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Shaukat Khanum Memorial Trust (SKMT)

Pharmacy Newsletter

Volume XIII, Issue # 4, 2023

Issued By:

Drug Information Centre, SKMT

P&TC Updates:

Pharmacy & Therapeutics Committee (P&TC) has approved the following drugs during 2023 at SKMCH&RC:

- **Eltrombopag Tablet** - - as regular formulary item – Restricted by Cost (Approved for indigent patients with post-transplant graft failure)
- **Ceftaroline Injection** - as regular formulary item – Restricted by ID
- **Isavuconazole Injection & Capsule** - as regular formulary item – Restricted by ID
- **Valganciclovir Tab** - as regular formulary item – Restricted by Service by ID (Approved for CMV infections)
- **Ciclosporin Cap & Inj** - as regular formulary item for GVHD prevention & treatment in allogeneic BMT patients
- **Ruxolitinib Tab** - Treatment of steroid-refractory or steroid-dependent acute graft versus host disease (GVHD) in allogeneic BMT patients. Approved for 4 patients per year (Acute GVHD Only)
- **Hyoscine Syrup & Inj** - Syrup for hyper salivation induced by radiation / chemotherapy & injection for malignant bowel obstruction
- **Maltodextrin (food additive)** for enhanced recovery after surgery pathway

Drugs deleted from Formulary:

1. **Echocardiography Contrast (Perflutren Protein Type A) Injection**
2. **Urokinase Injection**
3. **Racemic Epinephrine 2.25% Inhalation**



Novel Drug Approvals by FDA for cancer treatments in 2023

Brand Name	Active Drug Ingredient	Approval Date	FDA approved use on approval date
Truqap	Capivasertib	11/16/2023	To treat breast cancer that meets certain disease criteria
Orserdu	Elacestrant	1/27/2023	To treat estrogen receptor-positive, human epidermal growth factor receptor 2-negative, ESR1-mutated, advanced or metastatic breast cancer with disease progression following at least one line of endocrine therapy
Fruzaqla	Fruquintinib	11/8/2023	To treat refractory, metastatic colorectal cancer
Augtyro	Repotrectinib	11/15/2023	To treat ROS1-positive non-small cell lung cancer
Ogsiveo	Nirogacestat	11/27/2023	To treat adults with progressing desmoid tumors who require systemic treatment

ISMP Unveils Targeted Medication Safety Best Practices for Community Pharmacies 2023



The Institute for Safe Medication Practices (ISMP) has introduced the inaugural set of Targeted Medication Safety Best Practices for Community Pharmacy. These guidelines aim to mitigate recurring medication safety issues and enhance patient well-being. ISMP emphasizes the necessity for community pharmacies, also applicable to ambulatory care pharmacies, to prioritize these practices over the next two years, drawing on practical strategies already implemented by numerous organizations. Although tailored for community pharmacies, these best practices hold relevance for various healthcare settings. It is imperative for pharmacy leaders to acknowledge errors as learning opportunities and undertake measures to prevent their recurrence. The 2023-2024 best practices tackle several critical areas

1. Preventing wrong patient errors when filling prescriptions, responding to questions, and administering vaccines
2. Expanding and maximizing the use of barcode scanning during medication and vaccine dispensing
3. Avoiding errors involving inadvertent daily dosing of methotrexate for non-cancer indications
4. Standardizing the use of metric (milliliter--mL) units of measure when prescribing, dispensing, and measuring oral liquid medications
5. Using information about medication safety risks and errors that have occurred in other organizations to take preventative action

Shaukat Khanum Memorial Trust, Department of Pharmacy, complies with all of above best practices.

Advancements and Considerations in Compounding Sterile Preparations:

Focus on Cytotoxic Chemotherapy

In the realm of pharmacy practice, compounding sterile preparations, particularly cytotoxic chemotherapy, requires meticulous attention to detail and adherence to strict guidelines to ensure patient safety and therapeutic efficacy. Here are key points to consider:



- Pharmacists involved in compounding cytotoxic chemotherapy must adhere to regulatory standards set forth by organizations such as the United States Pharmacopeia (USP) and the International Society of Oncology Pharmacy Practitioners (ISOPP).
- Implementing robust quality assurance measures is crucial to minimize the risk of contamination and ensure the potency and stability of compounded cytotoxic chemotherapy agents.
- Compounding cytotoxic chemotherapy requires strict adherence to safety protocols to protect pharmacy personnel from exposure to hazardous drugs. This includes the use of appropriate personal protective equipment (PPE), such as gloves, gowns, and masks, as well as the implementation of engineering controls, with regular monitoring.
- Pharmacists and pharmacy technicians involved in compounding sterile preparations, particularly cytotoxic chemotherapy, should undergo comprehensive training and education to ensure competency in compounding techniques, safety procedures, and regulatory requirements.
- Continuous quality improvement initiatives should be implemented to monitor and evaluate compounding processes, identify areas for enhancement, and implement corrective actions to optimize patient outcomes and minimize medication errors associated with High-Alert medication, when compounding sterile preparations, including cytotoxic chemotherapy.

