Comments and Additional Suggestions

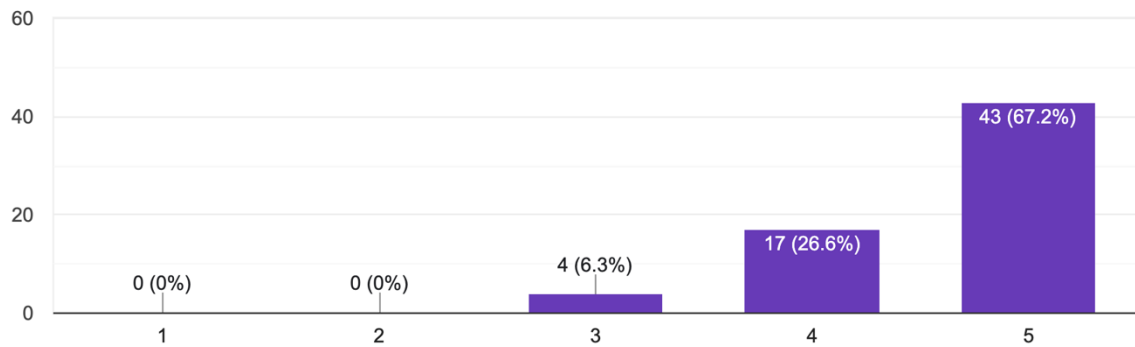
Feedback indicated strong appreciation for the symposium's relevance, structure, and interactive teaching methods. Participants expressed that the sessions were motivating and helped compensate for limited clinical mentorship exposure in hospital settings. Many requested more frequent symposia to enhance continuous learning and skill development. Another recurring suggestion was the inclusion of industry-oriented sessions to support students pursuing pharmaceutical careers outside clinical practice. Participants also praised the group activity format, noting its effectiveness in improving engagement and collaborative learning.

Conclusion

Overall, the feedback demonstrates that the symposium successfully met its learning objectives and provided substantial academic and practical value. The insights gathered will serve as a strong foundation for further enhancing future programs, making them even more comprehensive, interactive, and aligned with evolving educational and professional needs.

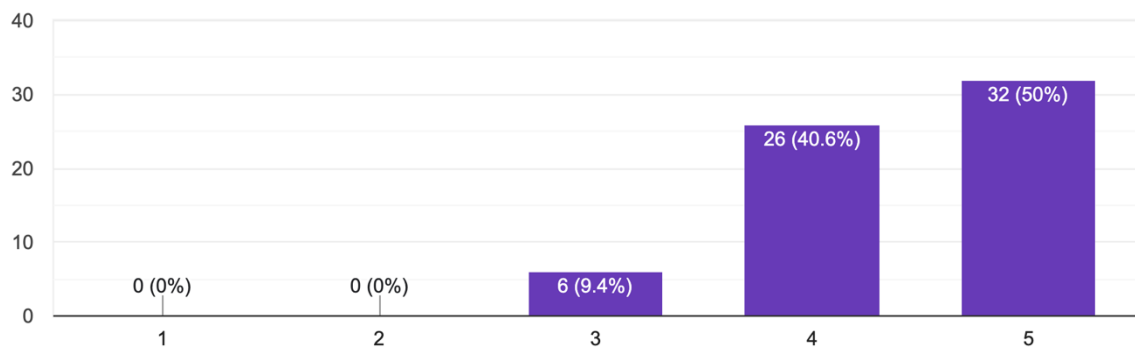
The symposium helped me understand the principles of medicines management in real clinical settings.

