



**Dr. Shobhana Gupta**  
Dean  
GMERS Medical  
College, Gandhinagar

### Welcome to GMERS Medical College, Gandhinagar

GMERS Medical College, Gandhinagar is an academic institution of repute under The Gujarat Medical Education and Research Society of Department of Health and Family Welfare, Government of Gujarat and located in the city of Gandhinagar, Capital of Gujarat State in Western India. It is one of the fastest growing Medical College of Gujarat. The institute strives to be among the top medical colleges in India in the spheres of medical education, research and health care services.

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### From Editorial Desk

### Materiovigilance – Need of the Hour in Rapidly Growing Medical Era

The Ministry of Health and Family Welfare, GOI has notified Medical Devices Rules, 2017 on 31.01.2017. which is effective since 01.01.2018 & initiated Materiovigilance Programme of India (MvPI). MvPI aims to monitor, report, and analyse the adverse events associated with the use of medical device as a step forward promoting patient safety. MvPI also aims to systematically collect data on medical device related adverse events, and analyse them scientifically to aid in regulatory division and recommendations on safe use of medical devices which are made using data generated from India. The programme is meant to monitor medical device associated adverse events (MDAE), create awareness amidst medical professionals about the importance of MDAE reporting in India and to monitor the benefit-risk profile of medical devices. It is also meant to generate independent evidence-based recommendation on safety of medical devices and to communicate the findings to the all the key stakeholders. Medical devices are classified into different categories based on their risk into class A,B,C and D. Devices included into different categories are depicted in the given image.



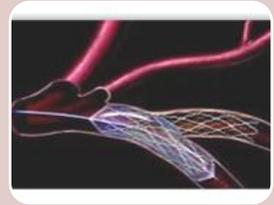
**Low Risk:  
Class A**  
Thermometers;  
Surgical dressings;  
Swabs



**Low-Moderate  
Risk: Class B**  
Hypodermic needles;  
Suction equipment;  
Hematology reagents kit



**Moderate-High  
Risk: Class C**  
Ventilator;  
Bone fixation plate;  
Intraocular lenses



**High Risk:  
Class D**  
Cardiac stents;  
Implantable defibrillator;  
Cochlear implants

Similar to the Pharmacovigilance Programme of India (PvPI), Indian Pharmacopoeia Commission (IPC) is also functions as the National Coordination Centre (NCC) for the Materiovigilance Programme of India. Sree Chitra Tirunal Institute of Medical Sciences & Technology (SCTIMST), Thiruvananthapuram is functioning as a National Collaborating Centre for the MvPI. Currently the awareness regarding this programme as well as its reporting mechanism is very less amidst health care professions which needs to addressed.

From Editorial Desk

### Materiovigilance – Need of the Hour in Rapidly Growing Medical Era

Medical Device Adverse Event Monitoring Centres (MDMCs) have been established to create awareness about the programme and enhance the quality of reporting. The adverse events associated with medical devices and invitro diagnostics have been collected in the “Medical Device Adverse Event Reporting Form” designed by IPC. Under the Materiovigilance Programme of India (MvPI), a total of 293 Medical Device’s Adverse Events Monitoring Centres (MDMCs) have been registered till date. Till November, 2022, NCC-PvPI has reviewed and possessed 11,738 medical Device Adverse Event (MDAE) Reports in MvPI database.

Department of Pharmacology, GMERS Medical College, Gandhinagar runs the ADR Monitoring Centre (AMC) since last 2 years. We feel highly privileged to inform that in this short span, this AMC is in top 20 centers amidst India in reporting suspected adverse drug reactions. We are also planning to establish MDMC and want to work actively in the field of Materiovigilance. We want to be an integral part of the MvPI and to encourage the healthcare professionals for the reporting of MDAE. We want to enhance the MvPI by contributing in our best possible way. By establishing MDMC, we want to strengthen the reporting, monitoring, and analyzing process of MDAE in our institute which in turn will be helpful for the improvement of patients’ safety and to the community as far as the medical devises are concerned. The department is committed to work dedicatedly upon the betterment of mankind in terms of more and more safe use of medical devises in the treatment of various medical conditions.