2nd Pharmacy Practicum

Sterile Compounding 9th March 2024

JOIN US FOR THE 2ND PHARMACY PRACTICUM ON STERILE COMPOUNDING, HOSTED BY THE DEPARTMENT OF PHARMACY AT SKMT ON MARCH 9TH, 2024. THIS IMMERSIVE SESSION OFFERS HANDS-ON EXPERIENCE, EQUIPPING PARTICIPANTS WITH CRUCIAL SKILLS IN ASEPTIC TECHNIQUES, COMPOUNDING, AND QUALITY ASSURANCE. ENHANCE YOUR EXPERTISE IN STERILE PHARMACEUTICAL PREPARATIONS. DON'T MISS THIS OPPORTUNITY!

The poster is for the '2nd PHARMACY PRACTICUM STERILE SERVICES'. It features a dark blue background with white and red text. At the top, it lists sponsors: Shaheed Khawar Memorial Cancer Hospital and Research Centre, and ASHP ASCO QOP. Below the title, it says 'BRIDGING PROFESSIONAL KNOWLEDGE WITH PRACTICE'. There are eight circular portraits of speakers, each with their name and title. The 'Learning Objectives' section lists topics like aseptic techniques, compounding, and quality assurance. At the bottom, it provides the date and time: 'MARCH 9th 2024' from '09:00 - 13:00 Pakistan Time'. Contact information for the Department of Pharmacy at SKMT is also provided, along with a QR code for registration.

Sharing is Caring

2nd International Medication Safety Symposium

The enhancement of patients' well-being is intricately linked to the secure and proficient utilization of medications, emphasizing the paramount goal of treating ailments while safeguarding patients from harm. At the core of the patient care pyramid is the pivotal aspect of medication safety, serving as the cornerstone of effective treatment modalities. The Department of Pharmaceutical Services at Shaukat Khanum Memorial Trust (SKMT) takes immense pride in showcasing the outstanding achievements of the 2nd International Medication Safety Symposium, centred on the theme of "Medication Safety in Transforming Healthcare." In a truly remarkable event held on November 18, 2023, at Faletti's Hotel Lahore, the department orchestrated a symposium that showcased the forefront of global practices in ensuring the safe use of medications and brought together global leaders, healthcare professionals, and experts to delve into the forefront of medication safety implementation science and assessment methods.





Mr. Omar Akhlaq Bhutta, Associate Director Pharmacy SKMT, opened the symposium event, and Dr Muhammad Aasim Yousaf, CMO of SKMT, gave the opening speech. The Keynote speaker, Mr. Sardar Shabir, shared insights on regulatory safeguards, renowned International speaker, including Mr. Paul W. Bush, Vice President of Global Resource Development and Consulting at ASHP, shared insights and expertise, where as Dr. Muhammad Tahir Aziz, Mr. Shoab Shammass, Ms. Sumaira Khan, Prof. Dr. Syed Atif Raza, and Mr. Ashfaq Ahmed Mehar, shared the perspective of healthcare professionals, academia, and pharmaceutical industry, on matter of medication safety. Engaging panel discussions, Q&A sessions, and a Kahoot activity provided a dynamic platform for knowledge exchange and collaboration.

22nd Shaukat Khanum Cancer Symposium

The 22nd Annual Cancer Symposium was held by Shaukat Khanum Memorial Cancer Hospital and Research Centre (SKMCH&RC) from 3rd to 5th November, 2023 at Serena Hotel, Peshawar. Oncology Pharmacy session was hosted by the Department of Pharmaceutical Services on 5th of November. Themed "Forecasting Oncology



Pharmacy: Telemedicine, Artificial Intelligence, and System Innovation," the session highlighted the pivotal role of oncology pharmacy in cancer patient treatment and care. Chaired by Dr. Muhammad Ismail Tajik, Dr. Muhammad Tahir Aziz, and Omar Akhlaq Bhutta, the event welcomed esteemed speakers such as Dr. Fakhar Ud Din, Mr. Ghulam Mujtaba, Mr. Inam Ul Haq, Mr. Abdul Wahab Afridi, Mr. Jehan Zeb Khan, and Mr. Shoaib Shammas. The event underscored the crucial role of pharmacists in ensuring safe and effective medication use, providing valuable support and education to patients and healthcare professionals. Recognizing pharmacists' expertise in medication management, the symposium celebrated their pivotal role in improving patient outcomes through medication selection, dosing, administration, and education, addressing complexities in cancer treatment.