64 responses



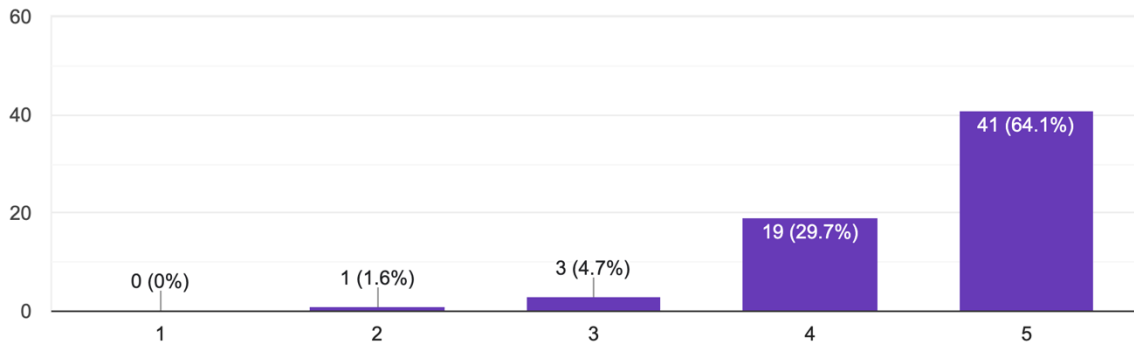
Rate your ability in identifying and managing critical conditions such as sepsis, shock, Heart failure, MI and arrhythmias after the symposium

64 responses



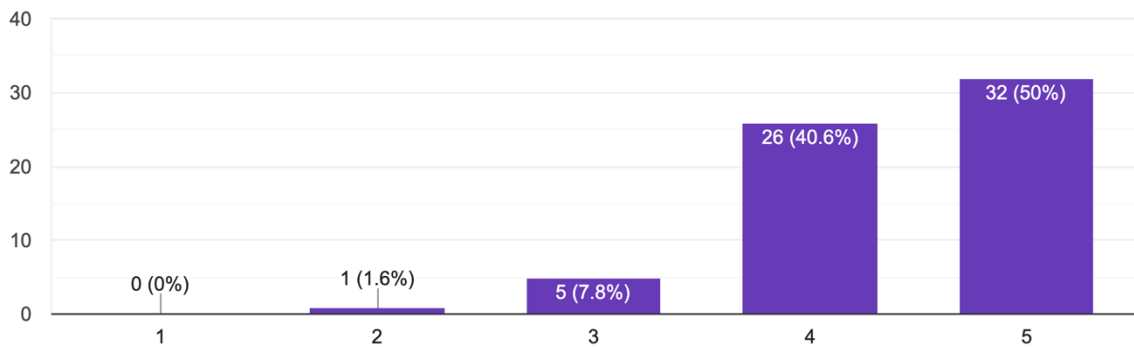
The sessions improved my ability to apply pharmacotherapy concepts to patient care.

64 responses



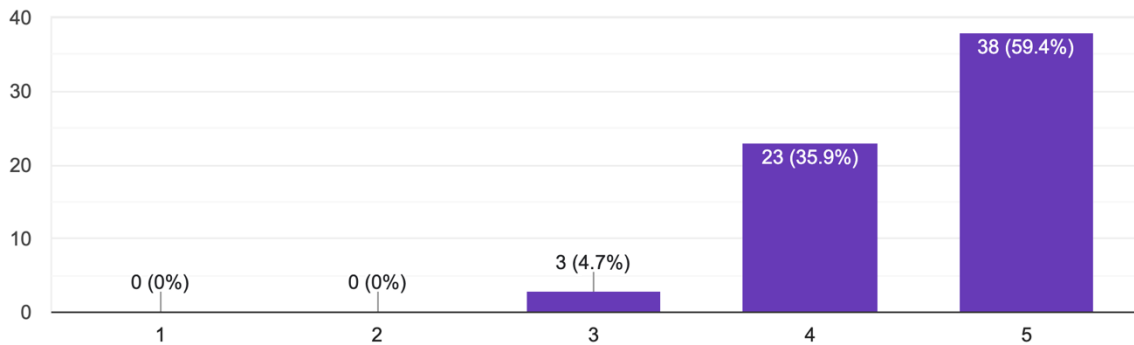
The discussions and case examples enhanced my problem-solving and clinical reasoning skills.