**Dr. Darshan J Dave**  
Professor & Head,  
Department of Pharmacology



2022: Issue 4 (October-December)

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## Foundation Stone Laying Ceremony of Super Specialty Hospital, Trauma Centre and Rain Basera by Hon'ble President of India



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## Foundation Stone Laying Ceremony of Super Specialty Hospital, Trauma Centre and Rain Basera by Hon'ble President of India



Foundation Stone Laying Ceremony of Super Specialty Hospital,  
Trauma Centre and Rain Basera by Hon'ble President of India



Hon'ble President of India, Smt. Droupadi Murmu, who visited Gujarat on October 03, 2022, for the first time after becoming the President of India, started her address in Gujarati and said that, for the first time after becoming the President of India, I am feeling very delighted to be here in Gujarat among all of you. I pray that may you all keep advancing in your skills. Smt. Droupadi Murmu, Hon'ble President of India inaugurated and laid the foundation stone for various projects worth Rs. 1,330 crore rupees at the GMERS Medical College campus in Gandhinagar, in the august presence of Shri Acharya Devvrat, Hon'ble Governor of Gujarat; Shri Bhupendrabhai Patel, Hon'ble Chief Minister of Gujarat; Shri Shripad Yesso Naik, Hon'ble Minister of State for Ports, Shipping and Waterways & Tourism; Shri Rushikesh Patel, Hon'ble Minister of Health; Shri Naresh Patel, Hon'ble Ex-Minister of Tribal Development; Smt. Nimishaben Suthar, Hon'ble Ex-Minister of State for Tribal Development and Health & Family Welfare. At GMERS Medical College and Hospital, Gandhinagar, Hon'ble President of India laid the foundation stone of the Super Specialty Hospital, Trauma Centre and Rain Basera to be built at a cost of Rs 373 crore. The new super specialty hospital will have 600 beds while the trauma center will have 255 beds. Apart from this, 448 bed facilities will also be made available for relatives of patients in Ren Basera. Besides, she also inaugurated the new GMERS Hospital and Medical College to be built at a cost of Rs 530 crore in Rajpipla Narmada district through video conferencing. The new medical college will admit 100 students every year in the MBBS graduate level course. Chief Secretary Shri Pankaj Kumar along with office bearers and high officials along with doctors and students were present on this occasion.

## Twinkle Little Stars of Pediatrics



**From 620 gm**



**To 2.5 kg**



Three extreme low birth weight newborn babies with weight 620 gm, 750 gm and 900 gm admitted at our Special Newborn Care Unit (SNCU), Department of Pediatrics in critical condition. They suffered from complication like respiratory distress syndrome, sepsis. They were given continuous positive airway pressure (CPAP) with surfactant, antibiotics and all other supportive care. Babies were discharged successfully with intact neurological parameters; normal results in retinopathy of prematurity screening and otoacoustic emissions (OAE) test with weight 1200 gm, 1450 gm and 1500 gm. Follow-up at 1 year, babies having normal developmental milestone. Smiles of baby's and on parents' face was great moment for all our SNCU doctors and Staff.

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## Twinkle Major Stars of Pediatrics



Third-year DNB student of Department of Pediatrics, Dr. Mayur Gwalani, awarded third prize in poster presentation, entitled, "The effect of Kangaroo Mother Care in low-birth-weight neonates admitted in special newborn care unit" at GUJPEDICON-2022, a State Pediatric Conference.



Undergraduate medical students, Mr. Karsh Rathod and Ms. Honey Khemani, awarded second prize in UG Pediatric Quiz Competition of Zonal round held in Ahmadabad under the guidance of Dr. Ekta Dalal and Dr. Nirali Dhivar.



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## Antimicrobial Stewardship Sensitization Programme



The antimicrobial stewardship (AMS) programme provides strategies for rationalising antimicrobial use in hospitals. Sensitization programme of clinical staffs regarding AMS was held on December 16, 2022 under the leadership of the Dean and the Superintendent. AMS committee was formed and job description was defined to each relevant department regarding smooth functioning of this programme.

## Awareness of Blood Culture Collection Technique for NICU Staff



Blood is one of the most important specimens received by the Microbiology laboratory for culture and sensitivity reporting. Culture and sensitivity reporting of blood is the most sensitive method for detection of bacteremia or fungemia. Issues related to types of bacteraemia, indications, and technique for blood cultures are reviewed here. The quality of the specimens submitted to the microbiology laboratory is critical for optimal specimen evaluation. In general, adult patients with bacteraemia are likely to have low quantities of bacteria in the blood, even in the setting of severe clinical symptoms. In addition, bacteraemia in adults is generally intermittent. Bacteria multiply quickly in neonates, and the mortality rate due to septicemia in NICU patients is high. So, the awareness program regarding the blood culture collection technique of NICU staff was done by Dr. Parul on October 13, 2022.

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## Pride of Ophthalmology



Dr. Mariam Mansuri, Professor and Head of Department of Ophthalmology, was awarded for her services in community ophthalmology at Global Conclave, an Annual Conference, organized by Women Ophthalmologists Society (WOS) with Women Ophthalmologists Worldwide (WOW), held from 4th - 6th November 2022 at hotel Radisson Blu, Sector 18, Noida, NCR Delhi, India.