Antibiotic Stewardship Awareness Webinar

Muhammad Rehan Khan, Deputy Manager Pharmacy, Shaukat Khanum Memorial Cancer Hospital & Research Centre, moderated a webinar on Antibiotic Stewardship Awareness to educate healthcare professionals and the general public about the importance of rational antibiotic use. Sajjad Ullah, Senior Clinical Pharmacist, participated in the webinar aimed to address the growing concern of antibiotic resistance



and provide practical strategies for understanding, supporting, and implementing antibiotic stewardship programs in healthcare settings. Experts shared their knowledge and experiences, emphasizing the need for collaborative efforts to combat this global health threat. These informative sessions are a valuable resource for the health sector and the general public to keep them updated and informed regarding the latest developments and strategies in fighting against this critical issue.

One-day seminar at Bacha Khan University Charsadda

Bacha Khan University Charsadda recently hosted a one-day seminar on critical healthcare topics, specifically Medication Safety and Anti-Microbial Resistance, organized by the Department of Pharmacy. Distinguished speakers from Shaukat Khanum Memorial Cancer Hospital Peshawar, including Abdul Wahab, Deputy Manager Pharmacy and Preceptor of IPPRP (ASHP), and Sajjad Ullah, Senior Clinical Pharmacist and ASHP Residency Program Director, , along with Arshee Rehman, ASHP Resident, shared



valuable insights. Dr. Dur-e-Najaf Khan and Dr. Muhammad Hassan acknowledged the participants and guests for their active involvement. Shields were awarded to recognize the contributions of organizers and speakers. The seminar facilitated meaningful discussions, reinforcing the university's dedication to advancing pharmaceutical education and practice.

Session on "Inclusive Solutions: Addressing Antimicrobial Resistance" at University of Peshawar

At the University of Peshawar's Department of Pharmacy, a session on "Inclusive Solutions: Addressing Antimicrobial Resistance" on December 4, 2023, featured Ghulam Mujtaba, Pharmacy Manager, SKMCH&RC, Peshawar, as the key presenter. His expertise highlighted causes, risks, and strategies against resistance.

Muhammad Asif, Clinical pharmacist, Amjad Anwar, Staff Pharmacist and Ramsha Abid, ASHP resident, contributed significantly. Amjad Anwar's insights from his ASHP residency emphasized continuous education and practical learning. The session united professionals, urging action against antimicrobial resistance for a stronger healthcare future.



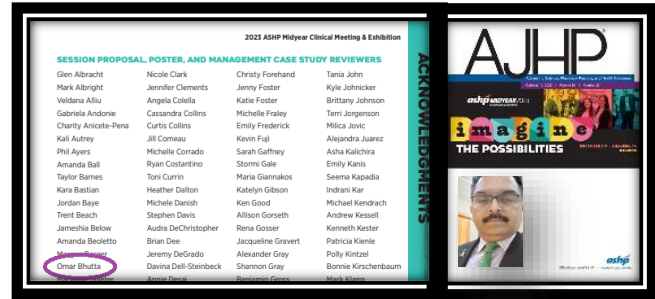
Hospital wide Nursing orientation on HIS processes & updates

The Pharmacy department at SKMCH&RC, Lahore, recognizes nurses' crucial role in patient care and has organized a hospital-wide orientation session. Aimed at updating staff on policies, procedures, and workflow, it encourages communication with Pharmacy for queries on drug therapy. This proactive approach enhances patient safety and mitigates potential drug therapy problems.

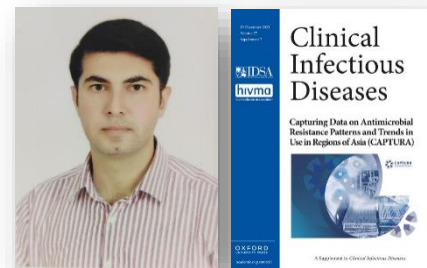
Publications

Recently, research publications authored, acknowledged, and collaborated on by pharmacists from SKMT have been accepted and published in reputable international journals, marking significant contributions to the field:

Mr. Omar Akhlaq Bhutta, Associate Director Pharmacy, SKMT, has been acknowledged by ASHP Midyear Clinical Meeting & Exhibition 2023, as Reviewer for 'Session Proposal, Poster, And Management Case Study Reviewers' published in, American Journal of Health-System Pharmacy (AJHP), Volume 80, Issue 20, 15 October 2023, Pages 1371–1520, <https://doi.org/10.1093/ajhp/zxad226>



Mustafa, Tauqeer, **Muhammad Rehan Khan Niazi**, Zahra Lakdawala, and Shaper Mirza. "Regional and National Trends in Consumption of Antimicrobials in Pakistan; Pre and Post-COVID (2019–2021)." Clinical Infectious Diseases 77, no. Supplement_7 (2023): S569-S577. (Impact Factor 11.8)



Board of Pharmacy Specialities

Compounded Sterile Preparations Pharmacy Specialty Certification

Ms. Faiqa Malik, Assistant Manager Pharmacy, at Shaukat Khanum Memorial Cancer Hospital & Research Centre, Lahore, has passed the Board of Pharmacy Specialities (BPS) exam for Sterile Compounding and is our new Board Certified Sterile Compounding Pharmacist (BCSCP).

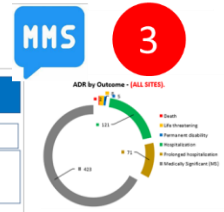
Link to BPS page for further guidance is available online:

- Compounded Sterile Preparations Pharmacy Specialty Certification. Board of Pharmacy Specialities. BPS. 2023. Information available from: <https://bpsweb.org/compounded-sterile-preparations-pharmacy/>



Faiqa Malik
Assistant Manager Pharmacy

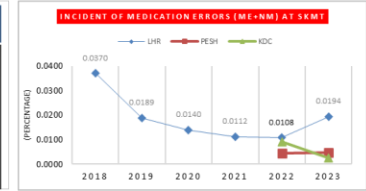
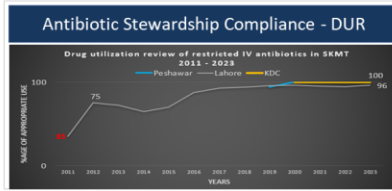
Medication Management & Use – 2023 Summary



New Drugs Approved	Drug Request Rejected	Drugs Excluded	Rx Restriction Applied
8	2	3	Nil

Adverse Drug Events (ADE's) Reported								
ADR's			Med. Error			Near Miss		
Lahore	Peshawar	KDC	Lahore	Peshawar	KDC	Lahore	Peshawar	KDC
400	171	59	28	5	1	327	20	0

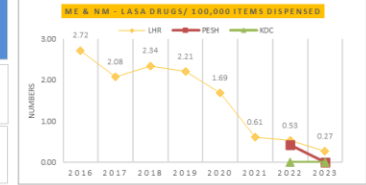
Drug Recall	Hospital Formulary	Parenteral Handbook	Pharmacy Newsletter
2	12 th Edition	9 th Edition	4



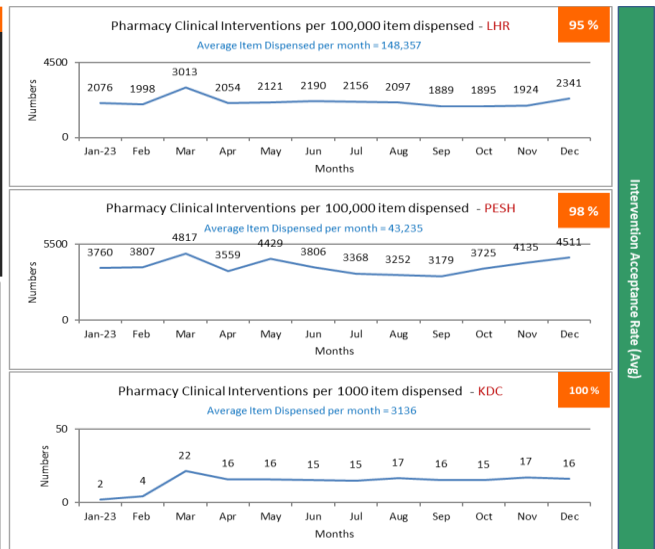
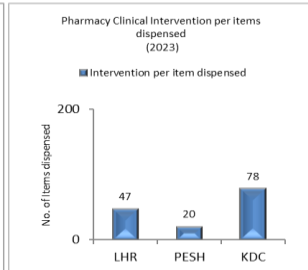
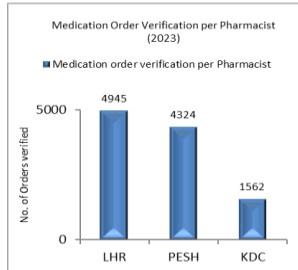
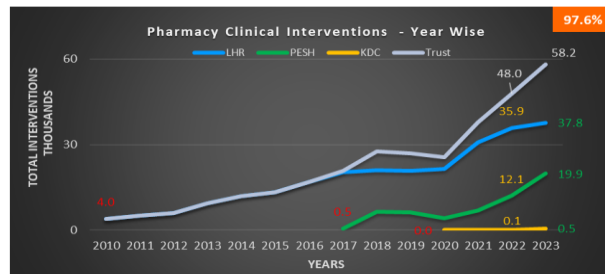
Pharmacy Clinical Interventions		
Lahore	Peshawar	Karachi
37754	19891	534
Acceptance 95%	Acceptance 98%	Acceptance 100%