64 responses



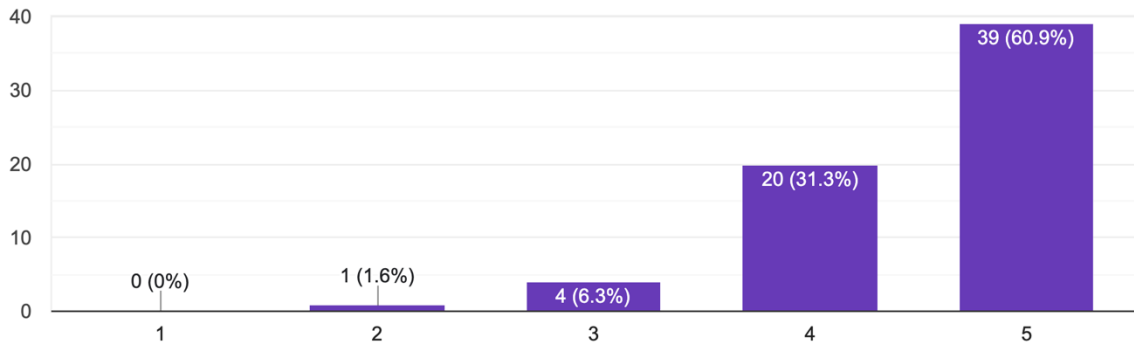
The symposium bridged the gap between classroom learning and real-world clinical application.

64 responses



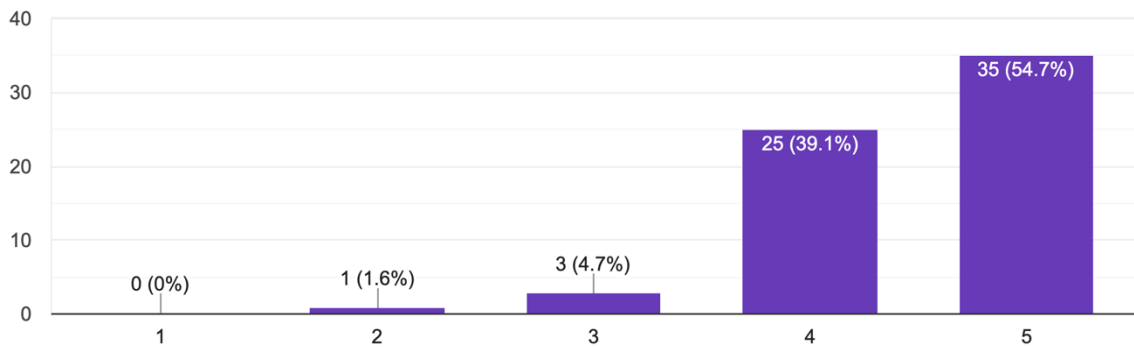
The sessions encouraged active participation and interaction with the speakers.

64 responses



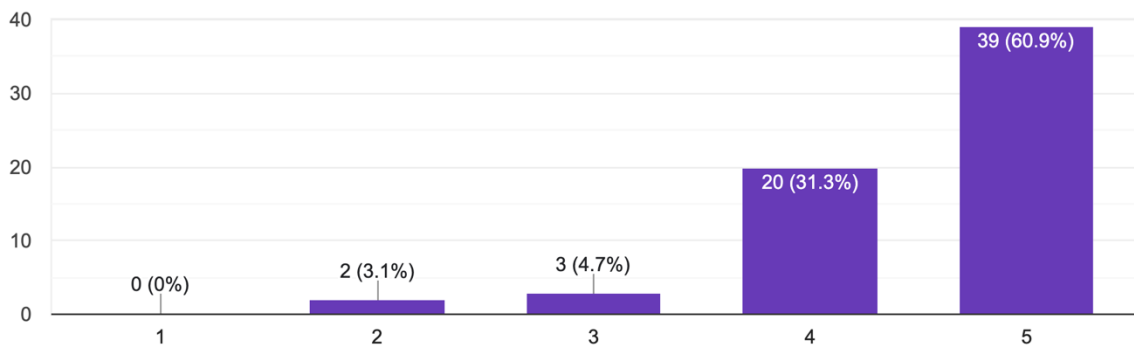
The symposium provided clarity on rational drug use and optimization in complex clinical conditions.