Light up a Life  
Donate Your Eyes

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## Basic Life Support Training to BSF Jawans



Basic Life Support training was conducted by Department of Anaesthesia, GMERS Medical College, Gandhinagar for BSF Jawans on October 8, 2022. It was our privilege to throw light on this basic life skill to this important subset of our society. Jawans were taught how to recognize signs of cardiac arrest, perform high quality chest compressions & rescue breaths. It was a highly fruitful and interactive session with hands on training.

## Department of Anaesthesia – Knights in Shining Armour



Successful and uneventful anaesthetics management of patients under two years of age with congenital cardiac anomalies for cochlear implant



Successful Awake Fiberoptic Bronchoscopy for difficult airway management and endotracheal tube insertion on a patient with one finger mouth opening



Successful anaesthetics management for congenital inflammatory glaucoma in neonatal patients who themselves are high risk for anaesthesia.

## Organization of Blood Donation Camps



Blood donation camps were organized by the Department of Pathology at many places. One of the major camps was organized at Rajula, where the department collected 251 blood bags, while at the military camp station, 141 blood bags were collected. All donors were given refreshments and were recognized with certificates. All the bags were transported to the Blood Bank of the GMERS Medical College and Hospital, Gandhinagar, maintaining the appropriate temperature for component separation. These blood bags and other blood products are provided to the patients in need at the hospital.

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Foundation Course for First-Year MBBS Students



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## Orientation Programme for First-Year Post-Graduate Students



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## Orientation Programme for First-Year Post-Graduate Students



An orientation programme was organized by GMERS Medical College and Hospital on November 20, 2022, to welcome the new batch of post-graduate (PG) students. The programme was attended by all first-year PG students, HODs of all departments, the Dean, and the Superintendent. The orientation programme was specifically designed to provide an overview of the PG curriculum to the students. The topics were carefully chosen to prepare students to undertake research projects and dissertation topics. Other topics included were rules and regulations for the PG course, the Basic Course in Biomedical Research (BCBR), and the bond, duties, rights, and responsibilities of the resident doctor.

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## Proud for ENT Department



Left hemiglossectomy. with extended supraomohyoid neck dissection done by Dr. Yogesh Gajjar, Professor and Head, Department of ENT and team for squamous cell carcinoma of stage 2 of left lateral margin of tongue.



First-year PG student of Department of ENT, Dr. Priya Savsani, awarded Second prize in poster presentation, entitled, "Intraoral lipoma – A rare tumour" at Head & Neck Conference and Workshop on December, 17-18, 2022 at Rajkot.



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## Achievements of Dermatology Department



Dr. Bela Padhiar, Associate Professor, Department of Dermatology, directed the session on "Connective Tissue Disorders" as Chairperson in 48<sup>th</sup> Cuticon Gujarat 2022, held at Surat on December 23-25, 2022 organized by IADVL Gujarat State Branch.



Dr. Nupur Warke and Dr. Radhika Agarwal, PG Students of Department of Dermatology, participated in IADVL Quiz, a State Level Quiz Program and awarded Second prize the quiz in 48<sup>th</sup> Cuticon Gujarat 2022, held at Surat on December 23-25, 2022 organized by IADVL Gujarat State Branch.

Dr. Nupur Warke's paper, entitled, A comparative study of 5-fluorouracil micro-needling and Jodhpur technique in patches of stable vitiligo at a tertiary care hospital, was selected for presentation in award paper category in the 48<sup>th</sup> Cuticon Gujarat 2022.

## Case Report: Department of Orthopaedics



A 38-year-old male presented at Orthopaedics Department with a comminuted medial condyle femur fracture and a history of road traffic accidents. After properly stabilizing the patient's vital signs, the patient was admitted and was posted for surgery after a preanaesthetic checkup. Surgery was done to fix the fracture using minimal implantation (2 C.C. screws and 2 Herbert screws) for such a comminuted fracture. After being immobilized in an above-knee slab for four weeks, the patient was allowed to resume knee immobilization and weight bearing. After extensive physiotherapy, the patient was evaluated at 2 months with excellent clinical results.

Case Report: Department of Orthopaedics



A 55-year-old male patient presented to the Orthopaedics Department's outpatient clinic with a closed peri-implant fracture of the lower third of the humerus. A lower third of the humerus fracture was operated in private hospital one year ago. He had another history of trauma that resulted in a peri-implant fracture of the humerus with implant failure. After a thorough preanaesthetic checkup and consent, the patient was admitted and scheduled for revision surgery. Old implants were removed, including many broken screws; the radial nerve was carefully isolated; and revision plating was done with bone grafting. After 4 weeks of immobilization and physiotherapy, the patient had an excellent clinical outcome with proper bone union.