Tender 2022-23	
New Pharma Co. Participated	Chemical Equivalency Conducted
10	4

Accreditation by the American Society of health-System Pharmacists (ASHP) - Year - I			
	Pharmacy Residency (Lahore)	Completed 08	In Process 02
	Pharmacy Residency (Peshawar)	Completed 01	In Process 02

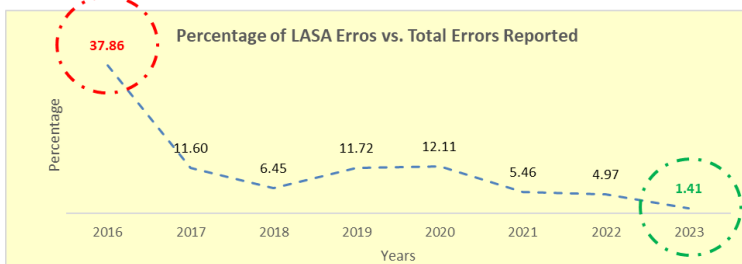


Pharmacy Clinical Interventions



Quality Improvement Project

Reduction of dispensing and administering errors associated with LASA drugs by implementing new stacking plan in Pharmacy, SKMT



Quality Improvement Project - Department of Pharmacy

Reduction of dispensing and administering errors associated with LASA drugs by implementing new stacking plan in Pharmacy, SKMT

Introduction: LASA drugs are a category of high-potency medications that have the potential for catastrophic errors. These errors can occur when similar-looking or similar-sounding drugs are dispensed or administered to a patient. The Department of Pharmacy at SKMT has implemented a new stacking plan to reduce the risk of these errors.

Problem Statement: The Department of Pharmacy at SKMT has experienced a high number of dispensing and administering errors associated with LASA drugs in the past few years.

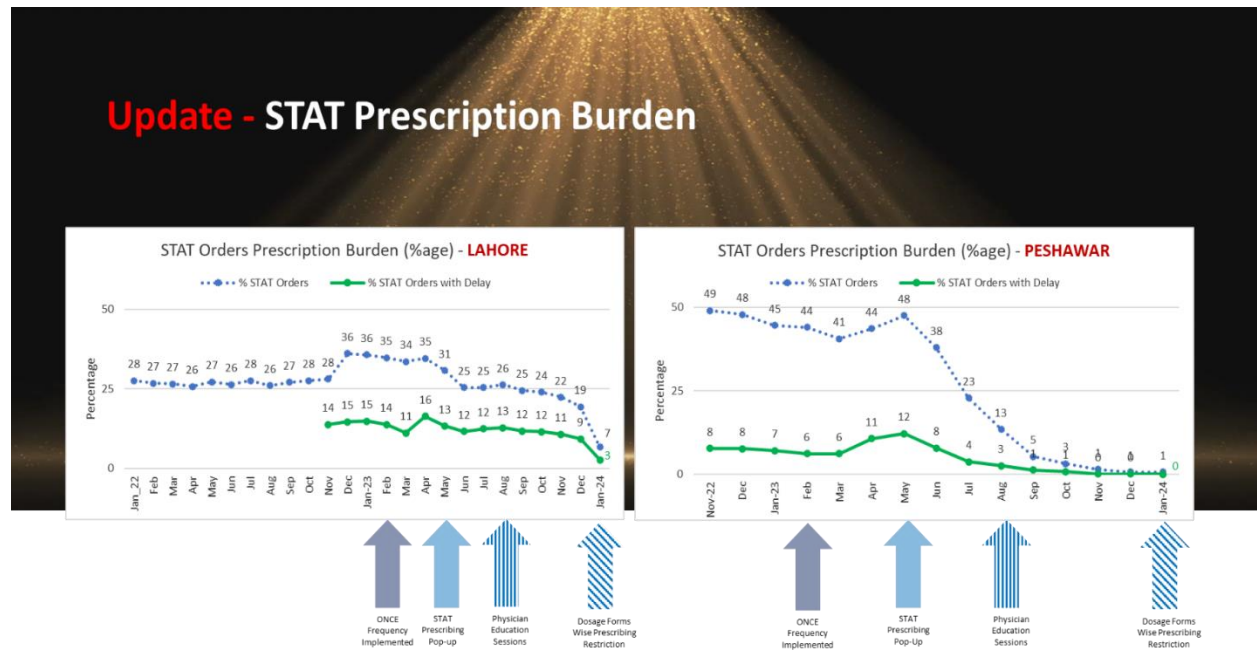
Objective: The Department of Pharmacy at SKMT aims to reduce the number of dispensing and administering errors associated with LASA drugs by implementing a new stacking plan.