64 responses



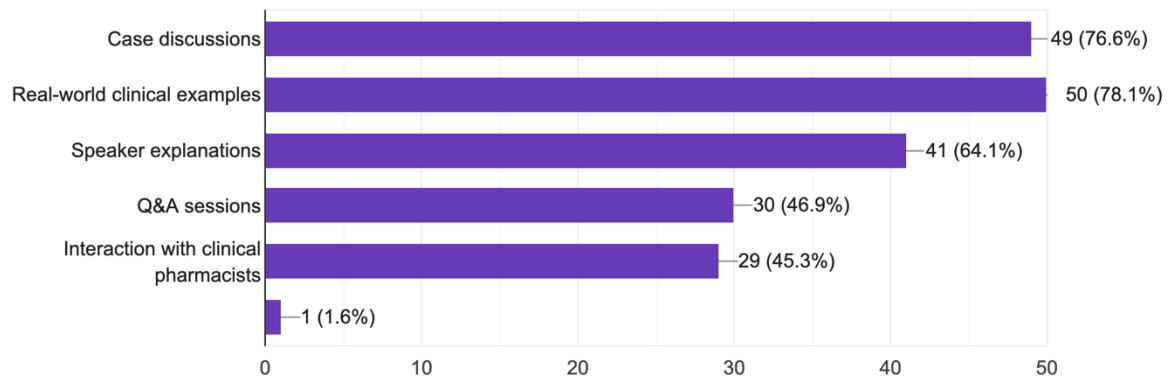
Rate the overall flow and organization of the symposium effective for learning.

64 responses



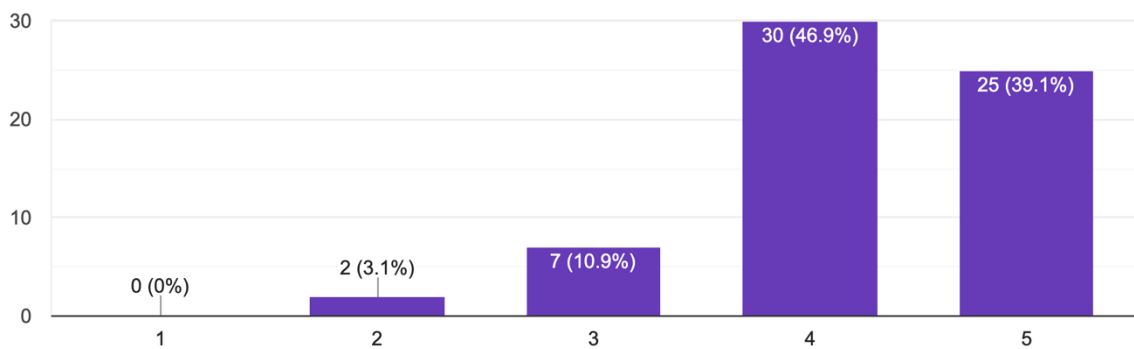
What aspects of the symposium helped you understand medicines management better? (can be a multiple selection)

64 responses



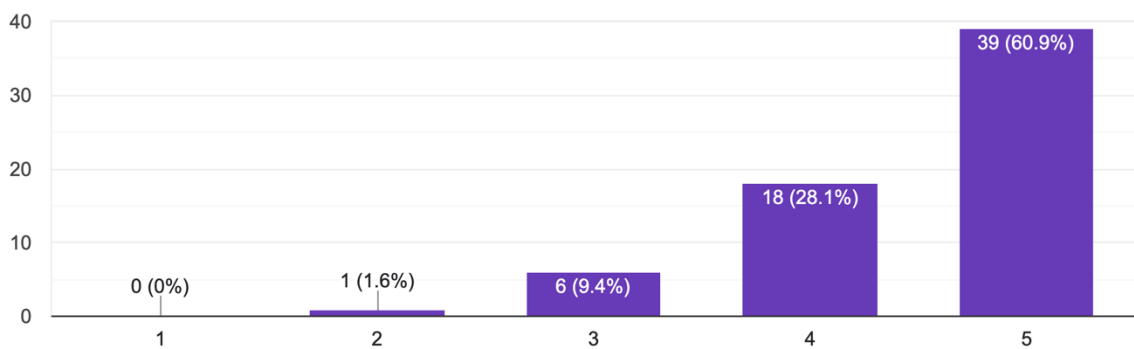
How confident are you in applying what you learned to real clinical situations?