## Appreciation of Work of ADR Monitoring Centre



ISSN: 2320-7760  
**Newsletter**  
PHARMACOVIOLANCE PROGRAMME OF INDIA (PvPI)  
VOL 12 | ISSUE 2 | 2022

**Common measures to prevent Medication Errors-5Rs**

1R Right Patient  
2R Right Drug  
3R Right Dose  
4R Right Route  
5R Right Time

Published by  
National Coordination Centre-Pharmacovigilance Programme of India (NCC-PvPI),  
Indian Pharmacopoeia Commission (IPC), Ministry of Health & Family Welfare, Government of India

### PV Field Activities



GMERS  
Medical College  
Gandhinagar

Gujarat Medical & Education Research Society (GMERS), Gandhinagar is an ADR Monitoring Centre under PvPI. The AMC is in the pharmacology department of this institute. In very short time this centre has succeeded not only to establish pharmacovigilance set up but also has maintained it.

Regular conduct of sensitization and awareness sessions are organized for different stakeholders including clinicians, nursing staff, pharmacists, intern doctors and other paramedical staff. Research regarding the pharmacovigilance activities has also been promoted by this institute for undergraduate & postgraduate students as well as faculties. Out of many awareness activities conducted by this institute one such noteworthy activity was to aware the pharmacists of different pharmacy shops in the city by distributing ADR information flyer and counselling them to foster ADR reporting.



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### Feedback

### Pharmacovigilance Programme of India (PvPI)



**Dr. Darshan J. Dave**  
Professor & Head in Pharmacology

For an effective and efficient functioning of pharmacovigilance system, all the stake holders need to be alert and attentive throughout the life cycle of a medicinal product in the market. The stronger the national ADR reporting system, the more likely reasonable regulatory decisions will be made for the early release of new drugs and optimum usage of existing agents with the promise of therapeutic advances and better treatment outcome. This will play a pivotal role to decrease the health care expenditure. The long-term aim of this AMC is to provide healthy, outcome centred platform where all the stake holders will equally contribute towards the reporting of suspected ADRs.

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## COVID-19 Mock Drill



Amid a spike in COVID-19 cases in some countries, the Centre has asked states and Union Territories to conduct mock drills at all COVID-19 hospitals. At least one lakh beds and 15,000 ICUs with ventilators are ready to be converted for the use of COVID-19 patients if needed in Gujarat as the state reviewed operational readiness on Tuesday during a mock drill conducted across various health facilities. Shri Rushikesh Patel, Hon'ble Minister of Health reviewed preparations at GMERS Medical College and Hospital, Gandhinagar. He said a mock drill was held at health facilities including the community health centres (CHCs), medical colleges and hospitals, and district and sub-district hospitals across Gujarat where health infrastructure has been created to deal with the COVID-19 pandemic.

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## Family Adoption Program for the Batch Admitted in A.Y. 2022-23



The first family visit was planned for the new students admitted in the academic year 2022-23, in accordance with NMC, New Delhi guidelines, and under the guidance of Dr. Shobhana Gupta, Dean, and Dr. Jignesh Chauhan, Professor and Head, Department of Community Medicine, GMERS Medical College, Gandhinagar. On December 27, 2020, students, accompanied by faculty and health workers, visited the Ola village in Kalol Taluka of Gandhinagar district. Forty villages were adopted for the next five years. One day before the visit, the students were sensitized and made to understand the purpose and procedures of the visit. On December 28 and 29, the faculties of the Community Medicine Department solved the queries in the form of lectures and discussions.

## Publications

- **Gupta R, Rawal D, Gandhi R, Shah A.** A retrospective study of critical incidents during anaesthesia in a tertiary care government hospital. *European Journal of Molecular and Clinical Medicine.* 2022; 9(6):828-35.
- **Patel UH, Rajani BR, Kureshi FR, Gupta S.** A comparative study of propofol versus etomidate on the hemodynamic effects during endotracheal intubation in controlled hypertensive patients. *European Journal of Molecular and Clinical Medicine.* 2022;9(7):4149-58.
- **Ghughare BW, Dodiya DM, Prajapati S.** Comparison of second lumbrical interosseous median and ulnar motor conduction study in population of subjects with idiopathic carpal tunnel syndrome and non-CTS hands-a cross-sectional study. *Natl J Physiol Pharm Pharmacol.* 2022; 12(12):2197-2202.