Methodology: The Department of Pharmacy at SKMT has implemented a new stacking plan for LASA drugs. This plan involves separating LASA drugs from other drugs in the pharmacy and using color-coded labels to identify them. The Department of Pharmacy at SKMT has also implemented a new training program for pharmacy staff to ensure they are aware of the risks associated with LASA drugs and how to prevent errors.

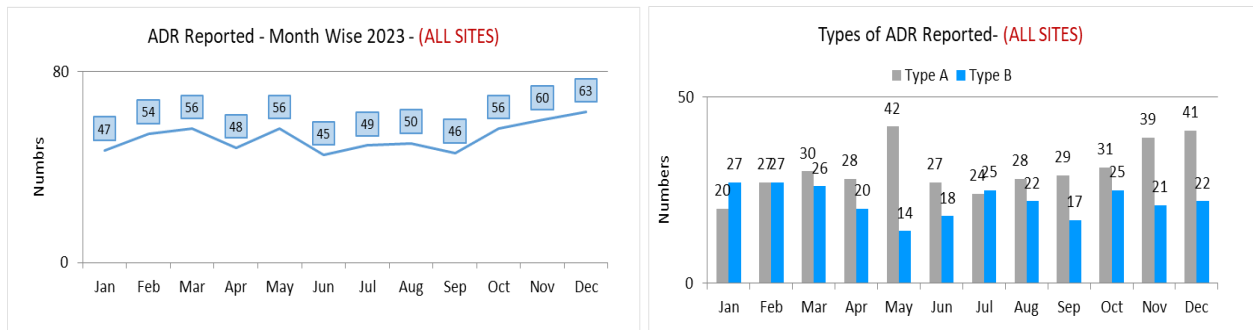
Results: The Department of Pharmacy at SKMT has successfully reduced the number of dispensing and administering errors associated with LASA drugs. The percentage of LASA errors has decreased from 37.86% in 2016 to 1.41% in 2023.

Conclusion: The Department of Pharmacy at SKMT has successfully implemented a new stacking plan for LASA drugs, which has resulted in a significant reduction in the number of dispensing and administering errors. This project demonstrates the importance of implementing safety measures to prevent medication errors and the need for ongoing monitoring and evaluation of safety measures.

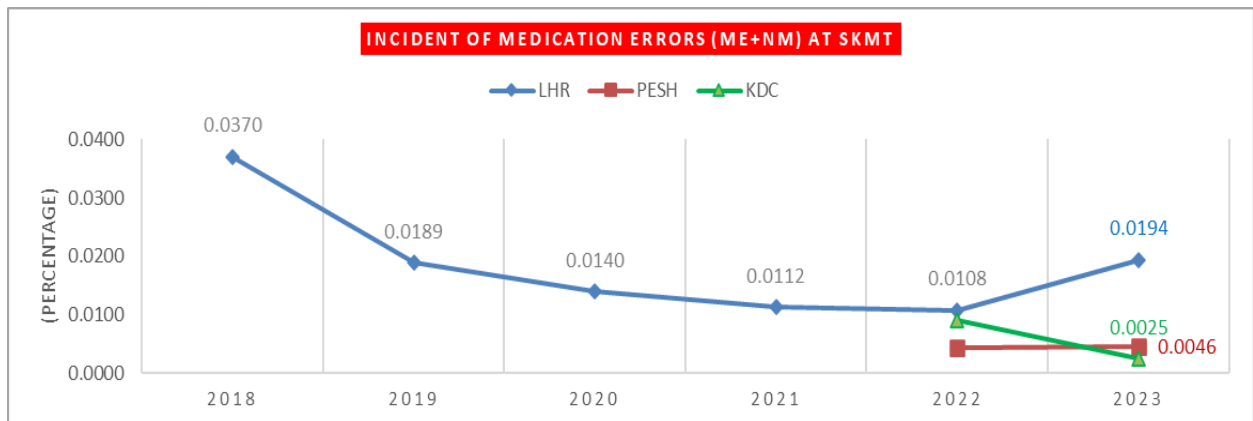
Strategies to Rationalization the STAT medication orders