64 responses



Overall, how satisfied are you with the Medicines Management Symposium?

64 responses



Please share one suggestion or topic you would like included in future clinical pharmacy symposia.

Participants provided a wide range of suggestions for topics and improvements for future symposia. The majority of responses emphasized the inclusion of more **specialized clinical topics, practical case discussions, and improvements in session structure**. The key themes are summarized below:

1. Suggested Clinical Topics

Participants expressed interest in expanding the academic depth of the symposium through the inclusion of diverse therapeutic areas such as:

- **Oncology** (most frequently mentioned)
- **Pulmonology**, including COPD and other respiratory diseases
- **Cardiology**, specifically heart failure and congestive cardiac failure
- **Nephrology**, including acute kidney injury
- **Gastroenterology** and gastric care
- **Psychiatry**, psychological conditions, and psychopharmacology
- **Dermatology**
- **Pediatrics**
- **Infectious Diseases**, including tuberculosis and mosquito-borne diseases
- **Neurology**, including Alzheimer's disease and stroke
- **Diabetes** and updated treatment guidelines
- **Emergency Medicine** and the clinical pharmacist's role
- **Antimicrobial stewardship**
- **Surgery-related topics**

2. Educational and Practical Enhancements

Participants recommended several enhancements to improve learning outcomes:

- Incorporation of **more real-world clinical examples** and **detailed case discussions**
- **More pediatric-based cases** and practical applications
- **Clear explanation of disease management** before moving into case discussions
- **New treatment updates**, new medicines, and **country-level practice variations**
- Sessions focused on **drug awareness**
- Sessions about the **use of artificial intelligence in the clinical sector**

3. Improvements to Symposium Format

Feedback regarding the structure and delivery of the symposium included:

- **Shorter session durations** or reduced daily timings, as prolonged sessions reduce attentiveness
- Inclusion of more **interactive group activities** to improve engagement
- Conducting **Q&A sessions** to clarify participants' doubts
- Making the symposium more **career-relevant** for students
- Ensuring content remains **highly relevant to current healthcare needs**

4. General Comments

Some participants provided simple acknowledgements such as:

- "Good", "Useful", "Great", "Nil", or "No suggestions".

Additional comments

Participants shared a range of closing remarks regarding their experience at the symposium. Overall feedback was **highly positive**, emphasizing the usefulness, relevance, and impact of the sessions. The major themes are summarized below:

1. Overall Satisfaction

Many respondents expressed general appreciation for the symposium, noting that it was:

- “Good”, “Useful”, “Very informative”, “Great experience”, and “A good session overall.”
- Well-structured and relevant to clinical practice.
- Highly valuable for understanding treatment approaches and case discussions.

2. Requests for More Frequent Symposia

Several participants expressed a desire for:

- **More frequent symposium events**, as they found the sessions beneficial and motivating.
- Continued opportunities to interact with practicing Clinical Pharmacists.

3. Impact on Learning and Motivation

Participants highlighted that:

- The symposium helped them understand real-world clinical problem-solving.
- Exposure to practicing Clinical Pharmacists boosted their motivation to pursue the field.
- Case discussions and group-based learning were particularly appreciated.

A few participants mentioned that such events help compensate for **limited clinical mentoring** in hospitals for PharmD students, making these symposia crucial for developing practical skills.

4. Suggestions for Additional Content

A common theme was the request to include:

- **Industry-oriented sessions** for students interested in careers outside clinical pharmacy.
- Topics covering **industry job roles** and pathways.
- Continued focus on constructive feedback and interactive elements.

5. General Remarks

Some respondents provided neutral acknowledgments such as “No”, “Nil”, “None”, or “No comments”. Others expressed gratitude toward faculty members, organizers, and resource persons for the opportunity and exposure.