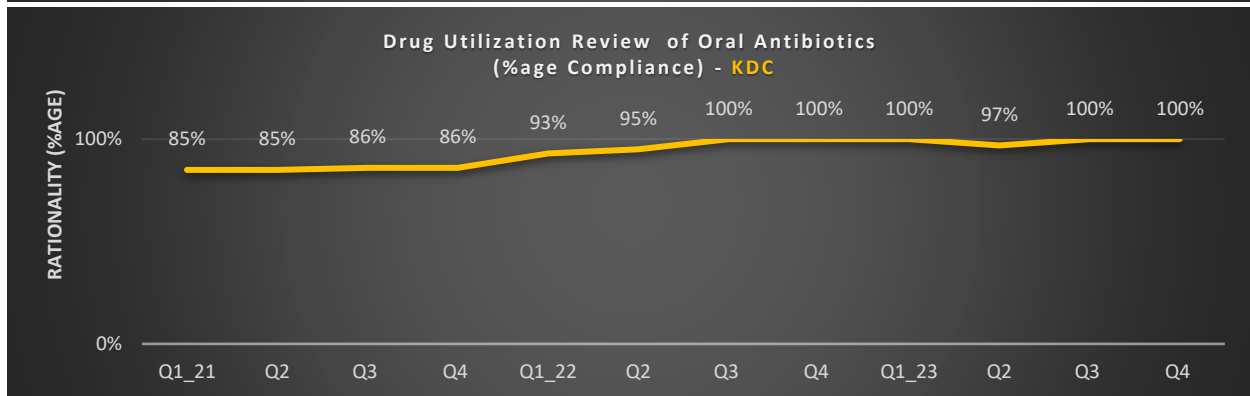
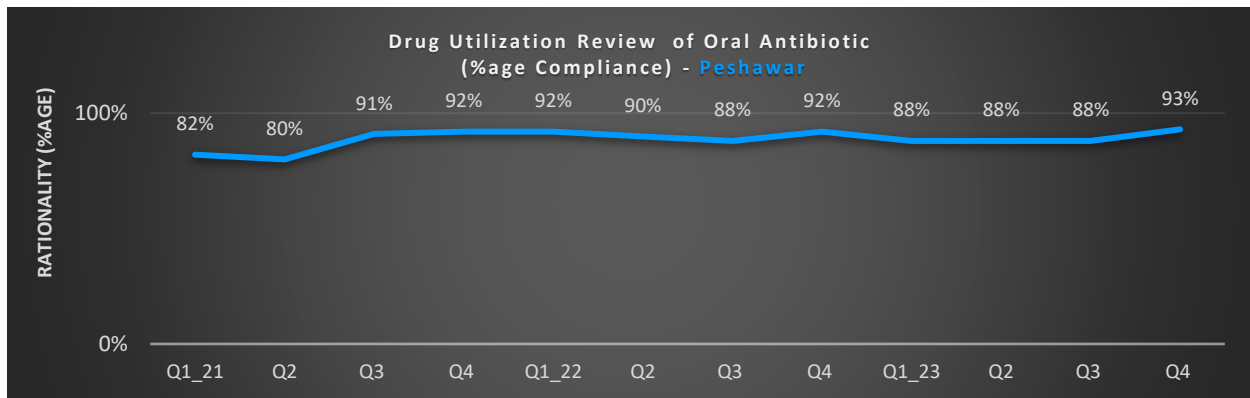
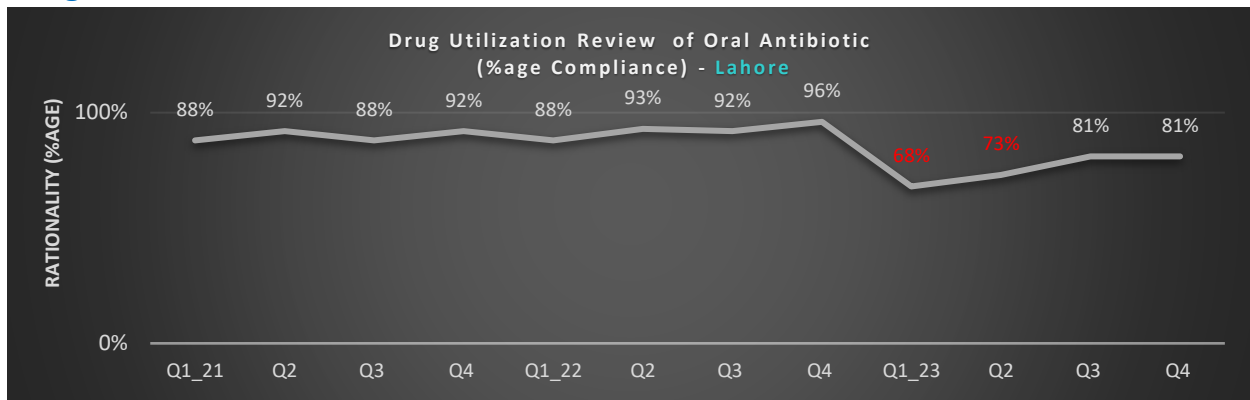
Adverse drug Events (ADE') – Medication Adverse Drug Reactions (ADR's)



Adverse drug Events (ADE') – Medication Errors & Near Miss Reported



Drug Utilization Review - Oral Antibiotics



Update: High alert and LASA medications

Following drugs have been added in list:

- ✓ **Addition of HAM medication**
 - Ruxolitinib
 - Cyclosporin
- ✓ **Addition of LASA medications**
 - Ruxolitinib with Rituxumab
 - Cyclosporin with CycloSERINE & CYCLOphosphamide

MMU: New Initiative in 2023

- 1st Quality Oncology Practice Initiative (QOPI) certification in Pakistan
- CMEs for Pharmacist & Technicians (15 sessions)
- External Workshops (8 activities)
- Participate in International conferences (04)
- Nursing Staff training sessions (07)
- World health days celebrations (04)
- Research Publications (05)

Pharmacy and Therapeutic committee –

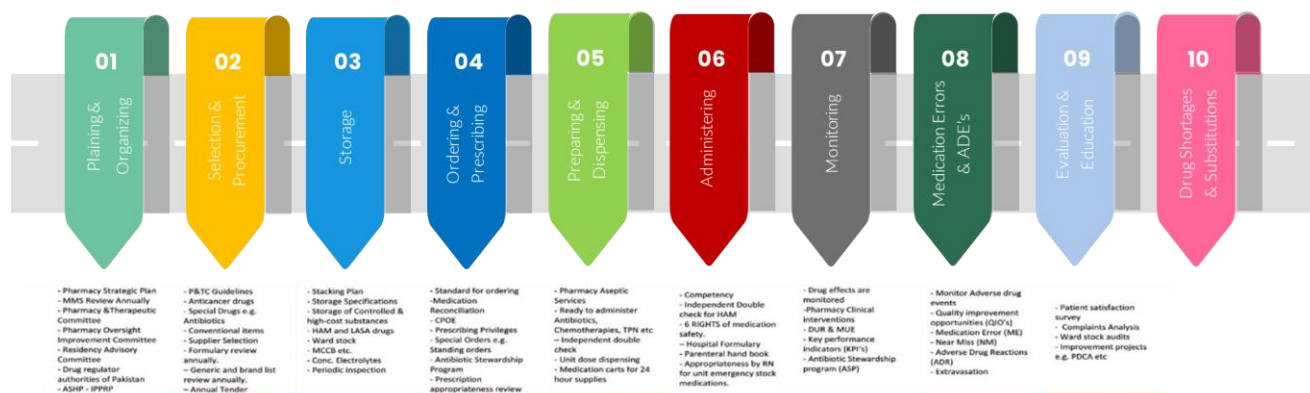
Supplemental updates related to existing drug approvals.

Adult Patients	Pediatric Patients
<ul style="list-style-type: none"> • Trastuzumab: added 5 Patients per month • Pertuzumab: added 1 Patient per month • Plerixifor: added 6 slots per year • Nivolumab: 5 patients per year • Venetoclax: added 10 slots per year • Pembrolizumab: added 2 patients per year • Polatuzumab: added 1 patient per year • Abiraterone: added 1 patient per month • Sunitinib: 3 patients per year • Venetoclax + Azacitidine: reduced 1 slot per year 	<ul style="list-style-type: none"> • Rituximab: added 10 patient per year • Rasburicase: added 5 slots per year

Medication Management & Use (MMU)

SCOPE OF SERVICE

To Provide safe Pharmaceutical Services with high quality of patient care in an atmosphere of professionalism, respect and effective communication



To keep the Pharmacy Newsletter updated,
Please contact at druginfo@skm.org.pk